



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Bulletin 15 Description

Bulletin 15 is a listing of prequalified materials that are eligible for use on Department construction projects. The purpose of Bulletin 15 is to provide contractors, consultants, Department personnel, manufacturers, suppliers, and others with easy access to a listing of products whose manufacturers have demonstrated the capability to perform in accordance with Department specifications and to be accepted by certification on PennDOT construction projects. Contractors are ultimately responsible to the Department for the performance of all materials and products supplied to, installed or placed on, and/or incorporated into Department construction projects, notwithstanding the listing of any such materials and products in Bulletin 15

Bulletin 15 is available to the public in two formats: as a searchable database and as a pdf document.

Bulletin 15 listings are organized in the format of Publication 408, Specifications. A Bulletin 15 listing includes an assigned supplier code, the supplier name and address, the product name/type/use, and reference number. The reference number (Ref. No.) is the Product Evaluation control number under which the item was tested and approved (the first four digits are the year of submission). The absence of a reference number indicates that the item was approved prior to the implementation of the current numbering system. For some precast and prestressed items, the date of the approval letter from the Structural Materials Section is provided. For traffic items, the Traffic Division "Certificate of Approval (COA)" number or date is provided.

Bulletin 15 listings will indicate if a Producer is on a reduced Level of Certification (i.e. at a certification level other than Level 1). Producers are assigned a Level of Certification, based on their ability to comply with the specifications. Material provided by Producers listed in Bulletin 15 is approved for use only in its intended application(s).

Bulletin 15 listings will also indicate by notation if a product has received either a **Provisional Approval** or a **Conditional Approval**. These approval categories usually involve products that require further monitoring. The Department has the right to remove any provisionally approved or conditionally approved manufacturer and/or product from Bulletin 15 immediately.

- Provisionally approved products are typically products approved under provisional specifications.
- Conditionally approved products are products approved under manufacturer's specifications. PennDOT may supplement or modify the manufacturer's specifications as needed using special provisions.



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Bulletin 15 Material Approval Process

PennDOT utilizes a web-based Product Evaluation Application process for approving and listing products in Bulletin 15, Qualified Products List for Construction. PennDOT does not charge a fee for submitting a Product Evaluation Application or for the review and approval process.

Step 1 of Product Evaluation Application Process

PennDOT's Product Evaluation Application system requires a username and password to access. To request a username and password, follow these steps:

1. Go to www.ecamms.pa.gov
2. Click on **REGISTER**.
3. Select **BUSINESS PARTNER**.
4. Complete the **Organization Information, User Profile Information, and Access Selection** tabs.
5. Near the bottom of the **Access Selection** tab, select **Submit applications for new product approvals** under **eCAMMS Access**.

After submitting the request, it may take up to 10 business days for you to receive a username and password to access the system.

- PennDOT's Construction Specifications: [Publication 408](#)
- PennDOT's primary website: <https://www.penndot.gov/Pages/default.aspx>

Step 2 - Product Evaluation Application Process

1. Go to www.ecamms.pa.gov and enter the password and username supplied by PennDOT.
2. From the **Product Evaluation** menu, select **My Product Evaluation**.
3. Click the **Add New** menu, select **My Product Evaluation**.
4. A manufacturer/fabricator will need to complete the **Applicant, Manufacturer, Product, Certification, QC Plan & Attachments**, and the **Sign and Submit** sections in the application. PennDOT will not start reviewing an application until it is signed and submitted. The application can be saved and resumed at a later time.
5. A manufacturer/fabricator will need to submit one application for each product. Use the copy feature to transfer company information from one application to another.
6. **Applicant tab:** Please provide additional company contacts (The QC representative and company principal need to be two different employees).
7. **Manufacturer tab:** For the Manufacturing Facility Type / Business Type, select the most applicable type. If there isn't a close match, select All Other Manufacturers.
8. **Product tab:** Provide the product name, purpose, and description. Any field with an asterisk (*) must contain a selection.
9. **Certification tab:** for Summary of Product Compliance, select whether the product fully meets a PennDOT [Pub 408 Construction Specification](#) does not fully meet, or no applicable standard exists Please provide both the applicable Publication 408 and Bulletin 15 sections.



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10. QC Plan & Attachments tab: A **QC Plan** and a **QC Supplement** form is required for each application. A blank copy of the **QC Supplement** form is available to download and fill-out. For manufactured products, an independent testing report is required to be submitted to show compliance with PennDOT's Pub 408 specifications. You will not be able to sign and submit the application until all of the required attachments have been uploaded. The required documents are marked with an '*'. PennDOT limits individual attachments to 10 MB each.

The following entities are eligible to apply for Bulletin 15 approval:

- Manufacturers
- Steel Epoxy Coaters or Galvanizers
- Wood Treaters
- Steel, Aluminum or Timber Fabricators
- Machine Shops
- Paint Shops
- Precast/Prestressed Concrete Producers
- Cement Plants or Terminals
- Pozzolan Providers
- Bituminous Terminals or Refineries
- Bridge & Structural Products
- Structural Steel Coatings
- Geotextiles
- ITS Devices
- Pavement Markings
- Pipe
- Roadside Safety Hardware
- Sign Sheeting
- Sound Barriers
- Traffic Signals
- Work Zone Devices

The manufacturing facility must be operational and able to produce the product submitted for evaluation.

The Product Evaluation Application requires company information, product description and technical information, and Quality Control plan information. The Product Evaluation Application also requires specialized testing and certification for some manufacturers/companies, as summarized in the table below:



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Manufacturer / Company	Requirement for Application Submission
Structural Steel Coatings (SSC)	NEPCOAT Approved, NTPEP Tested
Geotextiles (GTX)	NTPEP Tested
High Density Polyethylene Pipe (HDPE)	NTPEP Tested
Pavement Marking Materials (PMM)	NTPEP Tested
Sign Sheeting Materials (SSM)	NTPEP Tested
Precast Concrete Products	NPCA or PCI Plant Certified
Prestressed Concrete Products	PCI Plant Certified
Reinforced Concrete Pipe	NPCA, ACPA, or Q-Cast Plant Certified
Roadside Hardware / Work Zone Devices	Crash Test Report
Sound Barriers	Noise Reduction Analysis
Structural Steel Fabrication with Welding	AISC Certified
Structural Paint Shops	AISC or SSPC Certified

During the product evaluation/approval process, index properties (including tolerances or ranges for these index properties) may be established for applicable products or product lines as a means to determine consistent compliance with the PennDOT specification requirements. The established index properties (and tolerances or ranges) will be considered inclusive of all associated sampling, material, and test method variability (i.e., ASTM/AASHTO precision estimates, manufacturing/product variability, shelf life effects, or any other deviations).

When established, these index properties (and tolerances or ranges) are to be used by manufacturers in determining acceptable QC test results for these index properties. PennDOT will also use these established index properties (and tolerances or ranges) for future quality assurance verification or acceptance testing.

Index properties (including tolerances or ranges) submitted by manufacturers are subject to review and acceptance by PennDOT LTS. Once the final index properties (and tolerances or ranges) have been established and approved by PennDOT, the manufacturer must adhere to producing consistent quality materials within these index property limits (tolerances or ranges). Proposed changes to the approved index properties may require the submission of a new Product Evaluation Application to PennDOT by the manufacturer.



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Suppliers, distributors, or companies that outsource the manufacturing of their products, or private label products that are manufactured by other companies are typically not eligible to submit a Product Evaluation Application (for approval and listing in Bulletin 15) unless the outsourcing company performs all required quality control testing and verifications and assumes full responsibility for the performance of the product. Non-eligible companies may obtain products or material from any approved source listed in Bulletin 15, for resale to pre-qualified contractors.

Eligible firms who need assistance completing the application may contact NPETS Support via phone at (717) 425-5816 or e-mail at RA-pdBOPDNPETS@pa.gov



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Bulletin 15 Levels of Certification

Material provided by Producers listed in Bulletin 15 is approved for use only in its intended application(s). Producers will be assigned a Level of Certification, based on their ability to comply with the material specifications. Producers will initially be assigned a LEVEL 1 certification. Poor material performance or material quality issues may dictate a reevaluation of a producer’s certification level.

The Levels of Certification are defined as follows:

Levels of Certification for Bulletin 15 Producers		Producer Material Shipment Procedure	Producer Additional Requirements
Level 1	Standard Certification	Ship on Certification with Form CS-4171*	None
Level 2	Standard Certification - Reduced	Ship on Certification with Form CS-4171*	See below
Level 3	Lot Approval Certification	Ship only after Material Lot Approval using Modified Certification, with Form CS-4171*	See below
Suspension or Removal	In accordance with the State’s Contractor Responsibility Program: <ul style="list-style-type: none">• Producer may be suspended or removed from Bulletin 15 for any of the reasons stated in the Bulletin 15 Preface, regardless of Producer certification level.• Failure of Producer to advance above Certification Level 3 will result in PennDOT’s initiating action for suspension or removal from Bulletin 15.		

* Certain Bulletin materials require supplemental or alternate forms of certification, refer to the next section, *Bulletin 15 Material Certification*.

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- **LEVEL 1 (Standard Certification)**
 - Initial Level of Certification typically issued to Bulletin 15 listed Producers.
 - Material is produced and tested in accordance with the Producer's approved QC Plan.
 - No known material performance or quality issues exist that warrant a reduced level of certification.
 - Material is shipped on certification using Form CS-4171.

- **LEVEL 2 (Standard Certification - Reduced)**
 - Reduced Level of Certification issued to Bulletin 15 listed Producers who have exhibited minor/moderate material performance or quality issues.
 - Producer is required to work with PennDOT on submission of an improvement plan that may include, but is not limited to, any or all of the following items: a revised QC Plan, a failure analysis/action plan to assess why failures are occurring and how to prevent these failures from occurring in the future, correlation testing between in-house and independent lab testing to assist with validating results.
 - Material is produced and tested in accordance with the improvement plan approved by PennDOT.
 - Material is shipped on certification using Form CS-4171.

- **LEVEL 3 (Lot Approval Certification)**
 - This Level of Certification is issued to Bulletin 15 listed Producers who have exhibited major material performance or quality issues.
 - Producer is required to work with PennDOT on an improvement plan as defined in Level 2.
 - Material **cannot** be shipped to projects using the standard CS-4171 certification process.
 - Producer must arrange for independent, in-plant acceptance testing (IPAT) that will be conducted side-by-side with "in-house" Producer testing at the designated frequencies in the revised QC plan. IPAT will be at the Producer's expense. PennDOT's Laboratory Testing Section (LTS) must approve the Producer's proposed IPAT provider, before it begins.
 - Any material lot to be used on a project must be tested and approved by the IPAT as meeting the required PennDOT specification prior to shipment to the project.
 - Each material lot meeting the specification may be shipped to a project using a modified certification process as follows: submit, to both the Project Representative and LTS, Form CS-4171 along with a signed letter from the IPAT (on their official letterhead) indicating that the material lot meets testing and specification requirements.
 - Correlate results from parallel "in-house" Producer testing and IPAT testing, and submit to the LTS on a monthly basis.

Bulletin 15 Material Certification

A completed Form [CS-4171](#), “Certificate of Compliance” must be submitted, with each shipment of material to the project. Form CS-4171 must be properly signed by a legally responsible company official. Electronic submission of Form CS-4171 and the use of electronic signature (eSignature) on Form CS-4171 are available options.

Certain Bulletin materials require the submission of supplemental CS-4171 certification in addition to Form CS-4171, to provide traceability of materials in multi-step manufacturing processes.

- Epoxy coated or galvanized reinforcement steel requires the submission of supplemental certification Form [CS-4171C](#) (Epoxy Coating or Galvanizing Facility) and/or Form [CS-4171F](#) (Fabrication Facility).
- Structural steel, aluminum, or precast/prestressed concrete products, produced in a Bulletin 15 approved facility with an on-site state inspector or a state representative, must be stamped with an approved inspection stamp at the plant and certified with a Form CS-4171.

Certain Bulletin materials require a form of certification other than the Form CS-4171, as identified in the particular material specification.

- Section 701 and 702 materials require a properly completed vendor bill of lading.
- Certification of daily bituminous mixtures requires submission of Form [CS-4171B](#)
- Certification of locally approved non-Bulletin materials requires submission of Form [CS-4171LA](#)

Form CS-4171 is completed by the manufacturer, fabricator, or producer (**Producer**) of Bulletin material provided to the project. The Producer maintains the original Form CS-4171 and provides a copy of Form CS-4171 with each direct shipment to the project. Producers must maintain all component certifications for purchased Bulletin materials, at their place of business for a period of not less than 3 years from the date of the last shipment to the project. Certification files must be available for inspection by the Department.

When a Producer sells a Bulletin 15 material to a distributor/supplier (**Shipper**), the Producer provides a copy of Form CS-4171 with each delivery to the Shipper. When a Shipper provides Bulletin 15 material directly to the project, the Shipper completes and signs a new Form CS-4171 and provides a copy with each direct shipment to the project. The Shipper will maintain the copy of the Producer’s Form CS-4171 that they have received. Shippers must maintain a certification file for purchased Bulletin materials to provide an audit trail to the Producer. Certifications for purchased Bulletin materials must be maintained at their place of business for a period of not less than 3 years from the date of the last shipment to the project. Certification files must be available for inspection by the Department.

The **Contractor** must ensure that Form CS-4171 is received for each project shipment of Bulletin material. The Contractor must submit to the Representative a properly completed and signed copy of Form CS-4171 for each project shipment. The Contractor should not incorporate any Bulletin material in the work until certification arrives on the project, unless otherwise approved by the Representative. Payment for material will be withheld until proper certification documentation is received. The Contractor must retain Form CS-4171 for a period of not less than 3 years from the date of



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the last project shipment and make files available for inspection and verification by the Department.

Contractors are responsible to the Department for the conformance to the specifications of all products and materials that the contractors select from Bulletin 15 and incorporate into the work on Department construction projects. Products may be monitored by the Department via inspection, sampling, and/or testing for quality assurance, verification, and acceptance purposes to ensure the quality of the material used is maintained.

Product sample failures will be evaluated at PennDOT's monthly Bulletin 15 failure committee meeting. Supplier test history will be reviewed to determine whether corrective action or root cause analysis by the supplier is warranted. If so, companies will be contacted individually with specifics regarding the requested information or other action(s) required. Failure to make corrections and consistently provide material meeting our specifications can and will result in reduction in certification level and may ultimately lead to Bulletin 15 removal.



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Plant Verification (PV) Samples

Producers and manufacturers of bituminous materials, cement, glass beads, roadway paint, and structural steel paint are required to submit Plant Verification (PV) samples to the Department. Producers are advised to keep a sufficient quantity of material from each production lot or batch to serve as retain sample(s) to perform additional testing as requested or directed by the Department.

In the event of a material PV Sample failure, the Department will require that the supplier's retained sample be split and one split be re-tested by the supplier and the results forwarded to the Department for review and the other split be provided to the Department. The Department will in turn, perform re-testing on the provided retained sample and compare both sets of test results.

Based on the material use and type of test failure, the Department will determine if the failure represented by the Department testing is significant enough to result in unacceptable performance, unanticipated maintenance or reduced service life, or other conditions which may warrant rejection and replacement. Significant material failures such as these may result in the Department notifying the supplier to take any or all of the following actions:

1. Identify and isolate the failed material to ensure that the failed material is not shipped to any PennDOT projects.
2. If the failed PV lot has already been shipped, immediately notify all brokers and distributors to whom the material was sent of the failure with instructions to recall the failed lot of material which was supplied to any PennDOT projects.
3. Supply PennDOT with a project list and the accompanying documentation (Form CS-4171 Certificate of Compliance or bill of lading) for any of the failed material that was delivered to PennDOT projects by the facility.
4. Submit an action plan to the Department within 30 days of notification to demonstrate how material and processes are to be controlled in the future to ensure material consistently meets PennDOT specification requirements.

Bulletin 15 Removal Actions

A manufacturer and/or product(s) may be removed from Bulletin 15 for any of the following reasons:

- Any action or inaction that may affect the quality of the product, the integrity of the test results, or the implementation of the Quality Control plan.
- Failure of the product to meet appropriate specifications.
- Failure to submit or adhere to a Quality Control Plan.
- Falsification of information provided on the Certificate of Compliance Form CS-4171, CS4171B, CS-4171C, CS-4171F or CS4171LA.
- Failure to supply samples, test results, or other information requested by the Department.
- Failure to notify the Bulletins Administrator at (717) 783-9673 within ten (10) days of any change in company contact information (name, address, or phone number) or change in product information (name, formula, quality control plan, or manufacturing process).
- Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
- Commission of fraud or a criminal offense or other improper conduct or knowledge or approval of, or acquiescence in these activities by an affiliate, officer, employee or other individual or entity associated with either obtaining, attempting to obtain or performing a public contract or subcontract. Acceptance of the benefits derived from the conduct shall be deemed evidence of knowledge, approval or acquiescence.
- Violation of Federal or State antitrust statutes.
- Violation of a State or Federal law regulating campaign contributions.
- Violation of a State or Federal environmental law.
- Violation of a State or Federal law regulating hours of labor, minimum wage standards or prevailing wage standards; discrimination in wages; or child labor violations.
- Violation of the Workers' Compensation Act (77 P. S. § § 1-2626).
- Violation of a State or Federal law prohibiting discrimination in employment.
- Suspension or debarment by the Commonwealth or an agency thereof or an agency of another state or by an agency or department of the Federal

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government.

- Three or more occurrences of being declared ineligible for a contract.
- Unsatisfactory performance including failure to comply with the terms of a Commonwealth contract or subcontract including:
 - Willful failure to perform in accordance with the terms of one or more contracts, or a history of failure to perform, or of unsatisfactory performance of one or more contracts.
 - Failure to complete the work in the time frame specified in the contract.
 - Being declared in default on prior work or project.
 - Failure to submit documents, information or forms as required by contract.
 - Making false statements or failing to provide information or otherwise to cooperate with the contracting agency, the Office of State Inspector General or other Commonwealth authorities.
 - Discrimination in violation of laws or regulations in the conduct of business.
- Providing false or misleading information to the Office of State Inspector General, Office of the Budget, the Department of the Auditor General, the Office of Attorney General, the Treasury Department, the Board of Claims, or other tribunal or court, the Department, or a representative of an agency as part of any investigation, audit, program review, certification, contract bids or proposals, applications or claims for payment. This information includes:
 - Financial statements.
 - Nondiscrimination forms.
 - Affidavits or statements of compliance with prevailing wage statutes.
 - Product descriptive literature and documents submitted in connection with claims for payment made or litigation against Commonwealth agencies.
- Other acts or omissions indicating a lack of skill, ability, capacity, quality control, business integrity or business honesty.



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Section Updates: How to Notify PennDOT of a Company or Product Name Change

Product Name Change Notification

For consideration by the Pennsylvania Department of Transportation, email the following information to RA-pdBulletin15@pa.gov

- ` 1. Manufacturer's Name
- ` 2. Bulletin 15 Supplier Code
- ` 3. Old Product Name
- ` 4. New Product Name
- ` 5. Effective Date
- ` 6. Statement certifying that it is the same product with the same formulation, performance, limitations, and is manufactured at the same facility.
- ` 7. A statement certifying that you are the authorized representative.
- ` 8. Please attach updated Product Data Sheets to the email message.
- ` 9. Include your name, email address, and phone number.
- ` 10. Include postal mailing addresses for both corporate and manufacturing facilities if different.

Product Removal Notification



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Section Updates: How to Notify PennDOT of a Company or Product Name Change

Product Removal Notification

To notify the Pennsylvania Department of Transportation that a product is no longer being manufactured, please email the following information to RA-pdBulletin15@pa.gov

- ` 1. Manufacturer's Name
- ` 2. Product Name
- ` 3. Bulletin 15 Supplier Code
- ` 4. Effective Date
- ` 5. Is the product sold to distributors and is there a remaining supply?
- ` 6. A statement certifying that you are an authorized representative of the product.
- ` 7. Include your name, email address, and phone number.

Company Name Change Notification

For consideration by the Pennsylvania Department of Transportation, email the following information to RA-pdBulletin15@pa.gov

- ` 1. Company Name to Be Updated
- ` 2. New Company Name
- ` 3. Bulletin 15 Supplier Code(s)
- ` 4. Effective Date
- ` 5. Statement certifying that the products are materially the same, with the same formula, performance, limitations, and manufactured at the same physical location.
- ` 6. Statement that key personnel have been retained under the new company name.
- ` 7. Include your printed name, date, signature, email address, phone number, mailing addresses for both corporate office and manufacturing facility if separate locations.



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Section 106.02: Project-Specific Locally Approved Materials

106.02 Project-Specific Locally Approved Materials

In accordance with Publication 408, Section 106.02 (a) 2.c, the following Pub 408 Sections contain construction materials that are defined as Project-Specific, Locally Approved Materials.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application (CS-4170) for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to the corresponding Pub 408 Sections for specification and documentation requirements.

- * Section 420.2(d): Asphalt Edge Restraints
- * Section 659.2(c): Aggregate Surface Topping for HFST
- * Section 802: Topsoil Furnished and Placed
- * Section 806.2(a, b): Temporary & Permanent Rolled Erosion Control Products (RECPs)
- * Section 860.2(a): Inlet Filter Bag
- * Section 867: Compost Filter Sock
- * Section 868: Compost Blanket and Compost Filter Berm



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Section 218: Foamed Glass Aggregate

218.2(a) Foamed Glass Aggregate

Last Revised: 3/29/2024

Requirements: [Foam Glass Aggregate Specification](#)

Product	Name	Ref. No.
AERO1 15 Aero Aggregates LLC, 1500 Chester Pike, Eddystone, PA 19022 https://aeroaggregates.com/		
Foamed Glass Aggregate (FGA) TDS: AeroAggregates FG-G15 Technical Data Sheet	AeroAggregates FG-G15	2017-048



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Section 219: Geofoam Lightweight Fill

219.2(a) Expanded Polystyrene (EPS) Geofoam Blocks

Last Revised: 3/23/2017

Product	Name	Ref. No.
POLMD 15 Poly Molding LLC, 96 Fourth Avenue, Haskell, NJ 07420 http://polymoldingllc.com/		
EPS Geofoam Block - Type 1 (EPS22)	EPS22	2015-155Q
EPS Geofoam Block - Type 2 (EPS39)	EPS39	2015-155Q



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Section 220: Flowable Backfill

220.2(i) Air Entraining Admixtures

Last Revised: 8/4/2022

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
CELLC 15 Plant	Forta Concrete Fiber, 100 Forta Drive, Grove City, PA 16127 5902 McIntyre Street Golden, CO 80403				
	Air Entraining Admixture For Flowable Fill [AEA]	Forta GoldenAir			2002-139Q
EUCLD 15	Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799				
	Air Entraining Admixture For Flowable Fill [AEA]	Eucon Easy Fill			2015-056Q
FRITZ 15	Fritz-Pak Corporation, 4821 Eastover Circle, Mesquite, TX 75149				
	Air Entraining Admixture For Flowable Fill [AEA]	Sika Lightcrete Powder			2013-205Q
GRAC2 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 North Bergen, NJ <i>Formerly: W. R. Grace and Company</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	Darafill			1997-148
MBS-0 15 Facility	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 23700 Chagrin Blvd. Cleveland, OH 44122 <i>Formerly BASF Construction Chemicals (BAS-0 15)</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	MasterCell 25 (Rheocell/Rheofill)	As required by testing	CADD-2015-01-120	1999-132Q
MBS-5 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 7100 Wright Rd. Houston, TX 77041 <i>Formerly BASF Construction Chemicals (BAS-5 15)</i>				
	Air Entraining Admixture For Flowable Fill [AEA]	MasterCell 30 (Rheocell 30)	As required by testing		2006-024Q



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Section 413: Superpave Mixture Design

413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 3/13/2024

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

For contracts bid prior to April 10, 2020, this Section was formerly 411.2(g)

	Product	Name	NTPEP Test Number	Ref. No.
ASTIN 15	Astec Industries, Inc., P.O. Box 72787, Chattanooga, TN 37407 http://www.astecindustries.com/			
	Mechanical Foaming Equipment/Process	Astec Warm Mix System / Double Barrel Green / GreenPac System		----
CECA 15	CECA, Subsidiary of Arkema, 89 Boulevard National, La Garenne-Colombes, France 92257			
	Chemical Additive	Cecabase RT 945		2011-153
CIS01 15	Cargill Industrial Specialties, 12201 South Torrence Avenue, Chicago, IL 60617 http://www.cargill.com/bioindustrial			
	Chemical Additive with Anti-Strip Additives	Anova 1501	WMA-2022-02-004	2018-014Q
	<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (11/30/2018 to 11/30/2020). As a result of COVID-19 restrictions, this provisional approval has been extended until 10/1/2023.</i>			
EASIN 15	Eastern Industries, Inc., 4401 Camp Meeting Rd., Ste 200, Center Valley, PA 18034 http://www.eastern-ind.com/			
	Mechanical Foaming Equipment/Process	SMART-FOAM System		2011-207Q
GENID 15	Gencor Industries, Inc., 5201 N. Orange Blossom Trail, Orlando, FL 32810 http://www.gencor.com/			
	Mechanical Foaming Equipment/Process	Green Machine UltraFoam GX2 Process		----
MAXEQ 15	Maxam Equipment, Inc., 1575 Universal Ave., Kansas City, MO 64120 http://maxamequipment.com/Products.htm			
	Mechanical Foaming Equipment/Process	AQUABlack Solutions WMA System		----
MCCTE 15	McConnaughay Technologies, 1911 Lorings Crossing, Cortland, NY 13045 http://www.mcconnaughay.com/			
	Foaming Additive/Process	Low Emission Asphalt (LEA)		----



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Section 413: Superpave Mixture Design

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Last Revised: 3/13/2024

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

For contracts bid prior to April 10, 2020, this Section was formerly 411.2(g)

Product	Name	NTPEP Test Number	Ref. No.
MEAWE 15 Ingevity, 5255 Virginia Avenue, North Charleston, SC 29406-3615 http://www.ingevity.com			
Formerly WestRock/MeadWestvaco Corporation			
Chemical Additive	Evotherm DAT		----
Chemical Additive with Anti-Strip Additives	Evotherm J1	WMA-2021-02-001	2017-059Q
Chemical Additive with Anti-Strip Additives	Evotherm J88		2023-062Q
<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (7/3/2023 to 7/3/2025).</i>			
Chemical Additive with Anti-Strip Additives	Evotherm M1	WMA-2019-01-006	----
Chemical Additive with Anti-Strip Additives	Evotherm M18	WMA-2019-01-006	2018-035Q
<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (1/6/2021 to 1/6/2023). Extended to 10/1/2023.</i>			
Chemical Additive with Anti-Strip Additives	Evotherm M80		2023-029Q
<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (6/23/2023 to 6/23/2025).</i>			
Chemical Additive with Anti-Strip Additives	Evotherm P25	WMA-2019-01-007	2017-061Q
Chemical Additive with Anti-Strip Additives	Evotherm S30		2023-218Q
<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (2/1/2024 to 2/1/2026).</i>			
Chemical Additive with Anti-Strip Additives	Evotherm U3		2017-060Q
<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (5/9/2017 to 5/9/2019). Extended to 10/1/2023.</i>			
MEEEQ 15 Meeker Equipment Company, Inc., P.O. Box 925, Louisville, KY 19446-0661 http://www.meekerequipment.com/			
Mechanical Foaming Equipment/Process	Warm Mix System		----



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Posted:
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Section 413: Superpave Mixture Design

413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 3/13/2024

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

For contracts bid prior to April 10, 2020, this Section was formerly 411.2(g)

Product	Name	NTPEP Test Number	Ref. No.
NOUR1 15 Nouryon Chemicals LLC, 100 Matsonford Road, Building 5, Suite 550, Radnor, PA 19087 Plant 8005 N Tabler Road Morris, IL 60450 <i>Formerly AkzoNobel Surface Chemistry, LLC (AKZO1 15)</i>		https://www.nouryon.com/markets/asphalt/	
Chemical Additive with Anti-Strip Additives	Rediset LQ-1102C	WMA-2016-01-003	2017-072Q
PQCOR 15 PQ Corporation, Valley Forge, P.O. Box 840, Valley Forge, PA 19482		http://pqcorp.com/	
Foaming Additive/Process	Advera WMA		----
RAP-1 15 Reliable Asphalt Products, Inc., 521 Old Seven Mile Pike, Shelbyville, KY 40065		http://www.reliableasphalt.com/	
Mechanical Foaming Equipment/Process	Reliable Asphalt Warm Mix System		2018-198Q
<i>Provisionally Approved: Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (9/19/2018 to 9/19/2020). Extended to 10/1/2023.</i>			
ROAD1 15 Arkema-Road Science, 6502 South Yale Avenue, Tulsa, OK 74136 Facility Vanceboro, NC <i>Formerly Road Science, Division of ArrMaz</i>		https://specialtysurfactants.arkema.com/en/	
Chemical Additive with Anti-Strip Additives	WarmGrip ULTRA 1 (AD-here ULTRA 1)	WMA-2020-01-001	2017-134Q
Chemical Additive with Anti-Strip Additives	WarmGrip ULTRA 2C (AD-here ULTRA 2C)	WMA-2022-01-002	2017-133Q
SASW- 15 Sasol Wax North America Corporation, 102 Cutting Blvd., Richmond, CA 94804		http://www.sasolwax.us.com/	
Organic Additive	Sasobit		----



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Section 413: Superpave Mixture Design

413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 3/13/2024

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

For contracts bid prior to April 10, 2020, this Section was formerly 411.2(g)

Product	Name	NTPEP Test Number	Ref. No.
SONNE 15 Sonneborn Specialty Products, HF Sinclair, 100 Sonneborn Lane, Petrolia, PA 16050 https://www.sonneborn.com/en-us/			
Organic Additive	SonneWarmix RT		2016-015
Organic Additive with Anti-Strip Additives	Sonnegreen AS		2016-005Q
Organic Additive with Anti-Strip Additives	Sonnegreen AS IV		2017-164
<i>Provisional Approval: When this WMA Technology is used, the manufacturer is required to notify the PennDOT Laboratory Testing Section at (717) 346-1548. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (2/13/2019 to 2/13/2021). Extended to 10/1/2023.</i>			
STAAS 15 Stansteel Asphalt Plant Products, 12700 Shelbyville Road, Louisville, KY 40243 http://www.stansteel.com/			
Mechanical Foaming Equipment/Process	Accu-Sheer Warm Mix Asphalt System		----
TERRO 15 Terex Roadbuilding, P.O. Box 1985, Oklahoma City, OK 73101-1985 http://www.terex.com/			
Mechanical Foaming Equipment/Process	Warm Mix Asphalt System		----



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Section 413: Superpave Mixture Design

413.2(f) WMA Technologies (Additive(s), Modifier(s), or Processes)

Last Revised: 3/13/2024

For WMA Technologies that can be blended at a refinery or terminal and supplied by an asphalt (Performance Graded Asphalt Binder Supplier), the asphalt supplier must complete an online Product Evaluation Application for each grade and WMA Technology to be evaluated for potential approval. Approved WMA asphalt material suppliers are listed in Section 702d Asphalt Cement.

For contracts bid prior to April 10, 2020, this Section was formerly 411.2(g)

Product	Name	NTPEP Test Number	Ref. No.
ZYDEXA15 Zydex Industries, Zydex House, 61 Gotri-Sevasi Road, Sevasi, Vadodara, India 391101 https://zydexgroup.com/bitumen-additive/			
Facility 106 Kitty Hawk Dr. Morrisville, NC 27560			
Chemical Additive with Anti-Strip Additives	ZycoTherm SP	WMA-2021-02-002	2018-073Q
<i>Provisional Approval: When this WMA Technology is used, the manufacturer is required to notify the PennDOT Laboratory Testing Section at (717) 346-1548. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (2/15/2019 to 2/15/2021). Extended to 10/1/2023.</i>			
Chemical Additive with Anti-Strip Additives	ZycoTherm SP2	WMA-2022-02-001	2022-267Q
<i>Provisional Approval: When this WMA Technology is used, the manufacturer is required to notify the PennDOT Laboratory Testing Section at (717) 346-1548. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 WMA Producer. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (8/25/2023 to 8/25/2025).</i>			

413.2(k) Aramid Fibers

Last Revised: 7/28/2022

The use of this product will be in accordance with Standard Special Provision cc00057 ITEM 9000 - _____ - Fiber Modified _____ Course, PG _____, _____ Million ESALS [Standard Special Provision c00075 Fiber Modified](#)

For contracts bid prior to April 10, 2020, this Section was formerly 409.2(g) per SSP #I-c00045
ITEM 9000 - HMA FIBER MODIFIED COURSE

Product	Name	Ref. No.
FORTA 15 Forta Corporation, 100 Forta Drive, Grove City, PA 16127 http://www.forta-fi.com/		
Aramid Fiber Blend	FORTA-FI	2016-071Q
Aramid Fiber Blend	FORTA-FI for HMA	2011-021A



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Section 413: Superpave Mixture Design

413.2(k) Aramid Fibers

Last Revised: 7/28/2022

The use of this product will be in accordance with Standard Special Provision cc00057 ITEM 9000 - _____ - Fiber Modified _____ Course, PG _____, _____ Million ESALS [Standard Special Provision c00075 Fiber Modified](#)

For contracts bid prior to April 10, 2020, this Section was formerly 409.2(g) per SSP #I-c00045
ITEM 9000 - HMA FIBER MODIFIED COURSE

Product	Name	Ref. No.
SURF1 15 Plant Surface Tech LLC, 111 SW 5th Ave., Suite 1940, Portland, OR 97204 http://www.surface-tech.com/ Shelton, CT	Aramid Fiber Blend <i>Contact PennDOT's New Products & Innovations Section at (717) 787-3137 before using on a project. Notification shall include the following information: ECMS Project No., State Route, County, and Bulletin 41 Producer.</i>	ACE Fiber 2016-175Q



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Section 419: Stone Matrix Asphalt Mixture

419.2(d)2 Cellulose Fiber Stabilizer

Any brand of cellulose fiber that prevents mixture draindown may be used in SMA mixes.

419.2(d)5 Crumb Rubber Stabilizer

Last Revised: 7/6/2015

	Product	Name	Ref. No.
LIB-1 15	Liberty Tire Recycling, LLC, 490 Ohio Street, Lockport, NY 14094	http://libertytire.com/Home.aspx	
	Crumb Rubber (CR)	TR 20 Minus	2013-099Q
	Crumb Rubber (CR)	WTG 20	2013-098Q
LIB-2 15	Liberty Tire Recycling, LLC, 100 Talbot Avenue, Braddock, PA 15104	http://libertytire.com/Home.aspx	
	Crumb Rubber (CR)	20 WMA	2013-097Q
MAHAN 15	Mahantango Enterprises, Inc., Rr #2, P. O. Box 680, Liverpool, PA 17045	http://www.mahantango.com/	
	Crumb Rubber (CR)	MAH-1A	1994-031
NRIND 15 Plant	Edge Rubber, 1711 Opportunity Avenue, Chambersburg, PA 17201 811 Progress Road Chambersburg, PA 17201 <i>Formerly NRI Industries</i>	http://www.edgerubber.com	
	Crumb Rubber (CR)		----
SPART 15	Sparton Enterprises, Inc., 3717 Clark Mill Rd., Barberton, OH 44203	http://spartonenterprises.com/	
	Crumb Rubber (CR)	58702 Ground Rubber	1991-072



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Section 420: Pervious Asphalt Pavement System

420.2(d) Asphalt Edge Restraints

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of the material(s) in

Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 420.2(d) for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Section 466: Asphalt Paving Fabric

466.2(a) Geotextile Paving Fabric

Last Revised: 1/18/2024

Paving Fabrics (AASHTO M 288) are saturated during installation with asphalt cement for use between pavement layers. Paving fabrics and grids act as a stress relieving membrane within the pavement structure and are intended for full width applications.

For placing Heavy Duty Membranes over transverse and longitudinal joints and random cracks in existing concrete pavements, see Section 467.

Product	Name	NTPEP Test Number	Ref. No.
ADFORS15	Saint-Gobain ADFORS, 1795 Baseline Road, Grand Island, NY 14303	http://www.adfors.com/us/road-reinforcement	
Plant	14770 East Avenue Albion, NY 14411		
	Fiberglass Reinforced Paving Grid	GlasGrid 8511 Asphalt Reinforcement System	2014-122
	<i>Conditionally approved per manufacturer's specifications: GlasGrid 8511 Manufacturer's Specifications</i>		
CART1 15	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242	https://carthagemills.com/	
Plant	Athens, GA/Gujarat, India		
	Geotextile Paving Fabric, Type II	FX-42A/O (GC140)	GTX-2021-01-252
			2022-017PL
CART2 15	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242	https://carthagemills.com/	
Plant	Hazlehurst, GA, Ringgold, GA		
	Geotextile Paving Fabric, Type II	FX-42A/O (PETROMAT Plus-White 4598W)	GTX-2021-01-252
			2022-065Q
CART3 15	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242	https://carthagemills.com/	
Plant	Pendergrass, GA/Athens, GA, Ahmedabad, India		
	Geotextile Paving Fabric, Type II	FX-42A/O (Mirafi MPV500)	GTX-2021-01-252
			2022-018PL
PROP2 15	SOLMAX, 428 Rollins Industrial Blvd., Ringgold, GA 30736	https://www.solmax.com/en/ams	
	Formerly Propex Operating Company		
	Geotextile Paving Fabric, Type II	Petromat 4597	GTX-2019-01-085
			2011-181Q
	Geotextile Paving Fabric, Type II	Petromat 4598	GTX-2019-01-086
			2020-065Q
	Geotextile Paving Fabric, Type II	Petromat Enviro	GTX-2021-01-060
			2020-230Q
	Geotextile Paving Fabric, Type II	Petromat Plus-White 4598W	2020-066Q



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Section 466: Asphalt Paving Fabric

466.2(a) Geotextile Paving Fabric

Last Revised: 1/18/2024

Paving Fabrics (AASHTO M 288) are saturated during installation with asphalt cement for use between pavement layers. Paving fabrics and grids act as a stress relieving membrane within the pavement structure and are intended for full width applications.

For placing Heavy Duty Membranes over transverse and longitudinal joints and random cracks in existing concrete pavements, see Section 467.

Product	Name	NTPEP Test Number	Ref. No.
SKA-2 15 Plant	SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 335 Athena Drive Athens, GA 30601 Geotextile Paving Fabric, Type II	GC140	2021-070Q
http://www.skaps.com/			
TCGEO 15 Plant	SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 Pendergrass, GA & Cornelia, GA <i>Formerly TenCate Geosynthetics</i>	Mirafi PGM-G4 Mirafi MPV500 Petromat MPV600 (Mirafi MPV600)	2015-133 2021-069Q 2012-183
https://www.solmax.com/en/ams/products/mirafi			
<i>Conditionally approved per manufacturer's specifications: TenCate Mirafi PGM-G4 Manufacturer's Specifications</i>			
<i>(Pendergrass, GA)</i>			



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Section 467: Heavy Duty Membranes

467.2(a) Heavy Duty Membranes

Last Revised: 1/18/2024

Heavy Duty Membranes are placed over transverse and longitudinal joints and random cracks in existing concrete pavements before placing the pavement overlay. Heavy Duty Membranes are not intended for full width applications and are not evaluated against AASHTO M 288 paving fabric requirements. For AASHTO M 288 paving fabrics, see Section 466.2(a) Geotextile Paving Fabric.

Heavy Duty Membranes listed in Section 467.2(a) are conditionally approved per the manufacturer's specifications. It is the responsibility of the District to verify whether a conditionally approved product meets the project requirements on a case-by-case basis.

Product	Name	Letter Date	Membrane Width	Ref. No.
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 121 Industrial Park Road Halls, TN 38040	http://www.crafco.com/		
Heavy Duty Membrane	PavePrep	9/15/1986	12", 18", 20", 24", 36", and 48"	----
<i>As of 6/3/2022, this product is no longer being manufactured. Conditionally approved per manufacturer's specifications. PDS - Crafco Paveprep Product Data Sheet</i>				
Heavy Duty Membrane Alternate	GeoTac	7/5/2000	12", 18", 24", 36", and 48"	2000-139Q
<i>As of 6/3/2022, this product is no longer being manufactured. Conditionally approved per manufacturer's specifications. See Section 680.2(b) Adhesive-backed Preformed Membrane Sheet for primary use on non-bridge decks and bridge decks. PDS - Crafco GeoTac Product Data Sheet</i>				
POLYG 15	Polyguard Products, Inc., PO Box 755, Ennis, TX 75120-0755	http://www.polyguardproducts.com/		
Heavy Duty Membrane Alternate	Polyguard NW75 Membrane		Standard 12", 24", and 48"; Custom 18" and 36"	2022-057Q
<i>Conditionally approved to manufacturer's specifications. PDS - Polyguard NW-75 Product Data Sheet</i>				
PROP1 15	SOLMAX, 4019 Industrial Drive, Chattanooga, TN 37416 Formerly Propex Operating Company	https://www.solmax.com/en/ams		
Heavy Duty Membrane Alternate	Petromat Petrotac 4591	9/15/1986	12", 18", 24", and 36"	1980-099
<i>Conditionally approved to manufacturer's specifications. See Section 680.2(b) Adhesive-backed Preformed Membrane Sheet for primary use on non-bridge decks and bridge decks. PDS - Propex Petrotac 4591 Product Data Sheet</i>				



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Section 470: Asphalt Seal Coat

470.2 Asphalt Seal Coat

Last Revised: 7/6/2017

Refer to Bulletin 15, Section 702 for sources of asphalt material specified in Publication 408, Section 470.2(a).

Refer to Bulletin 14 for sources of coarse aggregate specified in Publication 408, Section 470.2(b).

	Product	Name	Reference Letter	Ref. No.
TRI-3 15 Facility	All States Construction, LLC, 325 Amherst Road, P.O. Box 91, Sunderland, MA 01375 901 River Road Deerfield, MA 01342 <i>Formerly All States Asphalt, LLC</i>		http://www.asmg.com	
	CRMB for Rubberized Asphalt Seal Coat (RASC)		2/12/2010	-----
	<i>Conditional approval per: Rubberized Asphalt Seal Coat, SRL-H Conditional Specification</i>			



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Section 501: Reinforced or Plain Cement Concrete Pavements

501.2(p) Anchor Material

Last Revised: 11/3/2023

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position.

External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

For Pub 408, 2016 Change No. 7 and earlier (Oct. 4, 2019), anchor material was listed in Section 516.2(k). Anchor material was moved to Section 501.2(p) in Pub 408, 2020 Initial Edition (April 10, 2020).

Product	Name	Ref. No.
ADHTC 15 Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301 http://www.atcepoxy.com/		
Facility	Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064	
Dowel Bar Adhesive	ULTRABOND 1300	1992-013B
Dowel Bar Adhesive	ULTRABOND ASF-1000	2016-242Q
Dowel Bar Adhesive	ULTRABOND ASF-2000	2023-115Q
Dowel Bar Adhesive	ULTRABOND HS-1CC	2018-040Q
Dowel Bar Adhesive	ULTRABOND HS-200	2002-048Q
CCMAT 15 Cornerstone Construction Material, LLC, PO Box 545, 150 SE Hamblen Road, Lee's Summit, MO 64063 http://ccmaterial.com		
Facility	101 East Walnut Street Archie, MO 64725	
Dowel Bar Adhesive	CE308 Epoxy Anchoring Gel	2017-236Q
DAYT0 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/		
Dowel Bar Adhesive	ProAnchor Elite	2023-088Q
	<i>Epoxy gel anchor - NTPEP ERB-2020-01-009</i>	
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Dowel Bar Adhesive	Dural 452 Gel	2003-098Q
Dowel Bar Adhesive	Dural Fast Set Epoxy Gel	1999-184Q
ITW-R 15 ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/		
Dowel Bar Adhesive	Red Head C6+	2017-289Q



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Section 501: Reinforced or Plain Cement Concrete Pavements

501.2(p) Anchor Material

Last Revised: 11/3/2023

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position.

External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

For Pub 408, 2016 Change No. 7 and earlier (Oct. 4, 2019), anchor material was listed in Section 516.2(k). Anchor material was moved to Section 501.2(p) in Pub 408, 2020 Initial Edition (April 10, 2020).

Product	Name	Ref. No.
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Dowel Bar Adhesive	SurePoxy 116	1992-169
Dowel Bar Adhesive	SurePoxy 117	1990-371
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Dowel Bar Adhesive	Rezi-Weld Gel Paste (Construction Epoxy)	1993-280Q
MKTFS 15 MKT Fastening, LLC, 1 Gunnebo Drive, Lonoke, AR 72086 http://www.mktfastening.com/		
Dowel Bar Adhesive	Liquid Roc 300 Polyester Twin Tube	1994-199
PLYGM 15 Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/		
Dowel Bar Adhesive	#1257 Epoxy Anchoring Adhesive	1993-270
SIKA1 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 1682 Marion Williamsport Road E Marion, OH 43302		
Dowel Bar Adhesive	Sikadur Injection Gel	1989-236
UNITX 15 Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
Dowel Bar Adhesive	Pro-Poxy 300 Fast	1996-004

501.2(r) Prefomed Cellular Polystyrene (ASTM C578)

See Section 516.2(m) for listing of approved prefomed cellular polystyrene products per ASTM C578.



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Section 501: Reinforced or Plain Cement Concrete Pavements

501.2(s) Fiberglass Dowel Sleeve

Last Revised: 2/28/2023

Product	Name	Ref. No.
BEDRP 15 Bedford Reinforced Plastics, 264 Reynoldsdale Road, Bedford, PA 15522 http://bedfordreinforced.com/ Dowel Bar Sleeve, Reinforced Plastic		1997-151
CPULT 15 Creative Pultrusions, Creative Composites Group, 214 Industrial Lane, P.O. Box 6, Alum Bank, PA 15521-0006 https://www.creativecompositesgroup.com/about/creative-pultrusions Dowel Bar Sleeve, Reinforced Plastic	Pultex 1500 (Fiberglass reinforced, Isophalic Polyester)	1992-199
STRFG 15 Structural Fiberglass, Inc., 4766 Business Route 220 North, PO Box 615-T, Bedford, PA 15522 http://www.structuralfiberglass.com/ Dowel Bar Sleeve, Reinforced Plastic		1997-150



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Section 503: Protective Coating for Cement Concrete Pavement

503.2(a) Penetrating Sealer

Last Revised: 4/8/2024

Effective for contracts let on or after April 1, 2022 (Pub 408/2020 Change No. 4 and later).

Product	Name	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Penetrating Sealer (Concrete Pavement), Water-based Siloxane/Silane	Barcade WB 244	1999-185Q
MBS-4 15 Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us Plant 6450 Bristol Pike Levittown, PA 19057 <i>Formerly Master Builders Solutions</i>		
Penetrating Sealer (Concrete Pavement), Oregano-Silicon in Water	Sikagard-400 Enviroseal (Formerly MasterProtect H 400)	1987-129Q
MBS10 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us/ Plant 23930 Concord Avenue Mattawan, MI 49071 <i>Formerly Master Builders Solutions US LLC</i>		
Penetrating Sealer (Concrete Pavement), Oregano-Silicon in Water	Sikagard-H 1000 (formerly MasterProtect H 1000)	2011-227Q

503.2 Boiled Linseed Oil (AASHTO M233)

Last Revised: 11/3/2022

The Boiled Linseed Oil based products listed in Section 503.2 as a protective coating for cement concrete pavement are only approved for contracts let on or before April 1, 2022 (Pub 408/2020 Change No. 3 and earlier). See Section 1019.2(a) for listing of approved Boiled Linseed Oil products for uses on bridges, arches, culverts, and concrete structures.

For contracts let on or after April 1, 2022, see Section 503.2(a) for approved penetrating sealers for use as protective coating for cement concrete pavement.

Product	Name	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/		
Boiled Linseed Oil (AASHTO M233)	Anti-Spall 55	2004-149Q



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Section 503: Protective Coating for Cement Concrete Pavement

503.2 Boiled Linseed Oil (AASHTO M233)

Last Revised: 11/3/2022

The Boiled Linseed Oil based products listed in Section 503.2 as a protective coating for cement concrete pavement are only approved for contracts let on or before April 1, 2022 (Pub 408/2020 Change No. 3 and earlier). See Section 1019.2(a) for listing of approved Boiled Linseed Oil products for uses on bridges, arches, culverts, and concrete structures.

For contracts let on or after April 1, 2022, see Section 503.2(a) for approved penetrating sealers for use as protective coating for cement concrete pavement.

Product	Name	Ref. No.
CRAF6 15 Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafco.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Supplier code formerly RTPTC 15</i>	Boiled Linseed Oil (AASHTO M233)	Anti-Spall 50/50
		2017-131Q
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/	Boiled Linseed Oil (AASHTO M233)	Anti-Spall J33
		1990-147
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/	Boiled Linseed Oil (AASHTO M233)	Euco Linseed Oil Treatment

MEDW1 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Plant 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550	Boiled Linseed Oil (AASHTO M233)	Sealtight Lin-Seal
		1992-265
PRUET 15 Pruett-Schaffer Chemical Company, 3327 Stafford Street, Pittsburgh, PA 15204 http://www.pruett-schaffer.com/	Boiled Linseed Oil (AASHTO M233)	Anti-Spalling Compound
		1997-080
RTPTC 15 Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Formerly RIGHT/POINTE, LLC</i>	Boiled Linseed Oil (AASHTO M233)	Anti-Spall 50/50
		2017-131Q



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Section 503: Protective Coating for Cement Concrete Pavement

503.2 Boiled Linseed Oil (AASHTO M233)

Last Revised: 11/3/2022

The Boiled Linseed Oil based products listed in Section 503.2 as a protective coating for cement concrete pavement are only approved for contracts let on or before April 1, 2022 (Pub 408/2020 Change No. 3 and earlier). See Section 1019.2(a) for listing of approved Boiled Linseed Oil products for uses on bridges, arches, culverts, and concrete structures.

For contracts let on or after April 1, 2022, see Section 503.2(a) for approved penetrating sealers for use as protective coating for cement concrete pavement.

Product	Name	Ref. No.
VEXCN 15 ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 Plant 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i>	https://www.chemmasters.net/	
Boiled Linseed Oil (AASHTO M233)	Certi-Vex Linseed Anti-Spall	2000-066Q
WKTEK 15 Wicktek, Inc., 103 General Braddock Drive, Braddock, PA 15104	http://wicktek.com/	
Boiled Linseed Oil (AASHTO M233)	DensiCrete	1995-049



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Section 516: Concrete Pavement Patching

516.2 Concrete Pavement Patching

Last Revised: 9/27/2017

Refer to Publication 408, Section 516.2 for the various materials comprising concrete pavement patching.

The product listing below is conditionally approved as an alternate system to Concrete Pavement Patching as specified in Publication 408, Section 516.2.

Product	Name	Ref. No.
FTML1 15 Fort Miller Company, Inc., P.O. Box 98, Schuylerville, NY 12871-0098 http://www.fortmiller.com/		
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement System (PCPS)	2009-124
<i>Full Depth Concrete Pavement Repair, Precast: Item 9516-2034 - 10" Depth and Item 9516-3036 - 12" Depth</i> <i>Conditionally approved as an alternate Type A patch per Fort Miller Company's specifications. Fort Miller Company is a licensor, fabricator, and trademark owner of Super-Slab.</i>		

NORPR 15 Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/		
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement Panel Fabricator	2017-221
<i>Full Depth Concrete Pavement Repair, Precast: Item 9000-0516 - 13" Depth</i> <i>Conditionally approved as an alternate Type A patch per the Super-Slab licensor's (Fort Miller Company) specifications.</i>		

516.2(k) Anchor Material

Last Revised: 5/17/2023

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

Starting in Pub 408, 2020 Initial Edition (April 10, 2020), the Anchor Material section was moved to Section 501.2(p). Anchor material was listed in Section 516.2(k) up to and including Pub 408, 2016 Change No. 7 (October 4, 2019).

Product	Name	Ref. No.
ADHTC 15 Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301 http://www.atcepoxy.com/		
Facility Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064		
Dowel Bar Adhesive	ULTRABOND 1300	1992-013B
Dowel Bar Adhesive	ULTRABOND 365CC	2016-017Q



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Section 516: Concrete Pavement Patching

516.2(k) Anchor Material

Last Revised: 5/17/2023

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

Starting in Pub 408, 2020 Initial Edition (April 10, 2020), the Anchor Material section was moved to Section 501.2(p). Anchor material was listed in Section 516.2(k) up to and including Pub 408, 2016 Change No. 7 (October 4, 2019).

Product	Name	Ref. No.
ADHTC 15 Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301 http://www.atcepoxy.com/ Facility Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064		
Dowel Bar Adhesive	ULTRABOND ASF-1000	2016-242Q
Dowel Bar Adhesive	ULTRABOND HS-1CC	2018-040Q
Dowel Bar Adhesive	ULTRABOND HS-200	2002-048Q
CCMAT 15 Cornerstone Construction Material, LLC, PO Box 545, 150 SE Hamblen Road, Lee's Summit, MO 64063 http://ccmaterial.com Facility 101 East Walnut Street Archie, MO 64725		
Dowel Bar Adhesive	CE308 Epoxy Anchoring Gel	2017-236Q
DEWA1 15 DEWALT Anchors, 701 E. Joppa Road, Towson, MD 21286 Facility Willich, Germany		
Dowel Bar Adhesive	AC100+ Gold	2017-253Q
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Dowel Bar Adhesive	Dural 452 Gel	2003-098Q
Dowel Bar Adhesive	Dural Fast Set Epoxy Gel	1999-184Q
HILT- 15 Hilti, Inc., 5400 South 122nd East Ave., P.O. Box 21148, Tulsa, OK 74121 https://www.hilti.com/		
Dowel Bar Adhesive <i>ICC-ES Evaluation Report: ICC-ES Evaluation Report: ESR-3814 (Subject to renewal 1/2021)</i>	HIT-RE 500 Anchoring Epoxy	2001-100Q
Dowel Bar Adhesive	HVU Adhesive Capsule	2000-123Q



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Section 516: Concrete Pavement Patching

516.2(k) Anchor Material

Last Revised: 5/17/2023

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

Starting in Pub 408, 2020 Initial Edition (April 10, 2020), the Anchor Material section was moved to Section 501.2(p). Anchor material was listed in Section 516.2(k) up to and including Pub 408, 2016 Change No. 7 (October 4, 2019).

	Product	Name	Ref. No.
HILT1 15 Plant	Hilti, Inc., 7250 Dallas Parkway, Suite 1000, Plano, TX 75024 Kaufering, Germany	https://www.hilti.com/	
	Dowel Bar Adhesive	HIT-HY 10 PLUS Adhesive Anchor System	2014-106QA
	Dowel Bar Adhesive	HIT-HY 150 Injection Adhesive	1996-054
	Dowel Bar Adhesive	HIT-RE 100 Adhesive Anchor	2016-158
	Dowel Bar Adhesive	HIT-RE 500 V3 Adhesive Anchor System	2016-159
ITW-R 15	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025	http://www.itwredhead.com/	
	Dowel Bar Adhesive	Red Head C6+	2017-289Q
ITWRH 15 Plant	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 26501 Bourg Lès Valence Valence, France	http://www.itwredhead.com/	
	Dowel Bar Adhesive	Red Head A7+	2016-241
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131	http://www.kaufmanproducts.net/	
	Dowel Bar Adhesive	SurePoxy 116	1992-169
	Dowel Bar Adhesive	SurePoxy 117	1990-371
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338	http://www.wrmeadows.com/	
	Dowel Bar Adhesive	Rezi-Weld Gel Paste (Construction Epoxy)	1993-280
MKTFS 15	MKT Fastening, LLC, 1 Gunnebo Drive, Lonoke, AR 72086	http://www.mktfastening.com/	
	Dowel Bar Adhesive	Liquid Roc 300 Polyester Twin Tube	1994-199



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Section 516: Concrete Pavement Patching

516.2(k) Anchor Material

Last Revised: 5/17/2023

See [Standard Drawing RC-26M \(Publication 72M\)](#)

Note: Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load.

Starting in Pub 408, 2020 Initial Edition (April 10, 2020), the Anchor Material section was moved to Section 501.2(p). Anchor material was listed in Section 516.2(k) up to and including Pub 408, 2016 Change No. 7 (October 4, 2019).

Product	Name	Ref. No.
PLYGM 15 Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/		
Dowel Bar Adhesive	#1257 Epoxy Anchoring Adhesive	1993-270
SIKA0 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
Facility 201 Polito Avenue Lyndhurst, NJ 07071		
Dowel Bar Adhesive	Sikadur DOT SP 3/4 DBA (Epoxy as Injection Gel)	1989-236
Dowel Bar Adhesive	Sikadur Injection Gel	1989-236
SIKA1 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
Plant 1682 Marion Williamsport Road E Marion, OH 43302		
Dowel Bar Adhesive	Sikadur DOT SP 3/4 DBA (Epoxy as Injection Gel)	1989-236
Dowel Bar Adhesive	Sikadur Injection Gel	1989-236
SIMST 15 Simpson Strong-Tie, Inc., 136 Official Road, Addison, IL 60101 http://www.strongtie.com/		
Dowel Bar Adhesive (Formerly known as Acrylic-Tie)	AT-XP High-Strength Acrylic Adhesive	1999-223Q
UNITX 15 Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
Dowel Bar Adhesive	Pro-Poxy 300 Fast	1996-004
Dowel Bar Adhesive	Pro-Poxy 400	2001-228Q



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Section 516: Concrete Pavement Patching

516.2(m) Preformed Cellular Polystyrene (ASTM C578)

Last Revised: 9/14/2023

Product	Name	Ref. No.
DOW-3 15 DuPont, 1501 Larkin Center Drive, Midland, MI 48674 https://www.dupont.com/brands/styrofoam.html		
Preformed Cellular Polystyrene	DuPont High Performance Underlayment	1999-181Q
INSYA 15 Insulation Corporation of America, 2571 Mitchell Ave., Allentown, PA 18103 http://insulationcorp.com/		
Preformed Cellular Polystyrene	ICA-LITE EPS (ASTM C578 Types I, II, VIII, IX)	1992-167
OWENC 15 Owens Corning, One Owens Corning Parkway, Toledo, OH 43659 http://www.owenscorning.com/		
Preformed Cellular Polystyrene	Foamular 1000 (ASTM C578, Type V)	2002-005Q
Preformed Cellular Polystyrene	Foamular 150 (ASTM C578, Type X)	2002-005Q
Preformed Cellular Polystyrene	Foamular 250 (ASTM C578, Type IV)	2002-005Q
Preformed Cellular Polystyrene	Foamular 400 (ASTM C578, Type VI)	2002-005Q
Preformed Cellular Polystyrene	Foamular 600 (ASTM C578, Type VII)	2002-005Q



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Section 523: Ultra-Thin Portland Cement Concrete Overlay

523.2(a) Virgin Polypropylene Fibers

Last Revised: 3/15/2017

Product	Name	Ref. No.
FORTA 15 Forta Corporation, 100 Forta Drive, Grove City, PA 16127 http://www.forta-fi.com/ Virgin Polypropylene Fibers <i>http://www.forta-ferro.com/</i>	Forta Econo Net	2010-201Q



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Section 525: Concrete Pavement Partial-Depth Repair

525.2(c) Rapid-Set Concrete Patching Material

Last Revised: 6/8/2023

Product	Name	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799	http://www.euclidchemical.com/	
Cementitious Repair Mortar	Euco Repair SCC Fast	RSCP-2017-01-014	2019-036Q
<i>Cannot be used with aggregate extenders (See Precautions/Limitations section of Technical Data Sheet). Meets the requirements of R1, R2, and R3 material in ASTM C928.</i>			
PHOS1 15	Phoscrete Corporation, 792 Northeast 40th Court, Oakland Park, FL 33334	https://phoscrete.com/	
Plant	1755 North Butterfield Road Libertyville, IL 60048		
Magnesium, Phosphate Cement-Based Material	Phoscrete Formula 1-HC (Horizontal/Castable)	RSCP-2015-01-002	2017-104Q
<i>Cannot be used with aggregate extenders (See Limitations section of Technical Data Guide). Meets the requirements of R1 and R2 material in ASTM C928. Formerly known as Phoscrete HC.</i>			
SIKA1 15	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071	http://usa.sika.com/	
Plant	1682 Marion Williamsport Road E Marion, OH 43302		
Cementitious Repair Mortar	SikaQuick VOH	RSCP-2014-01-004	2018-026Q
<i>Cannot be used with aggregate extenders. Meets the requirements of R1 and R2 material in ASTM C928. For Section 525.2(c), SikaQuick VOH is only approved for use on horizontal surfaces.</i>			
Rapid-Setting Concrete	Sikacrete 421 CI Rapid	RSCP-2017-01-005	2019-084Q
<i>Cannot be used with aggregate extenders (Sikacrete 421 CI Rapid already includes aggregate and cannot be extended further). Meets the requirements of R1, R2, and R3 material in ASTM C928.</i>			
WMD-1 15	Western Material and Design, LLC, P.O. Box 268, Lee's Summit, MO 64063	https://wmdus.com/	
Plant	101 East Walnut Street Archie, MO 64725		
Rapid-Setting Concrete	FasTrac 246 Concrete	RSCP-2017-01-004	2018-197Q
<i>Cannot be used with aggregate extenders (FasTrac 246 Concrete already includes aggregate and cannot be extended further). Meets the requirements of R1 and R2 material in ASTM C928.</i>			

525.2(g) Preformed Cellular Polystyrene (ASTM C578)

See Section 516.2(m) for approved preformed cellular polystyrene products.



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Section 527: Dowel Retrofit

527.2(c) Preformed Cellular Polystyrene

527.2(d) Rapid Set Concrete Patching Material

See Section 525.2(c) for approved rapid set concrete patching material products.



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Section 529: Full Depth Individual Precast/Prestressed Concrete Pavement Slabs

529.2 Precast Concrete Pavement Slab

Last Revised: 2/25/2020

Product	Name	COA	Ref. No.
FTML1 15 Fort Miller Company, Inc., P.O. Box 98, Schuylerville, NY 12871-0098 http://www.fortmiller.com/			
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement System (PCPS)		2009-124
<i>Full Depth Concrete Pavement Repair, Precast: Item 9516-2034 - 10" Depth and Item 9516-3036 - 12" Depth</i> <i>Conditionally approved as an alternate Type A patch per Fort Miller Company's specifications. Fort Miller Company is a licensor, fabricator, and trademark owner of Super-Slab.</i>			
NORPR 15 Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/			
Precast Concrete Pavement Slab	Super-Slab Precast Concrete Pavement Panel Fabricator		2017-221
<i>Full Depth Concrete Pavement Repair, Precast: Item 9000-0516 - 13" Depth</i> <i>Conditionally approved as an alternate Type A patch per the Super-Slab licensor's (Fort Miller Company) specifications.</i>			



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Section 530: Long-Life Concrete Pavement (LLCP)

530.2(e)1.c Long-Life Dowel Bar

Last Revised: 4/13/2022

For contracts let on or after April 10, 2020 (Pub 408, 2020 Initial Edition), see Section 705.3(f) High Performance Dowel Bars.

Product	Name	Ref. No.
JAR-1 15 Plant	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://artazn.com/ 2500 Old Stage Road Greeneville, TN 37744	
Rolled Zinc Alloy Tubular Dowel Bar	LifeDowel, Type 2 (1.445" OD)	2016-164Q
<i>Outside diameter of the approved dowel bar with zinc sleeve is 1.445". Nonmetallic caps on the ends of the tube that do not exceed the outside diameter of the tube can be used.</i>		
Rolled Zinc Alloy Tubular Dowel Bar	LifeDowel, Type 2 (1.695" OD)	2016-164Q
<i>Outside diameter of the approved dowel bar with zinc sleeve is 1.695". Nonmetallic caps on the ends of the tube that do not exceed the outside diameter of the tube can be used.</i>		



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Section 548: Unbonded Concrete Overlay of Concrete-Surfaced Pavements

548.2(a) Non-Woven Geotextile Interlayer

Last Revised: 12/8/2021

Product	Name	NTPEP Test Number	Ref. No.
PROP2 15 SOLMAX, 428 Rollins Industrial Blvd., Ringgold, GA 30736 https://www.solmax.com/en/ams <i>Formerly Propex Operating Company</i> Non-Woven Geotextile Interlayer	GEOTEX 1341NH		2018-071Q
SKA-2 15 SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Plant 335 Athena Drive Athens, GA 30601 Non-Woven Geotextile Interlayer	GT116	GTX-2018-01-167	2021-086Q

548.2(d) Virgin Polypropylene Fibers

Last Revised: 4/11/2024

Product	Name	Ref. No.
FORTA 15 Forta Corporation, 100 Forta Drive, Grove City, PA 16127 http://www.forta-fi.com/ Virgin Polypropylene Fibers https://forta-ferro.com/	Forta Econo Net	2010-201Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 601: Pipe Culverts

601.2(a)3a Round and Elliptical Reinforced Concrete (RC) Pipe

Last Revised: 10/20/2023

Companies maintaining an American Concrete Pipe Association Q-Cast certification or NPCA Pipe certification do not require in-plant inspection for standard design concrete pipe (any diameter).

All special design pipe will receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which the Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterisk (**). Pipe produced by Q-Cast or NPCA certified companies will be stenciled or stamped with the respective logos.

Product	Name	Pipe Certification	Ref. No.
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501			
	RC Pipe (End Section)	NPCA	----
	RC Pipe (Round)	NPCA	----
HANS3 15 Rinker Materials, a QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 https://www.rinkerpipe.com/ Formerly Forterra			
	RC Pipe (Elliptical)	ACPA QCast	-
	RC Pipe (Round)	ACPA QCast	----
HYDR1 15 Rinker Pipe, a QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 https://www.rinkerpipe.com/ Plant 2000 Gregg Station Road Oakdale, PA 15071			
	RC Pipe (Elliptical)	ACPA QCast	----
	RC Pipe (End Section)	ACPA QCast	----
	RC Pipe (Round)	ACPA QCast	----
HYDR2 15 Rinker Materials, a QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 https://www.rinkerpipe.com/ Plant 800 Industrial Drive Middletown, DE 19709			
	RC Pipe (Elliptical)	ACPA QCast	----
	RC Pipe (End Section)	ACPA QCast	----
	RC Pipe (Round)	ACPA QCast	----
HYDR4 15 Rinker Materials, A QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 http://www.rinkerpipe.com/ Plant 1751 Monocacy Blvd. Frederick, MD 21701			
	RC Pipe (Elliptical)	ACPA QCast	2022-266Q
	RC Pipe (Round)	ACPA QCast	2022-266Q



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Section 601: Pipe Culverts

601.2(a)3a Round and Elliptical Reinforced Concrete (RC) Pipe

Last Revised: 10/20/2023

Companies maintaining an American Concrete Pipe Association Q-Cast certification or NPCA Pipe certification do not require in-plant inspection for standard design concrete pipe (any diameter).

All special design pipe will receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which the Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterisk (**). Pipe produced by Q-Cast or NPCA certified companies will be stenciled or stamped with the respective logos.

Product	Name	Pipe Certification	Ref. No.
OLDP1 15	Oldcastle Infrastructure, Inc., A CRH Company, 1900 Pennsylvania Ave., Croydon, PA 19021 http://www.oldcastleprecast.com/Pages/default.aspx		
	RC Pipe (End Section)	ACPA QCast	----
	RC Pipe (Round)	ACPA QCast	----
OLDP3 15	Oldcastle Infrastructure, Inc., A CRH Company, 1920 12th Street, Williamstown, NJ 08094 https://oldcastleinfrastructure.com/ Plant 1920 12th Street (Rt. 54) Folsom, NJ 08037 <i>Formerly Oldcastle Precast</i>		
	RC Pipe (Elliptical)	ACPA QCast	----
	RC Pipe (End Section)	ACPA QCast	----
	RC Pipe (Round)	ACPA QCast	----
OLDP5 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/ Plant 1401 Trimble Road Edgewood, MD 21040		
	RC Pipe (Elliptical)	ACPA QCast	2023-176Q
OLP-1 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/ Plant 200 Keystone Drive Telford, PA 18969		
	RC Pipe (End Section) <i>Approved to fabricate both round and elliptical flared end sections.</i>	NPCA	2020-108Q
UPPCP 15	Upper Peninsula Concrete Pipe, 6480 US-2 & 41, Escanaba, MI 49829 http://upconcretepipe.net/		
	RC Pipe (End Section)	NPCA	----



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Section 601: Pipe Culverts

601.2(a)3a Round and Elliptical Reinforced Concrete (RC) Pipe

Last Revised: 10/20/2023

Companies maintaining an American Concrete Pipe Association Q-Cast certification or NPCA Pipe certification do not require in-plant inspection for standard design concrete pipe (any diameter).

All special design pipe will receive in-plant inspection and an inspection stamp, regardless of the manufacturer's certification status. Special design pipe are identified as those pipe for which the Department has not provided a standard design in BD-636. Special design pipe are identified in BD-636 by a double asterisk (**). Pipe produced by Q-Cast or NPCA certified companies will be stenciled or stamped with the respective logos.

Product	Name	Pipe Certification	Ref. No.
VIANN 15 Vianini Pipe Inc., 81 County Line Road, Branchburg, NJ 08876 http://www.vianinipipe.com/			
RC Pipe (Elliptical)		ACPA QCast	----
RC Pipe (End Section)		ACPA QCast	----
RC Pipe (Round)		ACPA QCast	----

601.2(a)3a Reinforced Concrete (RC) Pipe (Related Items)

Last Revised: 4/20/2021

Plasticizing admixtures under this section may only be used in the production of reinforced concrete pipes.

Product	Name	Ref. No.
CONAM 15 Concrete Accessory Manufacturing, 211 East Dowland Street, Ludington, MI 49431 http://www.camsales.com/		
RC Pipe (Related Item)	Camlock Spacers (Pub. 280)	1994-250
RC Pipe (Related Item)	Quik-Fit Stirrup Mat (Pub. 280)	1994-249
ENGWP 15 Engineered Wire Products, Inc., 1200 N. Warpole Street, P. O. Box 313, Upper Sandusky, OH 43351 http://ewp1.com/ <i>(Liberty Steel USA)</i>		
RC Pipe (Related Item)	"S" Stirrup Assemblies	2003-198Q
GRAC7 15 GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/ Plant 6051 West 65th St. Bedford Park Chicago, IL 60638 <i>Formerly: W. R. Grace and Company</i>		
Plasticizing Admixture	DQuantec PL-466 (formerly DBM-S)	1992-285
HAALA 15 Haala Industries, Inc., 1201 Hwy 4 South, Sleepy Eye, MN 56085		
Reinforced Concrete Pipe Cages	Fabricator of Welded Steel Cages for Reinforced Flared End Sections	2016-245Q



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Section 601: Pipe Culverts

601.2(a)3a Reinforced Concrete (RC) Pipe (Related Items)

Last Revised: 4/20/2021

Plasticizing admixtures under this section may only be used in the production of reinforced concrete pipes.

Product	Name	Ref. No.
KRETE 15 Krete Industries, P. O. Box 343, Butler, WI 53007 http://www.krete.com/ Plasticizing Admixture	KreteMix 100 (formerly Krete Econo Plast)	1992-343
MBS-1 15 Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Plant Allentown, PA Formerly BASF Construction Chemicals (BAS-1 15) Plasticizing Admixture for Dry-Cast Manufacturing Only (S-PA) <i>Recommended Dosage: 2 to 12 oz/cwt</i>	MasterCast 900 (RheoFIT 900)	2013-024Q
SIKA3 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 150 Ben Fairless Drive Fairless Hills, PA Plasticizing Admixture for Dry-Cast Manufacturing Only (S-PA)	SikaMix PL-100	2016-282Q

601.2(a)4.a Metal Pipes - Ductile Iron Pipe

Last Revised: 10/3/2023

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

* ASTM A716 - Standard Specification for Ductile Iron Culvert Pipe - Required pipe markings: 1. Manufacturing mark, 2. Country where cast, 3. Year pipe produced, 4. Letters "DI" or "DUCTILE", 5. Not less than 1/2" in height and legible, 6. Located near the bell and cast or metal stamped

Product	Name	Ref. No.
AMECI 15 American Cast Iron Pipe Company, 1501 31st Avenue North, Birmingham, AL 35207 http://www.american-usa.com/ Ductile Iron Pipe		2010-186Q
MCWD1 15 McWane Ductile - New Jersey, 183 Sitgraves Street, Philipsburg, NJ 08865 http://mcwaneductile.com/ Ductile Iron Pipe		-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 601: Pipe Culverts

601.2(a)4.a Metal Pipes - Ductile Iron Pipe

Last Revised: 10/3/2023

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

* ASTM A716 - Standard Specification for Ductile Iron Culvert Pipe - Required pipe markings: 1. Manufacturing mark, 2. Country where cast, 3. Year pipe produced, 4. Letters "DI" or "DUCTILE", 5. Not less than 1/2" in height and legible, 6. Located near the bell and cast or metal stamped

Product	Name	Ref. No.
USP&F 15 Plant	U.S. Pipe and Foundry Co., A Quikrete Company, Two Chase Corporate Drive, Suite 200, Birmingham, AL 35244 Lynchburg, VA Ductile Iron Pipe ~ Approved MM-USA marking as Identifiable Steel	https://www.uspipe.com/ 3" to 16" Ductile Iron Pipes 1983-085
USPF1 15 Plant	U.S. Pipe and Foundry Co., A Quikrete Company, Two Chase Corporate Drive, Suite 200, Birmingham, AL 35244 2023 St. Louis Avenue Bessemer, AL 35020 <i>Marvel City Minimill & Bessemer Plant are on the same campus</i> Ductile Iron Pipe <i>4" to 12" pipes are produced at Marvel City Minimill & 12" to 64" pipes are produced at Bessemer Plant</i> Approved MM-USA marking as Identifiable Steel	http://www.uspipe.com TYTON JOINT Pipe 2015-087Q

601.2(a)4.b Metal Pipes - Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

Product	Name	Ref. No.
CON03 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Conyers, GA Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/ -----
CON05 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Ashland, KY Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/ -----



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Section 601: Pipe Culverts

601.2(a)4.b Metal Pipes - Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

Product	Name	Ref. No.
CON07 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Shakopee, MN Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/ -----
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Palmer, MA Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/ -----
CON11 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Raleigh, NC Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/ -----
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Greencastle, PA Corrugated Steel Pipe, Metallic Coated	http://www.conteches.com/ -----
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 Corrugated Steel Pipe, Metallic Coated	http://www.culvertsinc.com/Pages/default.aspx -----
J&J-D 15	J & J Drainage Products Company, 110 N Pershing, PO Box 0829, Hutchinson, KS 67504-0829 Related Hardware	http://jjdrainage.com/ Band Angle 1984-073
LANE1 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 16 May Street Bath, NY 14810 Corrugated Steel Pipe, Metallic Coated	http://www.lane-enterprises.com/ -----
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 682 Quaker Valley Road Bedford, PA 15522 Corrugated Steel Pipe, Metallic Coated	http://www.lane-enterprises.com/ -----



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Section 601: Pipe Culverts

601.2(a)4.b Metal Pipes - Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

Product	Name	Ref. No.
LANE3 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143	
	Corrugated Steel Pipe, Metallic Coated	----
LANE4 15 Plant	Lane Enterprises, Inc, 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 377 Crooked Lane King of Prussia, PA 19406	
	Corrugated Steel Pipe, Metallic Coated	----
LMP-S 15	LMP Steel & Wire Company, 2000 East First Street, Maryville, MO 64468	
	Related Hardware	A-307 Grade A, 6" and 8" Electroplated, CMP Band Bolts 1991-120AB

601.2(a)4.c Metal Pipes - Corrugated Aluminum Alloy Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

Product	Name	Ref. No.
CON03 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Conyers, GA	
	Corrugated Aluminum Alloy Pipe	----
CON04 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Mitchell, IN	
	Corrugated Aluminum Alloy Pipe	----
CON07 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Shakopee, MN	
	Corrugated Aluminum Alloy Pipe	----



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Section 601: Pipe Culverts

601.2(a)4.c Metal Pipes - Corrugated Aluminum Alloy Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

Product	Name	Ref. No.
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Palmer, MA Corrugated Aluminum Alloy Pipe	http://www.conteches.com/ -----
CON11 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Raleigh, NC Corrugated Aluminum Alloy Pipe	http://www.conteches.com/ -----
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 Corrugated Aluminum Alloy Pipe	http://www.culvertsinc.com/Pages/default.aspx -----
LANE1 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 16 May Street Bath, NY 14810 Corrugated Aluminum Alloy Pipe	http://www.lane-enterprises.com/ -----
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 682 Quaker Valley Road Bedford, PA 15522 Corrugated Aluminum Alloy Pipe	http://www.lane-enterprises.com/ -----
LANE3 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143 Corrugated Aluminum Alloy Pipe	http://www.lane-enterprises.com/ -----
LANE4 15 Plant	Lane Enterprises, Inc, 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 377 Crooked Lane King of Prussia, PA 19406 Corrugated Aluminum Alloy Pipe	http://www.lane-enterprises.com/ -----

601.2(a)4.d Metal Pipes - Coated Corrugated Galvanized Steel Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.



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Section 601: Pipe Culverts

601.2(a)4.d Metal Pipes - Coated Corrugated Galvanized Steel Pipe

Last Revised: 6/27/2017

Steel Products Procurement Act applies. Note: Approved pipe manufacturers listed in this section may also provide end sections and slope pipe fittings.

Product	Name	Ref. No.
CON03 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Conyers, GA Coated Corrugated Galvanized Steel Pipe	http://www.conteches.com/ -----
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Palmer, MA Coated Corrugated Galvanized Steel Pipe	http://www.conteches.com/ -----
CON11 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Raleigh, NC Coated Corrugated Galvanized Steel Pipe	http://www.conteches.com/ -----
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Greencastle, PA Coated Corrugated Galvanized Steel Pipe	http://www.conteches.com/ -----
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108 Coated Corrugated Galvanized Steel Pipe	http://www.culvertsinc.com/Pages/default.aspx -----
DOW-2 15	The Dow Chemical Company, 4520 Ashman Street, Building 9008, Customer Info., Midland, MI 48642 Related Hardware <i>Plastic coating for galvanized steel pipe</i>	http://www.dow.com/ Trenchcoat DAF 625 1990-304
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 682 Quaker Valley Road Bedford, PA 15522 Coated Corrugated Galvanized Steel Pipe	http://www.lane-enterprises.com/ -----
PUREA 15	Pure Asphalt Company, 3455 West 31st Street, Chicago, IL 60623 Related Hardware <i>Also listed under Section 702</i>	http://www.pureasphalt.com/ Culvert Mastic (Spray Grade) 1990-270



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Section 601: Pipe Culverts

601.2(a)6.a Thermoplastic Pipes - Group I

Last Revised: 6/21/2021

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
CON10 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/				
	Polyvinyl Chloride (PVC) Liner <i>A2 liner pipe. Approved for 2' minimum fill height, 36' maximum fill height.</i>	Type S	12", 15", 18", 21", 24", 30", 36"		2010-238QB
	Polyvinyl Chloride (PVC) Pipe <i>15" in. size pipe can only be used for maintenance.</i>	Type S	15", 18", 21", 24", 30", 36"		2000-326Q
ISCFB 15 Facility	ISCO Industries, Inc., 100 Witherspoon Street 2 West, Louisville, KY 40202 http://culvert-rehab.com/				
	190 Spartan Exchange Rd. Wellford, SC 29385				
	High Density Polyethylene (HDPE) Liner <i>The Snap-Tite Culvert Liner with SDR of 32.5 is for use on rehabilitation projects for lining existing corrugated metal pipes, reinforced concrete pipes, and concrete culverts. For fill heights of greater than 15', a project-by-project design approval is required.</i>	Type S	Liner Sizes: 14", 16", 18", 20", 22", 24", 26", 28", 30", 32", 36", 42", 48", 54", 63"		2016-249M
JMMC1 15 Plant	JM Eagle, 5200 West Century Boulevard, Los Angeles, CA 90045 http://www.jmeagle.com/				
	J-M Manufacturing Company 315 Grant Street Franklin, PA 16323				
	Polyvinyl Chloride (PVC) Pipe	Type S	18", 21", 24", 30", 36", 42", 48"		1995-314



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Section 601: Pipe Culverts

601.2(a)6.a Thermoplastic Pipes - Group I

Last Revised: 6/21/2021

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
PERPI 15	Performance Pipe a Division of Chevron Phillips Chemical Company, 5085 W. Park Blvd. Suite 500, Plano, TX 75093 http://www.performancepipe.com/en-us/Pages/default.aspx				
	High Density Polyethylene (HDPE) Pipe <i>SDR<21</i>	Type S	18", 21", 24", 30", 36", 42", 48"		1994-094
	High Density Polyethylene (HDPE) Pipe <i>SDR=26</i>	Type S	21", 24", 30", 36", 42", 48"		1994-094
PWEGE 15	JM Eagle, 1742 E. Platteville Blvd., Pueblo West, CO 81007 http://www.jmeagle.com/ Formerly PW Eagle				
	Polyvinyl Chloride (PVC) Pipe <i>15" size pipe is for maintenance uses only.</i>	Type S	15", 18", 21", 24", 30"		1988-029
	Polyvinyl Chloride (PVC) Pipe	Type S	30", 36" (corrugated)		1997-007
ROYAL 15	Westlake Pipe & Fittings, 131 Regalcrest Court, Woodbridge, Ontario, Canada https://www.westlakepipe.com/en Formerly Royal Pipe Systems				
	Polyvinyl Chloride (PVC) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 21", 24"		2002-012Q

601.2(a)6.b Thermoplastic Pipes - Group II

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 1/26/2024

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

	Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/					
	173 Industrial Park North Muncy, PA 17756					
	High Density Polyethylene (HDPE) Pipe	N-12	Type S	15", 18", 24", 30"		1995-322
	<i>15" size pipe for maintenance only.</i>					
	High Density Recycled Polyethylene (HDPE) Pipe	N-12 (Model Number 30850020IBR)	Type S	30"		2020-154Q
	<i>Contains recycled content.</i>					
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/					
	1 William Donnelly Parkway Waverly, NY 14892					
	Formerly Hancor, Inc. (HANC1 15)					
	High Density Polyethylene (HDPE) Pipe		Type S	15", 18", 21", 24", 30"		----
	<i>15" size pipe for maintenance use only.</i>					



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 1/26/2024

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1115 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 400 E High Street London, OH 43140				
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 15850020IB) <i>15" size pipe for maintenance use only.</i>	Type S	15"		2021-215Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 18850020IB)	Type S	18"		2021-185Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 24850020IB)	Type S	24"		2021-187Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 30850020IB)	Type S	30"		2021-189Q
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Old Route 30 West Wooster, OH 44691				
	High Density Polyethylene (HDPE) Pipe N-12 <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 24", 30"		1995-322
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Ludlow, MA				
	High Density Polyethylene (HDPE) Pipe N-12 <i>15" size pipe for maintenance only.</i>	Type S	15", 18", 24", 30"		1995-322



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 1/26/2024

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Buena Vista, VA				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	N-12 Type S	15", 18", 24", 30"		1995-322
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Logan Township, NJ				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	N-12 Type S	15"		2020-127Q
	High Density Polyethylene (HDPE) Pipe	N-12 Type S	18"		2020-129Q
	High Density Polyethylene (HDPE) Pipe	N-12 Type S	24"		2020-133Q
	High Density Polyethylene (HDPE) Pipe	N-12 Type S	30"		2020-137Q



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 1/26/2024

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type S	15", 18", 21", 24", 30"	-	
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879				
	High Density Polyethylene (HDPE) Pipe Poly Smooth-Line				2001-013Q
	High Density Polyethylene (HDPE) Pipe Poly Smooth-Line				2001-014Q
	High Density Polyethylene (HDPE) Pipe Solid Poly-Drain				2000-040Q
DRAPR 15	Haviland Drainage Products, 100 West Main Street, PO Box 97, Haviland, OH 45851				
	High Density Polyethylene (HDPE) Pipe Type S	Type S	18", 21", 24", 30"		2000-124Q
	High Density Polyethylene (HDPE) Pipe Smooth-Flow F-477	Type S	18"		2022-161Q



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 1/26/2024

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
JME-1 15	JM Eagle, Meadville Plant, 15661 Delano Road, Cochranon, PA 16314-0000				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance only.</i>	Type S	15"		2015-042QA
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2015-042QB
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2015-042QC
	High Density Polyethylene (HDPE) Pipe	Type S	30"		2015-042QD



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Section 601: Pipe Culverts

601.2(a)6.c Thermoplastic Pipes - Group III

Last Revised: 1/26/2024

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 34 Strohm Road Shippensburg, PA 17257				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24", 30"		1996-190
	High Density Polyethylene (HDPE) Pipe	Type S	24"		1996-190
	High Density Polyethylene (HDPE) Pipe HD100	Type S	18"		2016-068Q
	High Density Polyethylene (HDPE) Pipe HD100	Type S	24"		2016-195Q
LANE7 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 510 Kents Lane Wytheville, VA 24382				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type S	15", 18", 21", 24"		2009-043Q
	High Density Polyethylene (HDPE) Pipe	Type S	30"		2010-099Q

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 7/25/2023



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 7/25/2023

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Type D: This pipe shall consist of an essentially smooth waterway braced circumferentially or spirally with projections or ribs joined to an essentially smooth outer wall. Both walls shall be fused to, or continuous with, the internal supports.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		1995-322
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2000-003Q
	High Density Polyethylene (HDPE) Pipe	Type S	48"		2001-193Q
	High Density Polyethylene (HDPE) Pipe	Type S	60"		2003-069Q
	High Density Polyethylene (HDPE) Pipe N-12	Type D	42", 48"		1997-128



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 7/25/2023

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)				
	High Density Polyethylene (HDPE) Pipe		36"		----
	High Density Polyethylene (HDPE) Pipe	Type S	54", 60"		1998-017
	High Density Polyethylene (HDPE) Pipe		42", 48"		1997-134
ADS-1115 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 400 E High Street London, OH 43140				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2021-191Q
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2021-193Q



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

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	Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/					
		Ludlow, MA				
	High Density Polyethylene (HDPE) Pipe		Type S	36"		1995-322
	High Density Polyethylene (HDPE) Pipe		Type S	42"		2000-003Q
	High Density Polyethylene (HDPE) Pipe	N-12	Type D	42"		1997-128
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/					
		Logan Township, NJ				
	High Density Polyethylene (HDPE) Pipe	N-12 (Model Number 36850020IB)	Type S	36"		2020-253Q
	High Density Polyethylene (HDPE) Pipe	N-12 (Model Number 42850020IB)	Type S	42"		2020-255Q



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 7/25/2023

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	High Density Polyethylene (HDPE) Pipe		36"		----
	High Density Polyethylene (HDPE) Pipe		54", 60"		1998-017
	High Density Polyethylene (HDPE) Pipe	Sure-Lok Annular Corrugated, PE	42", 48"		1997-134
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879				
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2003-050Q
	High Density Polyethylene (HDPE) Pipe	Type S	42", 48"		2010-035QAC



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

Last Revised: 7/25/2023

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
DRAPR 15 Haviland Drainage Products, 100 West Main Street, PO Box 97, Haviland, OH 45851 http://haviland-drainage.com					
High Density Polyethylene (HDPE) Pipe		Type S	36", 42"		2000-124Q
High Density Polyethylene (HDPE) Pipe	Smooth-Flow F-477	Type S	36"		2022-159Q
High Density Polyethylene (HDPE) Pipe	Smooth-Flow F-477	Type S	42"		2022-160Q
JME-1 15 JM Eagle, Meadville Plant, 15661 Delano Road, Cochranon, PA 16314-0000 http://www.jmeagle.com/					
High Density Polyethylene (HDPE) Pipe		Type S	36"		2015-043QA
High Density Polyethylene (HDPE) Pipe		Type S	42"		2015-043QB



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Section 601: Pipe Culverts

601.2(a)6.d Thermoplastic Pipes - Group IV

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Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 34 Strohm Road Shippensburg, PA 17257				http://www.lane-enterprises.com/
	High Density Polyethylene (HDPE) Pipe	Type S	36"		1996-272
	High Density Polyethylene (HDPE) Pipe	Type S	42", 48"		2004-047
	High Density Polyethylene (HDPE) Pipe	Type S	60"		2016-054Q
LANE7 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 510 Kents Lane Wytheville, VA 24382				http://www.lane-enterprises.com/
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2010-100Q

601.2(a)6.e Thermoplastic Pipes - Group V

Last Revised: 6/12/2018

Type C: This pipe shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 601: Pipe Culverts

601.2(a)6.e Thermoplastic Pipes - Group V

Last Revised: 6/12/2018

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 173 Industrial Park North Muncy, PA 17756 High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type C	15", 18", 24"		1995-322
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15) High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24"		----
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Old Route 30 West Wooster, OH 44691 High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type C	15", 18", 24"		1995-322
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Ludlow, MA High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type C	15", 18", 24"		1995-322



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Section 601: Pipe Culverts

601.2(a)6.e Thermoplastic Pipes - Group V

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Buena Vista, VA				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>	Type C	15", 18", 24"		1995-322
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24"		----
LANE6 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 34 Strohm Road Shippensburg, PA 17257				
	High Density Polyethylene (HDPE) Pipe <i>15" size pipe for maintenance use only.</i>		15", 18", 21", 24"		2010-098Q
	High Density Polyethylene (HDPE) Pipe HD100	Type C	24"		2016-086Q
	High Density Polyethylene (HDPE) Pipe HD100	Type C	18"		2018-036Q



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Section 601: Pipe Culverts

601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 8/31/2023

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 24", 30", 36", 42", 48", 60"	432-04-01	----
	High Density Polyethylene (HDPE) Pipe <i>Revised Profile</i>	Type S	18"		2015-039QA
	High Density Polyethylene (HDPE) Pipe <i>Revised Profile</i>	Type S	24"		2013-064MA
	High Density Recycled Polyethylene (HDPE) Pipe <i>Contains recycled content.</i>	Type S	30"		2020-155Q
	Polypropylene (PP) Pipe	Type S	36"		2017-020Q
	Polypropylene (PP) Pipe	Type S	42"		2017-012Q
	Polypropylene (PP) Pipe	Type S	48"		2017-011Q
	Polypropylene (PP) Pipe	Type S	60"		2017-010Q



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Section 601: Pipe Culverts

601.2(a)6.f Thermoplastic Pipes - Group VI

Last Revised: 8/31/2023

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30"	432-04-01	----
	Polypropylene (PP) Pipe	Type S	18"		2019-002Q
	Polypropylene (PP) Pipe	Type S	21"		2019-005Q
	Polypropylene (PP) Pipe	Type S	24"		2019-003Q



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Section 601: Pipe Culverts

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1115 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ 400 E High Street London, OH 43140				
	High Density Polyethylene (HDPE) Pipe	N-12 (Model No. 36850020IB)	Type S	36"	2021-192Q
	High Density Polyethylene (HDPE) Pipe	N-12 (Model No. 42850020IB)	Type S	42"	2021-194Q
	High Density Polyethylene (HDPE) Pipe	N-12 (Model Number 18850020IB)	Type S	18"	2021-186Q
	High Density Polyethylene (HDPE) Pipe	N-12 (Model Number 24850020IB)	Type S	24"	2021-188Q
	High Density Polyethylene (HDPE) Pipe	N-12 (Model Number 30850020IB)	Type S	30"	2021-190Q



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Section 601: Pipe Culverts

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	Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/					
		Old Route 30 West Wooster, OH 44691				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 24", 30"	432-04-01	----
	Polypropylene (PP) Pipe	18" HP Storm (1865 0020 IBPL)	Type S	18"		2017-021Q
	Polypropylene (PP) Pipe	24" HP Storm (2465 0020 IBPL)	Type S	24"		2017-022Q
	Polypropylene (PP) Pipe	30" HP Storm (3065 0020 IBPL)	Type S	30"		2017-023Q
	Polypropylene (PP) Pipe	HP Storm (EP) Model No. 24650020IBPL	Type S	24"		2021-050Q
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/					
		Ludlow, MA				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 24", 30", 36", 42"	432-04-01	----
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/					
		Buena Vista, VA				
	High Density Polyethylene (HDPE) Pipe		Type S	18", 24", 30"	432-04-01	----



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Section 601: Pipe Culverts

601.2(a)6.f Thermoplastic Pipes - Group VI

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Logan Township, NJ				
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 18850020IB)	Type S	18"		2020-131Q
	<i>This approval covers both the original profile (2011-143Q) and revised profile (2020-131Q) for this 18" pipe.</i>				
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 24850020IB)	Type S	24"		2020-135Q
	<i>This approval covers both the original profile (2011-143Q) and revised profile (2020-135Q) for this 24" pipe.</i>				
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 30850020IB)	Type S	30"		2020-139Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 36850020IB)	Type S	36"		2020-254Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model Number 42850020IB)	Type S	42"		2020-256Q



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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	High Density Polyethylene (HDPE) Pipe	Type S	18", 21", 24", 30"	432-04-01	----
	High Density Polyethylene (HDPE) Pipe N-12 (Model No. 36850020IB)	Type S	36"		2023-083Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model No. 42850020IB)	Type S	42"		2023-086Q
	High Density Polyethylene (HDPE) Pipe N-12 (Model No. 48850020IB)	Type S	48"		2021-055Q
	Polypropylene (PP) Pipe 18" HP Storm (1865 0020 IBPL)	Type S	18"		2017-013Q
	Polypropylene (PP) Pipe 21" HP Storm (2165 0020 IBPL)	Type S	21"		2017-014Q
	Polypropylene (PP) Pipe 24" HP Storm (2465 0020 IBPL)	Type S	24"		2017-015Q
	Polypropylene (PP) Pipe 36" HP Storm (3665 0020 IBPL)	Type S	36"		2017-016Q
	Polypropylene (PP) Pipe 42" HP Storm (4265 0020 IBPL)	Type S	42"		2017-017Q
	Polypropylene (PP) Pipe 48" HP Storm (4865 0020 IBPL)	Type S	48"		2017-018Q
	Polypropylene (PP) Pipe 60" HP Storm (6065 0020 IBPL)	Type S	60"		2017-019Q



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Section 601: Pipe Culverts

601.2(a)6.f Thermoplastic Pipes - Group VI

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
BAUGH 15 Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/					
High Density Polyethylene (HDPE) Pipe		Type S	18", 21", 24"	432-04-01	----
High Density Polyethylene (HDPE) Pipe		Type S	42"		2010-035QB
DRAPR 15 Haviland Drainage Products, 100 West Main Street, PO Box 97, Haviland, OH 45851 http://havaland-drainage.com					
High Density Polyethylene (HDPE) Pipe		Type S	18", 21", 24", 30", 36", 42", 48"	432-04-01	----
JME-1 15 JM Eagle, Meadville Plant, 15661 Delano Road, Cochranon, PA 16314-0000 http://www.jmeagle.com/					
High Density Polyethylene (HDPE) Pipe		Type S	18"		2015-044QA
High Density Polyethylene (HDPE) Pipe		Type S	24"		2015-044QB



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Section 601: Pipe Culverts

601.2(a)6.f Thermoplastic Pipes - Group VI

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 34 Strohm Road Shippensburg, PA 17257		http://www.lane-enterprises.com/		
High Density Polyethylene (HDPE) Pipe		Type S	18", 21", 24", 30", 36", 42", 48"	432-04-01	----
High Density Polyethylene (HDPE) Pipe	HD100	Type S	60"		2016-055Q
High Density Polyethylene (HDPE) Pipe	HD100	Type S	24"		2016-069Q
High Density Polyethylene (HDPE) Pipe	HD100	Type S	18"		2016-197Q
LANE7 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 510 Kents Lane Wytheville, VA 24382		http://www.lane-enterprises.com/		
High Density Polyethylene (HDPE) Pipe	HD100	Type S	18"		2014-057Q
High Density Polyethylene (HDPE) Pipe	HD100	Type S	24"		2014-058Q

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 5/12/2023

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

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Section 601: Pipe Culverts

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 5/12/2023

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe <i>Revised Profile - Provisionally Approved.</i>	Type S	18"		2015-039QB
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2021-077Q
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2021-078Q
	High Density Polyethylene (HDPE) Pipe	Type S	30"		2021-079Q
	High Density Polyethylene (HDPE) Pipe	Type S	36"		2021-082Q
	High Density Polyethylene (HDPE) Pipe	Type S	42"		2021-083Q
	High Density Polyethylene (HDPE) Pipe	Type S	48"		2021-080Q
	High Density Polyethylene (HDPE) Pipe <i>The 54" diameter pipe is provisionally approved.</i>	Type S	54"		2010-266Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 601: Pipe Culverts

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 5/12/2023

Type S: This pipe shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756				
	High Density Polyethylene (HDPE) Pipe	N-12 Model No. 60650020IBC2	Type S	60"	2021-084Q
	Polypropylene (PP) Pipe	HP Storm Model No. 36650020PLC2	Type S	36"	2020-266Q
	<i>Related Product Evaluation Application: 2019-065Q</i>				
	Polypropylene (PP) Pipe	HP Storm Model No. 42650020PLC2	Type S	42"	2019-066Q
	Polypropylene (PP) Pipe	HP Storm Model No. 48650020PLC2	Type S	48"	2020-267Q
	<i>Related Product Evaluation Application: 2019-067Q</i>				
	Polypropylene (PP) Pipe	HP Storm Model No. 60650020PLC2	Type S	60"	2019-068Q
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Old Route 30 West Wooster, OH 44691				
	Polypropylene (PP) Pipe	HP Storm (EP) Model No. 24650020IBPL	Type S	24"	2021-049Q
	Polypropylene (PP) Pipe	HP Storm Model No. 18650020PLC2	Type S	18"	2019-062Q
	Polypropylene (PP) Pipe	HP Storm Model No. 24650020PLC2	Type S	24"	2019-063Q
	Polypropylene (PP) Pipe	HP Storm Model No. 30650020PLC2	Type S	30"	2019-064Q



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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
	Polypropylene (PP) Pipe	HP Storm Model No. 18650020PLC2	Type S	18"	2019-059Q
	Polypropylene (PP) Pipe	HP Storm Model No. 24650020PLC2	Type S	24"	2019-061Q



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Section 601: Pipe Culverts

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 34 Strohm Road Shippensburg, PA 17257				
High Density Polyethylene (HDPE) Pipe	HD100	Type S	30"		2014-251M
High Density Polyethylene (HDPE) Pipe	HD100	Type S	48"		2014-252M
High Density Polyethylene (HDPE) Pipe	HD100	Type S	42"		2014-253M
High Density Polyethylene (HDPE) Pipe	HD100	Type S	24"		2016-286Q
High Density Polyethylene (HDPE) Pipe	HD100	Type S	18"		2016-291Q
High Density Polyethylene (HDPE) Pipe	HD100	Type S	36"		2019-154Q
High Density Polyethylene (HDPE) Pipe	HD100Gold	Type S	60"		2016-198



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Section 601: Pipe Culverts

601.2(a)6.g Thermoplastic Pipes - Group VII

Last Revised: 5/12/2023

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Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
LANE7 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011				http://www.lane-enterprises.com/
	510 Kents Lane Wytheville, VA 24382				
	High Density Polyethylene (HDPE) Pipe	Type S	18"		2014-220Q
	High Density Polyethylene (HDPE) Pipe	Type S	24"		2014-221Q

601.2(a)7 Steel Reinforced Polyethylene (SRPE) Pipe

Last Revised: 10/29/2020

Product	Name	Thermo Type	Pipe Size	SOL	Ref. No.
CON01 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328				http://www.conteches.com/
	Montgomery, AL				
	SRPE Pipe, Group I	DuroMaxx	30", 36", 42"		2017-166
	<i>Provisionally Approved. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (4/21/2020 to 4/21/2022).</i>				
	SRPE Pipe, Group II	DuroMaxx	48", 54", 60", 66", 72"		2017-166
	<i>Provisionally Approved. Provisionally Approved. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (4/21/2020 to 4/21/2022).</i>				
	SRPE Pipe, Group III	DuroMaxx	84", 96", 108", 120"		2017-166
	<i>Provisionally Approved. Provisionally Approved. Under provisional approval, the Department will monitor its use, application, and performance for a period of two years (4/21/2020 to 4/21/2022).</i>				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 603: Metal Plate Culverts

603.2(a) Metal Plate Pipes, Metal Plate Pipe Arches, and Metal Plate Arches

Last Revised: 2/13/2020

Strike Off Letters (SOL) and Drawings for [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
CON06 15	Contech Engineered Solutions LLC, a QUIKRETE Company, 9025 Centre Pointe Drive, West Chester, OH 45069 http://www.conteches.com/		
Plant	700 Tech Drive Winchester, KY 40391		
Metal Plate Culvert (Fabricator)	Aluminum Plate Pipe		1994-246
	<i>This material has been downgraded to provisional approval status until the manufacturer provides fill height tables to Bridge Design & Technology Division.</i>		
	<i>Provisionally Approved</i>		
Metal Plate Culvert (Fabricator)	Aluminum Structural Plate Box Culverts	483-19-05	2013-224
Metal Plate Culvert (Fabricator)	Steel Structural Plate for Culverts		----
	<i>Approval date of letter: 10/26/2007</i>		
LANE3 15	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/		
Plant	Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143		
Metal Plate Culvert (Fabricator)	Aluminum Structural Plate Box Culverts	431-12-09	2012-110
Metal Plate Culvert (Fabricator)	Aluminum Structural Plate for Culverts		2006-041Q
	<i>Provisionally Approved. This material has provisional approval status until the manufacturer provides fill height tables to Bridge Design & Technology Division.</i>		
Metal Plate Culvert (Fabricator)	Steel Structural Plate for Culverts		----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 604: Combination Storm Sewer and Underdrain

604.2(a)1 Nonmetal Pipes

Last Revised: 8/13/2021

Type CP: This pipe with perforations shall have a full circular cross section, with a corrugated surface both inside and outside. Corrugations may be either annular or helical.

Type SP: This pipe with perforations shall have a full circular cross section, with an outer corrugated pipe wall and a smooth inner liner. Corrugations may be either annular or helical.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 173 Industrial Park North Muncy, PA 17756				
	Group IIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	42"		2000-002Q
	Group IVP Perforated Pipe (Polyethylene)	Type SP	48"		2001-194Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 30", 36", 42", 48", 60"	432-04-01	----
	Group VIP Perforated Pipe (Polyethylene) <i>Revised Profile</i>	Type SP	N-12 Model Number 24850020IB 24"		2013-064MB
	Group VP Perforated Pipe (Polyethylene)	Type CP	12" to 24"		1995-322



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Section 604: Combination Storm Sewer and Underdrain

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Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24"		----
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		----
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Old Route 30 West Wooster, OH 44691				
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30"	432-04-01	-
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322



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Section 604: Combination Storm Sewer and Underdrain

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Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Ludlow, MA	http://www.ads-pipe.com/en/			
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type SP	36"		1995-322
	Group IVP Perforated Pipe (Polyethylene)	Type S	42"		2000-002Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30", 36", 42"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Buena Vista, VA	http://www.ads-pipe.com/en/			
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		1995-322
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30"	432-04-01	----
	Group VP Perforated Pipe (Polyethylene)	Type CP	12", 15", 18", 24"		1995-322



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Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ Logan Township, NJ				
Group IIIP Perforated Pipe (Polyethylene)	N-12 Model Number 24850020IB	Type SP	24"		2020-134Q
Group IIIP Perforated Pipe (Polyethylene)	N-12 Model Number 30850020IB	Type SP	30"		2020-138Q
Group VIP Perforated Pipe (Polyethylene)	N-12 Model Number 24850020IB	Type SP	24"		2020-136Q
Group VIP Perforated Pipe (Polyethylene)	N-12 Model Number 30850020IB	Type SP	30"		2020-140Q
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)				
Group IIIP Perforated Pipe (Polyethylene)		Type SP	12", 15", 18", 24", 30"		----
Group IVP Perforated Pipe (Polyethylene)		Type SP	36", 42", 48"		1998-016A, B
Group VIP Perforated Pipe (Polyethylene)		Type SP	18", 24", 30"	432-04-01	----
Group VP Perforated Pipe (Polyethylene)		Type CP	12", 15", 18", 24"		----



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Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
BAUGH 15 Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/					
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	24", 30"		2001-015-016Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24"	432-04-01	----
CON10 15 Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Plant Springfield, IL					
	Group IP Perforated Pipe (Polyvinyl Chloride)	Type SP	12", 15", 18", 24", 36"		2000-327Q
DRAPR 15 Haviland Drainage Products, 100 West Main Street, PO Box 97, Haviland, OH 45851 http://haviland-drainage.com					
	Group IIIP Perforated Pipe (Polyethylene)	Type SP	12", 15", 18", 24", 30"		2000-125Q
	Group VIP Perforated Pipe (Polyethylene)	Type SP	18", 24", 30", 36", 42", 48"	432-04-01	----
HYDR2 15 Rinker Materials, a QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 https://www.rinkerpipe.com/ Plant 800 Industrial Drive Middletown, DE 19709					
	Reinforced Concrete (RC) Pipe	Elliptical	14"x23" to 58"x91"		2013-104Q
	Reinforced Concrete (RC) Pipe	Round	12" to 84"		2013-104Q



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Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
LANE6 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 34 Strohm Road Shippensburg, PA 17257				
Group IIIP Perforated Pipe (Polyethylene)		Type SP	12", 15", 30"		1997-182
Group IIIP Perforated Pipe (Polyethylene)	HD100	Type SP	18"		2016-194Q
Group IIIP Perforated Pipe (Polyethylene)	HD100	Type SP	24"		2016-305Q
Group IVP Perforated Pipe (Polyethylene)		Type SP	36"		1997-182
Group IVP Perforated Pipe (Polyethylene)		Type SP	42", 48"		2004-048
Group IVP Perforated Pipe (Polyethylene)	HD100	Type SP	60"		2016-307Q
Group VIP Perforated Pipe (Polyethylene)		Type SP	30", 36", 42", 48"	432-04-01	----
Group VIP Perforated Pipe (Polyethylene)	HD100	Type SP	18"		2016-196Q
Group VIP Perforated Pipe (Polyethylene)	HD100	Type SP	24"		2016-306
Group VIP Perforated Pipe (Polyethylene)	HD100	Type SP	60"		2016-308



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Product	Name	AASHTO Pipe Type	Pipe Size	SOL	Ref. No.
LANE7 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 510 Kents Lane Wytheville, VA 24382				
	Group IIIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 15"	Type SP	15"	2014-254Q
	Group IIIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 18"	Type SP	18"	2014-255Q
	Group IIIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 24"	Type SP	24"	2014-256Q
	Group VIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 18"	Type SP	18"	2014-259Q
	Group VIP Perforated Pipe (Polyethylene)	HD100 Pipe, Type SP, 24"	Type SP	24"	2014-260Q
OLDP1 15	Oldcastle Infrastructure, Inc., A CRH Company, 1900 Pennsylvania Ave., Croydon, PA 19021 http://www.oldcastleprecast.com/Pages/default.aspx				
	Reinforced Concrete (RC) Pipe			12" to 48"	2013-086Q
PWEGL 15	JM Eagle, 1742 E. Platteville Blvd., Pueblo West, CO 81007 http://www.jmeagle.com/ Formerly PW Eagle				
	Group IP Perforated Pipe (Polyethylene)		Type SP	15", 18", 24", 30", 36"	2000-194Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
AMEHP 15 American Highway Products, Ltd., 11723 Strasburg Bolivar Road NW, Bolivar, OH 44612 http://www.ahp1.com/index.php			
Grade Adjustment Riser - Structural Steel	Type 1 or 2: RC45M		2014-222Q
BERMF 15 Bear Ridge Machine & Fabrication, Inc., 10 Eleanor Avenue, Frackville, PA 17931 http://brmf.net/			
Grade Adjustment Riser - Structural Steel	Type 1 or 2: RC45M		2002-113Q
Grate - Welded Steel			2002-113Q
Grate - Welded Steel Bicycle Safe			2002-113Q
BREWF 15 S. R. Bressler Welding & Fabrication, 558 Lake Drive, Curwensville, PA 16833 http://www.srbressler.com/			
2'x4' Type S Top			2013-119QI
Frame - Welded Steel Inlet			2013-119QF
Frame - Welded Steel Inlet Angle			2013-119QH
Grade Adjustment Riser - Structural Steel	Type 1 or 2: RC45M		2013-119QG
Grate - Type D-H Steel			2013-119QD
Grate - Welded Steel			2013-119QA
Grate - Welded Steel Bicycle Safe			2013-119QB
Vane Grate - Welded Steel			2013-119QE
<i>May be used outside of the travel lanes, at the edge of outside shoulders, swales, wide median swales, and infield areas. Not approved for HS-25 loading.</i>			
Welded Rebar Cage (Type S Inlet Top)			2022-128Q
Welded Rebar Cage (Type M Inlet Top)			2022-127Q
CONCR 15 Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/			
Anti-Vortex Device			2019-082Q
Trash Rack			2019-082Q



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.	
EJI-0 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730			
	Frame - Cast Iron, HS25 Loading	5355Z 3 1/4" Tall Catch Basin Frame (Type M: 535511, Type C: 535513)		2008-113Q
	* Approved MM-USA marking as Identifiable Steel			
	Frame - Cast Iron, HS25 Loading	5356Z 8" Tall Catch Basin Frame, 3 Flanges, Along Curb, Type C (535611)		2008-113Q
	* Approved MM-USA marking as Identifiable Steel			
	Frame - Cast Iron, HS25 Loading	5356Z 8' Tall Catch Basin Frame, 4 Flanges, Type M (535613)		2008-113Q
	* Approved MM-USA marking as Identifiable Steel			
	Frame - Cast Iron, HS25 Loading	5357ZPT 10 1/8" Tall Catch Basin Frame, Bolting with 3 Flanges, Along Curb (535713)		2008-113Q
	* Approved MM-USA marking as Identifiable Steel			
	Frame - Cast Iron, HS25 Loading	5357ZPT 10-1/8" Tall Catch Basin Frame, Bolting with 4 Flanges, Type M (535711)		2008-113Q
	* Approved MM-USA marking as Identifiable Steel			
	Grate - Cast Iron, HS25 Loading	5355M4 Diagonal Two Piece Grate (535541)		-
	Grate - Cast Iron, HS25 Loading	5355M6 ADA Style Two Piece Grate (535548, 535549)		1986-011
* Approved MM-USA marking as Identifiable Steel				
Grate - Cast Iron, HS25 Loading	5355M8 One Piece Bicycle Safe Grate (535570, 535571)		2008-113Q	
* Approved MM-USA marking as Identifiable Steel				
Grate - Cast Iron, HS25 Loading	5535M1 Diagonal One Piece Grate (535531)		-	



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
EJI-3 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Syracuse Fabrication 132 County Route 59 Phoenix, NY 13135		
	Frame - Welded Steel Inlet * Approved MM-USA marking as Identifiable Steel	4/9/1996	----
	Frame - Welded Steel Inlet Angle * Approved MM-USA marking as Identifiable Steel	4/9/1996	----
	Grade Adjustment Riser - Structural Steel Type 1 or 2: RC45M * Approved MM-USA marking as Identifiable Steel	4/9/1996	----
	Grate - Type D-H Steel * Approved MM-USA marking as Identifiable Steel	4/9/1996	----
	Grate - Welded Steel * Approved MM-USA marking as Identifiable Steel	4/9/1996	----
	Grate - Welded Steel Bicycle Safe * Approved MM-USA marking as Identifiable Steel	4/9/1996	----
	Welded Rebar Cage (Type S Inlet Top) * Approved MM-USA marking as Identifiable Steel	6/4/2003	----
	Welded Rebar Cage (Type C Inlet Top) * Approved MM-USA marking as Identifiable Steel	5/9/2000	----
	Welded Rebar Cage (Type C-Alt Inlet Top) * Approved MM-USA marking as Identifiable Steel	5/9/2000	----
	Welded Rebar Cage (Type DH Inlet Top) * Approved MM-USA marking as Identifiable Steel	5/9/2000	----
	Welded Rebar Cage (Type M Inlet Top) * Approved MM-USA marking as Identifiable Steel	5/9/2000	----



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
EJI-5 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Ardmore Foundry 270 Redwing Road Ardmore, OK 73401		
	Grate - Cast Iron, HS25 Loading 5355M5 Two Piece Vane Grate (535544, 535545) <i>* Approved MM-USA marking as Identifiable Steel</i>		1986-011
JERDW 15	Jerdon Welding, 409 Wiconisco Street, P.O. Box 322, Wiconisco, PA 17097		
	Frame - Welded Steel Inlet		2001-041Q
	Grade Adjustment Riser - Structural Steel Types 1 or 2: RC45M		2001-041Q
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 682 Quaker Valley Road Bedford, PA 15522		
	Anti-Vortex Device		2002-050Q
	Trash Rack		2002-050Q
LANE3 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143		
	Anti-Vortex Device		2002-049Q
	Trash Rack		2002-049Q
LANE4 15 Plant	Lane Enterprises, Inc, 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 377 Crooked Lane King of Prussia, PA 19406		
	Anti-Vortex Device		2002-068Q
	Trash Rack		2002-068Q



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605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
LCG-1 15	Laurel Custom Grating, LLC - An MLP Company, 18 Mount Pleasant Road, Scottsdale, PA 15683		
Plant	800 Brown Street Everson, PA 15631		
	<i>Formerly listed as MLP Steel, LLC (MLP-1 15)</i>		
	Frame - Welded Steel Inlet		1987-416
	Frame - Welded Steel Inlet Angle		1987-416
	Grade Adjustment Riser - Structural Steel Types 1 or 2: RC-45M		1987-416
	Grate - Type D-H Steel		1987-416
	Grate - Welded Steel		1987-416
	Grate - Welded Steel Bicycle Safe		1987-416
	Vane Grate - Welded Steel		1987-416
	<i>May be used outside of the travel lanes, at the edge of outside shoulders, swales, wide median swales, and infield areas. Not approved for HS-25 loading.</i>		
MANWF_1	Mann Welding & Fabrication LLC, 2755 Schukraft Road, Quakertown, PA 18951		
5			
	Anti-Vortex Device		2014-061Q
	Trash Rack		2014-061Q
MILES 15	Miles Foundry, 301 Bedford Street, Clarks Summit, PA 18411		
	Frame - Welded Steel Inlet		----
	Grade Adjustment Riser - Structural Steel Types 1 or 2: RC45M		----
	Grate - Type D-H Steel		----
	Grate - Welded Steel		----
	Grate - Welded Steel Bicycle Safe		----
	Grate and Frame - Cast Iron, HS20		----
	Loading		----
	<i>Use outside of travel lanes only.</i>		



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605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
MORGA 15 Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067			
Anti-Vortex Device			2017-058Q
Frame - Welded Steel Inlet		7/11/1983	----
	* Approved MM-USA marking as Identifiable Steel		
Frame - Welded Steel Inlet Angle		7/11/1983	----
	* Approved MM-USA marking as Identifiable Steel		
Grade Adjustment Riser - Structural Steel	Types 1 or 2: RC45M	7/11/1983	----
Grate - Type D-H Steel		7/11/1983	----
	* Approved MM-USA marking as Identifiable Steel		
Grate - Welded Steel		7/11/1983	----
	* Approved MM-USA marking as Identifiable Steel		
Grate - Welded Steel Bicycle Safe		7/11/1983	----
	* Approved MM-USA marking as Identifiable Steel		
Trash Rack			2017-058Q
Vane Grate - Welded Steel		7/11/1983	----
	<i>May be used outside of the travel lanes, at the edge of outside shoulders, swales, wide median swales, and infield areas. Not approved for HS-25 loading.</i> Morgan's Welding Structural Steel Vane Grate PennDOT Approved Drawing		
Welded Rebar Cage (Type S Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type C Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type C-Alt Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type DH Inlet Top)		7/11/1983	----
Welded Rebar Cage (Type M Inlet Top)		7/11/1983	----



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605.2(a) Inlet Grates and Frames

Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
NEENA 15 Neenah Foundry, Neenah Enterprises, Inc., 2121 Brooks Ave., Neenah, WI 54956 https://groupnei.com/			
Grade Adjustment Riser - Structural Steel	Grate #3573-0007, Type Q, Type 1 or 2: RC45M		1996-273
Grade Adjustment Riser - Structural Steel	Grate #3573-3000, Type L, Type 1 or 2: RC45M		1998-010
Grate - Welded Steel Bicycle Safe	Grate #3573-0007, Type Q		1996-273
Grate - Welded Steel Bicycle Safe	Grate #3573-3000, Type L		1998-010
Grate and Frame - ADA Acceptable	Grate #3573-0007, Type Q		1996-273
Grate and Frame - Cast Iron, HS20 Loading			----
<i>Use outside of travel lanes only. Provides HS25 Grate</i>			
Grate and Frame - Cast Iron, HS25 Loading	Frame #3573-2000, Type C		1996-188
Grate and Frame - Cast Iron, HS25 Loading	Frame #3574-2000, Type M		1996-189
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-0002		1996-187
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-0007, Type Q		1996-273
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-0008		1996-274
Grate and Frame - Cast Iron, HS25 Loading	Grate #3573-3000, Type L		1998-010



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Last Revised: 1/18/2023

Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
STAAR 15	STAAR Distributing, LLC, 560 Myrtle Street, Reynoldsville, PA 15851		
Facility	130A Satterlee Road DuBois, PA 15801		
	Frame - Type C, Welded Structural Steel		2016-012Q
	Frame - Type M, Welded Structural Steel		2016-013Q
	Grate - Type D-H Steel		2016-011Q
	Grate - Welded Steel		2016-009Q
	Grate - Welded Steel Bicycle Safe		2016-010Q
TDFSV 15	TDF Services, Inc., P.O. Box 111, Oakmont, PA 15139		
	Frame - Welded Steel Inlet		2000-005Q
	Grade Adjustment Riser - Structural Steel		2000-005Q
	<i>Types 1 or 2: RC45M</i>		
	Grate - Welded Steel		2000-005Q
	Grate - Welded Steel Bicycle Safe		2000-005Q



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605.2(a) Inlet Grates and Frames

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Steel Products Procurement Act Applies [Standard Drawing RC-45M \(Publication 72M\)](#)

Trash Racks and Anti-Vortex Devices per [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Letter Date	Ref. No.
WINEC 15 Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143			
Frame - Welded Steel Inlet	Type C: RC-45M		2018-258Q
* Approved MM-USA marking as Identifiable Steel			
Frame - Welded Steel Inlet	Type M: RC-45M		2018-259Q
* Approved MM-USA marking as Identifiable Steel			
Frame - Welded Steel Inlet Angle	Type C Light Angle: RC-45M		2018-250Q
* Approved MM-USA marking as Identifiable Steel			
Frame - Welded Steel Inlet Angle	Type DH Level: RC-45M		2018-251Q
* Approved MM-USA marking as Identifiable Steel			
Frame - Welded Steel Inlet Angle	Type DH Sloped: RC-45		2018-252Q
* Approved MM-USA marking as Identifiable Steel			
Frame - Welded Steel Inlet Angle	Type M Light Angle: RC-45M		2018-249Q
* Approved MM-USA marking as Identifiable Steel			
Frame - Welded Steel Inlet Angle	Type S Light Angle: RC-45M		2018-253Q
* Approved MM-USA marking as Identifiable Steel			
Grade Adjustment Riser - Structural Steel	Type 1: RC-45M		2018-211Q
* Approved MM-USA marking as Identifiable Steel			
Grade Adjustment Riser - Structural Steel	Type 2: RC-45M		2018-212Q
* Approved MM-USA marking as Identifiable Steel			

605.2(a) Junction Box Frames

Last Revised: 9/27/2022

Steel Products Procurement Act Applies.

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
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605.2(a) Junction Box Frames

Last Revised: 9/27/2022

Steel Products Procurement Act Applies.

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
FADD5 15	Faddis Concrete Products, 2206 Horseshoe Pike, Honey Brook, PA 19344	http://www.faddis.com/
Facility	210 Hinterleiter Road Kutztown, PA 19530	
JB-1 Frame		2015-194Q
JB-11 Frame		2015-196Q
JB-12 Frame		2015-197Q
JB-2 Frame		2015-195Q
FISHW 15	Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963	https://fisher-welding-fabricating.hub.biz/
JB-1 Frame		1993-213
JB-11 Frame		1993-213
JB-12 Frame		1993-213
JB-2 Frame		1993-213
MORGA 15	Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067	
JB-1 Frame		----
	* Approved MM-USA marking as Identifiable Steel	
JB-11 Frame		----
JB-12 Frame		----
JB-2 Frame		----
	* Approved MM-USA marking as Identifiable Steel	



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605.2(a) Junction Box Frames

Last Revised: 9/27/2022

Steel Products Procurement Act Applies.

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
PEIWF 15 Peirce Welding & Fabricating, 170 Airport Rd., P.O. Box 369, Bethel, PA 19507		
JB-1 Frame		2001-190Q
JB-11 Frame		2001-190Q
JB-12 Frame		2001-190Q
JB-2 Frame		2001-190Q
WINEC 15 Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
JB-1 Frame		2018-254Q
* Approved MM-USA marking as Identifiable Steel		
JB-11 Frame		2018-256Q
* Approved MM-USA marking as Identifiable Steel		
JB-12 Frame		2018-257Q
* Approved MM-USA marking as Identifiable Steel		
JB-2 Frame		2018-255Q
* Approved MM-USA marking as Identifiable Steel		

605.2(a) Junction Boxes, Steel or Cast Iron

Last Revised: 11/28/2017

Steel Products Procurement Act Applies. JB-25 for underbridge lighting: [Standard Drawing BC-721M \(Publication 219M\)](#)

For JB-26 & JB-27: [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Product	Name	Ref. No.
FISHW 15 Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963 https://fisher-welding-fabricating.hub.biz/		
JB-25, Welded Steel Plate Junction Box		1993-213
JB-26, Steel Junction Box		1993-213



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Junction Boxes, Steel or Cast Iron

Last Revised: 11/28/2017

Steel Products Procurement Act Applies. JB-25 for underbridge lighting: [Standard Drawing BC-721M \(Publication 219M\)](#)

For JB-26 & JB-27: [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Product	Name	Ref. No.
FISHW 15 Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963 https://fisher-welding-fabricating.hub.biz/		
JB-27, Steel Junction Box		1993-213
HOPE1 15 Hope Electrical Products Co., Inc, 3 Fairfield Crescent, West Caldwell, NJ 07006		
JB-25, Cast Iron Junction Box	H62-180808SC, Type H6200 - Internal Recessed Flanged Box	2016-089Q
JB-26, Cast Iron Junction Box	H70-121212SC, Type H7000 - Flanged Recessed Cover Box	2016-088Q
JB-27, Cast Iron Junction Box	H70-181224SC, Type H7000 - Flanged Recessed Cover Box	2016-090Q
MORGA 15 Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067		
JB-25, Welded Steel Plate Junction Box		----
JB-26, Steel Junction Box		----
JB-27, Steel Junction Box		----
PEIWF 15 Peirce Welding & Fabricating, 170 Airport Rd., P.O. Box 369, Bethel, PA 19507		
JB-25, Welded Steel Plate Junction Box		2001-191Q
JB-26, Steel Junction Box		2001-191Q
JB-27, Steel Junction Box		2001-191Q
QUABF 15 Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/		
JB-25, Welded Steel Plate Junction Box		2013-013QA
JB-26, Steel Junction Box		2013-013QA
JB-27, Steel Junction Box		2013-013QB



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Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(a) Junction Boxes, Steel or Cast Iron

Last Revised: 11/28/2017

Steel Products Procurement Act Applies. JB-25 for underbridge lighting: [Standard Drawing BC-721M \(Publication 219M\)](#)

For JB-26 & JB-27: [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Product	Name	Ref. No.
UTILT 15 Utility Metals, P.O. Box 9054, Louisville, KY 40209-0054 http://utilitymetals.com/		
JB-25, Welded Steel Plate Junction Box		2001-179Q
JB-26, Steel Junction Box		1992-223A
JB-27, Steel Junction Box		1992-223B

605.2(b) Manhole Frames and Covers

Last Revised: 1/19/2024

Steel Products Procurement Act Applies. The 2" raised lettering on the center of the manhole covers can be STORM, SANITARY, WATER, or ELECTRIC as specified for the project. [Standard Drawing RC-39M \(Publication 72M\)](#)

Product	Name	Ref. No.
EJI-0 15 Facility EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730		
Cast Iron Hood	Product 00535750 - 5357T1 Non-mountable, Non-Adjustable Curb Inlet Hood	2008-113Q
<i>For use with Type C 3 Flange Frames, Dump no Waste!, PennDOT Type C</i> Approved MM-USA marking as Identifiable Steel		
Cast Iron Manhole Cover	Product 00189221 - 1892A Solid Cover	2008-113Q
* Approved MM-USA marking as Identifiable Steel		
Cast Iron Manhole Cover	Product 00189223 - 1892AGS Solid Cover with Gasket	2008-113Q
* Approved MM-USA marking as Identifiable Steel		
Cast Iron Manhole Cover - SEWER	Product 00188850 - 1890A2 Sanitary Sewer Cover	1986-011Q
* Approved MM-USA marking as Identifiable Steel		
Cast Iron Manhole Cover - STORM	Product 00188857 - 1890A2 Storm Cover	1986-011Q
* Approved MM-USA marking as Identifiable Steel		
Cast Iron Manhole Cover - STORM	Product 00189224 - 1892A Solid Cover Storm	2008-113Q



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605.2(b) Manhole Frames and Covers

Last Revised: 1/19/2024

Steel Products Procurement Act Applies. The 2" raised lettering on the center of the manhole covers can be STORM, SANITARY, WATER, or ELECTRIC as specified for the project. [Standard Drawing RC-39M \(Publication 72M\)](#)

	Product	Name	Ref. No.
EJI-0 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730	http://ejco.com/	
	* Approved MM-USA marking as Identifiable Steel		
	Cast Iron Manhole Frame	Product 00189013 - 1890Z1 Frame	1986-011Q
	* Approved MM-USA marking as Identifiable Steel		
	Cast Iron Manhole Frame	Product 00189115 - 1891Z1 Frame	1986-011Q
	* Approved MM-USA marking as Identifiable Steel		
	Cast Iron Manhole Frame	Product 00189211 - 1892Z 4" Tall Frame with 4 Base Flange Holes	2008-113Q
	* Approved MM-USA marking as Identifiable Steel		
	Cast Iron Manhole Frame	SELFLEVEL	2017-261Q
	<i>Approved as an alternate. Shall be installed and used per SELFLEVEL Access Assembly Installation Use and Guidelines for PennDOT</i>		
	Manhole Frame and Cover		1986-011
EJI-1 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 Youngstown Fabrication 4150 Simon Road Youngstown, OH 44512 <i>Formerly E. A. Quirn (QUIRN)</i>	http://ejco.com/	
	Manhole Frame and Cover		-----
EJI-5 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 Ardmore Foundry 270 Redwing Road Ardmore, OK 73401	http://ejco.com/	
	Cast Iron Manhole Frame	SELFLEVEL	2017-269Q
	<i>Approved as an alternate. Shall be installed and used per SELFLEVEL Access Assembly Installation Use and Guidelines for PennDOT</i>		
NEENA 15	Neenah Foundry, Neenah Enterprises, Inc., 2121 Brooks Ave., Neenah, WI 54956	https://groupnei.com/	
	Manhole Frame and Cover		1986-100



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605.2(b) Manhole Frames and Covers

Last Revised: 1/19/2024

Steel Products Procurement Act Applies. The 2" raised lettering on the center of the manhole covers can be STORM, SANITARY, WATER, or ELECTRIC as specified for the project. [Standard Drawing RC-39M \(Publication 72M\)](#)

Product	Name	Ref. No.
USF-1 15 US Foundry, 8351 NW 93rd Street, Medley, FL 33166 http://www.usfoundry.com/usfoundry/		
Cast Iron Manhole Cover	USF Type NC Cover	2018-086Q
Cast Iron Manhole Cover	USF Type RH Cover	2018-087Q
Cast Iron Manhole Frame	USF 396 Ring	2018-088Q
Cast Iron Manhole Frame	USF 755 Ring	2018-085Q

605.2(c) Manhole Steps

Last Revised: 2/27/2015

Product	Name	Ref. No.
ASTEP 15 American Step Company, Inc., 830 East Broadway, P. O. Box 137, Griffin, GA 30224-0137 http://www.americanstep.com/		
Manhole Step	Model I-11	1996-095
Manhole Step	Model I-11 NCR	1998-093A
Manhole Step	Model I-13	1996-095
Manhole Step	Model LML-11	1996-095
Manhole Step	Model LML-11 NCR	1998-093A
Manhole Step	Model LML-13	1996-095
Manhole Step	Model LML-13 NCR	1998-093A
Manhole Step	Model ML-10	1996-095
Manhole Step	Model ML-10 NCR	1998-093A
Manhole Step	Model ML-11	1996-095
Manhole Step	Model ML-11 NCR	1998-093B
Manhole Step	Model ML-13	1996-095
Manhole Step	Model ML-13 NCR	1998-093A
Manhole Step	Model MSN-10	1996-095
Manhole Step	Model MSN-13	1996-095
Manhole Step	Model SML-13	1996-095
Manhole Step	Model SML-13 NCR	1998-093B



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605.2(c) Manhole Steps

Last Revised: 2/27/2015

Product	Name	Ref. No.
BOWCN 15 Bowco Industries, Inc., 155 S. Hazel Dell Way, Canby, OR 97013		
Manhole Step	Bowco Model 93810 (PP coated, orange)	1988-242
Manhole Step	Bowco Model 93813	1993-059
Manhole Step	Bowco Model 93813-TL	1993-059
LANEC 15 Lane International Corporation, 10758 S.W. Manhasset Drive, P. O. Box 925, Tualatin, OR 97062		
Manhole Step	10" Model P-10938	1992-026
Manhole Step	14" Model P-14850	1992-026
MAIND 15 M A Industries, Inc., Kelley & Dividend Drive, P. O. Box 2322, Peachtree City, GA 30269 http://maind.com/		
Manhole Step	Plastic Coated Manhole Step	-----
PAINS 15 Pennsylvania Insert Corporation, P. O. Box 199, Bridge Street, Spring City, PA 19475 http://www.pennsylvaniainsert.com/		
Manhole Step	Model 10-R	1993-246
Manhole Step	Model 10-S	1993-246
Manhole Step	Model 11-R	1993-246
Manhole Step	Model 11-S	1993-246
Manhole Step	Model 13-R	1993-246
Manhole Step	Model 13-S	1993-246

605.2(d) Endwall Form (Polyethylene Stay-in-Place Form)

Last Revised: 1/13/2020

Approved product alternative to Section 605.2(d), for cast-in-place endwalls and precast endwalls, as listed in Section 714.

Product	Name	Ref. No.
STEP2 15 Hartman Products, P.O. Box 7702, Pittsburgh, PA 15215 https://hartmanendwalls.site/wp-content/uploads/2018/09/PA_State_specs.pdf		
Facility	Step 2 Company 10010 Aurora-Hudson Road Streetsboro, OH 44241	
Endwall Form (Approved Product Alternative for Type D-W Endwall)	Hartman EW System	2001-160



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4/22/2024 8:29:36AM

Section 605: Endwalls, Inlets, Manholes, and Spring Boxes

605.2(d) Endwall Form (Polyethylene Stay-in-Place Form)

Last Revised: 1/13/2020

Approved product alternative to Section 605.2(d), for cast-in-place endwalls and precast endwalls, as listed in Section 714.

	Product	Name	Ref. No.
STEP2 15 Facility	Hartman Products, P.O. Box 7702, Pittsburgh, PA 15215 Step 2 Company 10010 Aurora-Hudson Road Streetsboro, OH 44241	https://hartmanendwalls.site/wp-content/uploads/2018/09/PA_State_specs.pdf	

The alternate "Hartman EW System for Endwalls" is Provisionally Approved under ECMS Provisional Special Provision c06052 ITEM 9605-2300 (ITEM 9605-0300) Endwall Stay-In-Place Form Systems.



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Section 606: Grade Adjustment of Existing Misc. Structures

606.2(a) Manhole and Inlet Extensions

Last Revised: 8/15/2019

Steel Products Procurement Act applies.

Inlet Extensions also are listed in Section 605.2(a) as Structural Steel Grade Adjustable Riser (Types 1 or 2: RC 45M)

For Standard Drawings of Precast Concrete and Structural Steel Grade Adjustment Rings/Risers, see RC-39M

Product	Name	Letter Date	Ref. No.
AMEHP 15	American Highway Products, Ltd., 11723 Strasburg Bolivar Road NW, Bolivar, OH 44612 http://www.ahp1.com/index.php Utility Hole Adjustable Extension Ring		1979-010
EJI-1 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ Youngstown Fabrication 4150 Simon Road Youngstown, OH 44512 Formerly E. A. Quirn (QUIRN)		
	Inlet Extension * Approved MM-USA marking as Identifiable Steel	7/3/1995	----
	Utility Hole Adjustable Extension Ring * Approved MM-USA marking as Identifiable Steel		1988-341
EJI-2 15 Plant	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439 http://ejco.com/ 3331 Co Road 160 Millersburg, OH 44654		
	Approved Product Alternatives <i>Alternate Manhole Extension Designs are Provisionally Approved under: HIGH DENSITY POLYETHYLENE MANHOLE (Utility Hole) EXTENSIONS CMS Special Provision S00(PD06051A) and ECMS Special Provision P-C06051-A. RECYCLED RUBBER MANHOLE (Utility Hole) AND INLET EXTENSIONS CMS Special Provision S00(PD06061A) and ECMS Special Provision P-C06061-A.</i>		1999-154
JERDW 15	Jerdon Welding, 409 Wiconisco Street, P.O. Box 322, Wiconisco, PA 17097		
	Inlet Extension		2001-041Q
	Utility Hole Adjustable Extension Ring		2001-041Q



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Section 606: Grade Adjustment of Existing Misc. Structures

606.2(a) Manhole and Inlet Extensions

Last Revised: 8/15/2019

Steel Products Procurement Act applies.

Inlet Extensions also are listed in Section 605.2(a) as Structural Steel Grade Adjustable Riser (Types 1 or 2: RC 45M)

For Standard Drawings of Precast Concrete and Structural Steel Grade Adjustment Rings/Risers, see RC-39M

Product	Name	Letter Date	Ref. No.
JSPIN 15 Facility	JSP International, LLC, 1285 Drummers Lane, Suite 301, Wayne, PA 19087 http://www.jsp.com/ 1285 Drummers Lane, Suite 301 Wayne, PA 19087		
	Approved Product Alternatives <i>Cross-Linked Expanded Polyethylene Conditional Approval</i>	Pro-Ring 36 Series Manhole Ring	2014-031
	Approved Product Alternatives <i>Cross-Linked Expanded Polyethylene Conditional Approval</i>	Pro-Ring 40 Series Manhole Ring	2014-031
LADTC 15	Ladtech, Inc., 6704 Meadowlark Court, Lino Lakes, MN 55038 http://ladtech.com/		
	Approved Product Alternatives <i>Alternate Utility Hole Extension Designs are Provisionally Approved under: HIGH DENSITY POLYETHYLENE MANHOLE (Utility Hole) EXTENSIONS CMS Special Provision S00(PD06051A) and ECMS Special Provision P-C06051-A. RECYCLED RUBBER MANHOLE (Utility Hole) AND INLET EXTENSIONS CMS Special Provision S00(PD06061A) and ECMS Special Provision P-C06061-A.</i>	HDPE Grade Adjustment Ring	1999-008
LCG-1 15 Plant	Laurel Custom Grating, LLC - An MLP Company, 18 Mount Pleasant Road, Scottsdale, PA 15683 https://laurelcustomgrating.com/ 800 Brown Street Everson, PA 15631 <i>Formerly listed as MLP Steel, LLC (MLP-1 15)</i>		
	Inlet Extension		1987-146
MORGA 15	Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067		
	Inlet Extension		----
	Utility Hole Adjustable Extension Ring		----



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Section 606: Grade Adjustment of Existing Misc. Structures

606.2(a) Manhole and Inlet Extensions

Last Revised: 8/15/2019

Steel Products Procurement Act applies.

Inlet Extensions also are listed in Section 605.2(a) as Structural Steel Grade Adjustable Riser (Types 1 or 2: RC 45M)

For Standard Drawings of Precast Concrete and Structural Steel Grade Adjustment Rings/Risers, see RC-39M

Product	Name	Letter Date	Ref. No.
ROSST 15 Ross Technology Corporation, 104 North Maple Avenue, P.O. Box 646, Leola, PA 17540 http://www.rosstechnology.com/			
	Inlet Extension		1982-083
	Utility Hole Adjustable Extension Ring		1982-084
THOMA 15 J. Thomas, Ltd., 300 Richardson Drive, Lancaster, PA 17603 http://www.jthomaslimited.com			
	Catch Basin		1982-100
	Utility Hole Adjustable Extension Ring		1982-101
UNDTE 15 Underground Technologies, LLC, 2546 Elliot Drive, Troy, MI 48083			
Approved Product Alternatives <i>Conditional Approval</i>	UGT ManHole Elevation System		2011-094



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 7/25/2023

Type CP: Perforated single wall corrugated pipe.

Type SP: Perforated dual wall pipe with outer wall corrugated and inner wall smooth.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Ty	Pipe Size	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 173 Industrial Park North Muncy, PA 17756	http://www.ads-pipe.com/en/		
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	Type SP	4", 6", 8"	2007-191QABC
	Corrugated PE Pipe, Perforated	Type SP	12"	1995-304
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 1 William Donnelly Parkway Waverly, NY 14892 Formerly Hancor, Inc. (HANC1 15)	http://www.ads-pipe.com/en/		
	Corrugated PE Pipe, Perforated		4", 6", 8"	1985-064
	Corrugated PE Pipe, Perforated		4"	1987-015
	Corrugated PE Pipe, Perforated	Type CP	10", 12", 15"	1995-284
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Old Route 30 West Wooster, OH 44691	http://www.ads-pipe.com/en/		
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112
	Corrugated PE Pipe, Perforated	Type SP	12"	1995-304



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 7/25/2023

Type CP: Perforated single wall corrugated pipe.

Type SP: Perforated dual wall pipe with outer wall corrugated and inner wall smooth.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Ty	Pipe Size	Ref. No.	
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Ludlow, MA	http://www.ads-pipe.com/en/			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051	
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112	
	Corrugated PE Pipe, Perforated	ADS N-12	Type SP	12"	1995-304
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Buena Vista, VA	http://www.ads-pipe.com/en/			
	Corrugated PE Pipe, Perforated	Type CP	4", 6"	1980-051	
	Corrugated PE Pipe, Perforated	Type CP	8", 10", 12", 15"	1981-112	
	Corrugated PE Pipe, Perforated	ADS N-12	Type SP	12"	1995-304
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Logan Township, NJ	http://www.ads-pipe.com/en/			
	Corrugated PE Pipe, Perforated	Type CP	4"	2019-069Q	
	Corrugated PE Pipe, Perforated	Type CP	6"	2019-070Q	
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)	http://www.ads-pipe.com/en/			
	Corrugated PE Pipe, Perforated		4", 6", 8"	1985-064	
	Corrugated PE Pipe, Perforated		4"	1987-015	
	Corrugated PE Pipe, Perforated	Type CP	10", 12", 15"	1995-284	



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 7/25/2023

Type CP: Perforated single wall corrugated pipe.

Type SP: Perforated dual wall pipe with outer wall corrugated and inner wall smooth.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Ty|	Pipe Size	Ref. No.
BAUGH 15 Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879 http://www.baughmantile.com/				
Corrugated PE Pipe, Perforated		Type CP	4", 6", 8", 10", 12", 15"	2000-041Q
Corrugated PE Pipe, Perforated		Type SP	4", 6", 8", 10", 12", 15"	2000-042Q
BLUDI 15 Blue Diamond Industries, LLC, 3399 Tates Creek Road, Suite 110, Lexington, KY 40502 http://www.bdiky.com/				
Corrugated PE Pipe, Perforated		Type SP	4", 6", 8"	2007-055Q
DRAPR 15 Haviland Drainage Products, 100 West Main Street, PO Box 97, Haviland, OH 45851 http://haviland-drainage.com				
Corrugated PE Pipe, Perforated <i>NTPEP Facility Audit: THP-2021-01-049</i>		Type CP	4", 8", 10", 12"	2000-125Q
Corrugated PE Pipe, Perforated		Type SP	8", 10", 12", 15"	2000-125Q
Corrugated PE Pipe, Perforated		Type CP	6"	2001-167Q
Corrugated PE Pipe, Perforated	Smooth-Flow	Type SP	6"	2022-164Q
Corrugated PE Pipe, Perforated	Smooth-Flow	Type SP	4"	2022-165Q
LANE6 15 Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/				
Plant 34 Strohm Road Shippensburg, PA 17257				
Corrugated PE Pipe, Perforated		Type SP	6", 8", 10", 12", 15"	1997-182
Corrugated PE Pipe, Perforated		Type CP	4", 6"	2009-118QAB
Corrugated PE Pipe, Perforated		Type CP	8"	2010-031Q



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)3 Corrugated Polyethylene (PE) Pipe (Sizes 4" to 15")

Last Revised: 7/25/2023

Type CP: Perforated single wall corrugated pipe.

Type SP: Perforated dual wall pipe with outer wall corrugated and inner wall smooth.

Thermoplastic pipe fittings, gaskets, and couplers for joints are not listed in Bulletin 15. Approved thermoplastic pipe manufacturers may also provide additional fittings, gaskets, or couplers to meet site specific project requirements.

Product	Name	AASHTO Pipe Ty	Pipe Size	Ref. No.
LANE7 15 Plant Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 510 Kents Lane Wytheville, VA 24382				
Corrugated PE Pipe, Perforated	HD100	Type CP	4"	2017-146Q
Corrugated PE Pipe, Perforated	HD100	Type CP	6"	2017-147Q

610.2(a)4 Polyvinyl Chloride (PVC) Pipe (Sizes 4" to 15")

Last Revised: 2/27/2015

Product	Name	Pipe Size	Ref. No.
CON01 15 Plant Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Montgomery, AL			
PVC Pipe, Perforated	Circular Perforated	4"	1987-196
PVC Pipe, Perforated	Circular Perforated	6"	1987-197
PVC Pipe, Perforated	Perforated	4"	1986-181A

NP&P0 15 National Pipe & Plastics, Inc., 3421 Old Vestal Road, Vestal, NY 13850 <http://nationalpipe.com/>

PVC Pipe, Perforated	SDR 35 Perforated	4", 6", 8", 10", 12", 15"	1991-266ABCDEF
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610.2(a)5 Acrylonitrile-Butadiene Styrene (ABS) Pipe

Last Revised: 4/20/2015

Product	Name	Pipe Size	Ref. No.
CON01 15 Plant Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Montgomery, AL			
ABS Pipe, Perforated		4"	1986-180A
ABS Pipe, Perforated		6"	1986-180C



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)7 Corrugated Steel Pipe, Metallic Coated

Last Revised: 6/30/2017

Product	Name	Pipe Size	Ref. No.
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Palmer, MA		http://www.conteches.com/
	Perforated	6", 8", 10"	1991-327
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Greencastle, PA		http://www.conteches.com/
	Perforated	6", 8", 10"	1991-327
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108		http://www.culvertsinc.com/Pages/default.aspx
	Perforated		----
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 682 Quaker Valley Road Bedford, PA 15522		http://www.lane-enterprises.com/
	Perforated		----

610.2(a)8 Corrugated Aluminum Alloy Pipe

Last Revised: 6/30/2017

Product	Name	Pipe Size	Ref. No.
CON08 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Palmer, MA		http://www.conteches.com/
	Perforated	6", 8", 10"	1991-327
CON12 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 Greencastle, PA		http://www.conteches.com/
	Perforated	6", 8", 10"	1991-327
CULVE 15	Culverts, Inc., 330 Pittsburgh Ave., P.O. Box 271, Coraopolis, PA 15108		http://www.culvertsinc.com/Pages/default.aspx
	Perforated		----
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 682 Quaker Valley Road Bedford, PA 15522		http://www.lane-enterprises.com/
	Perforated		----



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Section 610: Pipe Underdrain and Pavement Base Drain

610.2(a)9.a Prefabricated Pavement Base Drains

Last Revised: 8/1/2018

Product	Name	Pipe Size	Ref. No.
AMEWD 15 American Wick Drain Corporation, 1209 Airport Road, Monroe, NC 28110 http://www.americanwick.com/			
Pavement Base Drain	Sitedrain 6600	12", 18"	2001-117Q



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Section 615: Subsurface Drain Outlets

Corrugated PE Pipes: 4", 6", 8", and 10": AASHTO M 252 Standard Specification for Corrugated Polyethylene Drainage Pipe

* Minimum Pipe Stiffness - Type S: 50 psi @ 5% deflection

Corrugated PE Pipes: 12" and 15": AASHTO M 294 Standard Specification for Corrugated Polyethylene Pipe

* Minimum Pipe Stiffness @ 5% deflection - 12": 50 psi; 15": 42 psi

PVC Outlet Pipes: 4", 6", and 8": ASTM D758 Standard Specification for Smooth-Wall PVC Plastic Underdrain Systems for Highway, Airport, and Similar Drainage

* Minimum Pipe Stiffness - Type PS 46: 46 psi @ 5% deflection

PVC Outlet Pipes: 4", 6", 8", 10", 12", 15": ASTM D3034 Standard Specification for Type PSM PVC Sewer Pipe and Fittings

* Minimum Pipe Stiffness - Type SDR 35: 46 psi @ 5% deflection

615.2 Subsurface Drain Outlets (Solid 4" to 15")

Last Revised: 12/1/2023

Product	Name	AASHTO Pipe Ty|	Pipe Size	Ref. No.
ADS-1 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 http://www.ads-pipe.com/en/ 173 Industrial Park North Muncy, PA 17756			
Corrugated PE Outlet Pipe, Non-perforated	N-12 WT IB (Model Number 15850020IB)	Type S	15"	1995-322
<i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>				
Corrugated PE Outlet Pipe, Non-perforated	N-12 WT IB (Watertight)	Type S	12"	1995-304
<i>Meets the AASHTO M 294 pipe stiffness requirement of 50 psi @ 5% deflection.</i>				
Corrugated PE Outlet Pipe, Non-perforated	N-12 WT IB (Watertight)	Type S	4", 6", 8"	2007-191QABC
<i>Meets the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection for 4", 6", and 8" pipes.</i>				
ADS-1015 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 http://www.ads-pipe.com/en/ 1 William Donnelly Parkway Waverly, NY 14892 <i>Formerly Hancor, Inc. (HANC1 15)</i>			
Corrugated PE Outlet Pipe, Non-perforated	N-12 WT IB (Model Number 15850020IB)	Type S	15"	1995-322
<i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 615: Subsurface Drain Outlets

615.2 Subsurface Drain Outlets (Solid 4" to 15")

Last Revised: 12/1/2023

Product	Name	AASHTO Pipe Ty|	Pipe Size	Ref. No.
ADS-1115 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 400 E High Street London, OH 43140	http://www.ads-pipe.com/en/		
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>	N-12 WT IB (Model Number 15850020IB) Type S	15"	2021-215Q
ADS-2 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Old Route 30 West Wooster, OH 44691	http://www.ads-pipe.com/en/		
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>	N-12 WT IB (Model Number 15850020IB) Type S	15"	1995-322
ADS-3 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Ludlow, MA	http://www.ads-pipe.com/en/		
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>	N-12 WT IB (Model Number 15850020IB) Type S	15"	1995-322
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 50 psi @ 5% deflection for 12" pipes.</i>	N-12 WT IB (Watertight) Type S	12"	1995-304
ADS-4 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Buena Vista, VA	http://www.ads-pipe.com/en/		
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>	N-12 WT IB (Model Number 15850020IB) Type S	15"	1995-322
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 50 psi @ 5% deflection for 12" pipes.</i>	N-12 WT IB (Watertight) Type S	12"	1995-304



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Section 615: Subsurface Drain Outlets

615.2 Subsurface Drain Outlets (Solid 4" to 15")

Last Revised: 12/1/2023

Product	Name	AASHTO Pipe Ty|	Pipe Size	Ref. No.
ADS-6 15 Plant	Advanced Drainage Systems Inc., 4640 Trueman Blvd, Hilliard, OH 43026 Logan Township, NJ	http://www.ads-pipe.com/en/		
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>	N-12 WT IB (Model Number 15850020IB) Type S	15"	2020-127
ADS-8 15 Plant	Advanced Drainage Systems, Inc., 4640 Trueman Blvd., Hilliard, OH 43026 Findlay South Plant #37 12370 County Road 172 Findlay, OH 45840 Formerly Hancor, Inc. (HANC0 15)	http://www.ads-pipe.com/en/		
	Corrugated PE Outlet Pipe, Non-perforated <i>Meets the AASHTO M 294 pipe stiffness requirement of 42 psi @ 5% deflection for 15" pipes.</i>	N-12 WT IB (Model Number 15850020IB) Type S	15"	1995-322
BAUGH 15	Baughman Tile Company, 8516 Township Rd. #137, Paulding, OH 45879	http://www.baughmantile.com/		
	Corrugated PE Outlet Pipe, Non-perforated <i>The 4", 6", 8", and 10" pipes meet the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection. The 12" pipe meets the AASHTO M 294 pipe stiffness requirement of 50 psi and the 15" pipe meets the 42 psi requirement.</i>	Type S	4", 6", 8", 10", 12", 15"	2000-042Q
	Outlet Pipe	PE Pipe, Smoothline Type S	4" to 15"	2000-043Q
BLUDI 15	Blue Diamond Industries, LLC, 3399 Tates Creek Road, Suite 110, Lexington, KY 40502	http://www.bdiky.com/		
	Corrugated PE Outlet Pipe, Non-perforated <i>The 4", 6", and 8" pipes meet the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection.</i>	Type S	4", 6", 8"	2007-055Q



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Section 615: Subsurface Drain Outlets

615.2 Subsurface Drain Outlets (Solid 4" to 15")

Last Revised: 12/1/2023

Product	Name	AASHTO Pipe Ty|	Pipe Size	Ref. No.
DRAPR 15 Haviland Drainage Products, 100 West Main Street, PO Box 97, Haviland, OH 45851 http://haviland-drainage.com				
Corrugated PE Outlet Pipe, Non-perforated		Type S	8", 10", 12", 15"	2000-125Q
<i>The 8", and 10" pipes meet the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection. The 12" pipe meets the AASHTO M 294 pipe stiffness requirement of 50 psi and the 15" pipe meets the 42 psi requirement.</i>				
Corrugated PE Outlet Pipe, Non-perforated	Smooth-Flow	Type S	6"	2022-164Q
<i>The 6" pipe meet the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection.</i>				
Corrugated PE Outlet Pipe, Non-perforated	Smooth-Flow	Type S	4"	2022-165Q
<i>The 4" pipe meet the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection.</i>				
LANE6 15 Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/				
Plant	34 Strohm Road Shippensburg, PA 17257			
Corrugated PE Outlet Pipe, Non-perforated		Type S	6", 8", 10", 12", 15"	1997-182
<i>The 6", 8", and 10" pipes meet the AASHTO M 252 pipe stiffness requirement of 50 psi @ 5% deflection. The 12" pipe meets the AASHTO M 294 pipe stiffness requirement of 50 psi @ 5% deflection and 15" pipe meets the 42 psi requirement.</i>				
NP&P0 15 National Pipe & Plastics, Inc., 3421 Old Vestal Road, Vestal, NY 13850 http://nationalpipe.com/				
Outlet Pipe	PVC SDR-26		4", 6", 8", 10", 12", 15"	1997-120ABCDEF
PVC Outlet Pipe, Non-perforated, SDR 35	DURA-FLOW SDR-35		4", 6", 8", 10", 12", 15"	1991-266
<i>Meets ASTM D3034 pipe stiffness requirement of 46 psi for 4" to 15" pipe diameters.</i>				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 616: End Sections and Slope Pipe Fittings

616.2(a) Concrete End Sections

For approved precast concrete end sections, see 601.2(a)3a.

616.2(b) Steel End Sections, Metallic Coated

Last Revised: 7/6/2015

Approved steel pipe manufacturers in Section 601.2(a)4b may also provide steel end sections and slope pipe fittings.

Product	Name	Pipe Size	Ref. No.
J&J-D 15	J & J Drainage Products Company, 110 N Pershing, PO Box 0829, Hutchinson, KS 67504-0829 http://jjdrainage.com/		
Steel End Section			1990-262
JENBS 15	Jensen Bridge & Supply Company, 400 Stoney Creek Drive, Sandusky, MI 48471 http://jensenbridge.com/		
Steel End Section			2006-011Q

616.2(c) Aluminum Alloy End Sections

Last Revised: 2/27/2015

Approved aluminum pipe manufacturers in Section 601.2(a)4c may provide aluminum alloy end sections and slope pipe fittings.

Product	Name	Pipe Size	Ref. No.
J&J-D 15	J & J Drainage Products Company, 110 N Pershing, PO Box 0829, Hutchinson, KS 67504-0829 http://jjdrainage.com/		
Aluminum Alloy End Section			1990-263

616.2(d) Steel Slope Pipe Fittings

Approved steel and aluminum pipe manufacturers in Sections 601.2(a)4b and 601.2(a)4c may provide end sections and slope pipe fittings.

616.2(f) Thermoplastic End Sections - Outlet Ends Only

Approved thermoplastic pipe manufacturers in Section 601.2(a)6 may provide thermoplastic end sections for the outlet end.

1. For end sections manufactured by the thermoplastic manufacturer, provide a CS-4171 Certificate of Compliance form for the end sections.
2. For end sections manufactured by a third party, the thermoplastic pipe manufacturer must supply letter certifying the end sections meet the pipe manufacturer's requirements and all required specifications with each shipment.



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Section 617: Slotted Drains

617.2 Slotted Drains

Last Revised: 7/6/2015

Product	Name	Ref. No.
ABT01 15 ABT Inc., 259 Murdock Road, Troutman, NC 28166 http://www.abtdrains.com/		
Slotted Drain	Polydrain	1997-129
ACOPP 15 ACO Polymer Products, Inc., 12080 Ravenna Road, P. O. Box 245, Chardon, OH 44024 http://acousa.com/		
Slotted Drain	K100S Trenchdrain	2003-086Q
Slotted Drain	S100K Powerdrain	2003-084Q
Slotted Drain	S300K Powerdrain	2003-085Q
CON12 15 Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/		
Plant Greencastle, PA		
Slotted Drain		-----
HUBI- 15 Hubbell Lenoir City, Inc., 3621 Industrial Park Drive, Lenoir City, TN 37771		
Slotted Drain	Polycast	1999-193Q
LANE3 15 Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/		
Plant Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143		
Slotted Drain		1980-017



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Section 619: Permanent Impact Attenuating Devices

AASHTO MASH 2016 Implementation Dates for Roadside Safety Hardware:

Type I - Anchored Backslope Terminal (Publication 72M, Drawing RC-54M) - Dec. 31, 2019

Type II - Energy Absorbing Terminals - Tangent: June 30, 2018

Type III - Non-Energy Absorbing Terminals - Dec. 31, 2019

Type IV - Gating Systems Used Where Two-Way Traffic is Present (Crash Cushion) - Dec. 31, 2018

Type V - Non-Gating Terminals Use Where Two-Way Traffic Is Present (Crash Cushion) - Dec. 31, 2018

Type VI - Gating, Non-Redirective Systems (Crash Cushion) - Dec. 31, 2018

Miscellaneous Systems

[- AASHTO MASH Implementation Information Resources with MASH Q&A](#)

CS-4171 Certificate of Compliance Forms: Only a single CS-4171 Certificate of Compliance form is required for an end terminal or crash cushion kit. Although parts included with these kits are typically produced by multiple manufacturers, the Bulletin 15 listed manufacturer is responsible for verifying that all parts supplied with the kit meet the required specifications and match the NCHRP 350 or MASH 2016 crash tested system. Only the supplier code of the Bulletin 15 listed manufacturer should appear in Section 2 of CS-4171 form. Steel Mill certs stating melted and manufactured in the United States are required for each part containing steel. If the kit includes an MM-USA approved part, check both the 'Identifiable Steel' and 'Unidentifiable Steel' boxes in Section 6 of the CS-4171.

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 9/1/2023

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Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
BARRS 15 Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571							
http://www.barriersystemsinc.com/							
Gate Barrier System	ArmorGuard Gate	NCHRP 350		TL-3	B-87	SGM23	2004-092Q
Type II, Energy Absorbing Flared Terminal	X-Tension	NCHRP 350		TL-3	CC-102A	SEW20b	2009-128Q
Type II, Energy Absorbing Tangent Terminal	X-Tension	NCHRP 350		TL-3	CC-102A	SEW19b	2009-128Q
<i>Note: NOT approved for contracts let after June 30, 2018. Lindsay Transportation Solutions - Installation Guide</i>							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	Universal TAU-II	NCHRP 350		TL-2, TL-3	CC-75	SCT01a	2004-083Q



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
BARRS 15 Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571							
http://www.barriersystemsinc.com/							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	X-Tension Median Attenuator System (X-MAS)	NCHRP 350		TL-3	CC-102		2009-128Q
<i>Product also referred to as the X-Tension Median End Terminal. For use in narrow medians or gore areas where guide rail is installed and crossover impacts can occur. Lindsay Transportation Solutions - Installation Guide</i>							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	X-TENUator	NCHRP 350		TL-3	CC-109	SCI23	2011-069QA
Type VI, Gating Non-Redirective Crash Cushion System	ABSORB 350	NCHRP 350		TL-2, TL-3	CC-66	SCI11b	2001-066



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
ENERG 15 Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/							
Plant Pell City, AL							
Formerly Energy Absorption Systems							
Gate Barrier System	BarrierGate	NCHRP 350		TL-3	B-25	SGM20	1993-222
Gate Barrier System	Vulcan Gate	NCHRP 350		TL-3	B-134C		----
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	QuadGuard Elite	NCHRP 350		TL-3	CC-57		1999-086
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	QuadGuard Elite M10 (24 inch)	MASH 2016		TL-3	CC-112A		2020-203Q
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	QuadGuard Elite M10 Wide	MASH 2016		TL-3	CC-112A	SCI134	2020-204Q
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	QuadGuard LMC	NCHRP 350		TL-3	CC-43	SCT02f	1998-060
<i>Effective September, 2016, the QuadGuard LMC system will no longer be manufactured. Parts are being manufactured until December, 2016. Existing inventory of QuadGuard LMC systems/parts may still be used on projects. Discontinuation Notice of Energy Absorption/Trinity Highway Products</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	REACT 350 (60 inch)	NCHRP 350		TL-3	CC-73	SCI16b	2001-169Q



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
ENERG 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001	https://www.valtir.com/					
	Pell City, AL						
	Formerly Energy Absorption Systems						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	REACT 350 (standard)		NCHRP 350	TL-3	CC-26B	SCI16a 1995-158
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	REACT M	52 3/4 in.	MASH 2016	TL-3 (62 mph)	CC-169	2022-004Q
	<i>* Manual, Inspection Checklist, FHWA Eligibility Letter, and PE Stamped Drawing</i>						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard		NCHRP 350	TL-2, TL-3	CC-35	SCT02a 1996-167
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard (wide)		NCHRP 350	TL-3	CC-42	1998-008
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard Highspeed (HS)		NCHRP 350	TL-3	CC-35E	SCT02d 2001-223Q
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard II (modified)		NCHRP 350	TL-2, TL-3	CC-35I	2009-159QA
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard M Wide (up to 69 inches)		MASH 2016	TL-3	CC-163	2021-111Q
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QUEST		NCHRP 350	TL-3	CC-87	2005-052Q
	Type VI, Gating Non-Redirective Crash Cushion System	ENERGITE III		MASH 2016	TL-3 (62 mph)	CC-164	2021-181Q

Barrels are manufactured at a facility in Sparta, TN.



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
ENERG 15	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001	https://www.valtir.com/					
Plant	Pell City, AL						
	Formerly Energy Absorption Systems						
	Type VI, Gating Non-Redirective Crash Cushion System	Fitch Universal			TL-3	CC-28	SCI06b ----
	<i>Effective November, 2016, the Fitch Universal system and replacement parts will no longer be manufactured. Existing inventory of Fitch Universal systems/parts may still be used on projects. Discontinuation Notice of Energy Absorption/Trinity Highway Products</i>						
ENTWH 15	Entwistle Company, Bigelow Street, Hudson, MA 01749	http://entwistleco.com/					
	Miscellaneous System	The Dagnet					1995-178
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708	http://www.gregorycorp.com/gccorp.htm					
	TL-5 Steel High Containment Median Barrier	Guardian 5 (G5)		MASH 2016	TL-5	B-267	SGM42 2017-271Q
	<i>Gregory Industries is the sole licensee and manufacturer of the Guardian 5 median barrier designed by ArcelorMittal USA, LLC. Note: The Guardian 5 was TL-5 crash tested in accordance with MASH 2009 and meets the MASH 2016 crash testing criteria. PE Stamped Drawings, Intended Use Guidelines, Components, and FHWA Eligibility Letter for Guardian 5</i>						



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
LEISS 15	Leiss Tool & Die, 801 North Pleasant Avenue, Somerset, PA 15501 http://leiss.com/						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (30 inch)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (36 inch)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (41-1/4 to 60 inch maximum)	MASH 2016		TL-3	CC-128	2014-029QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (Standard)	MASH 2016		TL-3	CC-128	2014-029QC
<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system. Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (30 inch)	NCHRP 350		TL-2	CC-85A	2014-029QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (36 inch)	NCHRP 350		TL-2	CC-85A	2014-029QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (41-1/4 to 60 inch maximum)	NCHRP 350		TL-2	CC-85A	2014-029QA	



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
LEISS 15	Leiss Tool & Die, 801 North Pleasant Avenue, Somerset, PA 15501 http://leiss.com/						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (Standard)	NCHRP 350	TL-2	CC-85A	SCI17b	2014-029QA
LIFPR 15	Lifetime Products, Freeport Ctr. Blding H-4, P.O. Box 160010, Clearfield, UT 84016 http://www.lifetime.com/						
	Type VI, Gating Non-Redirective Crash Cushion System	Plastic Safety Systems CrashGard	NCHRP 350	TL-3	CC-97, CC-97A		2010-305Q
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 http://www.lindsay.com/transportation-solutions 505 Crown Point Ave Omaha, NE 67110						
	Type II, Energy Absorbing Tangent Terminal	MAX-Tension TL-2	MASH 2016	TL-2	CC-134		2018-023Q
	* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for MAX-Tension TL-2 & TL-3						
	Type II, Energy Absorbing Tangent Terminal	MAX-Tension TL-3	MASH 2016	TL-3 (62 mph)	CC-133		2017-234Q
	* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for MAX-Tension TL-2 & TL-3						
	Type IV, Gating Two-Way Traffic System	MAX-Tension Median	MASH 2016	TL-3	CC-141		2018-022Q
	<i>Installation Instructions with parts identification, inspector checklist, maintenance inspection outline, and drawings: Installation Instructions w/ Parts List, Product Info, Approved Drawings for MAX-Tension Median</i>						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	Universal TAU-M	MASH 2016	TL-2, TL-3	CC-146, CC-147		2018-278Q
	<i>Approved for use on both concrete and asphalt pavements. The epoxy for the Compact Backstop and Front Cable Anchor of the TAU-M can be supplied by the manufacturer as part of the approved kit. The epoxy must meet the manufacturer's specific pull-out and shear strength requirements for the TAU-M system. Manual w/ Parts List, FHWA Eligibility Letters, Concrete & Asphalt Foundation Drawings for TAU-M</i>						



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
MORVA 15 Morgan Valley Manufacturing, 340 North Industrial Road, P. O. Box 746, Morgan, UT 84050							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (30 inch)	MASH 2016		TL-3	CC-128		2011-208QA
<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (36 inch)	MASH 2016		TL-3	CC-128		2011-208QB
<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (41-1/4 to 60 inch maximum)	MASH 2016		TL-3	CC-128		2011-208QC
<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (Standard)	MASH 2016		TL-3	CC-128		2004-015
<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system. Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (30 inch)	NCHRP 350		TL-2	CC-85A		2011-208QA
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (36 inch)	NCHRP 350		TL-2	CC-85A		2011-208QB
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (41-1/4 to 60 inch maximum)	NCHRP 350		TL-2	CC-85A		2011-208QC



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
MORVA 15 Morgan Valley Manufacturing, 340 North Industrial Road, P. O. Box 746, Morgan, UT 84050	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (Standard)	NCHRP 350	TL-2	CC-85A	SCI17b	2005-033



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
RDSYS 15 Road Systems, Inc., 3616 Old Howard County Airport Road, Big Spring, TX 79720 http://roadsystems.com/							
Type II, Energy Absorbing Flared Terminal	FLEAT-350	NCHRP 350		TL-3	CC-46	SEW14a	1998-065
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>							
Type II, Energy Absorbing Flared Terminal	FLEAT-SP	NCHRP 350		TL-3	CC-88B		2009-037Q
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>							
Type II, Energy Absorbing Flared Terminal	MFLEAT	MASH 2016		TL-3	CC-143A, CC-144B	SEW14c	2019-152Q
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH), R.G. Steel Corp. (Pulaski, PA), and Universal Industrial Sales (Pleasant Grove/Lindon, UT). Product Information Sheet, Parts Shared and Not Shared with MSKT, PE Stamped Drawing with Parts List and Assembly Notes, Inspection Checklist, FHWA Eligibility Letters, Distributor List, and Identifiable Steel (Impact Head) for MFLEAT</i>							
Type II, Energy Absorbing Tangent Terminal	BEAT-SSCC	NCHRP 350		TL-3	CC-69B	SCI13a,b	2003-118
<i>Note: NOT approved for contracts let after June 30, 2018. RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>							
Type II, Energy Absorbing Tangent Terminal	MSKT-SP-MGS (MASH Sequentially Kinking Terminal)	MASH 2016		TL-2	CC-126D		2023-126Q
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA). The SKT Impact Head used on the MSKT-SP-MGS system contains an MM-USA plate and is approved as identifiable steel. Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letters for MSKT-SP-MGS</i>							



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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
RDSYS 15 Road Systems, Inc., 3616 Old Howard County Airport Road, Big Spring, TX 79720 http://roadsystems.com/							
Type II, Energy Absorbing Tangent Terminal	MSKT-SP-MGS (MASH Sequentially Kinking Terminal)	MASH 2016		TL-3	CC-126, CC-126E, CC-126G (3-37b)		2017-294Q
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA). The SKT Impact Head used on the MSKT-SP-MGS system contains an MM-USA plate and is approved as identifiable steel. For MSKT Drawing and Assembly Instructions (See page 5 for Bill of Materials listing for MSKT). Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letters for MSKT-SP-MGS</i>							
Type II, Energy Absorbing Tangent Terminal	SKT-350	NCHRP 350		TL-3	CC-40		1998-035
<i>Note: NOT approved for contracts let after June 30, 2018. Effective January 1, 2018, Road Systems Inc. will produce only the new SKT impact head that is accepted for use on both NCHRP-350 and MASH guardrail terminals. The 350 SKT head will be discontinued when inventories are depleted and only the new enhanced SKT head version known as the MSKT will be available. The MASH MSKT guardrail terminal uses an impact head that has been crash tested and approved for use on the SKT-350 system per FHWA letter CC-130. Please note this does not convert the SKT-350 guiderail terminal to a MASH MSKT guiderail terminal. For details and images, view the notification letter below: NCHRP-350 SKT Impact Head Notification Letter (Nov. 15, 2017)</i>							
Type II, Energy Absorbing Tangent Terminal	SKT-SP	NCHRP 350		TL-3	CC-61A		2009-036Q
<i>Note: The SKT-SP system is NOT approved for contracts let after June 30, 2018. RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>							
Type IV, Gating Two-Way Traffic System	FLEAT-MT	NCHRP 350		TL-3	CC-46D	SEW16b	2003-119
<i>RSI Authorized Distributors: Gregory Industries (Canton, OH) and R.G. Steel Corp (Pulaski, PA) Identifiable Steel & Parts Supplied by Road Systems, Inc.</i>							



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 9/1/2023

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT

Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
SPIG1 15	SPIG Industry, LLC, 14675 Industrial Park Road, Bristol, VA 24202 https://spigindustry.com/sget						
	Type II, Energy Absorbing Tangent Terminal	SGET (SPIG Gating End Terminal)	MASH 2016		TL-3		2020-053Q
* Maintenance Checklist, Parts List, Installation Manual, and PE Stamped Drawings for SGET							
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	Delta Crash Cushion	MASH 2016	32	TL-3 (62 mph)	CC-167	2021-147Q
* Manual, Inspection Checklist, FHWA Eligibility Letter, and PE Stamped Drawing							
	Type VI, Gating Non-Redirective Crash Cushion System	Big Sandy (Sand Barrel System)	MASH		TL-3	CC-139	1998-143
Note: Big Sandy MASH system tested to MASH 2016 criteria per FHWA Eligibility Letter CC-139 as same system tested to NCHRP 350 criteria. Installation Instructions and FHWA Eligibility Letter for Big Sandy							



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 9/1/2023

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Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
TRIN2 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 550 East Robb Avenue Lima, OH 45801 Formerly Trinity Highway Products, LLC						
	Type II, Energy Absorbing Tangent Terminal	SoftStop	MASH 2016		TL-3	CC-115	2017-306Q
	* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for Softstop						
	Type III, Non-Energy Absorbing Terminal	SRT-350	NCHRP 350		TL-3	CC-51	2010-191A
	<i>For proper assembly, installation, maintenance, repair and replacement of the SRT family of guide rail end treatment systems: SRT-350 Assembly Instructions</i>						
Type IV, Gating Two-Way Traffic System	CAT-350	NCHRP 350		TL-3	CC-33	SEW08	1989-060
Type IV, Gating Two-Way Traffic System	MATT (Median Attenuating TREND Terminal)	MASH 2016		TL-3	CC-175		2022-055Q
MATT (Median Attenuating TREND Terminal) PE Stamped Drawing - PennDOT Approved 08/10/2022							



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 9/1/2023

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Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
TRIN3 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 2548 NE 28th Street Ft. Worth, TX 76111 Formerly Trinity Highway Products, LLC						
	Type II, Energy Absorbing Tangent Terminal	SoftStop	MASH 2016		TL-3	CC-115	2017-306Q
	<i>* Manual w/ Parts List, PE Stamped Drawings, and FHWA Eligibility Letter for Softstop</i>						
	Type IV, Gating Two-Way Traffic System	ADIEM	NCHRP 350		TL-3	CC-38	SCI09 1992-246
	Type IV, Gating Two-Way Traffic System	MATT (Median Attenuating TREND Terminal)	MASH 2016		TL-3	CC-175	2022-055Q
	<i>MATT (Median Attenuating TREND Terminal) MATT Median Attenuating TREND Terminal Assembly Manual</i>						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	FASTRACC	NCHRP 350		TL-3	CC-54H	2010-251QB
	<i>* Approved MM-USA marking as Identifiable Steel</i>						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	SHORTRACC	NCHRP 350		TL-2	CC-54A	2010-251QD
	<i>* Approved MM-USA marking as Identifiable Steel</i>						
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	TRACC	NCHRP 350		TL-2, TL-3	CC-54	2010-251QA	
<i>* Approved MM-USA marking as Identifiable Steel</i>							
Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	WIDETRACC	NCHRP 350		TL-3	CC-54D	2010-251QC	
<i>* Approved MM-USA marking as Identifiable Steel</i>							



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Section 619: Permanent Impact Attenuating Devices

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Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT

Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
TRIN7 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 Pell City, AL 35128 <i>Formerly Trinity Highway Products, LLC</i>	https://www.valtir.com/					
	Type IV, Gating Two-Way Traffic System	MATT (Median Attenuating TREND Terminal)	MASH 2016	TL-3	CC-175		2022-055Q
	<i>MATT (Median Attenuating TREND Terminal)</i> MATT Median Attenuating TREND Terminal Assembly Manual						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard M10, TL-2 (24" Width)	MASH 2016	TL-2	CC-121, CC-112C		2021-125Q
	* Manual, Product Information, FHWA Eligibility Letters, and PE Stamped Drawings for QuadGuard M10						
	Type V, Non-Gating Two-Way Traffic System (Standard Maintenance)	QuadGuard M10, TL-3 (24" Width)	MASH 2016	TL-3	CC-112, CC-112c		2018-219Q
	* Manual, Product Information, FHWA Eligibility Letters, and PE Stamped Drawings for QuadGuard M10						



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

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FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT

Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
WHIPI 15	Whip Industries, 3010 South Main Street, Fort Worth, TX 76110 http://www.whipindustries.com/						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (30 inch)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (36 inch)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (41-1/4 to 60 inch maximum)	MASH 2016		TL-3	CC-128	2014-017QC
	<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system.</i>						
	Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 100 GM (Standard)	MASH 2016		TL-3	CC-128	2014-017QC
<i>Previously approved per NCHRP 350 under approval CC-85 with no changes to system. Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion</i>							
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (30 inch)	NCHRP 350		TL-2	CC-85A	2014-017QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (36 inch)	NCHRP 350		TL-2	CC-85A	2014-017QA	
Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	SCI 70 GM (41-1/4 to 60 inch maximum)	NCHRP 350		TL-2	CC-85A	2014-017QA	



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Section 619: Permanent Impact Attenuating Devices

619.2 Permanent Impact Attenuating Devices (DM-2, Chapter 12)

Last Revised: 9/1/2023

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT

Approved; Formerly Chapter 12, Appendix C in Pub 13M - Design Manual Part 2): [Product Summary of Approved MASH 2016 End Treatments](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
WHIPI 15	Whip Industries, 3010 South Main Street, Fort Worth, TX 76110 Type V, Non-Gating Two-Way Traffic System (Low-Maintenance, Self-Restoring)	http://www.whipindustries.com/ NCHRP 350	SCI 70 GM (Standard)	TL-2	CC-85A	SCI17b	2014-017QA



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Section 621: Metal Median Barrier

621.2(a) Metal Median Barrier

Last Revised: 10/7/2019

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
GREGV 15							
Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm							
TL-5 Steel High Containment Median Barrier	Guardian 5 (G5)	MASH 2016		TL-5	B-267	SGM42	2017-271Q
<p><i>Gregory Industries is the sole licensee and manufacturer of the Guardian 5 median barrier designed by ArcelorMittal USA, LLC. Note: The Guardian 5 was TL-5 crash tested in accordance with MASH 2009 and meets the MASH 2016 crash testing criteria. PE Stamped Drawings, Intended Use Guidelines, Components, and FHWA Eligibility Letter for Guardian 5</i></p>							



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Section 622: Concrete Glare Screen

622.2 Concrete Glare Screen

For Precast Concrete Glare Screens, see Section 714.2 for approved precasters of standard glare screens (RC-59M). [Standard Drawing RC-59M \(Publication 72M\)](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 624: Right-of-Way Fence

624.2(b) Packaged Dry Concrete

Last Revised: 7/7/2015

	Product	Name	Ref. No.
CTS-1 15	CTS Cement Manufacturing Company, 12442 Knott Street, Garden Grove, CA 92841 http://www.ctscement.com/		
	Packaged Dry Concrete	Rapid Set Concrete Mix	1993-092
USCPR 15	US Concrete Products, 16 Greenmeadow Drive, Suite 111, Timonium, MD 21093 https://uscproducts.com/products/		
Plant	Baltimore, MD		
	Packaged Dry Concrete	HP Concrete (41423)	2010-319Q



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Section 626: Gabions

626.2(c) Gabion Basket

Last Revised: 7/7/2015

Steel Products Procurement Act applies.

Product	Name	Ref. No.
CESHG 15 C. E. Sheperd Company, 2221 Canada Dry Street, Houston, TX 77023 http://www.ceshepherd.com/		
Galvanized Wire Gabion		1997-190
Polyvinyl Chloride Coated Gabion		1997-190
LANE3 15 Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/		
Plant Long Span Bridge & Culvert Structural Plate, Gabion Baskets	8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143	
Galvanized Wire Gabion		1988-014
Polyvinyl Chloride Coated Gabion		2000-273Q
MACCA 15 Maccaferri Gabions, Inc., 10303 Governor Lane Blvd., Williamsport, MD 21795-3116 http://www.maccaferri.com/us/		
Galvanized Wire Gabion		1968-012
Polyvinyl Chloride Coated Gabion		1968-012
TERR1 15 Terra Aqua Inc., 1415 North 32nd Street, Ft. Smith, AR 72904		
Plant Ft. Smith, AR		
Galvanized Wire Gabion		1987-195B
Polyvinyl Chloride Coated Gabion		1987-195A
ULTGB 15 Ultimate Gabions, Inc., 500 Wood Street, P.O. Box 1002, Bristol, RI 02809		
Galvanized Wire Gabion		1998-026



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Section 627: Temporary Barrier

Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

627.2 Temporary Barriers

For Precast Concrete Barriers, see Section 714.2 for approved precasters of standard PennDOT barriers (RC-57M & RC-58M) or licensed barriers and Glare Screens (RC-59M). Also see Section 901.2 for other approved temporary barriers.

Concrete Median Barrier: [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Single Face Concrete Barrier: [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Concrete Glare Screen: [Standard Drawing RC-59M \(Publication 72M\)](#)



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**Posted:
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Section 633: Plain Concrete Mountable Curb

633.2 Preformed Cellular Polystyrene (ASTM C578)

See Section 516.2(m) for approved preformed cellular polystyrene products.



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Section 636: Asphalt Concrete Curb

636.2(c) Filler (Drawn Polyester Fibers)

Last Revised: 4/27/2015

Product	Name	Ref. No.
GFC-M 15 GFC Materials Company, 2183 Pennsylvania Ave., Apalachin, NY 13732		
Asphalt Stockpile Patching Material <i>Standard Special Provision c04861 Item 9486-001.</i>	Type 402 Polyester	1990-344B
Asphalt Wearing Course FJ-4 (SU) <i>Standard Special Provision S-b04231 Section 423-Bituminous Wearing Course FJ-4 (SU). (0.125% by weight mix, 0.2% additional AC.)</i>	Type 402 Polyester	1990-344B
Filler for Asphalt Concrete Curb Mixes	Type 402 Polyester	1990-344B
KAPEJ 15 Kapejo, Inc., P. O. Box 649, New Castle, DE 19720-0649		
Plant 35 Southgate Blvd. New Castle, DE 19720		
Asphalt Stockpile Patching Material <i>Standard Special Provision c04861 Item 9486-001.</i>	Bonifiber B	1984-014
Asphalt Wearing Course FJ-4 (SU) <i>Standard Special Provision S-b04231 Section 423-Bituminous Wearing Course FJ-4 (SU). (0.125% by weight mix, 0.2% additional AC.)</i>	Bonifiber B	1984-014
Filler for Asphalt Concrete Curb Mixes	Bonifiber B	1984-014



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Section 643: Temporary Concrete Barrier, Structure Mounted

643.2(a) Temporary Concrete Barrier, Structure Mounted

For Precast Concrete Barriers, Structure Mounted, see Section 714.2 for approved precasters of standard PennDOT barriers (BC-719M). Also see Section 901.2 for other approved temporary structured mounted barriers. [Standard Drawing of Temporary Concrete Barrier, Structure Mounted \(Pub 219M, BC-719M\)](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

643.2(c)6 Adhesive Bonding Material (use in accordance with BC-719M)

Last Revised: 11/2/2022

Use in accordance with BC-719M. [Standard Drawing of Temporary Concrete Barrier, Structure Mounted \(Pub 219M, BC-719M\)](#)

Provisional Approvals: Publication 408, Section 643.2(c)6.b.3 includes a requirement for independent Shock testing per ASTM E 488 with listed modifications and references to Standard Drawing BC-719M. The provisional approval status will remain until independent shock testing results are received and approved by PennDOT.

Product	Name	Installation Type	Spacing	Ref. No.	
ADHTC 15 Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301 http://www.atcepoxy.com/ Facility Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064	Adhesive Bonding Material	ULTRABOND HS-200	A, B	1 ft., 2 ft., 4 ft.	2004-054Q
<i>Provisionally Approved</i>	Adhesive Bonding Material	ULTRABOND HS-200	C	1 ft.	2004-054Q
<i>Provisionally Approved</i>					
ADVAC 15 Advance Coatings, 42 Depot Road, Westminster, MA 01473 http://advancecoatings.com/	Adhesive Bonding Material	KeligROUT 101-P	A, B	1 ft., 2 ft., 4 ft.	2004-123B
<i>Provisionally Approved</i>	Adhesive Bonding Material	KeligROUT 101-P	C	1 ft.	2004-123B
<i>Provisionally Approved</i>					



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 643: Temporary Concrete Barrier, Structure Mounted

643.2(c)6 Adhesive Bonding Material (use in accordance with BC-719M)

Last Revised: 11/2/2022

Use in accordance with BC-719M. [Standard Drawing of Temporary Concrete Barrier, Structure Mounted \(Pub 219M, BC-719M\)](#)

Provisional Approvals: Publication 408, Section 643.2(c)6.b.3 includes a requirement for independent Shock testing per ASTM E 488 with listed modifications and references to Standard Drawing BC-719M. The provisional approval status will remain until independent shock testing results are received and approved by PennDOT.

Product	Name	Installation Type	Spacing	Ref. No.
ITWRH 15 Plant	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/			
26501 Bourg Lès Valence	Valence, France			
Adhesive Bonding Material	Red Head A7+	A	1 ft., 2 ft., 4 ft.	2016-239Q
<i>Provisionally Approved</i>				
Adhesive Bonding Material	Red Head A7+	B	1 ft., 2 ft.	2016-239Q
<i>Provisionally Approved</i>				
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex			
Adhesive Bonding Material	Pro-Poxy 300 Fast Epoxy	A, B	1 ft., 2 ft., 4 ft.	2004-056B
<i>Provisionally Approved</i>				
Adhesive Bonding Material	Pro-Poxy 300 Fast Epoxy	C	1 ft.	2004-056B
<i>Provisionally Approved</i>				



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Section 659: High Friction Surface Treatment (HFST)

659.2(b) Binder Resin System (Binder)

Last Revised: 3/15/2024

There are other High Friction Surface Treatment Binder Resin products not listed below that are under evaluation. For a list of other resin systems that can be used on projects, contact the New Products and Innovations (NPI) Section via email at RA-pdBulletin15@pa.gov

Product	Name	Ref. No.
CCMAT 15 Facility Cornerstone Construction Material, LLC, PO Box 545, 150 SE Hamblen Road, Lee's Summit, MO 64063 101 East Walnut Street Archie, MO 64725 http://ccmaterial.com	Binder Resin System CE330 Epoxy Binder	2014-086B
EUCL2 15 Plant Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 3835 State Route 72 Kirkland, IL 60146 http://www.euclidchemical.com/	Binder Resin System Dural HFS <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 12/20/2024.</i>	2013-181Q
INT-1 15 Plant Interplastic Corporation, 1225 Willow Lake Boulevard, St. Paul, MN 55110-5145 3535 Latonia Avenue Fort Wright, KY 41025 https://interplastic.com/	Binder Resin System Silmar SIL07BA-2885H <i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 03/15/2025. The primary manufacturing plant for PennDOT projects is located in Fort Worth, KY. In cases of high demand, this product is also approved to be manufactured in Pryor, OK, Minneapolis, MN, and Hawthorne, CA.</i>	2016-105Q
KWIK1 15 Kwik Bond Polymers, 923 Teal Drive, Benicia, CA 94510 http://www.kwikbondpolymers.com	Binder Resin System PPC HFST	2013-197A
PSI-1 15 Poly-Tuff Systems International Corp., 8550 West Desert Inn Road, Suite #102-451, Las Vegas, NV 89117 https://www.polytuffus.com/	Binder Resin System E-TUFF 7097	2022-216Q
UNITX 15 Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex	Binder Resin System Pro-Poxy Type III DOT <i>This product is no longer being manufactured, but the remaining supply can be used on District projects.</i>	2014-018



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Section 659: High Friction Surface Treatment (HFST)

659.2(c) Aggregate Surface Topping (Aggregate)

The refractory grade calcined bauxite is a Project-Specific, Locally Approved Material, which is NOT listed in Bulletin 15.

Submit verification to the District Representative that the bauxite meets Pub 408, Section 659.2(c), Table B requirements for project specific, local approval as specified in Section 106.02(a)2.c of Pub 408.



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Section 664: Modular Architectural Block System

664.2(a) Modular Architectural Blocks

Last Revised: 11/5/2019

Modular architectural block systems may be used for nonstructural landscape architecture applications according to the manufacturer drawings and recommendations. An acceptable landscape architectural site cannot have structures with foundations above the aggregate base within 8 feet of the back of the block system. System construction is restricted to a height of 4 feet above grade.

Approved Licensors:

- Allan Block Corporation (Allan Block), 1994-268;
- Anchor Wall Systems (Anchor Diamond/Diamond Pro), 1995-265;
- Keystone Retaining Wall Systems (Keystone Compac & Keystone Standard), 2000-186, 2000-187;
- Risi Stone Systems (Dura Hold II), 1995-144, 1999-190Q;
- Versa-Lok Company (Versa-Lok), 2002-116

Product	Name	Ref. No.
DOREN 15 Doren, Inc., R.D. #2, Route 18, P.O. Box 55, Wampum, PA 16157		
Modular Architectural Block	Versa-Lok	2002-116Q
FADD1 15 Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
Modular Architectural Block	Dura Hold II	1999-190Q
FIZZ2 15 Fizzano Brothers Concrete Products, Inc., 201 South Phoenixville Pike, Malvern, PA 19355 http://fizzano.com/ Plant 201 S. Phoenixville Pike Malvern, PA 19355		
Modular Architectural Block	Allan Block	1994-268
MIDAP 15 Mid Atlantic Precast Inc., 401 Railroad Street, Monongahela, PA 15063		
Modular Architectural Block	Dura Hold II	1995-144
YORKB 15 York Building Products, Inc., 1020 North Hartley Street, York, PA 17404 http://www.yorkbuilding.com/		
Modular Architectural Block	Keystone Compac	2000-187Q
<i>Product information for Keystone Compac</i>		
Modular Architectural Block	Keystone Standard	2000-186Q
<i>Product information for Keystone Standard</i>		



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Section 678: Permanent Barricades

678.2(a)1 Wood Posts (Pressure Treated)

Last Revised: 7/7/2015

Product	Name	Ref. No.
AMETS 15 American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/ Wood Post (Pressure Treated)		1995-271
GRE-1 15 Great Southern Wood Preserving, P. O. Box 610, Abbeville, AL 36310 http://greatsouthernwood.com/ Plant Hagerstown, MD Wood Post (Pressure Treated)		2011-149Q
STEJ1 15 Stella-Jones Corporation, 3424 Parkersburg Road, Reedy, WV 25270-9402 http://stella-jones.com/ <i>Formerly Burke-Parsons Bowlby (BURPB 15)</i> Wood Post (Pressure Treated)		1997-067
TAYLR 15 Taylor-Ramsey Corporation, P.O. Box 11888, Lynchburg, VA 24506 Wood Post (Pressure Treated)		1985-090



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Section 679: Slab Stabilization

(a) Cement Grout Stabilization; (b) Asphalt Grout Stabilization; (c) High Density Polyurethane

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 4/8/2024

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
5STAR 15 Five Star Products, Inc., 750 Commerce Drive, Fairfield, CT 06825 http://www.fivestarprouducts.com/			
Cementitious, Non-Metallic, Non-Staining Material	5 Star Highway Patch		1979-039
Cementitious, Non-Metallic, Non-Staining Material	5 Star Structural Concrete		1987-002
Cementitious, Non-Metallic, Non-Staining Material	5 Star Structural Concrete V/O		1990-214
AQUAF 15 Aquafin, Inc., 505 Blue Ball Road, #160, Elkton, MD 21921 http://www.aquafin.net/ Formerly Ceratech, Inc. (CETEC 15)			
Cementitious, Non-Metallic, Non-Staining Material	Pavemend SL		2010-276
<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SL Technical Datasheet</i>			
Cementitious, Non-Metallic, Non-Staining Material	Pavemend SLQ		2010-277
<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SLQ Technical Datasheet</i>			
CGM-N 15 CGM Inc., 1463 Ford Road, Bensalem, PA 19020 http://cgmbuildingproducts.com/			
Cementitious, Non-Metallic, Non-Staining Material	CGM Highway Patch		1987-082
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/			
Cementitious, Non-Metallic, Non-Staining Material	ChemSpeed 65		1995-046
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/			
Cementitious, Non-Metallic, Non-Staining Material	HD-50	RSCP-2014-01-007	1985-185
Cementitious, Non-Metallic, Non-Staining Material	Pave Patch 3000	RSCP-2017-01-007	2004-067Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 4/8/2024

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Cementitious, Non-Metallic, Non-Staining Material	Euco Repair SCC Fast	RSCP-2017-01-014	2019-036Q
Cementitious, Non-Metallic, Non-Staining Material	Euco-Speed		1995-148
Cementitious, Non-Metallic, Non-Staining Material	Express Repair		2003-132Q
Cementitious, Non-Metallic, Non-Staining Material	Speed Crete 2028		1996-223
Cementitious, Non-Metallic, Non-Staining Material	Speed Crete Green Line		1991-010
Cementitious, Non-Metallic, Non-Staining Material	VersaSpeed		2006-010Q
GILLI 15 Gill Industries, Inc., 3462 Kershaw-Camden Highway, Lancaster, SC 29720 http://www.gill33.com/			
Cementitious, Non-Metallic, Non-Staining Material	Gill 33B		1972-050
Cementitious, Non-Metallic, Non-Staining Material	P Superbond		1972-050
HBFUL 15 H. B. Fuller Construction Products Inc., 1200 Willow Lake Boulevard, St. Paul, MN 55110-5101 https://prospec.com/rehabilitation/			
Plant 59 Brunswick Avenue Edison, NJ 08817			
Cementitious, Non-Metallic, Non-Staining Material (formerly ProSpec F-77)	ProSpec C-1107 Construction Grout		1988-044
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/			
Cementitious, Non-Metallic, Non-Staining Material	Duracrete II		2007-005Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 4/8/2024

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
L&MCC 15 LATICRETE International, Inc., One LATICRETE Park North, Bethany, CT 06524-3423 https://laticrete.com/en/concrete-construction-chemicals			
Cementitious, Non-Metallic, Non-Staining Material	L& M Crystex		1976-032
Cementitious, Non-Metallic, Non-Staining Material	L&M Durapatch Hiway		1984-217
MAPEIA15 MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/			
Plant Fredericksburg, VA			
Cementitious, Non-Metallic, Non-Staining Material	Planitop 18		2017-300Q
Cementitious, Non-Metallic, Non-Staining Material	Planitop 18 TG	RSCP-2018-01-001	2018-078Q
MBS-7 15 Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us			
Plant Newark, CA <i>Formerly Master Builders Solutions</i>			
Cementitious, Non-Metallic, Non-Staining Material <i>Previous Name: MasterEmaco T 1060</i>	SikaEmaco 1060		1986-028Q
MBS11 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us			
Plant 9658 State Route 43 Streetsboro, OH 44241 <i>Formerly Master Builders Solutions US LLC</i>			
Cementitious, Non-Metallic, Non-Staining Material	SikaEmaco 1060 (formerly MasterEmaco T 1060)		1986-028Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 4/8/2024

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
QUIKR 15 Plant	The QUIKRETE Companies, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 519 Red Barn Lane Latrobe, PA 15650	http://www.quikrete.com/	
Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE FastSet™ Concrete Mix	RSCP-2017-01-012	2000-288Q
Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE FastSet™ DOT Mix	RSCP-2017-01-008	2003-004Q
Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE FastSet™ Non-Shrink Grout (Product No. 1585-09)		2000-292Q
Cementitious, Non-Metallic, Non-Staining Material	Commercial Grade QUIKRETE Rapid Road Repair		1984-086
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 1682 Marion Williamsport Road E Marion, OH 43302	http://usa.sika.com/	
Cementitious, Non-Metallic, Non-Staining Material	SikaSet Road Patch		1978-043
Cementitious, Non-Metallic, Non-Staining Material	Sikatop III		1978-043
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 201 Polito Avenue Lyndhurst Lyndhurst, NJ	http://usa.sika.com/	
Cementitious, Non-Metallic, Non-Staining Material	SikaQuick 1000	RSCP-2017-01-006	2003-036Q
Cementitious, Non-Metallic, Non-Staining Material	SikaQuick 2500	RSCP-2016-01-011	2003-037Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials -Type A

Last Revised: 4/8/2024

Type A: Cementitious, Non-Metallic, Non-Staining (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
SILPRO15 SILPRO LLC, 2 New England Way, Ayer, MA 01432-1514 https://www.silpro.com/products/			
Cementitious, Non-Metallic, Non-Staining Material <i>Meets the requirements of R2 and R3 material in ASTM C928.</i>	SilproRapid	RSCP-2019-01-004	2022-040Q
SPECH 15 SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108 https://specchem.com/			
Cementitious, Non-Metallic, Non-Staining Material <i>Provisionally Approved</i>	Repcon 928	RSCP-2018-01-004	2013-018Q
USGY1 15 USG, United States Gypsum Company, 550 West Adams Street, Chicago, IL 60601 https://www.usg.com/			
Cementitious, Non-Metallic, Non-Staining Material	Duracal	RSCP-2014-01-005	1988-020
Cementitious, Non-Metallic, Non-Staining Material	Duracal-S		1994-009
WMD-1 15 Western Material and Design, LLC, P.O. Box 268, Lee's Summit, MO 64063 https://wmdus.com/			
Plant 101 East Walnut Street Archie, MO 64725			
Cementitious, Non-Metallic, Non-Staining Material	FasTrac 246 Concrete	RSCP-2017-01-004	2018-197Q

679.2(a)5 Rapid Set Concrete Patching Materials - Type B

Last Revised: 4/8/2024

Type B: Magnesium Phosphate Cement Based Materials (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Magnesium, Phosphate Cement-Based Material	Euco-Speed M.P.		1988-354



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials - Type B

Last Revised: 4/8/2024

Type B: Magnesium Phosphate Cement Based Materials (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
IMCTI 15	IMCO Technologies, Inc., 3909 Witmer Road, Suite 1014, Niagara Falls, NY 14305 https://www.imcotechnologies.com/		
Magnesium, Phosphate Cement-Based Material	MG-Krete 1260		2006-235Q
MBS-7 15 Plant	Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us Formerly Master Builders Solutions		
Magnesium, Phosphate Cement-Based Material	SikaQuick Set 45		1974-016Q
	<i>Formerly MasterEmaco T 545. Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>		
Magnesium, Phosphate Cement-Based Material	SikaQuick Set 45 HT		1974-016
	<i>Formerly MasterEmaco T 545 HT. Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>		
MBS11 15 Plant	Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us 9658 State Route 43 Streetsboro, OH 44241 Formerly Master Builders Solutions US LLC		
Magnesium, Phosphate Cement-Based Material	SikaQuick Set 45 (previously MasterEmaco T 545)		1974-016Q
Magnesium, Phosphate Cement-Based Material	SikaQuick Set 45 HT (previously MasterEmaco T 545 HT)		1974-016Q



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Section 679: Slab Stabilization

679.2(a)5 Rapid Set Concrete Patching Materials - Type B

Last Revised: 4/8/2024

Type B: Magnesium Phosphate Cement Based Materials (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
MBS12 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us Plant 7100 Wright Road Houston, TX 77041 <i>Formerly Master Builders Solutions US LLC</i>	Magnesium, Phosphate Cement-Based Material <i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>	SikaQuick Set 45 (previously MasterEmaco T 545)	1974-016Q
	Magnesium, Phosphate Cement-Based Material <i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>	SikaQuick Set 45 HT (previously MasterEmaco T 545 HT)	1974-016Q
PHOS1 15 Phoscrete Corporation, 792 Northeast 40th Court, Oakland Park, FL 33334 https://phoscrete.com/ Plant 1755 North Butterfield Road Libertyville, IL 60048	Magnesium, Phosphate Cement-Based Material <i>Formerly known as Phoscrete HC.</i>	Phoscrete Formula 1-HC (Horizontal/Castable)	RSCP-2015-01-002 2017-104Q

679.2(a)5 Rapid Set Concrete Patching Materials - Type C

Last Revised: 3/2/2015

Type C: Polymer Mortar and Concrete (ASTM C-928)

Product	Name	NTPEP Test Number	Ref. No.
HILT- 15 Hilti, Inc., 5400 South 122nd East Ave., P.O. Box 21148, Tulsa, OK 74121 https://www.hilti.com/ Polymer Mortar and Concrete	RM 698 Epoxy Patch		1988-017
TRASA 15 Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/ Polymer Mortar and Concrete	T17 Polymer Concrete		1979-060

679.2(a)6 Alternate Mix Design - Cement Grout Stabilization

Last Revised: 6/1/2021

Concrete Mix Design (void filler beneath slab)



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Section 679: Slab Stabilization

679.2(a)6 Alternate Mix Design - Cement Grout Stabilization

Last Revised: 6/1/2021

Concrete Mix Design (void filler beneath slab)

Product	Name	Ref. No.
BASFE 15 BASF, 1703 Crosspoint Avenue, Houston, TX 77054 https://www.basf.com/us/en.html		
Alternate to Concrete Mix Design (void filler beneath slab) <i>Conditionally approved as an alternate per manufacturer's specifications. BASF FE 663.01 Rigid Pour Foam Technical Data Sheet</i>	FE 663.01 Rigid Pour Foam	2008-167Q

COVES 15 Covestro, LLC, 1 Covestro Circle, Pittsburgh, PA 15205 <http://www.covestro.us/en>
Formerly Bayer Material Science

Alternate to Concrete Mix Design (void filler beneath slab) URETEK 486 Star 2007-023
Conditionally approved as an alternate per manufacturer's specifications. [486 Star Technical Data Sheet](#)

679.2(b)1 Asphalt Cement

Last Revised: 2/16/2021

Product	Name	Ref. No.
ATLMC 15 Atlas Minerals and Chemicals, Inc., 1227 Valley Road, P.O. Box 38, Mertztown, PA 19539-0038 http://www.atlasmin.com/		
ASTM D3141 Asphalt for Undersealing		2020-073Q

679.2(b)5 Rapid Set Concrete Patching Materials

See Section 679.2(a)5

679.2(c)1 High Density Polyurethane

Last Revised: 3/5/2024

Product	Name	Ref. No.
ALCHA 15 Alchatek LLC, 4508 Bibb Boulevard, Suite B, Tucker, GA 30084-6232 https://alchatek.com/		
Polyurethane Foam	AP Lift 460	2023-133Q
HMI-1 15 Hydraulic Mudpumps, Inc., HMI Company, 446 Custer Street, Manitowoc, WI 54220 https://hmicompany.com/		
Polyurethane Foam	RR401	2020-074Q
Polyurethane Foam	RR401	2022-033Q



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Section 679: Slab Stabilization

679.2(c)5 Rapid Set Concrete Patching Materials

See Section 679.2(a)5



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Section 680: Waterproofing

680.2(b) Adhesive-Backed Preformed Membrane Sheet

Last Revised: 1/18/2024

Product	Name	Ref. No.
CRAF0 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafcO.com/		
Plant 121 Industrial Park Road Halls, TN 38040		
Bridge Deck, Rubberized Asphalt <i>As of 6/3/2022, this product is no longer being manufactured.</i>	GeoTac	2006-035Q
Non-Bridge Deck, Rubberized Asphalt <i>As of 6/3/2022, this product is no longer being manufactured.</i>	GeoTac	2006-035Q
CRAF6 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafcO.com/		
Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Supplier code formerly RTPTC 15</i>		
Bridge Deck, Rubberized Asphalt <i>As of 6/3/2022, this product is no longer being manufactured.</i>	Right Deck	2017-171Q
Non-Bridge Deck, Rubberized Asphalt	Right Roll	2017-172Q
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Bridge Deck, Rubberized Asphalt <i>MEL-PRIME is a surface preparation adhesive as part of the MEL-DEK membrane system.</i>	SealTight MEL-DEK	1993-275
Non-Bridge Deck, Rubberized Asphalt <i>MEL-PRIME is a surface preparation adhesive as part of the MEL-ROL membrane system.</i>	SealTight MEL-ROL	1993-274
POLYG 15 Polyguard Products, Inc., PO Box 755, Ennis, TX 75120-0755 http://www.polyguardproducts.com/		
Bridge Deck, Rubberized Asphalt	Polyguard NW-75	2007-115Q
Non-Bridge Deck, Rubberized Asphalt	Polyguard NW-75	2007-115Q
PROP2 15 SOLMAX, 428 Rollins Industrial Blvd., Ringgold, GA 30736 https://www.solmax.com/en/ams <i>Formerly Propex Operating Company</i>		
Bridge Deck, Rubberized Asphalt	Petromat Petrotac 4591	2011-167Q
Non-Bridge Deck, Rubberized Asphalt	Petromat Petrotac 4591	2011-167Q



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Section 680: Waterproofing

680.2(b) Adhesive-Backed Preformed Membrane Sheet

Last Revised: 1/18/2024

Product	Name	Ref. No.
ROYST 15 Chase Corporation, 295 University Avenue, Westwood, MA 02090 http://www.chasecorp.com/ Facility Blawnox Facility 128 First Street Pittsburgh, PA 15238 Bridge Deck, Modified Asphalt	Royston 10A-65P Bridge Deck Membrane	2019-029Q
RTPTC 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Formerly RIGHT/POINTE, LLC</i> Bridge Deck, Rubberized Asphalt Non-Bridge Deck, Rubberized Asphalt	Right Deck Right Roll	2017-171Q 2017-172Q
SOPRE 15 Soprema, Inc., 310 Quadral Drive, Wadsworth, OH 44281 http://soprema.us/ Bridge Deck, Modified Asphalt <i>Conditionally approved as an alternate per manufacturer's specifications.</i>	Antirock (Alternate)	2001-043Q
TENC2 15 SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 https://www.solmax.com/en Plant Ennis, TX <i>Formerly TenCate Geosynthetics</i> Non-Bridge Deck, Modified Asphalt	Mirafi MTK	2018-029Q



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Section 695: Detectable Warning Surface

695.2(a) Detectable Warning Surface (DWS)

Last Revised: 3/19/2024

Dome size and spacing as specified in [Standard Drawing RC-67M \(Publication 72M\)](#)

	Product	Name	Ref. No.
ADA-2 15 Plant	ADA Solutions, A Division of SureWerx USA Inc., 149 South Cucumber Street, Jefferson, OH 44047	https://adatile.com/	
	Waupaca Foundry Plant 3 Waupaca, WI		
	DWS, Cast Iron	Iron Dome SF	2024-027Q
ADASI 15	ADA Solutions, A Division of SureWerx USA Inc., 149 South Cucumber Street, Jefferson, OH 44047	https://adatile.com/	
	DWS, Cast Iron	IronDome Cast Iron (Wet-Set) Tactile Unit	2018-017Q
	DWS, Polymer Composite	Cast-In-Place Composite Paver Unit; Inline Dome Pattern: Tactile Warning Surface	2007-049Q
	DWS, Polymer Composite	Cast-In-Place Replaceable (Wet-Set) Composite TWS Panel	2008-019Q
API-1 15	Access Products Inc., 241 Main Street, Suite 100, Buffalo, NY 14203	https://accessproducts.com/	
	DWS, Polymer Composite	Access Tile Replaceable Cast-In-Place ACC-R	2010-036QB
	<i>Product website: Access Tile Tactile Systems</i>		
ATS-1 15 Plant	Advantage Tactile Systems Inc., 241 Main Street, Suite 100, Buffalo, NY 14203	https://advantagetactile.com/	
	Waupaca, WI		
	DWS, Cast Iron	Advantage Cast Iron	2023-200Q
DETTI 15 Plant	Detectile, Inc., 603 Mallard Lane, Oak Brook, IL 60523	http://www.detectile.com/	
	Manitowoc, WI		
	DWS, Polymer Composite	PFC Composite Replaceable Panel	2009-057Q
EJI-0 15 Facility	EJ, 301 Spring Street, P.O. Box 439, East Jordan, MI 49727-0439	http://ejco.com/	
	East Jordan Foundry 2675 North U.S. 131 Elmira, MI 49730		
	DWS, Cast Iron	DURALAST 7005 Detectable Warning Plate	2007-020Q



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Section 695: Detectable Warning Surface

695.2(a) Detectable Warning Surface (DWS)

Last Revised: 3/19/2024

Dome size and spacing as specified in [Standard Drawing RC-67M \(Publication 72M\)](#)

Product	Name	Ref. No.
ENGPI 15 Armor-Tile, Engineered Plastics, Inc., 300 International Drive, Suite 100, Williamsville, NY 14221 http://engplastics.com/		
DWS, Polymer Composite <i>Website: Access Tile Tactile Systems</i>	Access Tile Replaceable Cast-In-Place ACC-R	2010-036QB
DWS, Polymer Composite <i>Website: Armor-Tile Tactile Systems</i>	Armor-Tile Cast-In-Place Tiles	2007-052Q
EZSTI 15 EZ Set Tile, Inc., 4495 Gunpowder Circle, Hastings, NE 68901 http://www.ezsettile.com/		
Plant Aurora, NE		
DWS, Polymer Composite <i>Provisionally Approved</i>	EZ Set Tile (Cast in Place)	2007-019Q
MBI-1 15 Detectable Warning Systems, Inc., Mar-Bal Incorporated, 3205 Randall Parkway, Suite 215, Wilmington, NC 28403 https://detectable-warning.com/		
Plant 5400 Reserve Way Dublin, VA 24084		
DWS, Polymer Composite	AlertCast Cast-In-Place (Replaceable) Detectable Warning System	2018-062Q
MBI-2 15 Detectable Warning Systems, Inc., Mar-Bal Incorporated, 3205 Randall Parkway, Suite 215, Wilmington, NC 28403 https://detectable-warning.com/		
Plant Waupaca, WI 24084		
DWS, Cast Iron	CastIron (Cast-in-Place Cast Iron Plates)	2022-048Q
MFGCS 15 Molded Fiber Glass Composite Systems Company, 2925 MFG Place, Ashtabula, OH 44004 https://detectable-warning.com/products/alertcast/		
DWS, Polymer Composite	AlertCast Detectable Warning System	2010-196Q
NEENA 15 Neenah Foundry, Neenah Enterprises, Inc., 2121 Brooks Ave., Neenah, WI 54956 https://groupnei.com/		
DWS, Cast Iron	24" x 24" Cast Iron Detectable Warning Plate (4984)	2007-111Q



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Section 695: Detectable Warning Surface

695.2(a) Detectable Warning Surface (DWS)

Last Revised: 3/19/2024

Dome size and spacing as specified in [Standard Drawing RC-67M \(Publication 72M\)](#)

Product	Name	Ref. No.
STECC 15 Steel Craft Corporation, 105 Steel Craft Road, Hartford, WI 53027 http://www.steelcraftwi.com/		
DWS, Stainless Steel <i>Provisionally Approved</i>	MD Metapanel	2011-191Q
TRASA 15 Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/		
DWS, Polymer Concrete <i>Provisionally Approved</i>	Step-Safe	2006-229Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

Resource: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

696.2 Temporary Impact Attenuating Devices

Last Revised: 12/11/2023

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT

Approved): [Product Summary of Approved MASH 2016 End Treatments](#)

Category 3: Temporary work zone devices manufactured after December 31, 2019, must meet the AASHTO MASH 2016 criteria. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
BARRS 15 Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571							
http://www.barriersystemsinc.com/							
Type V, Non-Gating Two-Way Traffic System	Universal TAU-II	NCHRP 350		TL-2, TL-3	CC-75	SCT01a	2004-083Q
Type V, Non-Gating Two-Way Traffic System	X-TENUATOR	NCHRP 350		TL-3	CC-109	SCI23	2011-069QB
Type VI, Gating Non-Redirective Crash Cushion System	ABSORB 350	NCHRP 350		TL-3	CC-66	SCI11b	2001-066
ENERG 15 Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001							
https://www.valtir.com/							
Plant	Pell City, AL						
Formerly Energy Absorption Systems							
Type V, Non-Gating Two-Way Traffic System	QuadGuard CZ	NCHRP 350		TL-3	CC-35A	SCT02b,c	1998-027
Type V, Non-Gating Two-Way Traffic System	QuadGuard Elite M10	MASH 2016		TL-3	CC-112A		2020-203Q
Type V, Non-Gating Two-Way Traffic System	QuadGuard Elite M10 Wide	MASH 2016		TL-3	CC-112A	SCI134	2020-204Q
Type V, Non-Gating Two-Way Traffic System	QuadGuard High Speed (HS)	NCHRP 350		TL-3	CC-35E	SCT02d	2001-223Q
Type V, Non-Gating Two-Way Traffic System	QuadGuard II (Modified QuadGuard)	NCHRP 350		TL-2, TL-3	CC-35I		2009-159QB
<i>Spincast Plastics, South Bend, IN</i>							



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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

696.2 Temporary Impact Attenuating Devices

Last Revised: 12/11/2023

FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

Summary of End Treatments Crash Tested to MASH 2016 Criteria (Installation Manuals, Parts List, Maintenance Procedures, and PE Stamped Drawings - PennDOT

Approved): [Product Summary of Approved MASH 2016 End Treatments](#)

Category 3: Temporary work zone devices manufactured after December 31, 2019, must meet the AASHTO MASH 2016 criteria. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
ENERG 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/						
	Pell City, AL						
	Formerly Energy Absorption Systems						
Type V, Non-Gating Two-Way Traffic System	QuadGuard M Wide	MASH 2016		TL-3	CC-163		2021-111Q
Type V, Non-Gating Two-Way Traffic System	QUEST	NCHRP 350		TL-3	CC-87	SCI20	2005-052Q
Type V, Non-Gating Two-Way Traffic System	REACT 350	NCHRP 350		TL-3	CC-26B	SCI16a	1995-158
Type V, Non-Gating Two-Way Traffic System	REACT M	MASH 2016	52 3/4 in.	TL-3 (62 mph)	CC-169		2022-004Q
	<i>* Manual, Inspection Checklist, FHWA Eligibility Letter, and PE Stamped Drawing</i>						
Type VI, Gating Non-Redirective Crash Cushion System	ENERGITE III	MASH 2016		TL-3 (62 mph)	CC-164		2021-182Q
	<i>The barrels are manufactured at a facility in Sparta, TN.</i>						
Type VI, Gating Non-Redirective Crash Cushion System	Energite III Module	NCHRP 350		TL-3	CC-29	SCI06c	----
Type VI, Gating Non-Redirective Crash Cushion System	Fitch Inertial	NCHRP 350		TL-3	CC-28		----



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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

696.2 Temporary Impact Attenuating Devices

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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
LEISS 15	Leiss Tool & Die, 801 North Pleasant Avenue, Somerset, PA 15501 Type V, Non-Gating Two-Way Traffic System	http://leiss.com/ MASH 2016		TL-3	CC-128		2014-029QD
	* Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion						
	Type V, Non-Gating Two-Way Traffic System	SCI 70 GM NCHRP 350		TL-2	CC-85A	SCI17b	2014-029QB
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 505 Crown Point Ave Omaha, NE 67110	http://www.lindsay.com/transportation-solutions MASH 2016		TL-2, TL-3	CC-146, CC-147		2018-278Q
	Type V, Non-Gating Two-Way Traffic System <i>The epoxy for the Compact Backstop and Front Cable Anchor of the TAU-M can be supplied by the manufacturer as part of the approved kit. The epoxy must meet the manufacturer's specific pull-out and shear strength requirements for the TAU-M system. Manual w/ Parts List, FHWA Eligibility Letters, Concrete & Asphalt Foundation Drawings for TAU-M</i>						
	Type VI, Gating Non-Redirective Crash Cushion System	ABSORB-M MASH 2016	42	TL-3	CC-153		2019-183Q
Manual, FHWA Eligibility Letter CC-153, approved PE stamped drawings, and anti-freeze solutions for water-filled ABSORB-M Type VI Crash Cushion							
MORVA 15	Morgan Valley Manufacturing, 340 North Industrial Road, P. O. Box 746, Morgan, UT 84050 Type V, Non-Gating Two-Way Traffic System	SCI 100 GM MASH 2016		TL-3	CC-128		2004-015
	* Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion						
	Type V, Non-Gating Two-Way Traffic System	SCI 70 GM NCHRP 350		TL-2	CC-85A	SCI17b	2005-033



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696.2 Temporary Impact Attenuating Devices

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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/						
	Type VI, Gating Non-Redirective Crash Cushion System	CrashGard Sand Barrel System		MASH	TL-3	CC-145	2010-306Q
TRFXD 15	TrafFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/						
	Type V, Non-Gating Two-Way Traffic System	Delta Crash Cushion		MASH 2016	32	TL-3 (62 mph)	CC-167 2021-147Q
	<i>* Manual, Inspection Checklist, FHWA Eligibility Letter, and PE Stamped Drawing</i>						
	Type VI, Gating Non-Redirective Crash Cushion System	Big Sandy (Sand Barrel System)		MASH		TL-3	CC-139 1998-143
	<i>System was crash tested to AASHTO MASH crash tested per FHWA Eligibility Letter CC-139. Installation Instructions and FHWA Eligibility Letter for Big Sandy</i>						
	Type VI, Gating Non-Redirective Crash Cushion System	MASH Sentry Longitudinal Energy Dissipater (SLED)		MASH		TL-3	CC-131 2011-111
	<i>System was crash tested to MASH criteria per FHWA Eligibility Letter CC-131. Manual, FHWA Eligibility Letter CC-131, and water freezing prevention documents for MASH Sentry Longitudinal Energy Dissipater (SLED) Type VI Crash Cushion</i>						



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696.2 Temporary Impact Attenuating Devices

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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
TRIN3 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 2548 NE 28th Street Ft. Worth, TX 76111 <i>Formerly Trinity Highway Products, LLC</i>						
	Type V, Non-Gating Two-Way Traffic System	TRACC					
					NCHRP 350	TL-3	CC-54
						SCI18a,b	2010-251QA
	* Approved MM-USA marking as Identifiable Steel						
TRIN7 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/ Pell City, AL 35128 <i>Formerly Trinity Highway Products, LLC</i>						
	Type V, Non-Gating Two-Way Traffic System	QuadGuard M10, TL-2 (24" Wide)					
					MASH 2016	TL-2	CC-121, CC-112C
							2021-125Q
	* Manual, Product Information, FHWA Eligibility Letters, and PE Stamped Drawings for QuadGuard M10						
	Type V, Non-Gating Two-Way Traffic System	QuadGuard M10, TL-3 (24" Width)					
					MASH 2016	TL-3	CC-112, CC112c
							2018-219Q
	* Manual, Product Information, FHWA Eligibility Letters, and PE Stamped Drawings for QuadGuard M10						
VALT9 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 57-65 Airds Road Minto NSW 2566, Australia						
	Type VI, Gating Non-Redirective Crash Cushion System	ArmorBuffa					
					MASH 2016	TL-3 (62 mph)	CC-171
							2023-159Q



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Section 696: Temporary Impact Attenuating Devices (DM-2, Chapter 12)

696.2 Temporary Impact Attenuating Devices

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FHWA Acceptance Letters: [Terminals/Crash Cushions Letters](#)

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Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
WHIPI 15	Whip Industries, 3010 South Main Street, Fort Worth, TX 76110 Type V, Non-Gating Two-Way Traffic System	http://www.whipindustries.com/ MASH 2016		TL-3	CC-128		2014-017QB
	* Manual w/ Parts List, FHWA Eligibility Letter, PE Stamped Drawings for SCI 100 GM Smart Cushion						
	Type V, Non-Gating Two-Way Traffic System	NCHRP 350		TL-2	CC-85A	SCI17b	2014-017QD



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Section 698: Post-Installed Concrete Anchors

698.2(c) Mechanical Anchors

Last Revised: 7/3/2023

Product Evaluation Applications must include an evaluation report issued by ICC-ES or IAPMO-UES verifying that the mechanical anchors have been tested and qualified for performance in cracked and uncracked concrete according to ACI 355.2 or ICC-ES AC193.

Product	Name	Ref. No.
DEWA2 15 DEWALT, 701 E. Joppa Road, Towson, MD 21286 https://anchors.dewalt.com/anchors/products/mechanical-anchors/		
Undercut Anchors <i>ICC-ES ESR-4810</i>	CCU+ Undercut Anchor	2022-261Q

698.2(d) Adhesive Anchors

Product Evaluation Applications must include an evaluation report issued by ICC-ES or IAPMO-UES verifying that the adhesive anchors have been tested and qualified for performance in cracked and uncracked concrete according to ICC-ES AC 308.



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Section 701: Cement

701 Cement Plants & Terminals

Last Revised: 3/6/2024

Product	Name	Letter Date	Ref. No.
ARGO1 15 Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://argos-us.com/			
Plant	1826 South Queen Street Martinsburg, WV 25401 Formerly Essroc Materials, Inc. (ESS-3 15)		
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Portland Cement Type I/II	8/14/2012	1995-072
Type III	Portland Cement Type III		1995-072
Type III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Portland Cement Type III		2020-077Q
Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	Argos Type IL Cement		2019-072Q
ARGO2 15 Argos USA, 3015 Windward Plaza, Winward Fairways II, Suite 300, Alpharetta, GA 30005 https://argos-us.com/			
Terminal	4120 Buckeystown Pike Frederick, MD 21703 Formerly Essroc Materials, Inc. (ESS-5 15)		
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Type I/II, Terminal for ARGO1 15, Ref. No. 1995-072 (Martinsburg, WV)		2010-183QAB
ARGO3 15 Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://www.argos.co/usa/			
Terminal	Bessemer, PA Formerly Essroc Materials, Inc. (ESS-6 15)		
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV)		2010-149QAB



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Section 701: Cement

701 Cement Plants & Terminals

Last Revised: 3/6/2024

Product	Name	Letter Date	Ref. No.
ARGO4 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://argos-us.com/ 500 West Park Road Leetsdale, PA 15056 Formerly Essroc Materials, Inc. (ESS10 15)		
Type I and II with Limestone	Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-235QAB
Type I and II with Limestone	Type I/II, Terminal for ARGO6 15, Ref. 2017-230Q (Calera, AL) <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2010-235QAB
Type IL(10)	Argos Type IL(10) Cement, Terminal for ARGO1, Ref. 2019-072 (Martinsburg, WV) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2019-072Q
ARGO6 15 Plant	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://argos-us.com/ Roberta Plant 8039 Highway 25 Calera, AL 35040		
Type I and II with Limestone	<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2017-230Q
Type IL(10)	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2022-116Q
ARGO7 15 Terminal	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://argos-us.com/ 411 Oberlin Avenue SW Massillon, OH 44647		
Type I and II with Limestone	Type I/II, Terminal for ARGO1 15, Ref. 1995-072 (Martinsburg, WV) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-105Q
ARMST 15 Plant	Armstrong Cement and Supply, 100 Clearfield Road, Cabot, PA 16023-9521 Cabot, PA		
Type I, II, and II MH with Limestone	<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>	7/6/2009	2019-229Q
Type I, II, II MH, and III			----
Type V			2000-010Q



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701 Cement Plants & Terminals

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Product	Name	Letter Date	Ref. No.
BUZZ1 15 Plant	Buzzi Unicem USA Stockertown, 501 Hercules Drive, P. O. Box 69, Stockertown, PA 18083	http://www.buzziunicemusa.com/	
	Stockertown, PA		
Type I and II with Limestone	Terminal for BUZZ2 15, Ref. 2011-222QA/QB (Chattanooga, TN)		2012-023QAB
<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>			
Type I, II MH, and III			----
Type I, II MH, and III with Limestone		5/4/2009	----
<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>			
Type IL(10)			2022-122Q
<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>			
BUZZ2 15 Plant	Buzzi Unicem USA, Chattanooga, 1201 Suck Creek Road, P. O. Box 4304, Chattanooga, TN 37405	http://www.buzziunicemusa.com/	
	Chattanooga, TN		
Type I with Limestone			2011-222QAB
<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>			
CEMX2 15 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043	http://www.cemexusa.com/	
	2001 Portland Park Wampum, PA 16157		
Type I and II with Limestone	Terminal for CEMX8 15, Ref. 2018-231 (Knoxville, TN)		2018-231Q
<i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>			
Type I, II, and II MH	Terminal for KCC-1 15, Ref. 2001-056Q (Louisville, KY)	3/9/2020	2010-042Q
<i>This cement is supplied from the Kosmos Cement Company LLC plant in Louisville, KY (KCC-1 15).</i>			
Type III	Terminal for KCC-1 15, Ref. 2001-056Q (Louisville, KY)		2010-141QA
<i>This cement is supplied from the Kosmos Cement Company LLC plant in Louisville, KY (KCC-1 15).</i>			



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Product	Name	Letter Date	Ref. No.
CEMX6 15	Fairborn Cement Company (Eagle Materials, Inc.), 3811 Turtle Creek Blvd, Suite 1100, Dallas, TX 75219	http://www.eaglematerials.com	
Plant	3250 Linebaugh Road Xenia, OH 45385 (Formerly CEMEX, Inc.)		
	Type I, II, and II MH with Limestone <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>		2012-172QAB
	Type III		2010-043Q
	Type III with Limestone <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition.</i>		2017-333Q
	Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2023-001Q
CEMX8 15	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043	http://www.cemexusa.com/	
Plant	6212 Cement Plant Road Knoxville, TN 37924		
	Type I and II with Limestone <i>Per AASHTO M 85, Portland cement with up to 5% limestone addition and up to 5% inorganic processing addition (bag house dust).</i>		2018-231Q
CRH-1 15	Oldcastle Materials Cement Holding Inc., A CRH Company, 900 Ashwood Parkway, Suite 600, Atlanta, GA 30338		
Plant	Ash Grove Mississauga Cement Plant 2391 Lakeshore Road West Mississauga, Ontario L5J 1K1		
	Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	1/17/2008	----
	Type III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2016-027Q
	Type IL(12) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2022-066Q



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Product	Name	Letter Date	Ref. No.
CRH-2 15	Oldcastle Materials Cement Holding Inc., A CRH Company, 900 Ashwood Parkway, Suite 600, Atlanta, GA 30338 https://www.ashgrove.com/		
Plant	Ash Grove Joliette Cement Plant 966 Chemin Des Prairies Joliette, Quebec J6E 0L4		
	Type I, II, and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-079Q
	Type IL(12) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2021-196Q
ESSEX 15	Titan America, LLC, 5700 Lake Wright Drive, Suite 300, Norfolk, VA 23502 http://www.titanamerica.com/		
Terminal	Essex Cement Company LLC 182 Calcutta Street Port Newark, NJ 07114		
	Type I, II, and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-248Q
	Type IL(13) <i>Provisionally Approved: Under the provisional approval, Titan Cement Company is required to submit a total of 30 lots of Type IL test data by October 3, 2023. Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2021-205Q
FEDW0 15	Federal White Cement, Inc., P.O. Box 1609, Woodstock, Ontario N4S 0A8 http://www.federalwhitecement.com/		
Plant	P.O. Box 1609 Woodstock, Ontario N4S 0A8		
	Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-002Q
FEDW1 15	Federal White Cement, Inc., P.O. Box 1609, Woodstock, Ontario N4S 0A8 http://www.federalwhitecement.com/		
Terminal	Northampton, PA		
	Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-002Q



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Product	Name	Letter Date	Ref. No.
HOLI4 15 Plant	Holcim (US) Inc., 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Holcim Hagerstown Plant 1260 Security Road Hagerstown, MD 21742		
	Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	8/14/2007	----
	Type II and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	6/11/2010	1990-148
	Type III Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		1990-148 2022-163Q
HOLI5 15 Plant	Holcim (US) Inc., 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Holcim Holly Hill Plant 2173 Gardner Boulevard Holly Hill, SC 29059		
	Type I, II, and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-224QAB
HOLI6 15 Plant	Holcim (US) Inc., 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Ste. Genevieve Plant 2942 US Highway 61 Bloomsdale, MO 63627		
	Type I, II, and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2012-090QAB
HOLI7 15 Terminal	Holcim U.S. Inc, 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.holcim.us/ Wierton, WV		
	Type I, II, and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for HOLI6 15, Ref. 2012-090QA/QB (Bloomsdale, MO)	2012-099QAB
HOLI9 15 Terminal	Holcim (US) Inc., 8700 West Bryn Mawr Avenue, Chicago, IL 60631 https://www.lafargeholcim.us/ Baltimore, MD		
	Type I, II, and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for HOLI5 15, Ref. No. 2011-224QA/QB (Holly Hill, SC)	2014-093QAB



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Product	Name	Letter Date	Ref. No.
KCC-1 15 Plant	Kosmos Cement Company LLC, 15301 Dixie Highway, Louisville, KY 40272 15301 Dixie Highway Louisville, KY 40272 Formerly CEMX4 15 - CEMEX, Inc.		
	Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2017-130Q
	Type I, II, II MH, and III		2001-056Q
	Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2023-031Q
	Type IS		1993-040
KCC-2 15 Terminal	Kosmos Cement Company LLC, 15301 Dixie Highway, Louisville, KY 40272 200-B Neville Island Pittsburgh, PA 15225 Formerly CEMX1 15 - CEMEX, Inc.		
	Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)	----
	Type I, II, II MH, and III	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)	----
	Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	Terminal for KCC-1 15, Ref. No. 2023-031 (Louisville, KY)	2023-244Q
KCC-3 15 Terminal	Kosmos Cement Company LLC, 15301 Dixie Highway, Louisville, KY 40272 1007 Maccorkle SW Avenue South Charleston, WV 25303 Formerly CEMX7 15 - CEMEX, Inc.		
	Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)	2016-084Q
Type I, II, II MH, and III	Terminal for KCC-1 15, Ref. No. 2001-056 (Louisville, KY)	2016-084Q	



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Product	Name	Letter Date	Ref. No.
KEYSD 15 Terminal	Keystone Cement Company, Route 329, P.O. Box A, Bath, PA 18014 Allenport Transload Terminal 1 Wheeling Pittsburgh Drive Allenport, PA 15412 Type II <i>The cement terminal is operated by DTX Resources, 131 W Ranch Lane, Weatherford, TX 76077</i>		2021-029Q
KEYSP 15 Plant	Keystone Cement Company, Giant Cement Holding, Inc., Route 329, P.O. Box A, Bath, PA 18014 https://www.giantcement.com/ 6507 Nor Bath Blvd. Bath, PA 18014 Type I, II, and III		----
KEYST 15 Terminal	Keystone Cement Company, Route 329, P.O. Box A, Bath, PA 18014 Adrian Terminal 719 Tarrtown Road Adrian, PA 16210 Type I, II, and III		2017-267Q
LAFR1 15 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.holcim.us/ Buffalo Cement Terminal 575 Ohio Street Buffalo, NY 14203 Formerly Lafarge North America Type I, II, and III Type IL(13) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		----- -----
LAFR1015 Plant	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.holcim.us/ Ravena Cement Plant 1916 Route 9 W Ravena, NY 12143 Formerly Lafarge North America Type I and II Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	3/25/2010	----- -----



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Product	Name	Letter Date	Ref. No.
LAFR1715	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052	https://www.holcim.us/	
Terminal	Pittsburg Terminal 1529 Chartiers Avenue Pittsburgh, PA 15204		
	Formerly Lafarge North America		
Type I and II with Limestone	Terminal for HOLI4 15 (Hagerstown, MD)		----
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
Type IL(10)	Terminal for HOLI4 15, Ref No. 2022-163 (Hagerstown, MD)		2022-163Q
	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		
LAFR2 15	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052	https://www.holcim.us/	
Terminal	Cleveland Cement Terminal/Slag 2500 Elm Street Cleveland, OH 44113		
	Formerly Lafarge North America		
Type I, II, and III			----
LAFR3 15	Lafarge Canada, A Member of Holcim Group, 6509 Airport Road, Mississauga, Ontario	https://www.lafarge.ca/en	
Plant	6501 Hwy 33 West P.O. Box 160 Bath, Ontario K0H 1G0		
Type I			----
Type I, II, and III with Limestone		1/17/2008	2017-275Q
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
Type III			----
Type IL(13)	OneCem		2022-006
	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		



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Product	Name	Letter Date	Ref. No.
LAFR5 15 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.holcim.us/ Oswego Cement Terminal 1 West Van Buren Street Oswego, NY 13126 Formerly Lafarge North America		
	Type I and II <i>Note: Type I and II cements are no longer being stored at the Oswego, NY terminal. Concrete plants can continue to use any remaining inventory of Type I and II cements received from the Oswego, NY terminal.</i>		----
	Type III		----
	Type IL(13) OneCem Terminal for LAFR3 15, Ref. No. 2022-006 (Bath, Ontario) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		----
LAFR7 15 Plant	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.holcim.us/ Whitehall Cement Plant 5160 Main Street Whitehall, PA 18052 Formerly Lafarge North America		
	Type I		2001-095Q
	Type I, II, and III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	12/16/2009	2013-146Q
	Type III		2001-095Q
	Type IL(13) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2022-056Q
	Type IS(25)		2019-243Q
	Type IS(30)		2005-002Q
	Type IS(40)		2008-021Q
	Type IT(S25)(L10)		2022-224Q
	Type IT(S35)(L9) <i>Provisionally Approved: Under the provisional approval, Holcim (US) Inc. is required to submit a total of 30 lots of test data by December 31, 2024.</i>		2022-225Q



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Product	Name	Letter Date	Ref. No.
LAFR8 15 Plant	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Joppa Cement Plant 2500 Portland Road Grand Chain, IL 62941 <i>Formerly Lafarge North America</i> Type I, II, and III	https://www.holcim.us/	1991-153
LAFR9 15 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Belpre Cement Terminal 1684 State Route 618 Belpre, OH 45714 <i>Formerly Lafarge North America</i> Type I, II, and III <i>Terminal for LAFR8 15, Ref. No. 1991-153 (Joppa Cement Plant - Grand Chain, IL)</i>	https://www.holcim.us/	1993-402Q
LEH-1 15 Plant	Lehigh Cement Company, Heidelberg Materials, 675 Quaker Hill Road, Union Bridge, MD 21791 Union Bridge, MD Type I, II, II MH, and III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i> Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	https://heidelbergmaterials.us/ 3/11/2008	----- 2021-009Q
LEH-2 15 Plant	Lehigh White Cement Company LLC, 200 Hokes Mill Road, York, PA 17404 200 Hokes Mill Road York, PA 17404 Type I White Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	https://www.lehighwhitecement.com/ 4/6/2009	1989-253 -----
LEH-3 15 Plant	Lehigh Cement Company, Heidelberg Materials, 537 Evansville Road, Fleetwood, PA 19522 Evansville Plant, Fleetwood, PA Type I, II, II MH, and III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i> Type IS(40) Type IS(50)	https://heidelbergmaterials.us/	----- 1999-152Q 2019-035Q



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Product	Name	Letter Date	Ref. No.
LEH-4 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 100 Woodlawn Road, Aliquippa, PA 15001-5404	https://heidelbergmaterials.us/	
	Aliquippa, PA		
	Type I and II with Limestone	Terminal for LEH-1 15, Ref. Ltr. 03/11/2008 (Union Bridge, MD)	2003-110Q
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type IL(10)	Terminal for LEH-1 15, Ref. No. 2021-009Q (Union Bridge, MD)	2021-009Q
	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		
LEH-5 15 Plant	Lehigh Cement Company, Heidelberg Materials, 200 Mill Creek Road, Mitchell, IN 47446	https://www.heidelbergmaterials.us/	
	200 Mill Creek Road Mitchell, IN 47446		
	Type III		2023-187Q
	Type IL(10)		2023-004Q
	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		
LEH-7 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 3100 Mertens Avenue, Baltimore, MD 21224	https://heidelbergmaterials.us/	
	Baltimore, MD		
	Type I and II with Limestone	Terminal for LEH-1 15, Ref. Ltr. 03/11/2008 (Union Bridge, MD)	2012-010QAB
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
	Type IL(10)	Terminal for LEH-1 15, Ref. No. 2021-009 (Union Bridge, MD)	2021-009Q
	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		
LEH-8 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 361 Boxart Street, Rochester, NY 14612	https://heidelbergmaterials.us/	
	361 Boxart Street Rochester, NY 14612		
	(Formerly Essroc ESS-8 15)		
	Type I and II with Limestone	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)	2000-004Q
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		



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Product	Name	Letter Date	Ref. No.
LEH-9 15 Plant	Lehigh Cement Company, Heidelberg Materials, 3938 Easton Nazareth Highway, Nazareth, PA 18064 3938 Easton Nazareth Highway Nazareth, PA 18064 (Formerly Essroc ESS-7 15)	https://heidelbergmaterials.us/	
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Plant 1 - Limestone Source: Pennsy Supply		2013-071Q
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Plant 1 - Saylor's Portland Cement - Limestone Source: Medford Fines (Martin Marietta Materials)		2019-037Q
Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Plant 1 - Saylor's Portland Cement - Limestone Source: Nazareth Limestone		2020-157Q
Type I, II, and III	Plant 3		1997-187
Type III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Plant 1		1997-187
Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	Plant 1		2018-244Q
LEH11 15 Plant	Lehigh Cement Company, Heidelberg Materials, Highway 49 South, Picton, Ontario KOK 2T0 Picton, Ontario, Canada (Formerly Essroc ESS11 15)	https://heidelbergmaterials.us/	
Type I and II			2005-087Q
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		6/9/2011	-
Type IL(12) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	Type IL		2019-004Q



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Product	Name	Letter Date	Ref. No.
LEH12 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 29 West First Street, Oswego, NY 13126 https://heidelbergmaterials.us/ Oswego, NY (Formerly Essroc ESS12 15) Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2005-088Q
LEH13 15 Plant	Lehigh Cement Company, Heidelberg Materials, Highway 31, Speed, IN 47172 https://heidelbergmaterials.us/ Speed, IN (Formerly Essroc ESS13 15) Type I and II Type I, II, and III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i> Type III		2009-024QAB 2017-354Q 2009-162Q
LEH14 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 1101 Erieside Extended, Cleveland, OH 44114 https://heidelbergmaterials.us/ Cleveland, OH (Formerly Essroc ESS14 15) Type II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2010-018Q



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Product	Name	Letter Date	Ref. No.
LEH16 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 8282 Middlebranch Road, Middlebranch, OH 44652 [Slag Plant, Cement Terminal] Middlebranch, OH 44652 (Formerly Essroc ESS-4 15)	https://heidelbergmaterials.us/	
Type I	Terminal for LEH-9 15, Ref. No. 1997-187 (Nazareth, PA)		2015-041Q
Type I and II	Terminal for LEH13 15, Ref. No. 2009-024QA/QB (Speed, IN)		2009-024QAB
Type I, II, and III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH-1 15, 3/11/2008 (Union Bridge, MD)		----
Type I, II, and III with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for LEH13 15, Ref. No. 2017-354Q (Speed, IN)		2017-354Q
Type II	Terminal for LEH11 15, Ref. No. 2005-087Q (Picton, Ontario)		2010-113QB
Type III	Terminal for LEH13 15, Ref. No. 2009-162Q (Speed, IN)		2010-113QA
Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	Terminal for LEH-1 15, Ref. No. 2021-009 (Union Bridge, MD Plant)		2021-009Q
LEH17 15 Terminal	Heidelberg Materials North America, 7660 Imperial Way, Allentown, PA 18195 Penn Mag, Inc. 719 Tarrtown Road Adrian, PA 16210	https://www.heidelbergmaterials.us/	
Type IL(10) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>	Terminal for LEH-1 15, Ref. No. 2021-009Q (Union Bridge, MD)		2023-061Q



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Product	Name	Letter Date	Ref. No.
LEH18 15 Terminal	Heidelberg Materials North America, 7660 Imperial Way, Allentown, PA 18195 https://www.heidelbergmaterials.us/ Youngwood Terminal - Transpac, Inc. 1000 Willow Crossing Road Greensburg, PA 15601		
Type I and II	Terminal for LEH-3 15 (Evansville Plant, Fleetwood, PA) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		----
Type IL(10)	Terminal for LEH-1 15, Ref. No. 2021-009Q (Union Bridge, MD) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2023-068Q
LEHN0 15 Plant	Lehigh Cement Company, Heidelberg Materials, 313 Warren Street, Glen Falls, NY 12801 https://heidelbergmaterials.us/ Glen Falls, NY		
Type I, II, and III with Limestone	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2011-180QABC
MCINN 15 Plant	St Marys Cement, McInnis Plant, 50 Oak Point Avenue, Bronx, NY 10474 https://mcinniscement.com/ 50, Road 132 Port Daniel-Gascons (Quebec), QC G0C-2N0 <i>Formerly McInnis Cement Company</i>		
Type I and II with Limestone	Type I/II Cement <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2019-249Q
Type III with Limestone	Type III Cement <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		2020-186Q
MEDC1 15 Plant	Medcem Madencilik, Atasehir Bulvari, Metropol Istanbul, C-2 Blok, 34758, Istanbul, Türkiye http://www.medcem.com.tr/en/home Akdere Köyü Bagalari Mevkii Silifke/MERSIN		
Type I and II	<i>Plant Verification (PV) samples for this plant are submitted by Silvi Cement under the RIVERT15 supplier code.</i>		2019-121Q



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Product	Name	Letter Date	Ref. No.
RIVERT15 Terminal	Silvi Cement, 355 Newbold Road, Fairless Hills, PA 19030 https://www.silvi.com/ 7900 N. Radcliffe Street Bristol, PA 19007 <i>Formerly Riverside Construction Materials</i>		
Type I	Terminal for MEDC1 15, Ref. No. 2019-121 (Mersin, Turkey) <i>NOTE: Cement is shipped from the Medcem Madencilik Plant in Mersin, Turkey (MEDC1 15). Plant Verification (PV) samples are submitted by the Silvi Cement/Riverside Construction Materials terminal in Bristol, PA (RIVERT15).</i>		2019-097Q
Type I with Limestone	Terminal for TITAN 15, Ref. No. 2016-132 (Elefsina, Greece) <i>Per AASHTO M85, Portland cement with up to 5% limestone addition. NOTE: Cement is shipped from the Kamari Plant in Elefina, Greece (TITAN 15). Plant Verification (PV) samples are submitted by the Silvi Cement/Riverside Construction Materials terminal in Bristol, PA (RIVERT15).</i>		2016-098Q
STMC1 15 Plant	St. Marys Cement, Votorantim Cimentos, 9333 Dearborn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/ 585 Water Street P.O. Box 1000 St. Marys, Ontario N4X 1B6		
Type I, II, and II MH with Limestone	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	10/6/2010	1998-318Q
Type III	<i>For cement without limestone addition.</i>		1988-318
Type IL(13)	<i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		2020-080Q



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Product	Name	Letter Date	Ref. No.
STMC2 15 Plant	St. Marys Cement, 9333 Dearborn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/ Bowmanville, Ontario		
Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		10/6/2010	1997-097
Type II and II MH with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>			2013-248QAB
Type III <i>For cement without limestone addition.</i>			1997-097
Type IL(13) <i>Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>			2020-068Q
STMC3 15 Terminal	St. Marys Cement, 9333 Dearborn Street, Detroit, MI 48209 http://www.stmaryscement.com/saintmaryscementinc/ Buffalo, NY		
Type I and II with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for STMC1 15, Ref. No. 1988-318 (St. Marys, Ontario)		1999-1959Q
Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		1999-1959Q
Type III <i>For cement without limestone addition.</i>	Terminal for STMC1 15, Ref. No. 1988-318 (St. Marys, Ontario)		1999-1959Q
Type III <i>For cement without limestone addition.</i>	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		1999-1959Q
STMC5 15 Terminal	St. Marys Cement, 2301 Front Street, Toledo, OH 43605 http://www.stmaryscement.com/saintmaryscementinc/ Toledo, OH		
Type I with Limestone <i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)		2008-116Q



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STMC6 15 Terminal	St. Marys Cement, 250 Jefferson Street, Cleveland, OH 44113	http://www.stmaryscement.com/saintmaryscementinc/	
	Cleveland, OH		
	Type I with Limestone	Terminal for STMC2 15, Ref. No. 1997-097 (Bowmanville, Ontario)	2008-117QA
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition.</i>		
TITAN 15 Plant	Titan Cement Company, Kalkidos 22A, 11143 Athens, Greece	http://www.titan-cement.com/en/	
	Kamari Plant: Elefsina, Greece		
	Type I, II, and II MH with Limestone	Riverside Cement, Essex Cement	2016-132
	<i>Per AASHTO M85, Portland cement with up to 5% limestone addition. NOTE: Cement is shipped to a Riverside Construction Materials terminal in Bristol, PA (RIVERT15) or Essex Cement Company terminal in Newark, NJ (ESSEX 15). Plant Verification samples are submitted by the terminals.</i>		
	Type IL(13)		2021-209Q
	<i>Provisionally Approved: Under the provisional approval, Titan Cement Company is required to submit a total of 30 lots of Type IL test data by October 3, 2022. Per AASHTO M240, Portland cement with more than 5% but less than or equal to 15% limestone addition.</i>		



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Section 702: Asphalt Material

702a Asphalt Cement

Last Revised: 5/6/2015

ASTM D 3141: Asphalt for undersealing Portland-cement concrete pavements

WA-1: Asphalt cement for use in paint coat waterproofing

WM-1: Asphalt cement for use as a mopping coat in the construction of a membrane system of waterproofing [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

J-1: Due to insignificant use and availability, the specifications for J-1 have been removed from Pub 37 (Bulletin 25). Copies of these specifications from the 1986 Edition can be obtained from the Laboratory Testing Section (LTS).

Product	Name	Ref. No.
ATLMC 15	Atlas Minerals and Chemicals, Inc., 1227 Valley Road, P.O. Box 38, Mertztown, PA 19539-0038 http://www.atlasmin.com/	
ASTM D 3141		----
WA-1		----
WM-1		----
PUREA 15	Pure Asphalt Company, 3455 West 31st Street, Chicago, IL 60623 http://www.pureasphalt.com/	
ASTM D 3141		----
SOLAR 15	Solar Compounds, 1201 West Blancke Street, Linden, NJ 07036 http://www.solarcompounds.com/	
J-1		----
TRUM1 15	Trumbull Asphalt, Division of Owens Corning, 7800 West 59th Street, Summit, IL 60501 http://www.owenscorning.com/trumbull/ Refinery Kearny, NJ	
ASTM D 3141		2005-001Q
TRUM3 15	Trumbull Asphalt, Division of Owens Corning, 7800 West 59th Street, Summit, IL 60501 http://www.owenscorning.com/trumbull/ Refinery Medina, OH	
ASTM D 3141		----
ZECH0 15	Zeigler Chemical Corporation, 600 Prospect Avenue, Piscataway, NJ 08854 http://zieglerchemical.com/	
WA-1		----
WM-1		----



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Section 702: Asphalt Material

702b Cutback Asphalt

Last Revised: 4/21/2021

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
ASP-2 15	Asphalt Paving Systems, 500 North Egg Harbor Road, P.O. Box 500, Hammonton, NJ 08037-0500 http://www.asphaltpavingsystems.com/ Formerly Shore Slurry Seal, Inc. (SHORE 15)	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
ATLMC 15	Atlas Minerals and Chemicals, Inc., 1227 Valley Road, P.O. Box 38, Mertztown, PA 19539-0038 http://www.atlasmin.com/	
MC-30		1999-116Q
MC-400		1999-116Q
MC-70		1999-116Q
MC-800		1999-116Q
RC-250		1999-116Q
RC-70		1999-116Q
RC-800		1999-116Q
WP-1		1999-116Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 702: Asphalt Material

702b Cutback Asphalt

Last Revised: 4/21/2021

Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
COOPC 15 Coopers Creek Chemical Corporation, 884 River Road, West Conshohocken, PA 19428-2699 http://cooperscreekchemical.com/		
MC-30		2000-119Q
MC-400		2000-119Q
MC-70		2000-119Q
MC-800		2000-119Q
RC-250		2000-119Q
RC-70		2000-119Q
RC-800		2000-119Q
WP-1		2000-119Q
HENCO 15 Henry Company, 336 Cold Stream Road, Kimberton, PA 19442 http://us.henry.com/		
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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Section 702: Asphalt Material

702b Cutback Asphalt

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Product	Name	Ref. No.
MARFR 15 Frank Martuccio Asphalt and Paving, Inc., 1059 Mercer Avenue, Hermitage, PA 16148		
MC-30		2006-067Q
MC-400		2006-067Q
MC-70		2006-067Q
MC-800		2006-067Q
RC-250		2006-067Q
RC-70		2006-067Q
RC-800		2006-067Q
WP-1		2006-067Q
MDL-3 15 Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 http://www.midlandasphalt.com/		
Terminal	Clearfield, PA	
	Formerly Whitaker Road (WHITR 15)	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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Section 702: Asphalt Material

702b Cutback Asphalt

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Product	Name	Ref. No.
PECKH 15 Peckham Materials Corporation, 2 Union Street Extension, Athens, NY 12015 https://peckham.com/company/peckham-materials-corp/		
MC-30		1999-133Q
MC-400		1999-133Q
MC-70		1999-133Q
MC-800		1999-133Q
RC-250		1999-133Q
RC-70		1999-133Q
RC-800		1999-133Q
WP-1		1999-133Q
RUSS0 15 Russell Standard Corporation, 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137 http://www.russellstandard.com/		
Terminal 1210 Perry Highway P.O. Box 509 Mercer, PA 16137		
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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Product	Name	Ref. No.
RUSS3 15	Russell Standard Corporation, Hammaker East, LTD, 118 Siloam Road, Chambersburg, PA 17201	http://www.russellstandard.com/
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
RUSS7 15	Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238	http://www.russellstandard.com/
Facility	3450 Asiatic Avenue Baltimore, MD 21226	
MC-30		2018-213Q
MC-400		2018-213Q
MC-70		2018-213Q
MC-800		2018-213Q
RC-250		2018-214Q
RC-70		2018-214Q
RC-800		2018-214Q
WP-1		2018-214Q



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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
SEABD 15 Seaboard Asphalt Products Company, 3601 Fairfield Road, Baltimore, MD 21226 http://seaboardasphalt.com/		
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
SUIT1 15 Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
Facility 505 Como Park Blvd. Buffalo, NY		
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----



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	Product	Name	Ref. No.
SUIT3 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	Cortland, NY		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
WP-1		----	
SUIT4 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	20 Fairground Lane Watkins Glen, NY		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
WP-1		----	



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	Product	Name	Ref. No.
SUIT5 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	Jamestown, NY		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
WP-1		----	
SUIT6 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	New York State Route 19 Belmont, NY		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
WP-1		----	



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Section 702: Asphalt Material

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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

	Product	Name	Ref. No.
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	10965 McHenry Street Meadville, PA		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
	WP-1		----
UAC-1 15 Plant	United Asphalt Company, P.O. Box 291, Cedar Brook, NJ 08018 https://unitedasphalt.com/asphalt-cutbacks/		
	237 North Grove Street Berlin, NJ 08009		
	RC-250	Del-Val RC-250	2019-024Q
	RC-70	Del-Val RC-70	2019-023Q
	RC-800	Del-Val RC-800	2019-025Q
UNRC0 15 Refinery	United Refining Company, P.O. Box 780, Warren, PA 16365 http://www.urc.com/		
	15 Bradley Street Warren, PA 16365		
	MC-30		----
	MC-400		----
	MC-70		----
	MC-800		----
	RC-250		----
	RC-70		----
	RC-800		----
	WP-1		----



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Section 702: Asphalt Material

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Cutback Asphalt includes: MC-30, MC-70, MC-400, MC-800, RC-70, RC-250, RC-800 and WP-1 [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

Product	Name	Ref. No.
UNRC1 15 United Refining Company, 15 Bradley Street, P.O. Box 780, Warren, PA 16365-0780 http://www.urc.com/		
Terminal	Springdale Terminal Springdale, PA	
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----
ZECH0 15 Zeigler Chemical Corporation, 600 Prospect Avenue, Piscataway, NJ 08854 http://zieglerchemical.com/		
MC-30		----
MC-400		----
MC-70		----
MC-800		----
RC-250		----
RC-70		----
RC-800		----
WP-1		----

702c Emulsified Asphalt

Last Revised: 8/4/2023



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 8/4/2023

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 77, and Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each facility listed in Bulletin 15 must be submitted to the Department. Failure to submit the annual QC Plan by March 31st of each year will result in a temporary suspension from supplying emulsified asphalts to PennDOT projects until the document is received and approved by the Department. [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
AEI-1 15 Facility	Asphalt Emulsion Industries, LLC, 3617 Nine Mile Road, Richmond, VA 23223 AEI Richmond 1524 Valley Road Richmond, VA 23222	https://www.asphalt-emulsion.com/	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T
			2021-036Q
			EM Type 3: SS-1hP, CSS-1hP, CQS-1hP
AEI-2 15 Facility	Asphalt Emulsion Industries, LLC, 3617 Nine Mile Road, Richmond, VA 23223 AEI Chesterfield 7700 Fort Darling Road Richmond, VA 23237	https://www.asphalt-emulsion.com/	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T
			2021-098Q
			EM Type 2: RS-2P, CRS-2P, HFRS-2P
AEI-3 15 Facility	Asphalt Emulsion Industries, LLC, 3617 Nine Mile Road, Richmond, VA 23223 AEI Manassas 8730 Vulcan Lane Manassas, VA 20109	https://www.asphalt-emulsion.com/	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP
			2021-038Q



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Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 8/4/2023

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 77, and Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each facility listed in Bulletin 15 must be submitted to the Department. Failure to submit the annual QC Plan by March 31st of each year will result in a temporary suspension from supplying emulsified asphalts to PennDOT projects until the document is received and approved by the Department. [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
ASP-1 15 Asphalt Paving Systems, 8th St. & Reading Ave., P.O. Box 530, Hammonton, NJ 08037 http://www.asphaltpavingsystems.com/ <i>Formerly ASPPS 15</i>		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-098Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		-----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		-----
EM Type 7: UTFCEM		-----
DOSK0 15 Dosch-King Emulsions, Inc., 16 Troy Hills Road, Whippany, NJ 07981 http://doschking.net/index.html		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		-----
EM Type 2: RS-2P, CRS-2P, HFRS-2P		-----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		-----
EM Type 7: UTFCEM		-----



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Section 702: Asphalt Material

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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 77, and Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each facility listed in Bulletin 15 must be submitted to the Department. Failure to submit the annual QC Plan by March 31st of each year will result in a temporary suspension from supplying emulsified asphalts to PennDOT projects until the document is received and approved by the Department. [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
KAP-1 15	Kuhnsville Asphalt Products, 6661 Tilgham Street, Allentown, PA 18106	https://www.kvasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2019-080Q
LINP0 15	Lindy Paving, Inc., 1807 Shenango Road, New Galilee, PA 16141	https://www.pjdick.com/paving/	
Terminal	4551 West State Street Hillsville, PA 16132		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2010-040Q
LINP1 15	Lindy Paving, Inc., 1807 Shenango Road, New Galilee, PA 16141	https://www.pjdick.com/paving/	
Terminal	4200 Neville Road Pittsburgh, PA 15225		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2022-063Q



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Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 8/4/2023

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
MARFR 15 Frank Martuccio Asphalt and Paving, Inc., 1059 Mercer Avenue, Hermitage, PA 16148		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
MDL-1 15 Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 http://www.midlandasphalt.com/ Formerly MDLAC 15		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----
EM Type 6: EDP		----
EM Type 7: UTFCEM		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
MDL-2 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 http://www.midlandasphalt.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P	----
	EM Type 4: AEP	----
	EM Type 5: E-1 Prime	----
	EM Type 6: EDP	----
	EM Type 7: UTFCEM	----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
MDL-3 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 http://www.midlandasphalt.com/	
	Clearfield, PA	
	Formerly Whitaker Road (WHITR 15)	
EM Non-Standard	FastTack	2010-128
	<i>Conditionally approved per manufacturer's specifications. FastTack system includes an adhesion agent (MC), an emulsified asphalt and a breaking agent (Rupteur XC).</i>	
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-126Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----
EM Type 6: EDP		----
EM Type 7: UTFCEM		----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 8/4/2023

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 77, and Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each facility listed in Bulletin 15 must be submitted to the Department. Failure to submit the annual QC Plan by March 31st of each year will result in a temporary suspension from supplying emulsified asphalts to PennDOT projects until the document is received and approved by the Department. [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
MDL-4 15 Terminal	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388 http://www.midlandasphalt.com/ Bloomsburg, PA	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P	----
	EM Type 4: AEP	----
	EM Type 5: E-1 Prime	----
	EM Type 6: EDP	----
	EM Type 7: UTFCEM	----
NEAS1 15 Terminal	New England Asphalt Services, LLC, dba Empire Emulsions, 508 Forest Road, Northford, CT 06742 https://newenglandasphalt.com/ Empire Emulsions 1297 Craigville Road Chester, NY 10918	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	2019-047Q



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
RUSS0 15	Russell Standard Corporation, 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137	http://www.russellstandard.com/
Terminal	1210 Perry Highway P.O. Box 509 Mercer, PA 16137	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T (Also evaluated per PEQ 2018-033Q)	2018-111Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P	----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP	----
	EM Type 4: AEP	----
	EM Type 5: E-1 Prime	----
	EM Type 7: UTFCEM	----
RUSS1 15	Russell Standard Corporation, 990 Hazel Street, Akron, OH 44305	http://www.russellstandard.com/
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	2018-015Q



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
RUSS3 15	Russell Standard Corporation, Hammaker East, LTD, 118 Siloam Road, Chambersburg, PA 17201	http://www.russellstandard.com/
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2008-172Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----
EM Type 7: UTFCEM		----
RUSS6 15	Russell Standard Corporation, P.O. Box 802, Mars, PA 16046	http://www.russellstandard.com/
Terminal Mars, PA		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 5: E-1 Prime		----



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EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
RUSS7 15	Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238	http://www.russellstandard.com/
Facility	3450 Asiatic Avenue Baltimore, MD 21226	
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2018-112Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----



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Section 702: Asphalt Material

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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
RUSS8 15	Russell Standard Corporation, 3847 Pottsville Pike, Reading, PA 19605 http://www.russellstandard.com/	
	Formerly Ergon Asphalt & Emulsions, Inc. (ERG01 15)	
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T (Also evaluated per PEQ 2018-114Q)		2018-113Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		-
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		-
EM Type 4: AEP		-
EM Type 6: EDP		2020-241Q
EM Type 7: UTFCEM		----



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Section 702: Asphalt Material

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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SHSA1 15 Terminal	Shelly & Sands Inc., 3570 South River Road, P. O. Box 1585, Zanesville, OH 43702	S&S Terminal & Emulsions 1731 Old State Route 7 Rayland, OH	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	http://shellyandsands.com/	2018-205Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
SHSA2 15 Facility	Shelly & Sands, Inc., 3570 South River Road, Zanesville, OH 43702	S & S Emulsions 1731 Old SR #7 Rayland, OH 43943	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T	http://shellyandsands.com/	2018-205Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
SPEEM 15	Specialty Emulsions, Inc., 1194 Zinns Quarry Road, York, PA 17404	http://specialtyemulsionsinc.com/
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T <i>Product name for NTT: EM-50-TT</i>		2011-084Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
SUIT1 15	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/
Facility 505 Como Park Blvd. Buffalo, NY		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
EM Type 4: AEP		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
SUIT3 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/	
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-231Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----
EM Type 6: EDP		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT4 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	20 Fairground Lane Watkins Glen, NY		
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

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	Product	Name	Ref. No.
SUIT5 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		2018-161Q
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

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NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT6 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		----
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		2018-143Q
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----



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EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 77, and Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each facility listed in Bulletin 15 must be submitted to the Department. Failure to submit the annual QC Plan by March 31st of each year will result in a temporary suspension from supplying emulsified asphalts to PennDOT projects until the document is received and approved by the Department. [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

	Product	Name	Ref. No.
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T		2017-232Q
	EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
	EM Type 4: AEP		----
	EM Type 5: E-1 Prime		----
	EM Type 6: EDP		----
	EM Type 7: UTFCEM		----
TERAS 15	Terry Asphalt Materials, Inc., 8 Standen Dr., Hamilton, OH 45015	http://terryasphalt.com/index.html	
	EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 702: Asphalt Material

702c Emulsified Asphalt

Last Revised: 8/4/2023

EM TYPE 1 = TACK, NTT/CNTT, RS-1/CRS-1, RS-2/CRS-2, MS-2/CMS-2, CMS-2s, SS-1/CSS-1, SS-1h/CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, and AE-T

EM TYPE 2 = RS-2P, CRS-2P, and HFRS-2P

EM TYPE 3 = SS-1hP, CSS-1hP, and CQS-1hP

EM TYPE 4 = AEP ~ EM TYPE 5 = E-1 Prime ~ EM TYPE 6 = EDP ~ EM TYPE 7 = UTFCEM

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 77, and Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each facility listed in Bulletin 15 must be submitted to the Department. Failure to submit the annual QC Plan by March 31st of each year will result in a temporary suspension from supplying emulsified asphalts to PennDOT projects until the document is received and approved by the Department. [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

NOTE: NTT and CNTT non-tracking tack coats are listed with EM TYPE 1 emulsions.

Product	Name	Ref. No.
VESTA 15 Vestal Asphalt, Inc., 209 Stage Road, Vestal, NY 13850 http://vestalasphalt.com/		
EM Type 1: TACK, NTT, CNTT, RS-1, CRS-1, RS-2, CRS-2, MS-2, CMS-2, CMS-2s, SS-1, CSS-1, SS-1h, CSS-1h, HFMS-2h, HFMS-2, HFMS-2s, HFRS-2, E-10, AE-T <i>(Also evaluated per PEQ 2018-232Q)</i>		2019-075Q
EM Type 2: RS-2P, CRS-2P, HFRS-2P		----
EM Type 3: SS-1hP, CSS-1hP, CQS-1hP		----
EM Type 4: AEP		----
EM Type 5: E-1 Prime		----
EM Type 6: EDP		2018-248Q
EM Type 7: UTFCEM		2018-246Q

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

PGAB Grades not listed in Bulletin# 25 (Specifications for Asphalt/Bituminous Materials) are Restricted Use Non-Standard Grades. Materials Testing Laboratory must be contacted prior at (717) 787-2707 to use. Participation in an AASHTO facility audit for Asphalt Binder Suppliers (ABS) is not currently required.

Product	Name	NTPEP Test Number	Ref. No.
ASSA1 15 Refinery	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011 http://associatedasphalt.com/		
	Associated Asphalt Paulsboro 4 Paradise Road Paulsboro, NJ 08066-1740		
	(Formerly AXON1 15)		
	PG 58S-28		2005-110Q
	PG 58S-28 Modified with Evotherm M1		2009-093Q
	Warm Mix Technology with Anti-Strip Additives		
	PG 64E-22		----
	PG 64E-22 Modified with Evotherm M1		2009-040Q
	Warm Mix Technology with Anti-Strip Additives		
	PG 64S-22		----
	PG 64S-22 Modified with Evotherm M1		2009-046Q
	Warm Mix Technology with Anti-Strip Additives		
ASSA2 15 Terminal	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011 http://associatedasphalt.com/		
	Associated Asphalt Baltimore 1955 Chesapeake Avenue Baltimore, MD 21226		
	PG 64S-22		2019-209Q



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

PGAB Grades not listed in Bulletin# 25 (Specifications for Asphalt/Bituminous Materials) are Restricted Use Non-Standard Grades. Materials Testing Laboratory must be contacted prior at (717) 787-2707 to use. Participation in an AASHTO facility audit for Asphalt Binder Suppliers (ABS) is not currently required.

Product	Name	NTPEP Test Number	Ref. No.
ASSA3 15 Terminal	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011 http://associatedasphalt.com/		
	Associated Asphalt Baltimore 1800 Frankfurst Avenue Baltimore, MD 21226 (Formerly AXON3 15)		
	PG 58S-28		----
	PG 58S-28 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives <i>Terminal for ASSA1 15, Ref. No. 2009-093Q</i>		2012-042Q
ASSA3 15 Terminal	PG 64E-22		----
	PG 64E-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives <i>Terminal for ASSA1 15, Ref. No. 2009-040Q</i>		2012-046Q
	PG 64S-22		2008-104Q
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives <i>Terminal for ASSA1 15, Ref. No. 2009-046Q</i>		2012-045Q



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

PGAB Grades not listed in Bulletin# 25 (Specifications for Asphalt/Bituminous Materials) are Restricted Use Non-Standard Grades. Materials Testing Laboratory must be contacted prior at (717) 787-2707 to use. Participation in an AASHTO facility audit for Asphalt Binder Suppliers (ABS) is not currently required.

Product	Name	NTPEP Test Number	Ref. No.
ASSA4 15 Terminal	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011 Associated Asphalt Perth Amboy 920 High Street Perth Amboy, NJ 08861 <i>(Formerly AXON4 15)</i>	http://associatedasphalt.com/	
	PG 64S-22		----
ASSA5 15 Terminal	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011 Associated Asphalt Greensboro 100 South Chimney Rock Road Greensboro, NC 27409	http://associatedasphalt.com/	
	PG 64E-22		2023-100Q
	PG 64E-22 Modified with Evotherm M1		2023-101Q
	Warm Mix Technology with Anti-Strip Additives		



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
ASSA7 15 Terminal	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011	http://associatedasphalt.com/	
	Gloucester City Terminal 201 Water Street Gloucester City, NJ 08030		
	(Formerly AXON7 15)		
	PG 58S-28		2016-284Q
	PG 58S-28 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2022-209Q
	PG 64E-22		2009-097Q
	PG 64E-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2019-220Q
	PG 64S-22		2009-096Q
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2019-221Q



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
ASSAS 15	Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011	http://associatedasphalt.com/	
Terminal	Associated Asphalt Martinsburg, LLC 855 Corning Way Martinsburg, WV 25405		
	PG 58S-28		2022-118Q
	PG 58S-28 Modified with Evotherm M1		2022-119Q
	Warm Mix Technology with Anti-Strip Additives		
	PG 64E-22		2008-075Q
	PG 64E-22 Modified with Evotherm M1		2019-215Q
	Warm Mix Technology with Anti-Strip Additives		
	PG 64S-22		----
	PG 64S-22 Modified with Evotherm M1		2019-216Q
	Warm Mix Technology with Anti-Strip Additives		



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
BIT-0 15 Terminal	Bitumar USA, Inc., 6000 Pennington Avenue, Baltimore, MD 21226 http://www.bitumar.com/home.html		
	6000 Pennington Avenue Baltimore, MD 21226		
	<i>Baltimore, MD</i>		
	PG 58S-28		2008-085Q
	PG 58S-28 Modified with Evotherm J1		2019-038Q
	Warm Mix Technology with Anti-Strip Additives		
	PG 58S-28 Modified with Evotherm M1		2018-281Q
	Warm Mix Technology with Anti-Strip Additives		
	PG 64E-22		2008-048Q
PG 64E-22 Modified with Evotherm J1		2019-040Q	
Warm Mix Technology with Anti-Strip Additives			
PG 64E-22 Modified with Evotherm M1		2013-066Q	
Warm Mix Technology with Anti-Strip Additives			
PG 64S-22		2008-084Q	



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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	Product	Name	NTPEP Test Number	Ref. No.
BIT-0 15 Terminal	Bitumar USA, Inc., 6000 Pennington Avenue, Baltimore, MD 21226 http://www.bitumar.com/home.html 6000 Pennington Avenue Baltimore, MD 21226 <i>Baltimore, MD</i>	PG 64S-22 Modified with Evotherm J1 Warm Mix Technology with Anti-Strip Additives		2019-039Q
		PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2012-181QA
		PG 64S-22 Modified with Sasobit Warm Mix Technology		2011-118Q
		PG 64S-22 Modified with SonneWarmix Warm Mix Technology		2013-067Q
BIT-4 15 Terminal	Bitumar USA, Inc., 6000 Pennington Avenue, Baltimore, MD 21226 http://www.bitumar.com/home.html Canton Terminal 1622 S. Clinton Street Baltimore, MD 21224	PG 64S-22		2023-002Q
		PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2023-003Q



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
CAS-15 Terminal	Commercial Asphalt Supply, Inc., 5969 William Flynn Highway, Bakerstown, PA 15007 161 Plain Grove Road Slippery Rock, PA 16057		
		PG 58S-28	2022-095Q
		PG 64S-22	2024-034Q
ERIEM 15 Terminal	Erie Materials, Inc., 4507 Tiffin Ave, P.O. Box 2308, Sandusky, OH 44870 Sandusky, OH		
		PG 58S-28	2016-134Q
		PG 64S-22	2016-135Q
HAWG1 15 Terminal	Glenn O. Hawbaker, Inc., 1952 Waddle Road, State College, PA 16803 http://www.goh-inc.com/ Pleasant Gap, PA		
		PG 58S-28	2015-048Q
		PG 64S-22	----
MARA1 15 Refinery	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840 http://www.marathonpetroleum.com/ 11631 US Route 23 Catlettsburg, KY		
		PG 52-28	----
		PG 64S-22	----



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
MARA1015 Terminal	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840 21st Street at Nevada St Wellsville, OH 43968	http://www.marathonpetroleum.com/	----
	PG 64S-22		----
MARA2 15 Refinery	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840 301 S. Fort St Detroit, MI 48217	http://www.marathonpetroleum.com/	----
	PG 52-28		----
	PG 58S-28		2020-183Q
MARA3 15 Refinery	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840 2408 Gambinus Avenue, SW Canton, OH 44706	http://www.marathonpetroleum.com/	----
	PG 52-28		----
	PG 64S-22		----
MARA6 15 Terminal	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840 11001 Brower Road North Bend, OH 45052	http://www.marathonpetroleum.com/	----
	PG 64E-22		----



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
MARA7 15	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840	http://www.marathonpetroleum.com/	
Terminal	2000 Central Furnace Court Cleveland, OH 44115		
	PG 58S-28		----
	PG 64E-22		----
	PG 64S-22		----
MARA8 15	Marathon Petroleum Corporation, 539 South Main Street, Findlay, OH 45840	http://www.marathonpetroleum.com/	
Terminal	Floreffe PA Asphalt Terminal 1100 Glasshouse Road Jefferson Hills, PA 15025		
	PG 64E-22		----
	PG 64S-22		----
MDL-2 15	Midland Asphalt Materials, Inc, 640 Young Street, Tonawanda, NY 14151-0388	http://www.midlandasphalt.com/	
Terminal	Lyons, NY		
	PG 58S-28		----
	PG 64E-22		----
	PG 64S-22		----



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
PBFH0 15	PBF Holding, LLC, 1 Sylvan Way, Second Floor, Parsippany, NJ 07054		
Terminal	PBF Logistics Terminal, LLC 3400 S. 67th Street Philadelphia, PA 19153		
	PG 58S-28		2014-159Q
	PG 58S-28 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2016-008Q
	PG 64S-22		----
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2016-007Q
PBFH2 15	PBF Holding, LLC, 1 Sylvan Way, Second Floor, Parsippany, NJ 07054		
Refinery	Paulsboro Refining Company, LLC 800 Billingsport Road Paulsboro, NJ 08066		
	Note: Formerly PAUR- 15		
	PG 64S-22		----
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2022-068Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

Last Revised: 3/27/2024

Annual QC Plan Update Requirement (Per Section 702.1(a) of Pub 408, AASHTO R 26, and the PG Binder Supplier Requirements section of Pub 37 (Bulletin 25): During the first quarter of each year, an updated Quality Control Plan covering each refinery and storage terminal listed in Bulletin 15 must be submitted to the Department. The PG Binder Certification Document must also be submitted with the QC Plan. Failure to submit both documents by March 31st of each year will result in a temporary suspension from supplying asphalt binders to PennDOT projects until the documents are received and approved by the Department. [PG Binder Certification Document](#)

PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
RUSS0 15 Terminal	Russell Standard Corporation, 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137 1210 Perry Highway P.O. Box 509 Mercer, PA 16137	http://www.russellstandard.com/	
	PG 64S-22		----
RUSS8 15	Russell Standard Corporation, 3847 Pottsville Pike, Reading, PA 19605 <i>Formerly Ergon Asphalt & Emulsions, Inc. (ERG01 15)</i>	http://www.russellstandard.com/	
	PG 64E-22		2023-084Q
	PG 64E-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2023-231Q
	PG 64S-22		2023-056Q
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2023-214Q
SHSA1 15 Terminal	Shelly & Sands Inc., 3570 South River Road, P. O. Box 1585, Zanesville, OH 43702 S&S Terminal & Emulsions 1731 Old State Route 7 Rayland, OH	http://shellyandsands.com/	
	PG 64E-22		2019-124Q
	PG 64S-22		----



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Section 702: Asphalt Material

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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	Product	Name	NTPEP Test Number	Ref. No.
SUIT5 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160		http://www.suit-kote.com/	
	PG 58S-28			----
	PG 64E-22			----
	PG 64S-22			----



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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PGAB Specifications: [Pub 37 \(Bulletin 25\) Specifications for Bituminous Materials \(Nov. 2018 Edition\)](#)

AASHTO M 332 PGAB Grades: PG 52S-28, PG 58S-28, PG 64S-22, PG 64E-22 (Also referred to as Multiple Stress Creep Recovery - MSCR, where S = Standard; E = Extreme); AASHTO M 320 PGAB Grades: PG 52-28

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Product	Name	NTPEP Test Number	Ref. No.
SUIT7 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160	http://www.suit-kote.com/	
	PG 52-28		----
	PG 58S-28		----
	PG 58S-28 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2013-202Q
	PG 64E-22		----
	PG 64E-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2013-201Q
	PG 64S-22		----
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2011-071QB



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Section 702: Asphalt Material

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	Product	Name	NTPEP Test Number	Ref. No.
SUIT8 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/			
	10965 McHenry Street Meadville, PA			
	PG 58S-28			----
	PG 64E-22			----
	PG 64S-22			----
SUIT9 15 Facility	Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/			
	3900 River Road Tonawanda, NY 14150			
	PG 58S-28			2016-124Q
	PG 64E-22			2016-123Q
	PG 64S-22			2016-122Q
TRI-1 15 Terminal	All States Construction, LLC, 325 Amherst Road, P.O. Box 91, Sunderland, MA 01375 http://www.asmg.com			
	1 West Van Buren Street Oswego, NY 13126 <i>Formerly Tri State Materials</i>			
	PG 64S-22			----
	<i>Provisionally Approved</i>			



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Section 702: Asphalt Material

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	Product	Name	NTPEP Test Number	Ref. No.
TRI-2 15 Terminal	All States Construction, LLC, 325 Amherst Road, P.O. Box 91, Sunderland, MA 01375 301 Normanskill Street Albany, NY 12202 <i>Formerly All States Asphalt, LLC</i>		http://www.asmg.com	
	PG 58S-28		ABS-2022-01-005 (Modifying Supplier)	----
	PG 64S-22		ABS-2022-01-005 (Modifying Supplier)	----



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Section 702: Asphalt Material

702d Performance Grade Asphalt Binder (PGAB)

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Product	Name	NTPEP Test Number	Ref. No.
UNRC0 15 Refinery	United Refining Company, P.O. Box 780, Warren, PA 16365	http://www.urc.com/	
	15 Bradley Street Warren, PA 16365		
	PG 52S-28		----
	PG 58S-28		----
	PG 58S-28 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2012-021QA
	PG 58S-28 Modified with SonneWarmix RT Warm Mix Technology		2017-229Q
	PG 64S-22		----
	PG 64S-22 Modified with Evotherm M1 Warm Mix Technology with Anti-Strip Additives		2012-021QB
	PG 64S-22 Modified with SonneWarmix RT Warm Mix Technology		2017-228Q
UNRC1 15 Terminal	United Refining Company, 15 Bradley Street, P.O. Box 780, Warren, PA 16365-0780	http://www.urc.com/	
	Springdale Terminal Springdale, PA		
	PG 64S-22		----



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Section 702: Asphalt Material

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Product	Name	NTPEP Test Number	Ref. No.
WARMA 15	Warden Modified Asphalt L.P., 1210 Perry Highway, P.O. Box 509, Mercer, PA 16137	http://wardenasphalt.com/	
PG 64E-22			----
PG 64S-22			----



BULLETIN 15 (Publication 35)

Qualified Products List for Construction

Posted:
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Section 704: Cement Concrete

704 Producers of Ready Mix Concrete

See Bulletin 42, [Publication 42](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 705: Joint Material

705.1 Premolded Expansion Joint Filler

Last Revised: 9/27/2023

Product	Name	Ref. No.
CRAF6 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafcoc.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Supplier code formerly RTPTC 15</i> Fiber	Right-Joint	1997-047
DODGE 15 Ecore International, 715 Fountain Ave., Lancaster, PA 17601 https://www.ecoreintl.com/ <i>Formerly Dodge-Regupol, Inc.</i> Cork	CEJ 6510	1993-019
HUNTN 15 Hunton Fiber, P.O. Box 578, Grasonville, MD 21638 http://english.hunton.no/index.php Fiber	Nor-Board	2000-047Q
JDRSC 15 J.D. Russell Company, P.O. Box 36795, 4075 N. Hwy Dr., Tucson, AZ 85740 http://jdrussellco.com/ Preformed Rubber	Reflex	2000-243Q
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Cork Fiber Preformed Rubber <i>Initial approval: June 19, 1975</i>	Sealtight Cork Sealtight Fibre Sealtight Sponge	---- ---- ----
MEDW1 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Plant 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550 Cork Fiber Preformed Rubber <i>Initial approval: June 19, 1975</i>	Sealtight Cork Sealtight Fibre Sealtight Sponge	---- ---- ----
NOMAC 15 Nomaco, Inc., 501 Innovative Way, Zebulon, NC 27597 http://www.nomaco.com/ Preformed Polypropylene Foam Expansion Joint Filler	Nomaflex	2016-278



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 705: Joint Material

705.1 Premolded Expansion Joint Filler

Last Revised: 9/27/2023

Product	Name	Ref. No.
RTPTC 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Formerly RIGHT/POINTE, LLC</i> Fiber	Right-Joint	1997-047
STEIC 15 Steico SE, Otto-Lilienthal-Ring 30, Feldkirchen, Germany https://www.steico.com/en/ Fiber	Form Flex Expansion Joint	2017-088Q
TEMIN 15 Temple - Inland, 303 S. Temple Drive, Diboll, TX 75941 Fiber <i>Manufactured for J D Russell Company.</i>	Fiberflex	-----

705.2(b) Longitudinal Joint Material

Last Revised: 6/18/2019

Product	Name	Ref. No.
MIDPA 15 Mid-Park, Inc., 1021 Salt River Rd., Leitchfield, KY 42754 http://mid-park.com/ Tie Bolt	Standard Hook	1986-309
Tie Bolt	Wiggle Bolt	1986-308
SIMP1 15 American Highway, A Simplex Company, 2150 US Hwy 45-54, Kankakee, IL 60901 https://americanhighway.com/ <i>Formerly Dayton Superior Corporation (DAYT5 15)</i> Tie Bolt	Hook Bolt and Coupler	1994-066A
Tie Bolt	Wiggle Bolt and Coupler	1994-066B
SOEBS 15 Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 http://www.sebolt.com/ Tie Bolt	Standard Hook	1991-118
UNIQUE 15 Unique Industries, P.O. Box 683, Calera, AL 35040 http://www.uiind.com/ Plant 13488 Highway 25 North Calera, AL 35040 Tie Bolt		1999-002Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 705: Joint Material

705.2(b) Longitudinal Joint Material

Last Revised: 6/18/2019

Product	Name	Ref. No.
WADY- 15 Wady Industries, Inc., 510 E. Grove St., Maquoketa, IA 52060		
Tie Bolt	Wiggle Bolt (Slip Form)	1990-333B

705.3 Load Transfer Assemblies (Force-Transfer Units) for Reinforced and Plain Cement Concrete Pa

Last Revised: 1/31/2024

A Load Transfer Assembly includes contraction/expansion wire baskets and dowel bars. An approved supplier of Load Transfer Assemblies can supply the baskets without the dowels. [Standard Drawing of Load Transfer Assemblies RC-20M \(Publication 72M\)](#)

Steel Products Procurement Act applies. Manufacturers approved for 6:1 skewed and non-skewed joints with Type B coating, unless otherwise noted.

Product	Name	Ref. No.
CMTH1 15 CMT Highway, LLC, 2197 Yankee Avenue, Durant, IA 52747 http://cmthighway.com/		
Load Transfer Assembly		2017-316Q
Solid Steel Dowel Bars, Fabricator		2017-316Q
CMTH2 15 CMT Highway, LLC, 2197 Yankee Avenue, Durant, IA 52747 http://cmthighway.com/ Facility 3601 Morton Drive East Moline, IL 61244		
Steel Dowel Bars, Epoxy Coater		2022-039Q
CONTM 15 Contractors Materials Company, 10320 South Medallion Drive, Cincinnati, OH 45241 http://cmcmmi.com/		
Solid Steel Dowel Bars, Fabricator		2015-178Q
DAYT4 15 Dayton Superior Corporation, 4201 Montdale Drive, Valparaiso, IN 46383 http://www.daytonsuperior.com/ <i>Formerly Block Heavy & Highway Products Company (BH&HP 15)</i>		
Load Transfer Assembly		2000-344Q
Solid Steel Dowel Bars, Fabricator		2000-344Q
Steel Dowel Bars, Epoxy Coater		2000-343Q



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Section 705: Joint Material

705.3 Load Transfer Assemblies (Force-Transfer Units) for Reinforced and Plain Cement Concrete Pa Last Revised: 1/31/2024

A Load Transfer Assembly includes contraction/expansion wire baskets and dowel bars. An approved supplier of Load Transfer Assemblies can supply the baskets without the dowels. [Standard Drawing of Load Transfer Assemblies RC-20M \(Publication 72M\)](#)

Steel Products Procurement Act applies. Manufacturers approved for 6:1 skewed and non-skewed joints with Type B coating, unless otherwise noted.

Product	Name	Ref. No.
MDSP2 15	Meadow Burke Products, 6467 S. Falkenburg Road, Riverview, FL 33578 http://meadowburke.com/	
	Load Transfer Assembly	----
	Solid Steel Dowel Bars, Fabricator	----
	Steel Dowel Bars, Epoxy Coater	----
OCM-1 15	OCM Manufacturing LLC, 1120 E Peterson Road, Grayslake, IL 60030 http://www.ocm-inc.com/ Facility 250 Hansen Access Road King of Prussia, PA 19406 Formerly Vimco, Inc. (VIMC- 15)	
	Load Transfer Assembly	2012-242Q
	Solid Steel Dowel Bars, Fabricator	2012-242Q
ODOWEL1	O-Dowel, Inc., 1728 North Cleveland Avenue, Chicago, IL 60614 https://o-dowel.com/	
5	Hollow Tube Steel Dowel Bar	G40+Epoxy (tubular dowel) 2019-142Q
	<i>Provisionally Approved. Under provisional approval, the Department will continue to monitor its use, application, and performance through 1/30/2026.</i>	
SIMP1 15	American Highway, A Simplex Company, 2150 US Hwy 45-54, Kankakee, IL 60901 https://americanhighway.com/ Formerly Dayton Superior Corporation (DAYT5 15)	
	Load Transfer Assembly	----
	Solid Steel Dowel Bars, Fabricator	----
	Steel Dowel Bars, Epoxy Coater	1996-160
SIMRE 15	Simpson Reinforcing, Inc, 2001 Dr. Thomas Boulevard, New Kensington, PA 15068 http://www.simpsonrebar.com/	
	Solid Steel Dowel Bars, Fabricator	2021-047Q
	Steel Dowel Bars, Epoxy Coater	2021-047Q



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Section 705: Joint Material

705.3 Load Transfer Assemblies (Force-Transfer Units) for Reinforced and Plain Cement Concrete Pa

Last Revised: 1/31/2024

A Load Transfer Assembly includes contraction/expansion wire baskets and dowel bars. An approved supplier of Load Transfer Assemblies can supply the baskets without the dowels. [Standard Drawing of Load Transfer Assemblies RC-20M \(Publication 72M\)](#)

Steel Products Procurement Act applies. Manufacturers approved for 6:1 skewed and non-skewed joints with Type B coating, unless otherwise noted.

Product	Name	Ref. No.
TYEBR 15	TyE Bar, LLC, 1050 Ohio Avenue, Glassport, PA 15045 http://www.tyerebar.com/	
Facility	1050 Ohio Avenue Glassport, PA 15045	
	Load Transfer Assembly	2016-141Q
	Solid Steel Dowel Bars, Fabricator	2015-084Q
VIMC- 15	Vimco, Inc., 300 Hansen Access Road, King of Prussia, PA 19406 http://vimcoinc.com/ <i>Company name change to OCM Manufacturing LLC (OCM-1 15)</i>	
	Load Transfer Assembly	2012-242Q
	Solid Steel Dowel Bars, Fabricator	2012-242Q
WADY- 15	Wady Industries, Inc., 510 E. Grove St., Maquoketa, IA 52060	
	Load Transfer Assembly	1982-059
	Solid Steel Dowel Bars, Fabricator	1982-059
	Steel Dowel Bars, Epoxy Coater	1996-110

705.3(f) High Performance Dowel Bars

Last Revised: 4/13/2022

Product	Name	Ref. No.
JAR-1 15	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://artazn.com/	
Plant	2500 Old Stage Road Greeneville, TN 37744	
	Rolled Zinc Alloy Tubular Dowel Bar <i>Outside diameter of the approved dowel bar with zinc sleeve is 1.445". Nonmetallic caps on the ends of the tube that do not exceed the outside diameter of the tube can be used.</i>	LifeDowel, Type 2 (1.445" OD) 2016-164Q
	Rolled Zinc Alloy Tubular Dowel Bar <i>Outside diameter of the approved dowel bar with zinc sleeve is 1.695". Nonmetallic caps on the ends of the tube that do not exceed the outside diameter of the tube can be used.</i>	LifeDowel, Type 2 (1.695" OD) 2016-164Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 705: Joint Material

705.4(a) Silicone Joint Sealing Material

Last Revised: 2/2/2022

Product	Name	Ref. No.
CRAF0 15 Crafc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ Plant 121 Industrial Park Road Halls, TN 38040	Silicone Joint Sealant	Roadsaver Non-Sag Silicone (34902)
		2000-110Q
DOW-4 15 The Dow Chemical Company, 2200 W. Salzburg Road, P. O. Box 994, Midland, MI 48686 http://www.dow.com/ <i>Formerly Dow Corning Corporation</i>	Silicone Joint Sealant	DOWSIL 888 Silicone Joint Sealant
		1996-002
PECORA15 Pecora Corporation, 165 Wambold Road, Harleysville, PA 19438 https://www.pecora.com/	Silicone Joint Sealant	Pecora 301 NS
		2021-066Q
SIKA4 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 995 Towbin Avenue Lakewood, NJ	Silicone Joint Sealant	Sikasil 728 NS
		2012-210Q
TREM2 15 Tremco Construction Products Group, 3755 Green Road, Beachwood, OH 44122 https://www.tremcocpg.com/ Plant 220 Wicksteed Avenue Toronto, ON, Canada M4H 1G7	Silicone Joint Sealant	Spectrem 800 Low Modulus Silicone
		2001-123Q

705.4(b) Rubberized Joint Sealing Material (ASTM D6690-Type II and IV)

Last Revised: 2/24/2023

Use ASTM D6690-Type II for sealing asphalt pavement joints and ASTM D6690-Type IV for all other joint sealing applications.

Product	Name	Ref. No.
CRAF0 15 Crafc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ Plant 121 Industrial Park Road Halls, TN 38040	Type IV, ASTM D6690	RoadSaver 231
		1999-047Q



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Section 705: Joint Material

705.4(b) Rubberized Joint Sealing Material (ASTM D6690-Type II and IV)

Last Revised: 2/24/2023

Use ASTM D6690-Type II for sealing asphalt pavement joints and ASTM D6690-Type IV for all other joint sealing applications.

Product	Name	Ref. No.
CRAF2 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafcO.com/ Plant 1680 East Race Street Allentown, PA 18103		
Type II, ASTM D6690	Flex-A-Fill 9005	2016-256Q
Type II, ASTM D6690	Roadsaver 221	2008-128QB
Type IV, ASTM D6690	RoadSaver 231	1999-047Q
CRAF4 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.deeryamerican.com/ Plant 912 Salt Springs Road Youngstown, OH 44509 <i>Formerly Deery American Corporation (DEERY 15)</i>		
Type II, ASTM D6690	Deery 102	2008-129A
Type II, ASTM D6690	RoadSaver 221	2022-157Q
Type IV, ASTM D6690	Deery 101	1999-113
Type IV, ASTM D6690	RoadSaver 231	2022-121Q
CRAF6 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafcO.com/ Plant 234 Harvstore Drive Dekalb, IL 60115 <i>Supplier code formerly RTPTC 15</i>		
Type IV, ASTM D6690	RoadSaver 231	2022-167Q
FTECH 15 FPT Infrastructure, 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/		
Type II, ASTM D6690 <i>The color of this hot-applied crack sealant is grey. Formerly named Fibrecrete 6690G.</i>	Greyseal 6690 (Color: Grey)	2022-080Q
MAXPR 15 Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com		
Type II, ASTM D6690	Elastoflex 61	2015-106Q
MCASP 15 McAsphalt Industries Limited, 8800 Sheppard Avenue, East, Scarborough, Ontario Canada http://www.mcasphalt.com/		
Type II, ASTM D6690	MACSEAL 6690-2 (Formerly Beram 195)	2008-130QA
Type IV, ASTM D6690	MACSEAL 6690-4 (Formerly Beram 195 LM)	1998-079Q



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Section 705: Joint Material

705.4(b) Rubberized Joint Sealing Material (ASTM D6690-Type II and IV)

Last Revised: 2/24/2023

Use ASTM D6690-Type II for sealing asphalt pavement joints and ASTM D6690-Type IV for all other joint sealing applications.

Product	Name	Ref. No.
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Type II, ASTM D6690	3405 (Sealtight)	2008-131Q
Type IV, ASTM D6690	3405-M	2000-029Q
P&TPR 15 P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 https://pntproducts.com/		
Type II, ASTM D6690	Dura-Fill 3405	2008-124QA
Type IV, ASTM D6690	Dura-Fill 3405 LM (K)	1999-112Q
RTPT2 15 RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/		
Facility Sharpsville, PA		
<i>Effective October 19, 2020, acquired by Crafc0, Inc.</i>		
Type II, ASTM D6690	RP 3405	2016-300Q
<i>Formerly #3405 Regular. Effective March 2021, Crafc0 Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP 3405.</i>		
Type IV, ASTM D6690	RP Type 4 ELT	2006-026Q
<i>Formerly #3405 Modified. Effective March 2021, Crafc0 Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP Type 4 ELT.</i>		
RTPTC 15 Crafc0, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/		
Plant 234 Harvestore Drive Dekalb, IL 60115		
<i>Formerly RIGHT/POINTE, LLC</i>		
Type II, ASTM D6690	RP 3405	2008-161QB
<i>Formerly #3405 Regular. Effective March 2021, Crafc0 Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP 3405.</i>		
Type IV, ASTM D6690	RP Type 4 ELT	2006-026Q
<i>Formerly #3405 Modified. Effective March 2021, Crafc0 Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP Type 4 ELT.</i>		

705.4(c) Rubberized Joint Sealing Material (ASTM D6690-Type I)

Last Revised: 5/23/2023



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705.4(c) Rubberized Joint Sealing Material (ASTM D6690-Type I)

Last Revised: 5/23/2023

Product	Name	Ref. No.
CRAF2 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafcoc.com/ Plant 1680 East Race Street Allentown, PA 18103 Type I, ASTM D 6690	RoadSaver 211	2008-128Q
CRAF4 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.deeryamerican.com/ Plant 912 Salt Springs Road Youngstown, OH 44509 <i>Formerly Deery American Corporation (DEERY 15)</i> Type I, ASTM D 6690 Type I, ASTM D 6690 <i>Conditionally approved for use according to the manufacturer's specifications and usage guidelines.</i> Type I, ASTM D 6690	Deery 103 Level and Go Repair Mastic RoadSaver 211	2008-129B 2002-129 2022-158Q
FTECH 15 FPT Infrastructure, 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/ Type I, ASTM D 6690 <i>The color of this hot-applied crack sealant is grey.</i>	Greyseal 6690 (Color: Grey)	2023-013Q
MAXPR 15 Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com Type I, ASTM D 6690	Elastoflex 410	2016-185Q
MCASP 15 McAsphalt Industries Limited, 8800 Sheppard Avenue, East, Scarborough, Ontario Canada http://www.mcasphalt.com/ Type I, ASTM D 6690	MACSEAL 6690-1 (Formerly Beram 190)	2008-130QB
P&TPR 15 P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 https://pntproducts.com/ Type I, ASTM D 6690	Dura-Fill 1190	2008-124QB



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Section 705: Joint Material

705.4(c) Rubberized Joint Sealing Material (ASTM D6690-Type I)

Last Revised: 5/23/2023

Product	Name	Ref. No.
RTPT2 15 Facility RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ Sharpville, PA <i>Effective October 19, 2020, acquired by CrafcO, Inc.</i>		
Type I, ASTM D 6690	RP 1190	2016-301Q
<i>Formerly #1190. Effective March 2021, CrafcO Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP 1190.</i>		
Type I, ASTM D 6690	RP Gray Sealant	2017-195Q
<i>RP Gray Sealant is gray in color and composed of non-asphaltic resins; therefore, it must not be mixed or combined with other approved crack sealant products. Effective March 2021, CrafcO Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP Gray Sealant.</i>		
RTPTC 15 Plant CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/ 234 Harvestore Drive Dekalb, IL 60115 <i>Formerly RIGHT/POINTE, LLC</i>		
Type I, ASTM D 6690	RP 1190	2010-209Q
<i>Formerly #1190. Effective March 2021, CrafcO Inc. will stop using the Right Pointe name. Distributors can continue to supply the remaining stock of RP 1190.</i>		
UPMCP 15 Unique Paving Materials Corporation, 3993 East 93rd Street, Cleveland, OH 44105-4096 http://www.uniquepavingmaterials.com/		
Type I, ASTM D 6690	Kold-Flo Joint Sealant	2006-074
<i>Conditionally approved for use according to the manufacturer's specifications and usage guidelines.</i>		

705.4(d)1.a Prefomed Neoprene Compression Seals and Strip Seals

Last Revised: 8/10/2023

Movement Class: The movement classification for each bridge seal configuration is determined by rounding the movement range criterion down to the nearest 1/2-inch increment.

Product	Name	Movement Class	Ref. No.
BROWD 15D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/			
Bridge Seal	CA-5001 Delastic Prefomed Compression Seal	2.5 in.	1993-271
Bridge Seal	CA-6000 Delastic Prefomed Compression Seal (6")	3.0 in.	1994-300
Bridge Seal	CV-1625 Delastic Prefomed Compression Seal	0.5 in.	1989-233



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Section 705: Joint Material

705.4(d)1.a Preformed Neoprene Compression Seals and Strip Seals

Last Revised: 8/10/2023

Movement Class: The movement classification for each bridge seal configuration is determined by rounding the movement range criterion down to the nearest 1/2-inch increment.

Product	Name	Movement Class	Ref. No.
BROWD 15D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/			
Bridge Seal	CV-1752 Delastic Preformed Compression Seal	0.5 in.	2013-107Q
Bridge Seal	CV-2000 Delastic Preformed Compression Seal	0.5 in.	1989-161
Bridge Seal	CV-2250 Delastic Preformed Compression Seal	0.5 in.	2013-108Q
Bridge Seal	CV-2502 Delastic Preformed Compression Seal	1.0 in.	1989-071
Bridge Seal	CV-3000 Delastic Preformed Compression Seal	1.0 in.	1989-162
Bridge Seal	CV-3500 Delastic Preformed Compression Seal	1.5 in.	1989-054
Bridge Seal	CV-4000 Delastic Preformed Compression Seal	1.5 in.	1989-168
Bridge Seal	CV-5000 Delastic Preformed Compression Seal	2.0 in.	1991-130
Bridge Seal	CV-6000 Delastic Preformed Compression Seal	2.5 in.	1989-035
Bridge Seal	CV-6000-A Delastic Preformed Compression Seal	2.5 in.	1992-002
Bridge Seal	K-4000	2.0 in.	1993-273
Pavement Seal	E-1006 Delastic Preformed Pavement Seals		2023-023Q
	<i>Plant Verification (PV) samples are not required for this pavement seal.</i>		
Pavement Seal	E-816 Delastic Preformed Pavement Seal		2023-022Q
	<i>Plant Verification (PV) samples are not required for this pavement seal.</i>		
Pavement Seal	V-1625 Delastic Preformed Pavement Seal	0.5 in.	1993-030
	<i>Plant Verification (PV) samples are not required for this pavement seal model typically used on approaches to bridge decks.</i>		
Strip Seal Gland	A2R-400 Sealing Element	4.0 in.	2004-162Q
Strip Seal Gland	A2R-XTRA Sealing Element	7.0 in.	2004-165Q
Strip Seal Gland	E2M, WB-400 Sealing Element	4.0 in.	2004-163Q
Strip Seal Gland	L2-400 Sealing Element	4.0 in.	2004-166Q
Strip Seal Gland	L2-500 Sealing Element	5.0 in.	2004-164Q
Strip Seal Gland	SE-300	3.0 in.	2009-195Q
Strip Seal Gland	SE-400	4.0 in.	2009-196Q
Strip Seal Gland	SE-500	5.0 in.	2009-197Q



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Section 705: Joint Material

705.4(d)1.a Preformed Neoprene Compression Seals and Strip Seals

Last Revised: 8/10/2023

Movement Class: The movement classification for each bridge seal configuration is determined by rounding the movement range criterion down to the nearest 1/2-inch increment.

Product	Name	Movement Class	Ref. No.
TRE-1 15 Plant	Trelleborg Sealing Profiles US Inc., 285 Lena Drive, Aurora, OH 44202 http://www.trelleborg.com/en/ 285 Lena Drive Aurora, OH 44202 <i>Licensing Company: Watson Bowman Acme (BASF)</i>		
	Bridge Seal	Wabo CompressionSeal WA-175	0.5 in. 2010-222QA
	Bridge Seal	Wabo CompressionSeal WA-200	1.0 in. 2010-222QB
	Bridge Seal	Wabo CompressionSeal WA-250	1.0 in. 2010-222QC
	Bridge Seal	Wabo CompressionSeal WA-300	1.5 in. 2010-222QD
	Bridge Seal	Wabo CompressionSeal WA-350	1.5 in. 2010-222QE
	Bridge Seal	Wabo CompressionSeal WA-400	2.0 in. 2010-222QF
	<i>Wabo CompressionSeal Technical Data Sheet for WA-175, WA-200, WA-250, WA-300, WA-350, and WA-400</i> Wabo CompressionSeal Technical Data Sheet		
	Strip Seal Gland	Wabo StripSeal SE-300	3.0 in. 2009-087Q
	Strip Seal Gland	Wabo StripSeal SE-400	4.0 in. 2009-152Q
	Strip Seal Gland	Wabo StripSeal SE-500	5.0 in. 2009-153Q
	Strip Seal Gland	Wabo StripSeal SE-800	8.0 in. 2013-169Q
	<i>Wabo StripSeal Technical Data Sheet for SE-300, SE-400, SE-500, and SE-800</i> Wabo StripSeal Technical Data Sheet		

705.4(d)1.b Lubricant Adhesive

Last Revised: 9/20/2018

Product	Name	Ref. No.
BROWD 15 D.S.	Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/	
Lubricant Adhesive	DSB 1520 Lubricant Adhesive	1992-101
	<i>Manufactured for D.S. Brown by ChemMasters. Product originally named Delastibond 1520.</i>	
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/	
Lubricant Adhesive	Adhesive Lubricant 105	----
Lubricant Adhesive	Lube Plus 4070	1995-100



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Section 705: Joint Material

705.4(d)1.b Lubricant Adhesive

Last Revised: 9/20/2018

Product	Name	Ref. No.
RASCP 15 Royal Adhesives and Sealants, 2001 W Washington Street, South Bend, IN http://www.royaladhesives.com/ Plant 266 Humberline Drive Toronto, Ontario, Canada M9W 5X1		
Lubricant Adhesive <i>Manufactured for D.S. Brown by Royal Adhesives & Sealants.</i>	D.S. Brown DSB 1520	2016-207Q

705.4(e) Preformed Closed Cell Polyethylene Joint Filler

Last Revised: 3/5/2015

Product	Name	Ref. No.
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 1"	1986-123B
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 1/2"	1986-261ABC
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 2"	1986-261ABC
Preformed Closed Cell Polyethylene Joint Filler	Ceramar 3/4"	1986-261ABC

705.4(g) Asphalt Rubber Sealing Compound

Last Revised: 3/20/2024

The approved Precompressed Hybrid Joint Sealing Material products referenced in Special Provisions are listed in Section 705.4(g - Alternate) below.

Product	Name	Ref. No.
CRAF2 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafcO.com/ Plant 1680 East Race Street Allentown, PA 18103		
Asphalt Rubber Sealing Compound	Asphalt Rubber Type 2, Part No. 34232	1999-074Q
Asphalt Rubber Sealing Compound	PolyFlex 601	2019-006Q
Asphalt Rubber Sealing Compound	PolyFlex Type 2, Part No. 34518	2016-033Q



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Section 705: Joint Material

705.4(g) Asphalt Rubber Sealing Compound

Last Revised: 3/20/2024

The approved Precompressed Hybrid Joint Sealing Material products referenced in Special Provisions are listed in Section 705.4(g) - Alternate) below.

Product	Name	Ref. No.
CRAF4 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.deeryamerican.com/ Plant 912 Salt Springs Road Youngstown, OH 44509 <i>Formerly Deery American Corporation (DEERY 15)</i>		
Asphalt Rubber Sealing Compound	Asphalt Rubber Type 2, Part No. 34232	2022-120Q
Asphalt Rubber Sealing Compound	Deery 5078	1999-060Q
Asphalt Rubber Sealing Compound	PolyFlex 601	2019-021Q
Asphalt Rubber Sealing Compound	PolyFlex Type 2, Part No. 34518	2022-166Q
MAXPR 15 Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com		
Asphalt Rubber Sealing Compound	Elastoflex 650	2016-186Q
MCASP 15 McAsphalt Industries Limited, 8800 Sheppard Avenue, East, Scarborough, Ontario Canada http://www.mcasphalt.com/		
Asphalt Rubber Sealing Compound	MACSEAL AR (Formerly Beram Asphalt Rubber (AR))	2000-048Q
P&TPR 15 P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 https://pntproducts.com/		
Asphalt Rubber Sealing Compound	Dura_Fill 5078	2003-044Q
ULSCP 15 Ultra Seal Construction Products, CrafcO Inc., 5309 Maingate Drive, Mississauga, Ontario, Canada L4W 1G6 https://crafcO.com/ultraseal-waterproofing/		
Asphalt Rubber Sealing Compound	Ultraseal 1197	1998-200

705.4(g) - Alternate) Precompressed, Silicone-and-Foam Hybrid Joint Sealing Material

Last Revised: 7/6/2017

The product listing below is conditionally approved as an alternate system to Joint Sealant Material as specified in Publication 408, Section 705.4.

Product	Name	Ref. No.
EMSEAL15 EMSEAL, A Sika Company, (EMSEAL Joint Systems, Ltd.), 25 Bridle Lane, Westborough, MA 01581 http://www.emseal.com/		
Precompressed, Silicone-and-Foam Hybrid <i>Conditionally approved per the manufacturer's specifications and usage guidelines. BEJS Tech Data, Install Data, and Checklist</i>	BEJS (Bridge Expansion Joint System)	2012-030



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Section 705: Joint Material

705.4(g - Alternate) Precompressed, Silicone-and-Foam Hybrid Joint Sealing Material

Last Revised: 7/6/2017

The product listing below is conditionally approved as an alternate system to Joint Sealant Material as specified in Publication 408, Section 705.4.

Product	Name	Ref. No.
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705.5(b)1 Elastomeric Gaskets

Last Revised: 8/25/2023

- *Class A (Standard): ASTM C361/ASTM C1619
- *Class B (Oil Resistant): ASTM C361/ASTM C1619
- *Class C (Standard): ASTM C443/ASTM C1619
- *Class D (Oil Resistant): ASTM C443/ASTM C1619

ASTM C361 - Standard Specification for Reinforced Concrete Low-Head Pressure Pipe

ASTM C443 - Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

ASTM C1619 - Standard Specification for Elastomeric Seals for Joining Concrete Structures

Product	Name	Ref. No.
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HAMLT 15 Hamilton Kent, LLC, 740 Baxter Lane, Winchester, TN 37398 https://hamiltonkent.com/	Elastomeric Gasket, Classes A & B	Tylox O-Ring Gasket	----
	Elastomeric Gasket, Classes A, C, & D	Tylox Superseal Gasket	1997-192
PSEAL 15 Press-Seal Gasket Corporation, 2424 West State Blvd., Fort Wayne, IN 46808 http://www.press-seal.com/ Plant Elkhart, IN	Elastomeric Gasket, Class A	O-Ring Concrete Pipe Gasket	2014-234Q
	Elastomeric Gasket, Class C	RFS Prelubricated Concrete Pipe Gasket	2014-233Q
RINMA 15 Rinker Materials, 1627 Oakbrook Parkway, Gainesville, GA 30507 http://www.rinkerpipe.com/	Elastomeric Gasket	Delta Seal Rubber Profile Gasket	2009-100QA
UPR-1 15 Universal Polymer & Rubber, Ltd., Inc., 15730 South Madison Rd, Middlefield, OH 44062 https://www.universalpolymer.com/	Elastomeric Gasket, Class C	CR001 Rubber Profile and O-Ring Gasket (30")	2022-069Q
	Elastomeric Gasket, Class C	CR012 Rubber Profile and O-Ring Gasket (36")	2022-069Q
	Elastomeric Gasket, Class C	CR023 Rubber Profile and O-Ring Gasket (42")	2022-069Q



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Section 705: Joint Material

705.5(b)1 Elastomeric Gaskets

Last Revised: 8/25/2023

- *Class A (Standard): ASTM C361/ASTM C1619
- *Class B (Oil Resistant): ASTM C361/ASTM C1619
- *Class C (Standard): ASTM C443/ASTM C1619
- *Class D (Oil Resistant): ASTM C443/ASTM C1619

ASTM C361 - Standard Specification for Reinforced Concrete Low-Head Pressure Pipe

ASTM C443 - Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

ASTM C1619 - Standard Specification for Elastomeric Seals for Joining Concrete Structures

Product	Name	Ref. No.
VERTI 15 Vertex, Inc., 3956 Mogadore Industrial Parkway, Mogadore, OH 44260-1201 https://vertexseals.com/		
Elastomeric Gasket	Rubberman O-Ring Gasket	1997-072
Elastomeric Gasket, Class C	EB-3139-Gen (SBT EcoProof Type)	2007-008Q

705.5(b)2 Preformed Flexible Joint Sealant - Butyl Rubber Sealant

Last Revised: 5/5/2023

ASTM C990 Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants (modified flash and fire point requirements).

Product	Name	Ref. No.
CONSE 15 ConSeal, Concrete Sealants, Inc., 9325 State Route 201, Tipp City, OH 45371 http://www.conseal.com/		
Flexible Plastic Gasket (Hydrocarbon Blend)	ConSeal CS-102 Butyl Rubber Sealant	1984-140
Flexible Plastic Gasket (Hydrocarbon Blend)	ConSeal CS-202 Butyl Rubber Sealant	1984-140A
PSEAL 15 Press-Seal Gasket Corporation, 2424 West State Blvd., Fort Wayne, IN 46808 http://www.press-seal.com/ Plant Elkhart, IN		
Preformed Flexible Butyl Rubber Joint Sealant	Crete Stik	2022-126Q



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Section 705: Joint Material

705.5(b)2 Preformed Flexible Joint Sealant - Butyl Rubber Sealant

Last Revised: 5/5/2023

ASTM C990 Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants (modified flash and fire point requirements).

Product	Name	Ref. No.
TRE-2 15 Plant Trelleborg Pipe Seals, 250 Elm St., P.O. Box 301, Milford, NH 03055 http://www.trelleborg.com/pipe-seals Bonne Terre, MO 63628 <i>Formerly Bidco Sealants (BIDC- 15)</i>		
Flexible Plastic Gasket (Hydrocarbon Blend)	Trelleborg C-56 Preformed Joint Sealant	1990-206

705.5(b)3 Resilient Connectors between Inlets/Utility Holes and Pipes

Last Revised: 5/8/2023

* Storm Water Systems - ASTM C1478 Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes, and Laterals

* Sanitary Sewer Systems - ASTM C923 Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals

Product	Name	Ref. No.
VERTI 15 Vertex, Inc., 3956 Mogadore Industrial Parkway, Mogadore, OH 44260-1201 https://vertexseals.com/		
Sanitary Sewer Systems Gasket	Star Seal Compression Connector	1997-056
Storm Water Systems Gasket	Star Seal Compression Connector	1997-056

705.5(c)2 Waterstops - Polyvinyl Chloride

Last Revised: 2/14/2018

Product	Name	Ref. No.
DURAJ 15 Durajoint Concrete Accessories, 10421 Industrial Drive, Garrettsville, OH 44231 http://www.durajoint.com/		
Polyvinyl Chloride Waterstop	Durajoint Type 12 RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 18 RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 27	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 29A RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 29RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 36 RT	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 3A	2017-244Q



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Section 705: Joint Material

705.5(c)2 Waterstops - Polyvinyl Chloride

Last Revised: 2/14/2018

Product	Name	Ref. No.
DURAJ 15 Durajoint Concrete Accessories, 10421 Industrial Drive, Garrettsville, OH 44231 http://www.durajoint.com/		
Polyvinyl Chloride Waterstop	Durajoint Type 4	1999-219Q
Polyvinyl Chloride Waterstop	Durajoint Type 4B	1999-219Q
Polyvinyl Chloride Waterstop	Durajoint Type 5	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type 7	2017-244Q
Polyvinyl Chloride Waterstop	Durajoint Type DB-2	2017-244Q
GRES 15 Sika Greenstreak, 3400 Tree Court, Industrial Boulevard, Box 7139, St. Louis, MO 63177 http://usa.sika.com/		
Polyvinyl Chloride Waterstop	Model 698	----
Polyvinyl Chloride Waterstop	Model 701	----
Polyvinyl Chloride Waterstop	Model 703	----
Polyvinyl Chloride Waterstop	Model 705	----
Polyvinyl Chloride Waterstop	Model 709	----
Polyvinyl Chloride Waterstop	Model 748	----
SOUMP 15 Southern Metal & Plastic Products, 3400 Tree Court Ind. Blvd., St. Louis, MO 63122 http://sometals.com/		
Polyvinyl Chloride Waterstop	15 RCB	2006-025Q
WATER 15 Waterstop & Accessories, 3400 Tree Court Indus. Blvd., St. Louis, MO 63122		
Polyvinyl Chloride Waterstop	RB6-316 (type C1)	2000-009Q
Polyvinyl Chloride Waterstop	RSB6-316 (type C2)	2000-009Q
Polyvinyl Chloride Waterstop	TWB6-18 (type E2)	2000-009Q

705.6 Graphite Lubricant

Last Revised: 5/31/2019

The graphite lubricants are only approved for use on projects with let dates prior to October 4, 2019. Graphite lubricants were removed from Publication 408, 2016 with Change No. 7.

Product	Name	Ref. No.
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Graphite Lubricant	Sure-Slip Graphite Paste	1992-340



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Section 705: Joint Material

705.6 Graphite Lubricant

Last Revised: 5/31/2019

The graphite lubricants are only approved for use on projects with let dates prior to October 4, 2019. Graphite lubricants were removed from Publication 408, 2016 with Change No. 7.

Product	Name	Ref. No.
VEXCN 15 ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/ Plant 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i>		
Graphite Lubricant	Certi-Vex Sure Slide	2011-247Q

705.6(b) Mortar For Masonry and Horizontal Joints Between Precast Components in Utility Holes and Inlets

Last Revised: 11/2/2017

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these mortars were formerly listed in Section 705.7(b).

Product	Name	Ref. No.
BUZZ1 15 Buzzi Unicem USA Stockertown, 501 Hercules Drive, P. O. Box 69, Stockertown, PA 18083 http://www.buzziunicemusa.com/ Plant Stockertown, PA		
Mortar For Masonry and Horizontal Joints Between Precast Components in Utility Holes and Inlets	Type N	2017-218Q
CEMX6 15 Fairborn Cement Company (Eagle Materials, Inc.), 3811 Turtle Creek Blvd, Suite 1100, Dallas, TX 75219 http://www.eaglematerials.com Plant 3250 Linebaugh Road Xenia, OH 45385 <i>(Formerly CEMEX, Inc.)</i>		
Mortar For Masonry and Horizontal Joints Between Precast Components in Utility Holes and Inlets	Type N	2010-233QC
LEH-9 15 Lehigh Cement Company, Heidelberg Materials, 3938 Easton Nazareth Highway, Nazareth, PA 18064 https://heidelbergmaterials.us/ Plant 3938 Easton Nazareth Highway Nazareth, PA 18064 <i>(Formerly Essroc ESS-7 15)</i>		
Mortar For Masonry and Horizontal Joints Between Precast Components in Utility Holes and Inlets	Type N	2002-109Q

705.7(a) Caulking Compound (Pipe and Horizontal Joints Between Precast Components in Manholes)

Last Revised: 6/29/2015

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these caulking compounds were formerly listed in Section 705.8(a)



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Section 705: Joint Material

705.7(a) Caulking Compound (Pipe and Horizontal Joints Between Precast Components in Manholes) Last Revised: 6/29/2015

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these caulking compounds were formerly listed in Section 705.8(a)

Product	Name	Ref. No.
SEABD 15 Seaboard Asphalt Products Company, 3601 Fairfield Road, Baltimore, MD 21226 http://seaboardasphalt.com/		
Caulking - Pipe and Horizontal Joints Between Precast Components in Utility Holes and Inlets	MP-52	1994-206

705.7(b) Caulking Compound (Other) Last Revised: 4/8/2024

ASTM C920 - Standard Specification for Elastomeric Joint Sealants; Type: S - Single Component; M - Multi Component

Use [Exposure]: T - Traffic; T1 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a higher durometer sealant is desired; T2 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a lower durometer sealant is desired; NT - Non-Traffic; I - Immersible

Use [Material Contact]: A - Aluminum, G - Glass, M - Mortar, O - Other

Grade: P - Pourable or self-leveling for horizontal applications, NS - Non-Sag for vertical or sloping horizontal joints

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these "other" caulking compounds were listed in Section 705.8(b).

Product	Name	Ref. No.
DOW-4 15 The Dow Chemical Company, 2200 W. Salzburg Road, P. O. Box 994, Midland, MI 48686 http://www.dow.com/ Formerly Dow Corning Corporation		
Caulking - Silicone <i>ASTM C920 - Type S (single component); Grade: NS (non-sag); Class: 100/50; Use: T (traffic), NT (non-traffic), A (aluminum), G (glass), M (mortar), O (other)</i>	DOWSIL 790 Silicone Sealant	1993-235
MBS13 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us/ Plant 10601 Fulton Street Brighton, CO 80601 Formerly Master Builders Solutions US LLC		
Caulking - Polyurethane <i>ASTM C920 - Type S (single component); Grade: NS (non-sag); Class: 35; Use: T (traffic), NT (non-traffic), I (immersible), A (aluminum), M (mortar)</i>	SikaFlex NP 1 (Formerly MasterSeal NP 1)	1990-185Q



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Section 705: Joint Material

705.7(b) Caulking Compound (Other)

Last Revised: 4/8/2024

ASTM C920 - Standard Specification for Elastomeric Joint Sealants; Type: S - Single Component; M - Multi Component

Use [Exposure]: T - Traffic; T1 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a higher durometer sealant is desired; T2 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a lower durometer sealant is desired; NT - Non-Traffic; I - Immersible

Use [Material Contact]: A - Aluminum, G - Glass, M - Mortar, O - Other

Grade: P - Pourable or self-leveling for horizontal applications, NS - Non-Sag for vertical or sloping horizontal joints

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these "other" caulking compounds were listed in Section 705.8(b).

Product	Name	Ref. No.
MEDW2 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Plant Fort Worth, TX		
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: M (mortar), G (glass), and (A) aluminum</i>	POURTHANE NS	2021-108Q
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: P (pourable); Class: 25; Use: (A) aluminum, (G) glass, and (M) mortar</i>	POURTHANE SL	2021-107Q
PECCR 15 Pecora Corporation, 165 Wambold Road, Harleysville, PA 19438 http://pecora.com/		
Caulking - Polyurethane <i>ASTM C920 - Type S (single component); Grade: NS (non-sag); Class: 25; Use: NT (non-traffic), A (aluminum), G (glass), N (mortar), O (other)</i>	Dynatrol I-XL Polyurethane	2000-283Q
Caulking - Polyurethane	Urexpan NR-300 Polyurethane	2000-282Q
Caulking - Silicone	Pecora 864 Silicone	2000-286Q
SCHMH 15 ITW Polymers Sealants North America, Inc., 12055 Cutten Road, Houston, TX 77066 https://itwsealants.com/ Formerly Schnee-Morehead, Inc.		
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 25; Use: NT (non-traffic), (A) aluminum, (G) glass, (M) mortar, (O) other</i>	SM7108 Permthane	1999-003Q



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Section 705: Joint Material

705.7(b) Caulking Compound (Other)

Last Revised: 4/8/2024

ASTM C920 - Standard Specification for Elastomeric Joint Sealants; Type: S - Single Component; M - Multi Component

Use [Exposure]: T - Traffic; T1 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a higher durometer sealant is desired; T2 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a lower durometer sealant is desired; NT - Non-Traffic; I - Immersible

Use [Material Contact]: A - Aluminum, G - Glass, M - Mortar, O - Other

Grade: P - Pourable or self-leveling for horizontal applications, NS - Non-Sag for vertical or sloping horizontal joints

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these "other" caulking compounds were listed in Section 705.8(b).

Product	Name	Ref. No.
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071	
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 100/50; Use: (T) traffic, (NT) non-traffic, (A) aluminum, (G) glass, (O) other</i>	Sikaflex -15 LM Polyurethane	2000-126Q
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: (T) traffic, (NT) non-traffic, (A) aluminum, (M) mortar</i>	Sikaflex -1A	1982-035Q
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302	
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: (T) traffic, (NT) non-traffic, (A) aluminum, (M) mortar</i>	Sikaflex -1A	1982-035



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Section 705: Joint Material

705.7(b) Caulking Compound (Other)

Last Revised: 4/8/2024

ASTM C920 - Standard Specification for Elastomeric Joint Sealants; Type: S - Single Component; M - Multi Component

Use [Exposure]: T - Traffic; T1 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a higher durometer sealant is desired; T2 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a lower durometer sealant is desired; NT - Non-Traffic; I - Immersible

Use [Material Contact]: A - Aluminum, G - Glass, M - Mortar, O - Other

Grade: P - Pourable or self-leveling for horizontal applications, NS - Non-Sag for vertical or sloping horizontal joints

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these "other" caulking compounds were listed in Section 705.8(b).

	Product	Name	Ref. No.
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071	http://usa.sika.com/	
	201 Polito Avenue Lyndhurst Lyndhurst, NJ		
	Caulking - Polyurethane ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 100/50; Use: (T) traffic, (NT) non-traffic, (A) aluminum, (G) glass, (O) other	Sikaflex -15 LM Polyurethane	2000-126Q
	Caulking - Polyurethane ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: (T) traffic, (NT) non-traffic, (A) aluminum, (M) mortar	Sikaflex -1A	1982-035
SIKA4 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071	http://usa.sika.com/	
	995 Towbin Avenue Lakewood, NJ		
	Caulking - Polyurethane ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: (T) traffic, (NT) non-traffic, (A) aluminum, (M) mortar	Sikaflex -1A	1982-035
	Caulking - Silicone ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 100/50; Use: (NT) non-traffic, (A) aluminum, (G) glass, (M) mortar, (O) other	Sikasil WS-290	2013-032Q
	Caulking - Silicone ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 50; Use: (NT) non-traffic, (A) aluminum, (G) glass, (M) mortar, (O) other	Sikasil WS-295	2013-031Q



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Section 705: Joint Material

705.7(b) Caulking Compound (Other)

Last Revised: 4/8/2024

ASTM C920 - Standard Specification for Elastomeric Joint Sealants; Type: S - Single Component; M - Multi Component

Use [Exposure]: T - Traffic; T1 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a higher durometer sealant is desired; T2 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a lower durometer sealant is desired; NT - Non-Traffic; I - Immersible

Use [Material Contact]: A - Aluminum, G - Glass, M - Mortar, O - Other

Grade: P - Pourable or self-leveling for horizontal applications, NS - Non-Sag for vertical or sloping horizontal joints

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these "other" caulking compounds were listed in Section 705.8(b).

Product	Name	Ref. No.
SOUDAL15 Soudal Accumetric, 350 Ring Road, Elizabethtown, KY 42701 https://soudalusa.com/professional/application/Commercial-Construction/3/		
Caulking - Polyurethane <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: T1 (traffic - higher durometer sealant), NT (non-traffic), A (aluminum), and M (mortar)</i>	Soudaflex PU35	2022-108Q
Caulking - Silyl-terminated Polymer <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 50; Use: T1 (traffic - high durometer sealant), NT (non-traffic), A (aluminum)</i>	Soudaseal 50LM	2022-109Q
Caulking - Silyl-terminated Polymer <i>ASTM C920 - Type: S (single component); Grade: NS (non-sag); Class: 35; Use: T1 (traffic - high durometer sealant), NT (non-traffic), A (aluminum), M (mortar)</i>	Soudaseal AP	2022-110Q
Caulking - Silyl-terminated Polymer <i>ASTM C920 - Type: S (single component); Grade: P (pourable for horizontal applications); Class: 25; Use: T1 (traffic - high durometer sealant), NT (non-traffic), A (aluminum), M (mortar)</i>	SoudaSeal SL	2022-111Q



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Section 705: Joint Material

705.7(b) Caulking Compound (Other)

Last Revised: 4/8/2024

ASTM C920 - Standard Specification for Elastomeric Joint Sealants; Type: S - Single Component; M - Multi Component

Use [Exposure]: T - Traffic; T1 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a higher durometer sealant is desired; T2 - A sealant designed for use in joints in pedestrian and vehicular traffic areas such as walkways, plazas, decks and parking garages where a lower durometer sealant is desired; NT - Non-Traffic; I - Immersible

Use [Material Contact]: A - Aluminum, G - Glass, M - Mortar, O - Other

Grade: P - Pourable or self-leveling for horizontal applications, NS - Non-Sag for vertical or sloping horizontal joints

Note: For contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before, these "other" caulking compounds were listed in Section 705.8(b).

Product	Name	Ref. No.
TREM2 15 Plant	Tremco Construction Products Group, 3755 Green Road, Beachwood, OH 44122	https://www.tremcocpg.com/
220 Wicksteed Avenue Toronto, ON, Canada M4H 1G7		
Caulking - Hybrid ASTM C920 - Type S (single component); Grade: NS (non-sag); Class: 35; Use: NT (non-traffic), A (aluminum), M (mortar), O (other)	Euclid Eucolastic 1NS	2007-033Q
Caulking - Hybrid ASTM C920 - Type S (single component); Grade: NS (non-sag); Class: 35; Use: NT (non-traffic), A (aluminum), M (mortar), O (other)	Tremco Dymonic FC	2007-033Q

705.9/705.8 Joint Backing Material

Last Revised: 6/17/2021

Section 705.9 - Applicable for contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before.

Section 705.8 - Applicable for contracts let per Pub 408/2020 Initial Edition (April 10, 2020) or later.

Product	Name	Ref. No.
ALCOT 15	Alcot Plastics Ltd., 31 Malcolm Rd., Guelph, ON Canada N1K 1A7	https://alcotplastics.com/
Joint Backing Material Cold Application Only	Alcot Standard Backer Rod	2018-221Q



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Section 705: Joint Material

705.9/705.8 Joint Backing Material

Last Revised: 6/17/2021

Section 705.9 - Applicable for contracts let per Pub 408/2016 Change No. 7 (October 4, 2019) or before.

Section 705.8 - Applicable for contracts let per Pub 408/2020 Initial Edition (April 10, 2020) or later.

Product	Name	Ref. No.
INDUS 15 Armacell LLC, 153 Van Kirk Drive, Brampton, Ontario, Canada https://www.armacell.us/home/ Formerly Industrial Thermo Polymers Limited		
Joint Backing Material	FillPro Hot Rod XL Backer Rod (Crosslinked closed cell polyethylene foam)	1991-173
Joint Backing Material	FillPro Standard (Closed cell polyethylene foam)	1991-172
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Joint Backing Material	Cera-Rod (Heat Resistant)	1986-026
Joint Backing Material	Deck-O-Foam (Cold Application Only)	1998-050
NOMAC 15 Nomaco, Inc., 501 Innovative Way, Zebulon, NC 27597 http://www.nomaco.com/		
Joint Backing Material	HBR Backer Rod (Cold Application Only)	2001-177Q
Joint Backing Material	HBR XL Backer Rod (Cold or Hot Applied)	2001-178Q
Joint Backing Material	Sof Rod (Cold Application Only)	1995-182



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 706: Concrete Bonding Compound

Type I - Non-load bearing applications, bonding hardened concrete (28 days or older) to hardened concrete surfaces

Type II - Non-load bearing applications, bonding freshly mixed concrete to hardened concrete

Type III - For bonding skid-resistant materials to hardened concrete and as a binder in epoxy mortars or epoxy concretes used on traffic bearing surfaces

Type V - Load bearing applications, bonding fresh concrete to hardened concrete

Grade 1 - Low viscosity;

Grade 2 - Medium viscosity;

Grade 3 - Non-sagging consistency

Class A - For use below 40F, to the lowest allowable temperature defined by manufacturer

Class B - For use between 40F and 60F

Class C - For use above 60F, to the highest allowable temperature defined by manufacturer

706.1 Epoxy Bonding Compound (ASTM C881)

Last Revised: 4/8/2024

* ASTM C881 - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete

Product	Name	Epoxy Class	Ref. No.
ADHTC 15 Facility	Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301	http://www.atcepoxy.com/	
	Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064		
Type I, Grade 1	CRACKBOND LR-321 LV	C	2016-101
<i>Note: Effective December 18, 2020 the "LV" was added to the CRACKBOND LR-321 product name to differentiate the product's viscosity from other similar epoxy repair materials such as medium viscosity (MV) or thick (TXO) consistency products. No changes to the formulation of this product.</i>			
Type I, Grade 2	CRACKBOND 2100 MV		2009-095Q
	<i>MV = Medium Viscosity; Formerly ULTRABOND 2100</i>		
EUCL2 15 Plant	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799	http://www.euclidchemical.com/	
	3835 State Route 72 Kirkland, IL 60146		
Type I, Grade 3	Dural Fast Set Gel	C	2020-240Q
<i>Meets the minimum 5 minute gel time specification per footnote A in Table 1 (Physical Requirements of Bonding Systems) of ASTM C881. Footnote A: "Minimum gel time of 5 min when automated proportioning, mixing, and dispensing equipment are used."</i>			



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 706: Concrete Bonding Compound

706.1 Epoxy Bonding Compound (ASTM C881)

Last Revised: 4/8/2024

* ASTM C881 - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete

Product	Name	Epoxy Class	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Type I & II, Grade 2	Dural 452 MV	B, C	2003-100Q
Type I & II, Grade 3	Dural 452 MV	B, C	2003-099Q
Type I, Grade 1	Duralflex Gel (formerly Flexocrete)		1980-032
Type I, Grade 1	Euco 452 LV		1986-310A
Type II, Grade 2	Euco 452 MV		1986-310B
Type III, Grade 1	Dural 340 NS	C	2001-192QA
Type III, Grade 1	Dural 340 SL	B, C	----
Type III, Grade 1	Duralflex Gel (formerly Flexocrete Gel)	C	1980-031
Type III, Grade 1	Flexolith	A, B, C	1994-231
Type III, Grade 3	Dural 452 Gel	C	2001-192QB
Type III, Grade 3	Flexocrete	C	----
Type V, Grade 2	Dural 452 MV	B, C	2003-100QB
HLMTE 15 Hallemite, 80 Cypress Street, P. O. Box 840, Warwick, RI 02888			
Type I, Grade 1	Hallemite 182LV (injection)		1997-197
Type II, Grade 2	Hallemite 140		1997-195
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/			
Type I, Grade 1	SurePoxy HM, Class B	B	1992-366
Type I, Grade 1	SurePoxy HMLV 112		1988-290
Type I, Grade 3	SurePoxy 116		1992-169
Type I, Grade 3	SurePoxy HM Gel		1990-352
Type II, Grade 2	SurePoxy HM		1981-050
Type III, Grade 1	SurePoxy LM-LV		1981-049
Type V, Grade 3	SurePoxy HM Gel	C	2022-264Q



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Section 706: Concrete Bonding Compound

706.1 Epoxy Bonding Compound (ASTM C881)

Last Revised: 4/8/2024

* ASTM C881 - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete

Product	Name	Epoxy Class	Ref. No.
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/			
Type I, Grade 1	Rezi-Weld LV		1990-230
Type I, Grade 3	Rezi-Weld Gel Paste		1990-232
Type II, Grade 2	Rezi-Weld 1000		1990-231
Type III, Grade 1	Rezi-Weld LV		1990-230
PLYGM 15 Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/			
Type I, Grade 1	Polyject 1001 MV		1995-048A
POLYC 15 Olin Epoxy-POLY-CARB, 8440 Tower Dr., Twinsburg, OH 44087 http://www.poly-carb.com/			
Plant	125 Industrial Park Rd. Roberta, GA 31078		
	Formerly POLY-CARB, Inc.		
Type I, Grade 1	Mark-25.3		2000-172Q
Type II, Grade 1	Mark-184		2000-174Q
Type II, Grade 1	Mark-25.3		2000-172Q
SIKA0 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/			
Facility	201 Polito Avenue Lyndhurst, NJ 07071		
Type I & II, Grade 2	Sikadur 32 Hi Mod		----
Type I, Grade 1	Sikadur 35 Hi Mod LV		----
Type I, Grade 1	Sikadur 52 Injection Resin		1986-228
Type I, Grade 3	Sikadur Injection Gel		1987-165
Type III, Grade 1	Sikadur 21 Lo Mod LV		----



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Section 706: Concrete Bonding Compound

706.1 Epoxy Bonding Compound (ASTM C881)

Last Revised: 4/8/2024

* ASTM C881 - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete

Product	Name	Epoxy Class	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
Type I, Grade 1	Sikadur 35 Hi Mod LV		----
Type I, Grade 1	Sikadur 52 Injection Resin		1986-228
Type I, Grade 2	Sikadur 32 Hi Mod		----
Type I, Grade 3	Sikadur Injection Gel		1987-165
Type II, Grade 2	Sikadur 32 Hi Mod		----
Type III, Grade 1	Sikadur 21 Lo Mod LV		----
UNITX 15	Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
Type I, Grade 1	Pro-Poxy 100		1991-290A
Type I, Grade 3	Pro-Poxy 300		1991-290C
Type II, Grade 1	Pro-Poxy 50	B, C	2018-012Q
Type II, Grade 2	Pro-Poxy 200		1991-290B

706.2 Other Bonding Compound (ASTM C882)

Last Revised: 2/28/2023

* ASTM C882 - Standard Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete by Slant Shear

Product	Name	Ref. No.
ADHTC 15 Facility	Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301 http://www.atcepoxy.com/ Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064	
Type II, Grade 3, Class A & B	ULTRABOND ASF-1000	2016-285Q
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/	
Other Bonding Compound	Cretelox	1996-096
DAYT1 15	Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/	
Other Bonding Compound	Day-Chem Ad Bond (J-40)	1995-161



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Section 706: Concrete Bonding Compound

706.2 Other Bonding Compound (ASTM C882)

Last Revised: 2/28/2023

* ASTM C882 - Standard Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete by Slant Shear

Product	Name	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Other Bonding Compound	Duralprep AC	1996-222
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/ Other Bonding Compound <i>For placement of fresh to hardened concrete only in the period 4 to 24 hours after application of bonding agent.</i>	SurePoxy HM EPL	1996-093
RDWRE 15 Roadware, Inc., 381 Bridgepoint Way, South St. Paul, MN 55075 http://www.concretemender.com/ Other Bonding Compound	10 Minute Concrete Mender	2000-336Q
SIKA0 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Facility 201 Polito Avenue Lyndhurst, NJ 07071 Other Bonding Compound	Armatec 110	1990-223
SIKA1 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 1682 Marion Williamsport Road E Marion, OH 43302 Other Bonding Compound	Armatec 110	1990-223



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Qualified Products List for Construction

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Section 708.1: Fibers for Use in Concrete

708.1(a) Macro Fibers

708.1(b) Micro Fibers



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Section 709: Reinforcement Steel

Steel Products Procurement Act applies.

* Rebar Mill Symbols

709.1 Fabricator of Reinforcement Bars

Last Revised: 2/23/2024

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

Product	Name	Ref. No.
AHLEJ 15	J.M. Ahle Company, 190 William Street, Suite 2D, South River, NJ 08882 http://www.jmahle.com/ Fabricator, Black Bar and Epoxy Coated Bar	2008-139Q
AKRRC 15	Akron Rebar Company, 809 W. Waterloo Road, Akron, OH 44314 http://www.akronrebar.com/ Fabricator, Black Bar Only	2012-019Q
BLOMT 15	Bloomsburg Metal Company, 610 North Penn Ave., Wilkes-barre, PA 18705-1730 http://www.bloomet.com/ Fabricator, Black Bar and Epoxy Coated Bar	-----
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/ <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i> Fabricator, Black Bar and Epoxy Coated Bar	2014-169Q
CMCIL 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 Fabricator, Black Bar and Epoxy Coated Bar (Formerly listed under the TOLTC 15 supplier code)	2001-229Q
CMCNC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Rebar North Carolina 2528 North Chester Street Gastonia, NC 28052 Fabricator, Black Bar and Epoxy Coated Bar	2007-117Q
CMCRK 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Rebar Knoxville 1919 Tennessee Avenue Knoxville, TN 37921 Fabricator, Black Bar and Epoxy Coated Bar (Formerly Gerdau Ameristeel - GERD3 15)	2010-190Q



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

Last Revised: 2/23/2024

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

Product	Name	Ref. No.
CMCRM 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Muncie 1610 South Macedonia Avenue Muncie, IN 47302 Fabricator, Black Bar and Epoxy Coated Bar		2009-073Q
CMCRPA15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Perth Amboy 333 Riverview Drive Perth Amboy, NJ 08861 Fabricator, Black Bar Only <i>(Formerly Gerdau Ameristeel - GERD1215)</i>		2017-045Q
CMCRS 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Sayreville 1 Crossman Road North Sayreville, NJ 08872 Fabricator, Black Bar Only <i>Note: Not approved to bend reinforcement bar.</i>	Cutting / Shearing of Black Bar to Length	2019-026
CMCRY 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar York 1700 7th Avenue York, PA 17403 Fabricator, Black Bar and Epoxy Coated Bar <i>(Formerly Gerdau Ameristeel - GERD6 15)</i>		----
CMCTN 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel Tennessee 1919 Tennessee Avenue Knoxville, TN 37921 Fabricator, Black Bar and Epoxy Coated Bar <i>(Formerly Gerdau Ameristeel - GERD3 15)</i>		2010-190Q
CONTM 15 Contractors Materials Company, 10320 South Medallion Drive, Cincinnati, OH 45241 http://cmcmmi.com/ Fabricator, Black Bar and Epoxy Coated Bar Fabricator, Stainless Steel Bar Threading of Reinforcement Bar Threading of Reinforcement Bar		1997-049Q 2012-166Q 1997-049Q 2017-274Q
	Tru-Splice Precast Insert System	



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

Last Revised: 2/23/2024

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

Product	Name	Ref. No.
DIAFB 15 Diamond Fabrications, Inc., 30 Stewart Court, Washington, PA 15301 http://diamondmetalfab.com/ Fabricator, Black Bar and Epoxy Coated Bar		1998-045
DIMFAB15 Dimension Fabricators, 2000 7th Street, Glenville, NY 12302 https://www.dimensionfabricators.com/ Fabricator, Black Bar and Epoxy Coated Bar		2016-165Q
FISHW 15 Fisher Welding & Fabrication, 923 Deturksville Road, P.O. Box 28, Pine Grove, PA 17963 https://fisher-welding-fabricating.hub.biz/ Fabricator, Black Bar and Epoxy Coated Bar		2013-154Q
HARMA 15 HarMac, A Division of A.H. Harris Sayreville, 301 Hartle Street, Sayreville, NJ 08872 https://ahharris.com/ Fabricator, Black Bar and Epoxy Coated Bar		2007-090Q
IRF-1 15 InteRebar Fabricators, 20 Davidson Lane, New Castle, DE 19720-2214 <i>Formerly Metal Partners International (MPI-1 15; 2017-190Q)</i> Fabricator, Black Bar and Epoxy Coated Bar		2020-242Q
KENGC 15 Kenglo Construction Supply Company, P. O. Box 54, Route 403 South, Strongstown, PA 15957 Fabricator, Black Bar and Epoxy Coated Bar		2001-152Q
MENOS 15 Men of Steel Rebar Fabricators, 2039 Route 130, Burlington, NJ 08016 http://www.menofsteelrebar.com/ Fabricator, Black Bar and Epoxy Coated Bar		2008-086Q
MIDWP 15 Midwest Pipe Coating, 925 Kennedy Ave., Schererville, IN 46375 http://midwestpiperebar.com/ Fabricator, Black Bar and Epoxy Coated Bar		2010-054Q
MORGA 15 Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067 Fabricator, Black Bar and Epoxy Coated Bar		1989-247



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

Last Revised: 2/23/2024

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

Product	Name	Ref. No.
REST1 15 Re-Steel Supply Company, Inc., 2000 Eddystone Industrial Park, Eddystone, PA 19022 http://www.resteel.com/		
Fabricator, Black Bar and Epoxy Coated Bar		----
Fabricator, Stainless Steel Bar		----
<i>Only approved to cut straight stainless steel reinforcement bars to required length. Not approved to bend stainless steel reinforcement bars at any angle.</i>		
REST2 15 Re-Steel Supply Company, Inc., 798 E. Venango Street, Philadelphia, PA 19134 http://www.resteel.com/		
Fabricator, Black Bar and Epoxy Coated Bar		2007-009Q
Fabricator, Galvanized Bar		2007-148Q
REST3 15 Re-Steel Supply Company, Inc., 63 J R Hawvermale Way, 522 Business Park, Berkeley Springs, WV 25411 http://www.resteel.com/		
Fabricator, Black Bar and Epoxy Coated Bar		2009-067Q
Fabricator, Stainless Steel Bar		----
<i>Only approved to cut straight stainless steel reinforcement bars to required length. Not approved to bend stainless steel reinforcement bars at any angle.</i>		
SALSR 15 Salit Specialty Rebar, 3235 Lockport Road, Niagara Falls, NY 14305 http://stainlessrebar.com/		
Fabricator, Stainless Steel Bar		2008-178Q
SIMCT 15 Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 http://simcote.com/		
Fabricator, Black Bar and Epoxy Coated Bar		2010-210Q
SIMP1 15 American Highway, A Simplex Company, 2150 US Hwy 45-54, Kankakee, IL 60901 https://americanhighway.com/ <i>Formerly Dayton Superior Corporation (DAYT5 15)</i>		
Fabricator, Black Bar and Epoxy Coated Bar		1994-117
SIMRE 15 Simpson Reinforcing, Inc, 2001 Dr. Thomas Boulevard, New Kensington, PA 15068 http://www.simpsonrebar.com/		
Fabricator, Black Bar and Epoxy Coated Bar		----
Fabricator, Galvanized Bar		2008-174Q



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Section 709: Reinforcement Steel

709.1 Fabricator of Reinforcement Bars

Last Revised: 2/23/2024

All approved epoxy coated and galvanized rebar fabricators can fabricate black rebar unless otherwise noted.

	Product	Name	Ref. No.
SPIFA 15	Spiral Fab, Inc., 10034 State Road 156, Vevay, IN 47043 Spiral Fabricator, Black Bar and Epoxy Coated Bar	http://spiral-fab.com/	2010-120Q
STEEL 15	Steelcorp, Inc., 5938 State Route 128, Miamitown, OH 45041 Fabricator, Black Bar and Epoxy Coated Bar	http://steelcorpinc.com/	2000-112Q
TITUS 15	Titusville Enterprises, Re-Steel Supply Company, 191 Howard Street, #203, Franklin, PA 16323 Fabricator, Black Bar and Epoxy Coated Bar Fabricator, Galvanized Bar	https://www.resteel.com/business/titusville-enterprises/	1996-073 2007-011Q
TOLTC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 (formerly: Toltec Steel Services, Inc.) Fabricator, Black Bar and Epoxy Coated Bar	https://www.cmc.com/	2001-229Q
TRIBO 15	Tri-Boro Construction Supplies, Inc, 1490 Ritner Highway, Carlisle, PA 17013 Fabricator, Black Bar and Epoxy Coated Bar	http://www.tri-borosupplies.com/	2008-040Q
TYEBR 15 Facility	TyE Bar, LLC, 1050 Ohio Avenue, Glassport, PA 15045 1050 Ohio Avenue Glassport, PA 15045 Fabricator, Black Bar and Epoxy Coated Bar	http://www.tyerebar.com/	2015-084Q
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 Fabricator, Black Bar and Epoxy Coated Bar	http://www.lcwhitford.com/	2007-043Q

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

* [Rebar Mill Symbols](#)

Deformed: AASHTO M 31 (ASTM A615), Grade 60

Plain: AASHTO M 227 (ASTM A663) or AASHTO M 255 (ASTM A675), Grades 70, 75, or 80. AASHTO M 31 (ASTM A615), Grades 40 or 60.

Product	Name	NTPEP Test Number	Ref. No.
ABSTM 15	Byer Steel, 200 West North Bend Road, Cincinnati, OH 45216 http://www.byersteelminded.com/ <i>Formerly A. B. Steel Mills, Inc.</i>		
	Deformed Straight Rebar		2001-162
ALTSC 15	Alton Steel Inc., # 5 Cut Street, Alton, IL 62002 http://altonsteel.com/		
	Plain Straight Rebar		1999-226Q
CMCFL 15	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel Florida 16770 Rebar Road Jacksonville, FL 32234		
	Deformed Straight Rebar <i>(Formerly Gerdau Ameristeel - GERD4 15)</i>		1986-166
	Plain Straight Rebar <i>(Formerly Gerdau Ameristeel - GERD4 15)</i>		1986-166
CMCNJ 15	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel New Jersey 1 North Crossman Road Sayreville, NJ 08872		
	Deformed Straight Rebar <i>(Formerly Gerdau Ameristeel - GERD1115)</i>		1988-098
	Plain Straight Rebar <i>(Formerly Gerdau Ameristeel - GERD1115)</i>		1988-098
CMCOK 15	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel Oklahoma 584 Old Highway 70 Durant, OK 74701		
	Deformed Straight Rebar	REBAR-2018-01-028	2019-115Q
	Deformed Coiled Rebar <i>Bar sizes 3 to 6 only</i>	REBAR-2018-01-028	2019-115Q



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

* [Rebar Mill Symbols](#)

Deformed: AASHTO M 31 (ASTM A615), Grade 60

Plain: AASHTO M 227 (ASTM A663) or AASHTO M 255 (ASTM A675), Grades 70, 75, or 80. AASHTO M 31 (ASTM A615), Grades 40 or 60.

Product	Name	NTPEP Test Number	Ref. No.
CMCSC 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/			
Facility	CMC Steel South Carolina 310 New State Road Cayce, SC 29033		
Deformed Straight Rebar	(Prior Ref Nos. 1998-096, 1989-099, 1993-045)		1998-084
Plain Straight Rebar	(Prior Ref Nos. 1998-096, 1989-099, 1993-045)		1998-084
CMCTN 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/			
Facility	CMC Steel Tennessee 1919 Tennessee Avenue Knoxville, TN 37921		
Deformed Straight Rebar (Formerly Gerdau Ameristeel - GERD3 15)			1987-204
Plain Straight Rebar (Formerly Gerdau Ameristeel - GERD3 15)			1987-204
EVRAZ 15 Evraz, Inc. NA/Rocky Mountain Steel, 2100 S. Freeway, Pueblo, CO 81004 http://www.evrazna.com/Products/tabid/55/Default.asp			
Deformed Coiled Rebar			2013-130Q
GERD1 15 Gerdau Ameristeel, Charlotte Steel Mill Div., P.o. Box 481980, Charlotte, NC 28269 http://www.gerdau.com/northamerica/en			
Deformed Straight Rebar			1986-167
Plain Straight Rebar			1986-167
GERD1215 Gerdau Ameristeel, Perth Amboy Steel Division, 333 Riverview Drive, Perth Amboy, NJ 08861 http://www.gerdau.com/northamerica/en			
Deformed Straight Rebar	(Prior Ref. Nos.: 1989-198, 1986-354)		2000-099Q
Plain Straight Rebar	(Prior Ref No. 1986-354)		1989-198



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

* [Rebar Mill Symbols](#)

Deformed: AASHTO M 31 (ASTM A615), Grade 60

Plain: AASHTO M 227 (ASTM A663) or AASHTO M 255 (ASTM A675), Grades 70, 75, or 80. AASHTO M 31 (ASTM A615), Grades 40 or 60.

Product	Name	NTPEP Test Number	Ref. No.
GERD1315 Gerdau Ameristeel, St. Paul Mill, 1678 Red Rock Road, St. Paul, MN 55119 http://www.gerdau.com/northamerica/en			
<i>Effective July 1, 2020, the St. Paul Mill is an idle status.</i>			
	Deformed Straight Rebar		1986-354
	Plain Straight Rebar		1989-198
GERD1515 Gerdau Ameristeel Sand Springs, Quality Assurance Department, 2300 South Highway 97, Sand Springs, OK 74063 http://www.gerdau.com/northamerica/en			
	Deformed Straight Rebar		2003-107Q
	Plain Straight Rebar		2003-107Q
GERD1615 Gerdau Ameristeel - Midlothian, 300 Ward Road, Midlothian, TX 76065 http://www.gerdau.com/northamerica/en			
	Deformed Straight Rebar		1986-120
	Plain Straight Rebar		1986-120
GERD2 15 Gerdau Ameristeel, West Tennessee Steel Mill Division, P.O. Box 3670, Jackson, TN 38303 http://www.gerdau.com/northamerica/en			
	Deformed Straight Rebar		1986-160
	Plain Straight Rebar		1986-160
KEYSW 15 Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us			
<i>Formerly Keystone Steel & Wire Company</i>			
	Deformed Coiled Rebar		2013-061Q
<i>Bar Sizes 3-5 Only. The new supplier code is LIBSWP15.</i>			
LIBSWP15 Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us			
<i>Formerly Keystone Steel & Wire Company (KEYSW 15)</i>			
	Deformed Coiled Rebar		2013-061Q
<i>Bar Sizes 3-5 Only</i>			



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

* [Rebar Mill Symbols](#)

Deformed: AASHTO M 31 (ASTM A615), Grade 60

Plain: AASHTO M 227 (ASTM A663) or AASHTO M 255 (ASTM A675), Grades 70, 75, or 80. AASHTO M 31 (ASTM A615), Grades 40 or 60.

Product	Name	NTPEP Test Number	Ref. No.
NUCR1 15 Nucor Steel, Darlington Division, 300 Steel Mill Road, Darlington, SC 29540 http://www.nucor.com/			
	Deformed Straight Rebar		1991-180
	Plain Straight Rebar		1991-180
NUCR2 15 Nucor Steel, Auburn Division, P.O. Box 2008, 25 Quarry Road, Auburn, NY 13021 http://www.nucor.com/			
	Deformed Straight Rebar		1998-165
	Plain Straight Rebar		1998-165
NUCR3 15 Nucor Steel Kankakee, Inc., 972 East 4500 North Road, Bourbonnais, IL 60914-4127 http://www.nucor.com/			
	Deformed Straight Rebar		1991-367
	Plain Straight Rebar		1991-367
NUCR4 15 Nucor Steel Jackson, Inc., 3630 Fourth Street, Flowood, MS 39232 http://www.nucor.com/			
	Deformed Straight Rebar	(Prior Ref. Nos. 1987-151, 1991-314)	1991-315
	Plain Straight Rebar	(Prior Ref. Nos. 1987-151, 1991-314)	1991-315
NUCR5 15 Nucor Steel Birmingham, Inc., P.O. Box 2764, Birmingham, AL 35202-2764 http://www.nucor.com/			
	Deformed Straight Rebar	(Prior Ref. Nos. 1990-014, 1990-066, 1991-070, 1991-071, 1995-224, 1995-280)	1995-280
NUCR6 15 Nucor Steel Marion, Inc., 912 Cheney Ave., Marion, OH 43302 http://www.nucor.com/			
	Deformed Straight Rebar		1991-020
	Plain Straight Rebar		1991-020



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Section 709: Reinforcement Steel

709.1(a) Billet Steel Bars

Last Revised: 10/14/2020

* [Rebar Mill Symbols](#)

Deformed: AASHTO M 31 (ASTM A615), Grade 60

Plain: AASHTO M 227 (ASTM A663) or AASHTO M 255 (ASTM A675), Grades 70, 75, or 80. AASHTO M 31 (ASTM A615), Grades 40 or 60.

Product	Name	NTPEP Test Number	Ref. No.
NUCR7 15	Nucor Steel Connecticut, Inc., 35 Toelles Rd., P. O. Box 928, Wallingford, CT 06492 Deformed Straight Rebar	http://www.nucor.com/	1992-258
OPTS1 15	Optimus Steel, P.O. Box 3869, Beaumont, TX 77704 Plant 100 Old Highway 90 West, Vidor, TX 77662 (Formerly Gerdau Ameristeel - GERD1715) Deformed Coiled Rebar Bar sizes 3 to 5 only	https://optimus-steelusa.com/	2014-238QA
STEDC 15	Steel Dynamics, Inc., 7575 West Jefferson Boulevard, Fort Wayne, IN 46804 Plant Steel Dynamics, Structural and Rail Division 2601 County Road 700 East Columbia City, IN 46725 Deformed Straight Rebar	http://www.stld-cci.com/srd/contact/default.aspx	2019-107Q
STEDP 15	Steel Dynamics, Inc., 7575 West Jefferson Boulevard, Fort Wayne, IN 46804 Plant Steel Dynamics, Engineered Bar Products Division 8000 N. County Road 225 East Pittsboro, IN 46167 Deformed Straight Rebar	https://www.steeldynamics.com/Pittsboro/Home.aspx	2016-152
STEDR 15	Steel Dynamics, Inc., 7575 West Jefferson Boulevard, Fort Wayne, IN 46804 Plant Steel Dynamics, Roanoke Bar Division 102 Westside Boulevard NW Roanoke, VA 24017 Deformed Straight Rebar	http://www.roanokesteel.com/	2007-113Q

709.1(b) Rail Steel Bars

Deformed: ASTM A996, Grade 60. Not to be welded or bent.

Plain: ASTM A996, Grades 50 or 60. Not to be welded or bent.

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 709: Reinforcement Steel

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019

Approved epoxy coaters: Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

Product	Name	Ref. No.
ABCCM 15 ABC Coating Company of Michigan, 1503 Burlingame S.W., Wyoming, MI 49509 Approved Epoxy Coater		1994-144
CMCIL 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 Approved Epoxy Coater (Formerly listed under the TOLTC 15 supplier code)		2001-229Q
CMCNC 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar North Carolina 2528 North Chester Street Gastonia, NC 28052 Approved Epoxy Coater		1997-114
CMCNJ 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel New Jersey 1 North Crossman Road Sayreville, NJ 08872 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD1115)		1990-381
CMCRK 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Knoxville 1919 Tennessee Avenue Knoxville, TN 37921 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD3 15)		1988-337
CMCRM 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Muncie 1610 South Macedonia Avenue Muncie, IN 47302 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD1415)		2005-133Q



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Section 709: Reinforcement Steel

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019

Approved epoxy coaters: Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

Product	Name	Ref. No.
CMCRS 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Rebar Sayreville 1 Crossman Road North Sayreville, NJ 08872 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD1115)		1990-381
CMCTN 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel Tennessee 1919 Tennessee Avenue Knoxville, TN 37921 Approved Epoxy Coater (Formerly Gerdau Ameristeel - GERD3 15)		1988-337
CORCI 15 Re-Steel Supply Co, Inc., 2000 Eddystone Industrial Park, Eddystone, PA 19022 https://www.resteel.com/business/corrosion-control-inc/ Plant Corrosion Control, Inc. 10 Quarry Road Auburn, NY 13021 Approved Epoxy Coater		2004-085Q
LANE5 15 Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 https://www.lanecoatings.com/ Plant Technical Coatings Division 1244 Claremont Road Carlisle, PA 17013 Approved Epoxy Coater		1989-223
MCOAT 15 MC Coating, Inc., 925 N. Main St., Miamisburg, OH 45342 https://www.mccoatinginc.com/ <i>Formerly Miamisburg Coating</i> Approved Epoxy Coater of Mechanical Splice Couplers Only		2013-242Q
MIDWP 15 Midwest Pipe Coating, 925 Kennedy Ave., Schererville, IN 46375 http://midwestpiperebar.com/ Approved Epoxy Coater		1984-128
SIMCT 15 Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 http://simcote.com/ Approved Epoxy Coater		1985-022



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Section 709: Reinforcement Steel

709.1(c) Epoxy Coaters of Steel Bars

Last Revised: 6/18/2019

Approved epoxy coaters: Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

Product	Name	Ref. No.
SIMP1 15	American Highway, A Simplex Company, 2150 US Hwy 45-54, Kankakee, IL 60901 https://americanhighway.com/ <i>Formerly Dayton Superior Corporation (DAYT5 15)</i> Approved Epoxy Coater	1996-160
SIMRE 15	Simpson Reinforcing, Inc, 2001 Dr. Thomas Boulevard, New Kensington, PA 15068 http://www.simpsonrebar.com/ Approved Epoxy Coater <i>Capability to coat up to and including #11 reinforcement bar.</i>	2017-318Q
TITUS 15	Titusville Enterprises, Re-Steel Supply Company, 191 Howard Street, #203, Franklin, PA 16323 https://www.resteel.com/business/titusville-enterprises/ Approved Epoxy Coater	1996-073
TOLTC 15 Facility	Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ CMC Rebar Illinois 780 Eastgate Industrial Parkway Kankakee, IL 60901 <i>(formerly: Toltec Steel Services, Inc.)</i> Approved Epoxy Coater	2001-229Q
UCOAT 15	Universal Coatings, 8511 Tower Drive, Twinsburg, OH 44087 http://universal-coatings.net/ Approved Epoxy Coater of Mechanical Splice Couplers Only <i>Electrostatic and Fluid Dip</i>	2014-240Q

709.1(c)1 Epoxy Powder and Patching Material Manufacturers

Last Revised: 11/9/2020

In accordance with Standard Special Provision C-a00022-A, which is effective for projects let after 12/4/15; the patching or repair material must be compatible with the coating, inert in concrete, and feasible for repairs at the applicator, fabricator, or in the field.

Table A: [Approved Epoxy Coating Powders and Compatible Patching/Repair Materials](#)

Product	Name	Compatible Repair Coating	Ref. No.
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Section 709: Reinforcement Steel

709.1(c)1 Epoxy Powder and Patching Material Manufacturers

Last Revised: 11/9/2020

In accordance with Standard Special Provision C-a00022-A, which is effective for projects let after 12/4/15; the patching or repair material must be compatible with the coating, inert in concrete, and feasible for repairs at the applicator, fabricator, or in the field.

Table A: [Approved Epoxy Coating Powders and Compatible Patching/Repair Materials](#)

Product	Name	Compatible Repair Coating	Ref. No.
3M-07 15 Plant	3M Company, 3M Center, Building 0223-02-E-25, St. Paul, MN 55144 1508 East Cedar Street Angleton, TX 77515		
Epoxy Powder Material (Manufacturer)	Scotchkote 413	ScotchKote 323 R [SIECO]	2015-093Q
Epoxy Powder Material (Manufacturer)	Scotchkote 413	Greenbar Touch Up Coating Kit [VALSP3]	2017-201Q
3MC-1 15 Plant	3M Company, 1840 Oxford Street East, London, Ontario Canada N5v 3r Morden, Manitoba ROG 1JO		
Epoxy Powder Material (Manufacturer)	ScotchKote 413	ScotchKote 323 R [SIECO]	2010-014Q
AKZNC 15	Akzo Nobel Coatings, Inc., 20 Culvert Street, Nashville, TN 37210 https://www.akzonobel.com/		
Epoxy Powder	Resicoat RB-600 HKF30R	BarPatch 803 [ARMIN], Hi-Build Epoxoline Series 66HS [TNEMEC]	2013-141QB
Epoxy Powder	Resicoat RB-600 HKF30R	Greenbar Touch Up Coating Kit [VALSP3]	2019-187Q
Epoxy Powder	Resicoat RB-600 HKF30R-F	BarPatch 803 [ARMIN], Hi-Build Epoxoline Series 66HS [TNEMEC]	2013-141QB
Epoxy Powder	Resicoat RB-600 HKF30R-F	Greenbar Touch Up Coating Kit [VALSP3]	2019-187Q
Epoxy Powder	Resicoat RB-600 HKF30R-LG	BarPatch 803 [ARMIN], Hi-Build Epoxoline Series 66HS [TNEMEC]	2013-141QB
Epoxy Powder	Resicoat RB-600 HKF30R-LG	Greenbar Touch Up Coating Kit [VALSP3]	2019-187Q
AXACS 15	Axalta Coating Systems, LLC, 9800 Genard Road, Houston, TX 77041 http://www.axaltacs.com/corporate/en_US.html Formerly DuPont (DUPT3)		
Epoxy Powder	Nap-Gard 7-2750, 7-2750FC, 7-2750SG	Nap-Gard 7-1868 [SPEPC]	2012-176Q
Epoxy Powder	Nap-Gard 7-2750, 7-2750FC, 7-2750SG	Greenbar Touch Up Coating Kit [VALSP3]	2016-184Q



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Section 709: Reinforcement Steel

709.1(c)1 Epoxy Powder and Patching Material Manufacturers

Last Revised: 11/9/2020

In accordance with Standard Special Provision C-a00022-A, which is effective for projects let after 12/4/15; the patching or repair material must be compatible with the coating, inert in concrete, and feasible for repairs at the applicator, fabricator, or in the field.

Table A: [Approved Epoxy Coating Powders and Compatible Patching/Repair Materials](#)

Product	Name	Compatible Repair Coating	Ref. No.
VALSP215 The Sherwin-Williams Company, 10300 Claude Freeman Drive, Charlotte, NC 28262 https://industrial.sherwin-williams.com/na/us/en/general-industrial.html Formerly Valspar Corporation			
Epoxy Powder Material (Manufacturer)	720A009 Greenbar	Greenbar Touch Up Coating Kit [VALSP3]	2009-079Q
VALSP415 The Sherwin-Williams Company, 13129 Harland Drive Ne, Covington, GA 30014 https://industrial.sherwin-williams.com/na/us/en/general-industrial.html Formerly Valspar Corporation			
Epoxy Powder	720A009 Greenbar	Greenbar Touch Up Coating Kit [VALSP3]	2013-214Q

709.1(c)2.b Coating Repair Material Manufacturers

Last Revised: 11/9/2020

Product	Name	Compatible Epoxy Powder	Ref. No.
ARMIN 15 Alliance Industries Inc., DBA Thermal-Chem Corporation, 2120 Roberts Drive, Broadview, IL 60155 https://www.thermalchem.com/ Formerly Armitage Industries Inc.			
Repair/Patching Material	BarPatch 803	Resicoat RB-600 HKF30R, HKF30R-F, HKF30R-LG [AKZNC]	2013-141QA
<i>Application Technical Info: Approval for un-thinned material only; Substrate temp.: 40-80 deg. F; Mix no less than 3 minutes (longer mix time required for lower temperature); VOC = 0.008 lbs/gal.</i>			
SIECO 15 Sierra Corporation, 11400 West 47th Street, Minnetonka, MN 55343 http://sierrapaint.com/			
Repair/Patching Material	ScotchKote 323R	ScotchKote 413 [3MC-1 & 3M-07]	2013-135Q
<i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 41-200 deg. F @ 5 deg. F above Dew Point Temp. Mixing accomplished by mixing tip dispenser. VOC = 0.280 lbs/gal. Storage Condition Temperature: 40-100 deg. F</i>			



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709.1(c)2.b Coating Repair Material Manufacturers

Last Revised: 11/9/2020

Product	Name	Compatible Epoxy Powder	Ref. No.
SPEPC 15	Specialty Polymer Coatings Inc, #101 - 20529 62nd Ave., Langley, Bc	V3a 8r4	http://www.spc-net.com/
Repair/Patching Material	Nap-Gard 7-1868 Dark Green Fast Cure Repair	Nap-Gard 7-2750 [AXACS]	2012-231Q
<i>Approval for un-thinned material only</i>			
<i>Application Technical Info - Substrate Temp.: 50-212 degF or a min. of 5.4 deg. F above Dew Point Temp.; VOC = 0.05 lbs/gal.</i>			
TNEMEC1	Tnemec Company Inc., 6800 Corporate Drive, Kansas City, MO 64120	http://www.tnemec.com/	
5 Facility	123 W. 23rd Avenue North Kansas City, MO 64116		
Repair/Patching Material	Hi-Build Epoxoline Series 66HS	Resicoat RB-600 HKF30R, HKF30R-F, HKF30R-LG [AKZNC]	2018-034Q
<i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-135 deg. F @ 5 deg. F above dew point; VOC = 1.44 lbs/gal.</i>			
VALSP315	The Sherwin-Williams Company, 5400 Avenue Of The Cities, Moline, IL 61265		
https://industrial.sherwin-williams.com/na/us/en/general-industrial.html			
Formerly Valspar Corporation			
Repair/Patching Material	Greenbar Touch Up Coating Kit	720A009 Greenbar [VALSP1, 2, 4]	2012-235Q
<i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>			
Repair/Patching Material	Greenbar Touch Up Coating Kit	Nap-Gard 7-2750, 7-2750FC, 7-2750SG	2016-184Q
<i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>			
Repair/Patching Material	Greenbar Touch Up Coating Kit	ScotchKote 413 [3M-07]	2017-201Q
<i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>			
Repair/Patching Material	Greenbar Touch Up Coating Kit	Resicoat RB-600 HKF30R, HKF30R-F, HKF30R-LG	2019-187Q
<i>Approval for un-thinned material only. Application Technical Info: Substrate Temp.: 50-100 deg. F; VOC = 2.27 lbs/gal.</i>			

709.1(d) Low-Alloy Steel Bars

Last Revised: 12/3/2020

ASTM A706, Grade 60



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Section 709: Reinforcement Steel

709.1(d) Low-Alloy Steel Bars

Last Revised: 12/3/2020

ASTM A706, Grade 60

Product	Name	Ref. No.
CMCOK 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel Oklahoma 584 Old Highway 70 Durant, OK 74701		
Low-Alloy Steel, Spooled Deformed <i>Bar Sizes 4, 6</i>		2019-126Q
Low-Alloy Steel, Straight Deformed <i>Bar sizes 5, 7, 9</i>		2019-126Q
CMCSC 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel South Carolina 310 New State Road Cayce, SC 29033		
Low-Alloy Steel, Deformed		2005-015Q
EVRAZ 15 Evraz, Inc. NA/Rocky Mountain Steel, 2100 S. Freeway, Pueblo, CO 81004 http://www.evrazna.com/Products/tabid/55/Default.asp		
Low-Alloy Steel, Coiled Only <i>Bar Sizes 3-5 Only</i>		2013-130Q
NUCR1 15 Nucor Steel, Darlington Division, 300 Steel Mill Road, Darlington, SC 29540 http://www.nucor.com/		
Low-Alloy Steel, Deformed		2005-092Q
NUCR2 15 Nucor Steel, Auburn Division, P.O. Box 2008, 25 Quarry Road, Auburn, NY 13021 http://www.nucor.com/		
Low-Alloy Steel, Deformed		1998-165
NUCR3 15 Nucor Steel Kankakee, Inc., 972 East 4500 North Road, Bourbonnais, IL 60914-4127 http://www.nucor.com/		
Low-Alloy Steel, Deformed		1991-367
OPTS1 15 Optimus Steel, P.O. Box 3869, Beaumont, TX 77704 https://optimus-steelusa.com/ Plant 100 Old Highway 90 West, Vidor, TX 77662 (Formerly Gerdau Ameristeel - GERD1715)		
Low-Alloy Steel, Coiled Only <i>Bar sizes 3 to 5 only</i>		----



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709.1(e) Galvanized Bars

Last Revised: 10/2/2020

Product	Name	Ref. No.
CONGV 15 Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 http://ctgalv.com/ Galvanized Bar		2006-116Q
HUBBL 15 O. W. Hubbell and Sons, P.O. Box 37, New York Mills, NY 13417 http://www.whyrust.com Galvanized Bar		2015-005Q
JAR-1 15 ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://artazn.com/ Plant 2500 Old Stage Road Greeneville, TN 37744 Galvanized Bar	LifeDowel (formerly known as LifeJacket Dowel)	2009-084
<i>American Steel Tubing: bonding zinc to bar Southeast Tubular Products: bonding zinc to bar Conditionally approved as an alternate per manufacturer's specifications.</i>		
NJG&T 15 New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114 http://www.newjerseygalvanizing.com/#/ Galvanized Bar		2006-216Q
SAGV1 15 South Atlantic Galvanizing, 3025 Steel Way Drive, P.O. Box 1380, Graham, NC 27253 http://www.southatlanticllc.com/ Galvanized Bar		2014-016Q
TENNG 15 Tennessee Galvanizing, Inc., 1535 Industrial Boulevard, P.O. Box 609, Jasper, TN 37347 http://tennesseegalvanizing.com/ Galvanized Bar		2016-227Q
YOUNG 15 Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 http://younggalvanizing.com/ Galvanized Bar		2006-178Q

709.1(f) Stainless Steel Bars

Last Revised: 9/2/2020

Product	Name	Ref. No.
CARTC 15 Carpenter Technology Corporation, 101 West Bern Street, Reading, PA 19612 http://www.carttech.com/ Facility Hartsville Operations 205 Talley Metal Lane McBee, SC 29101		



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Section 709: Reinforcement Steel

709.1(f) Stainless Steel Bars

Last Revised: 9/2/2020

Product	Name	Ref. No.
CARTC 15 Carpenter Technology Corporation, 101 West Bern Street, Reading, PA 19612 http://www.carttech.com/ Facility Hartsville Operations 205 Talley Metal Lane McBee, SC 29101		
Stainless Steel Bar	CarTech EnduraMet 32 Stainless (UNS S24100)	2008-177Q
<i>TDS: CarTech EnduraMet 32 Stainless Technical Datasheet</i>		

709.1(g) Uncoated Corrosion-Resistant Bars

Last Revised: 8/25/2023

Product	Name	Ref. No.
CASST 15 Cascade Steel Rolling Mills, Inc. (Subsidiary of Schnitzer Steel Industries, Inc.), 3200 NE Highway 99W, McMinnville, OR 97128 http://www.cascadesteel.com/		
Uncoated Corrosion-Resistant Bar	ChromX 9100 (ASTM A1035, CS, Grade 100)	2011-061
<i>Cascade Steel is a licensed partner of MMFX Technologies, a Commercial Metals Company. Product formerly known as MMFX2 Microcomposite Steel.</i>		
CMCSC 15 Commercial Metals Company (CMC), 6565 North MacArthur Blvd., Suite 800, Irving, TX 75039 https://www.cmc.com/ Facility CMC Steel South Carolina 310 New State Road Cayce, SC 29033		
Uncoated Corrosion-Resistant Bar	ChromX 9100 (ASTM A1035, CS, Grade 100)	2021-134Q

709.3 Steel Welded Wire Fabric

Last Revised: 11/22/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

See Standard Drawings BD-632M, BD-676 to BD-680 (Pub 218M) [Publication 218 "Standards for Bridge Design"](#)

Product	Name	Mill / Non-Mill	Ref. No.
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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

Last Revised: 11/22/2021

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A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

See Standard Drawings BD-632M, BD-676 to BD-680 (Pub 218M) [Publication 218 "Standards for Bridge Design"](#)

Product	Name	Mill / Non-Mill	Ref. No.
CARSW 15 Cargill Steel & Wire, 1915 John Connally Drive, Carrollton, TX 75006 http://www.cargill-etm.com/metals.html Cold Drawn Wire Fabricator		Wire-Mill	2000-027Q
CONCT 15 Concrete Pipe Products Corporation, Ten Thomas St., Chenango Bridge, NY 13901 Cold Drawn Wire Fabricator	Bright Basic Wire	Wire-Mill	1990-323
CONGV 15 Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 http://ctgalv.com/ Galvanizer			2006-116Q
DOWNY 15 Downey, B. L., Company, Inc., 2125 Gardner Road, Broadview, IL 60153 Epoxy Coater			1996-248
ENGWP 15 Engineered Wire Products, Inc., 1200 N. Warpole Street, P. O. Box 313, Upper Sandusky, OH 43351 http://ewp1.com/ <i>(Liberty Steel USA)</i> Cold Drawn Wire Fabricator	Bright Basic Wire	Wire-Mill	2009-048Q
Welded Wire Fabric Manufacturer			1991-136
FOXVS 15 Fox Valley Steel & Wire Company, 111 North Douglas Street, Hortonville, WI 54944 Cold Drawn Wire Fabricator		Wire-Mill	2000-339Q
INST2 15 Insteel Wire Products, 638 Rappahannock Wire Road, Gallatin, TN 37066 http://www.insteel.com/ Welded Wire Fabric Manufacturer			2000-160Q



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

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A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

See Standard Drawings BD-632M, BD-676 to BD-680 (Pub 218M) [Publication 218 "Standards for Bridge Design"](#)

	Product	Name	Mill / Non-Mill	Ref. No.
INST4 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 129 Carter Street Mount Airy, NC 27030 <i>Formerly Ivy Steel and Wire (IS&W6)</i>			
	Cold Drawn Wire Fabricator	Bright Basic Wire	Wire-Mill	2008-004Q
	Welded Wire Fabric Manufacturer			----
INST5 15 Plant	Insteel Wire Products, 3050 Melson Ave., Jacksonville, FL 32254 Jacksonville, FL <i>Formerly Ivy Steel and Wire (IS&W6)</i>			
	Welded Wire Fabric Manufacturer			2006-043Q
INST6 15 Plant	Insteel Wire Products, 810 Atchison Street, St. Joseph, MO 64503 MO <i>Formerly Ivy Steel and Wire (IS&W5)</i>			
	Cold Drawn Wire Fabricator	Bright Basic Wire	Wire-Mill	1996-191
	Welded Wire Fabric Manufacturer			1996-191
INST7 15 Plant	Insteel Wire Products, 501 Forrest Road, Hazle Township, PA 198202 501 Forrest Rd Humbolt Industrial Park Hazle Township, PA 18202 <i>Formerly Ivy Steel and Wire (IS&W4)</i>			
	Welded Wire Fabric Manufacturer			1993-221
INST9 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 3325 Route 1099 Hickman, KY			
	Galvanizer			2013-144Q
	Welded Wire Fabric Manufacturer			2013-144Q



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

Last Revised: 11/22/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

See Standard Drawings BD-632M, BD-676 to BD-680 (Pub 218M) [Publication 218 "Standards for Bridge Design"](#)

Product	Name	Mill / Non-Mill	Ref. No.
IOWSW 15	Iowa Steel & Wire, 1500 West Van Buren, Centerville, IA 52544 Welded Wire Fabric Manufacturer		2000-230Q
KEYSW 15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us <i>Formerly Keystone Steel & Wire Company</i> Cold Drawn Wire Fabricator <i>The new supplier code is LIBSWP15.</i>	Steel Mill & Wire-Mill	2009-069Q
LANE5 15	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 https://www.lanecoatings.com/ Plant Technical Coatings Division 1244 Claremont Road Carlisle, PA 17013 Epoxy Coater		1989-223
LEGPT 15	Leggett & Platt, Inc., Adcom Wire Division, No. 1 Leggett Road, Carthage, MO 64836 http://leggett.com/ Plant Nicholasville, KY Cold Drawn Wire Fabricator	Wire-Mill	2002-022Q
LIBSWP15	Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us <i>Formerly Keystone Steel & Wire Company (KEYSW 15)</i> Cold Drawn Wire Fabricator	Steel Mill & Wire-Mill	2009-069Q
NELWS 15	Wire Mesh Corporation (WMC) (Formerly Nelson Wire and Steel), 1015 New Salem Road, New Salem, PA 15468 https://wmc-us.com/ <i>Formerly Nucor Wire Products (NUCW-)</i> Welded Wire Fabric Manufacturer		2011-151QAB
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114 http://www.newjerseygalvanizing.com/#/ Galvanizer		2006-216Q



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Section 709: Reinforcement Steel

709.3 Steel Welded Wire Fabric

Last Revised: 11/22/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

See Standard Drawings BD-632M, BD-676 to BD-680 (Pub 218M) [Publication 218 "Standards for Bridge Design"](#)

Product	Name	Mill / Non-Mill	Ref. No.
NUCR7 15	Nucor Steel Connecticut, Inc., 35 Toelles Rd., P. O. Box 928, Wallingford, CT 06492 http://www.nucor.com/		
	Cold Drawn Wire Fabricator	Steel Mill & Wire-Mill	1992-258B
	Welded Wire Fabric Manufacturer		1992-258B
NUMES 15	Numesh USA, LLC, 211 Warren Street, Glens Falls, NY 12801 http://www.numesh.com/en/		
	Welded Wire Fabric Manufacturer		2010-066Q
OCM-1 15	OCM Manufacturing LLC, 1120 E Peterson Road, Grayslake, IL 60030 http://www.ocm-inc.com/		
Facility	250 Hansen Access Road King of Prussia, PA 19406 <i>Formerly Vimco, Inc. (VIMC- 15)</i>		
	Welded Wire Fabric Manufacturer		2012-017Q
SIMCT 15	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 http://simcote.com/		
	Epoxy Coater		1985-022
TAUSW 15	Taubensee Steel & Wire Company, 600 Diens Drive, Wheeling, IL 60090 http://www.taubensee.com/		
	Cold Drawn Wire Fabricator	Wire-Mill	2003-062Q
TWP-1 15	Tatano Wire Products, LLC (SSW Holding Company, LLC), 3501 Tulsa St, Ft. Smith, AR 79203 http://sswholding.net/		
Facility	714 Braddock View Drive Lemont Furnace, PA 15456		
	Welded Wire Fabric Manufacturer		2019-250Q
VIMC- 15	Vimco, Inc., 300 Hansen Access Road, King of Prussia, PA 19406 http://vimcoinc.com/		
	<i>Company name change to OCM Manufacturing LLC (OCM-1 15)</i>		
	Welded Wire Fabric Manufacturer		2012-017Q



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709.3 Steel Welded Wire Fabric

Last Revised: 11/22/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap metal was originally melted to form the hot rolled steel prior to being drawn into wire. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

See Standard Drawings BD-632M, BD-676 to BD-680 (Pub 218M) [Publication 218 "Standards for Bridge Design"](#)

Product	Name	Mill / Non-Mill	Ref. No.
WIRET 15 Plant	Wiretech Inc., 6440 E. Canning St., Commerce, CA 90040 Elyria, OH 44035 Cold Drawn Wire Fabricator	http://www.wiretechincorporated.com/ Wire-Mill	2010-060Q
YOUNG 15	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 Galvanizer	http://younggalvanizing.com/	2006-178Q

709.4 Deformed Welded Wire Fabric

Last Revised: 5/14/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap steel was originally melted to form the steel rods. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Ref. No.
CONGV 15	Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 Galvanizer	http://ctgalv.com/ 2006-116Q
CRI-1 15	Concrete Reinforcements, Inc, 13450 W Peoria Ave, Surprise, AZ 85379 Welded Wire Fabric Manufacturer	http://cri-steel.com/ 2020-017Q
DOWNY 15	Downey, B. L., Company, Inc., 2125 Gardner Road, Broadview, IL 60153 Epoxy Coater	1996-248



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Section 709: Reinforcement Steel

709.4 Deformed Welded Wire Fabric

Last Revised: 5/14/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap steel was originally melted to form the steel rods. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Ref. No.
ENGWP 15 <i>(Liberty Steel USA)</i> Welded Wire Fabric Manufacturer	Engineered Wire Products, Inc., 1200 N. Warpole Street, P. O. Box 313, Upper Sandusky, OH 43351 http://ewp1.com/	1991-136
INST4 15 Plant Welded Wire Fabric Manufacturer	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 http://www.insteel.com/ 129 Carter Street Mount Airy, NC 27030	-----
INST5 15 Plant Welded Wire Fabric Manufacturer	Insteel Wire Products, 3050 Melson Ave., Jacksonville, FL 32254 http://www.insteel.com/ Jacksonville, FL <i>Formerly Ivy Steel and Wire (IS&W6)</i>	2006-043Q
INST6 15 Plant Welded Wire Fabric Manufacturer	Insteel Wire Products, 810 Atchison Street, St. Joseph, MO 64503 http://www.insteel.com/ MO <i>Formerly Ivy Steel and Wire (IS&W5)</i>	1996-191
INST7 15 Plant Welded Wire Fabric Manufacturer	Insteel Wire Products, 501 Forrest Road, Hazle Township, PA 198202 http://www.insteel.com/ 501 Forrest Rd Humbolt Industrial Park Hazle Township, PA 18202 <i>Formerly Ivy Steel and Wire (IS&W4)</i>	1992-071



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Section 709: Reinforcement Steel

709.4 Deformed Welded Wire Fabric

Last Revised: 5/14/2021

All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap steel was originally melted to form the steel rods. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

	Product	Name	Ref. No.
INST9 15 Plant	Insteel Wire Products, 1373 Boggs Drive, Mount Airy, NC 27030 3325 Route 1099 Hickman, KY	http://www.insteel.com/	
	Galvanizer		2013-144Q
	Welded Wire Fabric Manufacturer		2013-144Q
IOWSW 15	Iowa Steel & Wire, 1500 West Van Buren, Centerville, IA 52544		
	Welded Wire Fabric Manufacturer		2000-230Q
LANE5 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 Technical Coatings Division 1244 Claremont Road Carlisle, PA 17013	https://www.lanecoatings.com/	
	Epoxy Coater		1989-223
NELWS 15	Wire Mesh Corporation (WMC) (Formerly Nelson Wire and Steel), 1015 New Salem Road, New Salem, PA 15468 <i>Formerly Nucor Wire Products (NUCW-)</i>	https://wmc-us.com/	
	Welded Wire Fabric Manufacturer		2011-151QAB
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114	http://www.newjerseygalvanizing.com/#/	
	Galvanizer		2006-216Q
NUCR7 15	Nucor Steel Connecticut, Inc., 35 Toelles Rd., P. O. Box 928, Wallingford, CT 06492	http://www.nucor.com/	
	Welded Wire Fabric Manufacturer		2011-124Q
NUMES 15	Numesh USA, LLC, 211 Warren Street, Glens Falls, NY 12801	http://www.numesh.com/en/	
	Welded Wire Fabric Manufacturer		2010-066Q



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Section 709: Reinforcement Steel

709.4 Deformed Welded Wire Fabric

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All supplied project material MUST include documentation (Mill Certifications) from the "Steel Mill". A "Steel Mill" is defined as where the iron ore, pig iron, or scrap steel was originally melted to form the steel rods. The documentation must include physical test results and a statement that the material was "melted and manufactured in the USA". [Required certification documentation for Department funded projects \(Sections 709.3 & 709.4\)](#)

A "Wire-Mill" is defined as a facility that cold draws the steel rods into wire.

Product	Name	Ref. No.
REISO 15 <i>(Liberty Steel USA)</i> Welded Wire Fabric Manufacturer	Engineered Wire Products, 3121 West Market Street, Warren, OH 44485 http://ewp1.com/	2011-086Q
SIMCT 15 Epoxy Coater	Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 http://simcote.com/	1985-022
TWP-1 15 Facility Welded Wire Fabric Manufacturer	Tatano Wire Products, LLC (SSW Holding Company, LLC), 3501 Tulsa St, Ft. Smith, AR 79203 http://sswholding.net/ 714 Braddock View Drive Lemont Furnace, PA 15456	2020-169Q
YOUNG 15 Galvanizer	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143 http://younggalvanizing.com/	2006-178Q



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Section 711: Concrete Curing Material and Admixtures

711.1(a) Curing and Protecting Covers: White Polyethylene Sheeting

Last Revised: 3/9/2015

Product	Name	Ref. No.
FORTC 15 Fortifiber Corporation, 511 Highland Drive, Valdosta, GA 31601 http://www.fortifiber.com/ White Polyethylene Sheeting		1999-180
POLYA 15 Poly-America, Inc., 2000 West Marshall Drive, Grand Prairie, TX 75051 http://www.poly-america.com/ White Polyethylene Sheeting		1986-176

711.1(b) Curing and Protecting Covers: White Polyethylene Sheeting-Burlap Backed

Last Revised: 7/6/2017

Product	Name	Ref. No.
MAX-K 15 Max Katz Bag Company, Inc., 235 South Lasalle Street, Indianapolis, IN 46201 http://www.maxkatzbag.com/ White Polyethylene Sheeting, Natural Burlap Backed White Polyethylene Sheeting, Synthetic Burlap Backed		----- 1995-095
MCTG- 15 McTech Group, Inc., 3502 Diversified Drive, Loganville, GA 30052 http://www.mctechgroup.com/ White Polyethylene Sheeting, Natural Burlap Backed <i>Conditionally approved as an alternate per manufacturer's specifications.</i>	Ultracure	2010-062Q
MIDWC 15 Midwest Canvas Corporation, 4635 West Lake St., Chicago, IL 60644 http://www.midwestcanvas.com/ White Polyethylene Sheeting, Natural Burlap Backed		2000-105Q

711.1(c) Curing and Protecting Covers: White Polypropylene Sheeting-Polypropylene Fiber Backed

Last Revised: 3/9/2015

Product	Name	Ref. No.
FORTC 15 Fortifiber Corporation, 511 Highland Drive, Valdosta, GA 31601 http://www.fortifiber.com/ White Polypropylene Sheeting, Polypropylene Fiber Backed		1999-020

711.1(d) Curing and Protecting Covers: Burlap

Last Revised: 2/12/2021

Product	Name	Ref. No.
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Section 711: Concrete Curing Material and Admixtures

711.1(d) Curing and Protecting Covers: Burlap

Last Revised: 2/12/2021

Product	Name	Ref. No.
ABITC 15	Abitec, Inc., 105 Grove Circle, Chalfont, PA 18914 Burlap	1999-191Q
ACEBB 15	Ace Bag & Burlap Company, 205 Water Street, Brooklyn, NYC, NY 11201 http://www.ace-bag.com/ Burlap	1992-046
AGNES 15	AGNES INTERNATIONAL, INC., 51 Harrison Street, 2nd Floor, Hoboken, NJ 07030 Facility Indarsen Shamal Pvt. Ltd. Kolkata - West Bengal (India) Burlap	2020-222Q
AMEES 15	Ame Sales, Inc., 55 West 39th Street, New York, NY 10018 Burlap	1992-274A
BAG-P 15	Bag Processors, Inc., 325 W. Allen Street, Mechanicsburg, PA 17055 http://www.bag-pro.com/ Burlap	1983-106
DAYBAG15	The Dayton Bag & Burlap Co, 322 Davis Avenue, Dayton, OH 45403 https://www.daybag.com/ Burlap <i>Provisionally Approved. Per the provisional approval, the Department will monitor the burlap use, application, and performance for a period of two years (6/5/2020 to 6/5/2022). Manufacturer agrees to submit samples for Plant Verification (PV) testing of a minimum of six distinct lots delivered to PennDOT projects over the two-year period. The submitted samples shall be two yards long by full width, labeled and rolled for shipping, and delivered to PennDOT's Laboratory Testing Section. Samples of lots not shipped to PennDOT may be used if unavoidable.</i>	2020-067Q
G&GF0 15	G. & G. Fabricating Co., 930 Henderson Blvd., #12, Folcroft, PA 19032 http://gandgstamping.com/ Burlap	----
INDVA 15	Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 http://www.iviindustries.com/index.html Burlap	1994-100
MAX-K 15	Max Katz Bag Company, Inc., 235 South Lasalle Street, Indianapolis, IN 46201 http://www.maxkatzbag.com/ Burlap	----



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Section 711: Concrete Curing Material and Admixtures

711.1(e) Curing and Protecting Covers: Insulating Mats

Last Revised: 7/8/2015

Product	Name	Ref. No.
MIDWC 15 Midwest Canvas Corporation, 4635 West Lake St., Chicago, IL 60644 http://www.midwestcanvas.com/		
Insulating Mat		2000-107Q

711.1(f) Curing and Protecting Covers: Foam Insulation

Last Revised: 1/30/2017

Product	Name	Ref. No.
OWENC 15 Owens Corning, One Owens Corning Parkway, Toledo, OH 43659 http://www.owenscorning.com/		
Foam Insulation	Foamular 1000	2002-005Q
Foam Insulation	Foamular 150	2002-005Q
Foam Insulation	Foamular 250	2002-005Q
Foam Insulation	Foamular 400	2002-005Q
Foam Insulation	Foamular 600	2002-005Q

PACTV 15 Kingspan Insulation LLC, 2100 RiverEdge Parkway, Suite 175, Atlanta, GA 30328 *Formerly Pactiv Building Products*

Foam Insulation	GreenGuard XPS CM (0.5" thick)	1990-359A
Foam Insulation	GreenGuard XPS CM (1" thick)	1990-359B
Foam Insulation	GreenGuard XPS CM (1.5" thick)	1990-359C
Foam Insulation	GreenGuard XPS CM (2" thick)	1990-359D
Foam Insulation	GreenGuard XPS CM (2.5" thick)	1990-359E
Foam Insulation	GreenGuard XPS CM (3" thick)	1990-359F

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 11/3/2022

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Safe-Cure and Seal EPX		1999-217Q



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Section 711: Concrete Curing Material and Admixtures

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 11/3/2022

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Safe-Cure Clear DR		1989-076
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Safe-Cure 2000		1989-044
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Safe-Cure 800		1989-043
CRAF6 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafcO.com/			
Plant 234 Harvestore Drive Dekalb, IL 60115			
Supplier code formerly RTPTC 15			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Acrylic Concrete Cure and Seal 350		2017-199Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Clear Water Resin 309		2004-052Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Right Sheen 30 350		2017-206Q
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Water Resin 309		2004-051Q
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Water Wax 309		2003-033Q



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Section 711: Concrete Curing Material and Admixtures

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 11/3/2022

Product	Name	NTPEP Test Number	Ref. No.
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Clear Resin Cure J11W		1994-070
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	DSSCC Clear Wax Cure		2000-102Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Resin Cure with Dye J11W		1985-200
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Resin Cure J10W		----
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Wax Cure J9A		2000-101Q
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Tammscure WB 30D		2001-140Q
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Thinfilm-420		----
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Thinfilm-445 (Wax Based)		1989-147
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Thinfilm-450		----



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Section 711: Concrete Curing Material and Admixtures

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 11/3/2022

Product	Name	NTPEP Test Number	Ref. No.
L&MCC 15 LATICRETE International, Inc., One LATICRETE Park North, Bethany, CT 06524-3423 https://laticrete.com/en/concrete-construction-chemicals			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	L&M Cure R		1994-187
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	L&M Cure R2		1994-188
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	L&M Cure W2 (Wax Based)		1994-162
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/			
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1200		1988-251
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1250		1992-076
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1600		1988-252
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 2255 White		2013-115Q
MEDW1 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Plant 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550			
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Sealtight 1100		2013-128Q
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1200		1988-251
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Sealtight 1600		1988-252



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Section 711: Concrete Curing Material and Admixtures

711.2(a) Concrete Curing Compound: Clear or White

Last Revised: 11/3/2022

Product	Name	NTPEP Test Number	Ref. No.
RTPTC 15 Plant	CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 234 Harvestore Drive Dekalb, IL 60115 Formerly RIGHT/POINTE, LLC	http://www.rightpointe.com/	
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Acrylic Concrete Cure and Seal 350		2017-199Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Clear Water Resin 309		2004-052Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Right Sheen 30 350		2017-206Q
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Water Resin 309		2004-051Q
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	White Water Wax 309		2003-033Q
SPECH 15	SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108	https://specchem.com/	
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Pavecure WW		2014-150Q
VEXCN 15 Plant	ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 7240 State Road Philadelphia, PA 19135 Formerly Vexcon Chemicals, Inc.	https://www.chemmasters.net/	
Liquid Membrane-Forming Curing Compound, Clear Type 1-D	Certi-Vex AC 1315		2000-069Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Certi-Vex Envio RC 1000		2002-126Q
Liquid Membrane-Forming Curing Compound, Clear Type 1-D, Translucent/Red Fugitive Dye	Envio Cure Clear 500		2000-067Q
Liquid Membrane-Forming Curing Compound, White Pigmented, Type 2	Envio Cure White 500		2000-068Q

711.2(b) Concrete Curing Compound: White, Poly-alpha-methylstyrene (PAMS)

Last Revised: 11/3/2022



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Section 711: Concrete Curing Material and Admixtures

711.2(b) Concrete Curing Compound: White, Poly-alpha-methylstyrene (PAMS)

Last Revised: 11/3/2022

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Liquid Membrane-Forming Curing Compound, White, PAMS	Safe-Cure 4000		2018-051Q
CRAF6 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafcO.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Supplier code formerly RTPTC 15</i> Liquid Membrane-Forming Curing Compound, White, PAMS	White Water Resin 44 (PAMS)		2018-013Q
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/ Liquid Membrane-Forming Curing Compound, White, PAMS	Thinfilm 454		2019-071Q
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Liquid Membrane-Forming Curing Compound, White, PAMS	Sealtight 2255 White		2013-115Q
RTPTC 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Formerly RIGHT/POINTE, LLC</i> Liquid Membrane-Forming Curing Compound, White, PAMS	White Water Resin 44 (PAMS)		2018-013Q
VEXCN 15 ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/ Plant 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i> Liquid Membrane-Forming Curing Compound, White, PAMS <i>Provisionally approved per manufacturer's requirement to supply internal QC data and representative 1 quart production lot samples for the first 12 shipments to PennDOT projects.</i>	Certi-Vex Envio Cure White 1315		2018-009Q

711.2(c) Concrete Curing Compound: Black

Last Revised: 7/8/2015



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Section 711: Concrete Curing Material and Admixtures

711.2(c) Concrete Curing Compound: Black

Last Revised: 7/8/2015

Product	Name	NTPEP Test Number	Ref. No.
VEXCN 15 ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/ Plant 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i>	Liquid Membrane-Forming Curing Compound, Black Emulsified Asphalt	Envio Cure Asphalt	2000-070Q

711.2(d) Concrete Curing Compound: Bridge Deck Intermediate

Last Revised: 4/8/2024

Product	Name	NTPEP Test Number	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/	Bridge Deck Intermediate Curing Compound	Spray Film	1990-186
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/	Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	AquaFilm Concentrate J74 (formerly Sure Film J74)	1999-206
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/	Bridge Deck Intermediate Curing Compound	Euco-Bar	1988-088
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/	Bridge Deck Intermediate Curing Compound	Vapor Aid	1993-046
L&MCC 15 LATICRETE International, Inc., One LATICRETE Park North, Bethany, CT 06524-3423 https://laticrete.com/en/concrete-construction-chemicals	Bridge Deck Intermediate Curing Compound	L&M E-Con	1990-176B



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Section 711: Concrete Curing Material and Admixtures

711.2(d) Concrete Curing Compound: Bridge Deck Intermediate

Last Revised: 4/8/2024

Product	Name	NTPEP Test Number	Ref. No.
MBS12 15 Plant Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us 7100 Wright Road Houston, TX 77041 <i>Formerly Master Builders Solutions US LLC</i> Bridge Deck Intermediate Curing Compound	Sikagard-50 ER (previously MasterKure ER-50)		1974-038
MEDW1 15 Plant W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550 Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	Evapre		1998-182
SIKA2 15 Plant Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst Lyndhurst, NJ Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	SikaFilm		2000-130
VEXCN 15 Plant ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/ 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i> Bridge Deck Intermediate Curing Compound <i>Provisionally Approved</i>	Certi-Vex Envio Assist		2010-148Q

711.3 Concrete Admixtures

Last Revised: 4/22/2024



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 4/22/2024

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
CHRYYS 15 Chryso, Inc., 3958 Ruger Drive, Royse City, TX 75189 http://us.chryso.com/index.php				
Accelerating (Type C) Admixture [ACCL]	CHRYSO TurboCast 701	8.0 to 90 oz/cwt	CADD-2018-01-056	2022-256Q
Accelerating (Type C) Admixture [ACCL]	CHRYSO TurboCast NCT	8.0 to 90 oz/cwt	CADD-2020-01-099	2022-236Q
Air Entraining Admixture [AEA]	Chryso Air 260	0.2 to 3.0 oz/cwt	CADD-2021-01-173	2022-088Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO EnviroMix 330	7.0 to 18 oz/cwt	CADD-2019-01-130	2022-219Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO EnviroMix 740	9.0 to 20 oz/cwt	CADD-2019-01-102	2022-255Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	Chryso Fluid Optima 256		CADD-2010-01-051	2012-225Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO Fluid Optima 256 EMx	5.0 to 16 oz/cwt		2022-092Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO Optima 1130	4.0 to 12 oz/cwt	CADD-2020-01-124	2023-125Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO Optima 249	4.0 to 12 oz/cwt	CADD-2018-01-111	2022-089Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO Premia 364 EMx	4.0 to 16 oz/cwt	CADD-2018-01-103	2022-223Q
High Range Water Reducing (Type F) Admixture [HRWR]	CHRYSO Quad 842	6.0 to 20 oz/cwt	CADD-2020-01-110	2022-221Q
Retarding (Type B) Admixture [RE]	CHRYSO NutralSet TC	1.0 to 12 oz/cwt	CADD-2017-01-012	2022-234Q
Water Reducing (Type A) Admixture [WR]	CHRYSO EnviroMix 330	3.0 to 10 oz/cwt	CADD-2019-01-129	2022-218Q
Water Reducing (Type A) Admixture [WR]	CHRYSO EnviroMix 740	3.0 to 12 oz/cwt	CADD-2019-01-101	2022-254Q
Water Reducing (Type A) Admixture [WR]	CHRYSO Fluid Optima 256 EMx	2.0 to 7.0 oz/cwt	CADD-2018-01-058	2022-091Q
Water Reducing (Type A) Admixture [WR]	CHRYSO Optima 1130	2.0 to 5.0 oz/cwt	CADD-2020-01-123	2023-124Q
Water Reducing (Type A) Admixture [WR]	CHRYSO Optima 249	2.0 to 5.0 oz/cwt	CADD-2018-01-110	2022-090Q



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

Last Revised: 4/22/2024

See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
CHRY5 15	Chryso, Inc., 3958 Ruger Drive, Royse City, TX 75189 http://us.chryso.com/index.php			
Water Reducing (Type A) Admixture [WR]	CHRYSO Premia 364 EMx	2.0 to 6.0 oz/cwt	CADD-2018-01-102	2022-222Q
Water Reducing (Type A) Admixture [WR]	CHRYSO Quad 842	2.0 to 10 oz/cwt	CADD-2020-01-109	2022-220Q
DPI-1 15	DarCole Products, Inc., 1940 Hwy 41 South, Sebree, KY 42455 http://www.darcole.com/			
Facility	9130 Hwy 60 West Henderson, KY 42420			
Accelerating (Type C) Admixture [ACCL]	DarNset 130	9.0 to 54 oz/cwt	CADD-2021-01-014	2022-190Q
Accelerating (Type C) Admixture [ACCL]	DarNset 166 (DNS 166)	0 to 54 oz/cwt	CADD-2016-01-050	2020-007Q
Air Entraining Admixture [AEA]	DarCole Synthetic Air 110 (DSA 110)	0.25 to 2.0 oz/cwt	CADD-2016-01-049	2020-004Q
High Range Water Reducing (Type F) Admixture [HRWR]	DarCole Super Flow 1443SCC (DSF 1443SCC)	3.0 to 12 oz/cwt	CADD-2016-01-048	2020-008Q
<i>The maximum allowable dosage for DSF 1443SCC is 12 oz/cwt.</i>				
Water Reducing (Type A) Admixture [WR]	DarNlok 785 (DNL 785)	6.0 to 12 oz/cwt	CADD-2016-01-046	2020-005Q
EUCL3 15	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Plant	227 Pearl Street Auburndale, FL 33823			
Water Reducing (Type A) Admixture [WR]	Eucon SE	2.0 to 5.0 oz/cwt	CADD 2016-01-027	2018-206Q
Water Reducing/Retarding (Type D) Admixture [RR]	Eucon SE	2.0 to 5.0 oz/cwt	CADD 2016-01-035	2018-207Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCL4 15 Plant	Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Easton, PA			
	High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 6425	3.0 to 15 oz/cwt	CADD-2019-01-010 2022-191Q
	Water Reducing (Type A) Admixture [WR]	Plastol 6425	3.0 to 15 oz/cwt	CADD-2019-01-009 2022-192Q



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
Accelerating (Type C) Admixture [ACCL]	Accelguard 80	12 to 90 oz/cwt	CADD-2017-01-080	1989-118
Accelerating (Type C) Admixture [ACCL]	Accelguard G3	10 to 90 oz/cwt	CADD-2016-01-005	2016-201Q
Accelerating (Type C) Admixture [ACCL]	Accelguard NCA	12.0 to 75 oz/cwt	CADD-2019-01-001	2015-060QB
Accelerating (Type C) Admixture [ACCL]	Eucon CIA	10 to 90 oz./cwt	CADD-2013-01-025	2015-122QA
Air Entraining Admixture [AEA]	Eucon AEA-92	0.1 to 4.0 oz/cwt	CADD-2015-01-112	1993-024
Air Entraining Admixture [AEA]	Eucon AEA-92S	0.5 to 2.0 oz/cwt	CADD-2017-01-055	2006-080Q
Air Entraining Admixture [AEA]	Eucon Air MAC12	0.1 to 4.0 oz/cwt	CADD-2018-01-005	2012-204Q
<i>Provisionally Approved</i>				
Air Entraining Admixture [AEA]	Eucon Air MAC6	0.1 to 4.0 oz/cwt	CADD-2016-01-036	2016-251Q
Air Entraining Admixture [AEA]	Eucon Air Mix	0.5 to 1.0 oz/cwt	CADD-2019-01-018	1975-080
Air Entraining Admixture [AEA]	Eucon Air Mix 200	0.5 to 1.0 oz/cwt	CADD-2017-01-056	1995-005
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon 1037	8.0 to 25 oz/cwt	CADD-2018-01-007	2003-067Q
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon 37	6.0 to 18 oz/cwt	CADD-2018-01-006	1980-023
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon MR	10 to 15 oz/cwt	CADD-2018-01-002	2012-220QB
High Range Water Reducing (Type F) Admixture [HRWR]	Eucon MRX	7.0 to 12 oz/cwt	CADD-2018-01-047	2018-235Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 341	6.0 to 10 oz/cwt	CADD-2014-01-058	2004-081Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 5000	8.0 to 15 oz/cwt	CADD-2018-01-044	2002-148Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 6400	7.0 to 12 oz/cwt	CADD-2016-01-002	2015-071Q
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol 6420	6.0 to 10 oz/cwt	CADD-2016-01-004	2012-209QB
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol Ultra 109	2.0 to 12 oz/cwt	CADD 2014-01-066	2015-094Q



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
<i>Effective Feb. 9, 2023, Plastol Ultra 109 is no longer being produced by Euclid. Concrete and precast plants can continue to use remaining supplies of this Type F admixture.</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Plastol Ultra 209	2.0 to 12 oz/cwt	CADD-2018-01-042	2016-252Q
High Range Water Reducing/Retarding (Type G) Admixture	Eucon 537	6.0 to 32 oz/cwt	CADD-2015-01-119	1991-282
Retarding (Type B) Admixture [RE]	Eucon Retarder 75	2.0 to 3.0 oz/cwt	CADD-2017-01-089	----
Retarding (Type B) Admixture [RE]	Eucon Stasis	1.0 to 6.0 oz/cwt	CADD-2015-01-116	2015-061QB
<i>NOTE: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a). This product is also known as Eucon W.O. (same formulation and manufacturing process).</i>				
Retarding (Type B) Admixture [RE]	Eucon W.O.	1.0 to 6.0 oz/cwt	CADD-2017-01-017	2015-061QB
<i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				
Water Reducing (Type A) Admixture [WR]	Eucon MR	4.0 to 10 oz/cwt	CADD-2018-01-001	2012-220QA
Water Reducing (Type A) Admixture [WR]	Eucon MRX	3.0 to 5.0 oz/cwt	CADD-2018-01-046	2018-234Q
Water Reducing (Type A) Admixture [WR]	Eucon WR	2.0 to 5.0 oz/cwt	CADD-2019-01-011	----
Water Reducing (Type A) Admixture [WR]	Plastol 341	2.0 to 6.0 oz/cwt	CADD-2015-01-117	2010-165Q
Water Reducing (Type A) Admixture [WR]	Plastol 6420	2.0 to 6.0 oz/cwt	CADD-2016-01-003	2012-209QA
<i>Provisionally Approved</i>				
Water Reducing and Accelerator (Type E) Admixture	Accelguard G3	10 to 90 oz/cwt	CADD-2020-01-037	2018-174Q
Water Reducing and Accelerator (Type E) Admixture	Accelguard NCA	12 to 75.0 oz/cwt	CADD-2019-01-002	2015-060QA
Water Reducing and Accelerator (Type E) Admixture	Eucon CIA	10 to 90 oz/cwt	CADD-2017-01-081	2015-122QB



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711.3 Concrete Admixtures

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See Section 220.2(j) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
Water Reducing/Retarding (Type D) Admixture [RR]	Eucon Stasis	6.0 to 16 oz/cwt	CADD-2015-01-116	2015-061QA
<i>NOTE: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a). This product is also known as Eucon W.O. (same formulation and manufacturing process).</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	Eucon W.O.	6.0 to 16 oz/cwt	CADD-2011-01-017	2015-061QA
<i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	Eucon WR-91	6.0 to 10 oz/cwt	CADD-2017-01-084	1993-023Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
FABRO 15 Great Lakes Polymer Technologies, LLC (dba Fabpro Polymers), 100 South Fabpro Way, Kingman, KS 67068 http://www.fabpropolymers.com/				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF Master Fiber MAC Matrix	3.0 lbs/cy		2016-174Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber F 70	1.5 lbs/cy		2013-045Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber M 100	0.5 lbs/cy		2013-047Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber M 70	1.0 lbs/cy		2013-046Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber MAC 100	3.0 lbs/cy		2013-048Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber MAC 360 FF	3.0 lbs/cy		2019-101Q
<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC0 15 Facility	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 100 Research Drive Wilmington, MA 01887 Formerly: W. R. Grace and Company	https://gcpat.com/		

A - Note:

See GRAC2 15 (North Bergen, NJ), GRAC3 15 (Chicago, IL - West 51st), GRAC5 15 (Houston, TX), GRAC6 15 (Augusta, GA), or GRAC8 15 (Lithonia, GA) for the manufacturing location.



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC2 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/			
	North Bergen, NJ			
	Formerly: W. R. Grace and Company			
Accelerating (Type C) Admixture [ACCL] <i>For non-reinforced concrete only.</i>	Daracel	6.0 to 40 oz/cwt	CADD-2017-01-054	1983-257
Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2018-01-098	1998-147Q
Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051	1995-040
Air Entraining Admixture [AEA]	Daravair 1000	0.25 to 10 oz/cwt	CADD-2018-01-063	1995-041
Air Entraining Admixture [AEA]	Daravair 1400	0.25 to 10 oz/cwt	CADD-2018-01-066	1995-220
Air Entraining Admixture [AEA]	DARAVAIR AT30	0.25 to 3 oz/cwt	CADD-2018-01-064	2015-200Q
Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Daravair AT60	0.25 to 10 oz/cwt	CADD-2018-01-062	1997-048
Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex EH AEA	0.25 to 10 oz/cwt	CADD-2018-01-068	2003-184Q
Air Entraining Admixture [AEA]	Darex II AEA	0.25 to 10 oz/cwt	CADD-2017-01-040	1993-207
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 140	5.0 to 20 oz/cwt		2002-119Q
High Range Water Reducing (Type F) Admixture [HRWR]	ADVA Flex	4.0 to 14 oz./cwt	CADD-2019-01-035	2015-070Q
High Range Water Reducing (Type F) Admixture [HRWR]	Daracem 19	5.0 to 20.0 oz/cwt	CADD-2019-01-034	1979-028
High Range Water Reducing (Type F) Admixture [HRWR]	MIRA 95	2.0 to 15 oz/cwt	CADD-2018-01-016	2020-216Q
Retarding (Type B) Admixture [RE]	Daratard HC	2.0 to 6.0 oz/cwt	CADD-2020-01-010	----
Water Reducing (Type A) Admixture [WR]	ADVA 140M	2.0 to 6.0 oz/cwt	CADD-2017-01-034	2012-101Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC2 15 Plant				
GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/				
North Bergen, NJ				
<i>Formerly: W. R. Grace and Company</i>				
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR] <i>For non-reinforced concrete only.</i>	Daracel	8.0 to 80 oz/cwt	CADD-2017-01-054	1983-257
Water Reducing (Type A) Admixture [WR]	Daracem 55	3.0 to 6.0 oz/cwt	CADD-2018-01-022	1995-039
Water Reducing (Type A) Admixture [WR]	WRDA 20	2.5 oz/cwt	CADD-2017-01-049	1988-231
Water Reducing (Type A) Admixture [WR]	WRDA 35	2.0 to 6.0 oz/cwt	CADD-2018-01-096	1998-001
Water Reducing (Type A) Admixture [WR]	WRDA 82	2.0 to 6.0 oz/cwt	CADD-2017-01-050	1991-167
Water Reducing/Retarding (Type D) Admixture [RR] <i>Provisionally Approved</i>	Recover	2.0 to 8.0 oz/cwt	CADD-2018-01-093	2012-100Q
Water Reducing/Retarding (Type D) Admixture [RR] <i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>	WRDA 20	3 to 5 oz/cwt	CADD-2017-01-049	2009-186Q
Water Reducing/Retarding (Type D) Admixture [RR] <i>Provisionally Approved</i>	Zyla R	2.0 to 12 oz/cwt	CADD-2017-01-031	2012-173QB



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC3 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/ 6050 West 51st Street Chicago, IL 60638 <i>Formerly: W. R. Grace and Company</i>			
Accelerating (Type C) Admixture [ACCL] <i>For non-reinforced concrete only.</i>	Daracel	6.0 to 40 oz/cwt	CADD-2017-01-054	1983-257
Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2018-01-098	1998-147
Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051	1995-040
Air Entraining Admixture [AEA]	Daravair 1400	0.25 to 10 oz/cwt	CADD-2018-01-066	1995-220
Air Entraining Admixture [AEA]	Daravair M	0.25 to 10 oz/cwt	CADD-2018-01-067	1981-040
Air Entraining Admixture [AEA]	Darex AEA	0.25 to 10 oz/cwt	CADD-2018-01-065	1980-049
Air Entraining Admixture [AEA]	Terapave AEA	0.25 to 1.0 oz/cwt	CADD-2015-01-104	2015-111Q
High Range Water Reducing (Type F) Admixture [HRWR]	ADVA 140M	5.0 to 20 oz/cwt	CADD-2014-01-044	2013-091QA
High Range Water Reducing (Type F) Admixture [HRWR]	Daracem 19	5.0 to 20 oz/cwt	CADD-2019-01-034	1979-028
Water Reducing (Type A) Admixture [WR]	ADVA 140M	2.0 to 6.0 oz/cwt	CADD-2017-01-034	2013-091QB
Water Reducing (Type A) Admixture [WR]	Daracel	8.0 to 80 oz/cwt	CADD-2017-01-054	1983-257
Water Reducing (Type A) Admixture [WR]	WRDA 20	2.5 oz/cwt	CADD-2017-01-049	1988-231
<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	Daratard 17	2.0 to 8.0 oz/cwt	CADD-2019-01-029	1974-037Q
Water Reducing/Retarding (Type D) Admixture [RR] <i>Provisionally Approved</i>	Recover	2.0 to 8.0 oz/cwt	CADD-2018-01-093	2013-093Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC5 15 Plant				
GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/en				
Houston, TX				
<i>Formerly: W. R. Grace and Company</i>				
Accelerating (Type C) Admixture [ACCL]	Daraset 400	8.0 to 100 oz/cwt	CADD-2017-01-053	2007-093Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 140M	5.0 to 20 oz/cwt	CADD-2014-01-044	2009-064Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA 190 Type F	3.0 to 15 oz/cwt	CADD-2018-01-013	2008-202Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA Cast 555	8.0 to 20 oz/cwt	CADD-2018-01-020	2007-032Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>	ADVA Cast 575	2.0 to 10 oz/cwt	CADD-2018-01-014	2007-065Q
High Range Water Reducing (Type F) Admixture [HRWR]	Adva Cast 593	2.0 to 10 oz/cwt	CADD-2020-01-013	2022-067Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Provisionally Approved</i>	ADVA Cast 600	2.0 to 10 oz/cwt	CADD-2017-01-037	2010-157Q
High Range Water Reducing (Type F) Admixture [HRWR]	ADVA ITM750	3.0 to 10 oz/cwt	CADD-2017-01-047	2018-195Q
High Range Water Reducing (Type F) Admixture [HRWR]	CONCERA SA8080	8.0 to 20 oz/cwt	CADD-2017-01-018	2019-134Q
High Range Water Reducing (Type F) Admixture [HRWR] <i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>	EXP 950	2.0 to 10 oz/cwt	CADD-2018-01-015	2009-145Q



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Section 711: Concrete Curing Material and Admixtures

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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC6 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/			
	Augusta, GA			
	Formerly: W. R. Grace and Company			
	Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	DCI	8.0 to 100 oz/cwt	CADD-2018-01-098 2010-102QB
	Accelerating (Type C) Admixture [ACCL]	Polarset	8.0 to 100 oz/cwt	CADD-2017-01-051 2010-102QA
GRAC8 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/			
	Lithonia, GA			
	Formerly: W. R. Grace and Company			
	Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex AEA	0.25 to 10 oz/cwt	CADD-2018-01-065 2010-103QA
	Air Entraining Admixture [AEA] <i>Provisionally Approved</i>	Darex II AEA	0.25 to 10 oz/cwt	CADD-2017-01-040 2010-103QE
	High Range Water Reducing (Type F) Admixture [HRWR]	ADVA 198	2.0 to 15 oz/cwt	CADD-2018-01-017 2016-297Q
	High Range Water Reducing (Type F) Admixture [HRWR]	ADVA Cast 585	2.0 to 12 oz/cwt	CADD-2018-01-019 2016-173Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Mira 110	2 to 20 oz/cwt	CADD-2021-01-158 2023-143Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MIRA 95	2 to 15 oz/cwt	CADD-2018-01-016 2016-172Q
	Water Reducing (Type A) Admixture [WR]	Concera SA8080	2.0 to 8.0 oz/cwt	CADD-2021-01-027 2023-174Q
	Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	Daracel	8.0 to 100 oz/cwt	CADD-2017-01-054 2010-103QB
	Water Reducing (Type A) Admixture [WR]	Zyla 640	2.0 to 6.0 oz/cwt	CADD-2017-01-023 2012-174Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GREET 15	Great Eastern Technologies, LLC, 4407 Broad Street, Yardville, NJ 08620 http://www.greateasterntechnologies.com/			
Air Entraining Admixture [AEA]	Setcon 6A	0.25 to 4 oz/cwt	CADD-2015-01-054	2012-091Q
High Range Water Reducing (Type F) Admixture [HRWR]	PolyStrong	up to 18 oz/cwt	CADD-2011-02-010	2012-070QC
High Range Water Reducing (Type F) Admixture [HRWR]	PolyStrong HP	up to 18 oz/cwt	CADD-2015-01-053	2012-070QD
Water Reducing and Accelerator (Type E) Admixture	SikaSet NC	10 to 45 oz/cwt	CADD-2019-01-071	2020-232Q
<i>Manufactured by Great Eastern Technologies of Yardville, NJ for Sika Corporation.</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	ChemStrong R	2.0 to 4.0 oz/cwt	CADD-2015-01-050	2006-174Q

GRTL 15 **MAPEI Corporation (Formerly General Resource Technology, Inc.), 2978 Center Court, Eagan, MN 55121-1257**
<http://www.mapei.com/US-EN/default.asp>

Plant Logan Township, NJ
Effective 1/1/2020, GRT is now MAPEI Corporation

See Supplier Code MAPEIC15



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MAPEIC15	MAPEI Corporation, 2978 Center Court, Eagan, MN 55121-1257 http://www.mapei.com/US-EN/default.asp			
Plant	Logan Township (Swedesboro), NJ			
	Formerly GRTL 15			
	Accelerating (Type C) Admixture [ACCL] <i>Formerly Polychem Super Set</i>	Mapefast Super Set	8.0 to 32 oz/cwt	2018-172Q
	Accelerating (Type C) Admixture [ACCL] <i>Formerly Polychem Super Set Plus</i>	Mapefast Super Set Plus	8.0 to 32 oz/cwt	CADD-2021-01-051 2019-094Q
	Air Entraining Admixture [AEA] <i>Formerly Polychem SA 50</i>	Mapeair SA 50	0.50 to 3.0 oz/cwt	CADD-2016-01-081 2019-090Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon NRG 1092	3.0 to 15 oz/cwt	CADD-2018-01-089 2019-087Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon SX	3.0 to 15 oz/cwt	CADD-2016-01-080 2018-169Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon SX 37	2.0 to 11.0 oz/cwt	CADD-2018-01-086 2020-250Q
	High Range Water Reducing (Type F) Admixture [HRWR]	Mapeplast KB 1200	3.0 to 12.0 oz/cwt	CADD-2017-01-076 2021-004Q
	Water Reducing (Type A) Admixture [WR] <i>Formerly Polychem 400 NC</i>	Mapeplast 400 NC	3.0 to 5.0 oz/cwt	CADD-2016-01-077 2018-170Q
	Water Reducing (Type A) Admixture [WR]	Mapeplast KB 1200	3.0 to 12.0 oz/cwt	CADD-2016-01-076 2020-275Q
	Water Reducing (Type A) Admixture [WR]	Mapeplast N	2.0 to 8.0 oz/cwt	2021-062Q
	Water Reducing/Retarding (Type D) Admixture [RR]	Mapeplast N	2.0 to 8.0 oz/cwt	2021-063Q
	Water Reducing/Retarding (Type D) Admixture [RR] <i>Formerly Polychem R</i>	Mapetard R	2.0 to 5.0 oz/cwt	CADD-2016-01-093 2018-171Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MAPEID15 Plant	MAPEI Corporation, 2978 Center Court, Eagan, MN 55121-1257 http://www.mapei.com/US-EN/default.asp			
	Eagan, MN			
	Formerly GENRT 15			
Accelerating (Type C) Admixture [ACCL] <i>Formerly Polychem Super Set</i>	Mapefast Super Set	8.0 to 32 oz/cwt		1995-218Q
Air Entraining Admixture [AEA] <i>Formerly Polychem SA 50</i>	Mapeair SA-50	0.50 to 3.0 oz/cwt	CADD-2016-01-081	2016-156Q
High Range Water Reducing (Type F) Admixture [HRWR]	Dynamon SX	3.0 to 15 oz/cwt	CADD-2016-01-080	2016-205Q
High Range Water Reducing (Type F) Admixture [HRWR]	Polychem 3000	6.0 to 20 oz/cwt	CADD-2016-01-078	2016-157Q
High Range Water Reducing (Type F) Admixture [HRWR]	Polychem SPC	5.0 to 12 oz/cwt	CADD-2017-01-075	2017-119Q
Retarding (Type B) Admixture [RE]	Polychem Renu	1.0 to 12 oz/cwt	CADD-2016-01-085	2018-074Q
Water Reducing (Type A) Admixture [WR] <i>Formerly Polychem Super Set</i>	Mapefast Super Set	8.0 to 32 oz/cwt		1995-218
Water Reducing (Type A) Admixture [WR] <i>Formerly Polychem 400 NC</i>	Mapeplast 400 NC	3 to 5 oz/cwt	CADD-2016-01-077	2016-155Q
Water Reducing (Type A) Admixture [WR]	Polychem 3000	1.0 to 20 oz/cwt	CADD-2016-01-088	2016-238Q
Water Reducing/Retarding (Type D) Admixture [RR] <i>Formerly Polychem-R</i>	Mapetard R	2.0 to 5.0 oz/cwt	CADD-2016-01-093	2016-206Q



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See Section 220.2(j) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-0 15 Facility	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 23700 Chagrin Blvd. Cleveland, OH 44122 <i>Formerly BASF Construction Chemicals (BAS-0 15)</i>	https://www.master-builders-solutions.com/en-us		
A - Note: See MBS-1 (Allentown, PA), MBS-3 (Tipp City, OH), MBS-2 (Gurnee, IL), MBS-6 (Lancaster, TX), MBS-9 (Reynolds, GA), MBS-4 (Levittown/Bristol, PA), MBS-5 (Houston, TX), or MBS-8 (Quebec, Canada) for admixtures formerly listed under MBS-0				



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-1 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA Formerly BASF Construction Chemicals (BAS-1 15)	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 122 (Pozzolith 122HE)	16 to 64 oz/cwt	CADD-2015-01-043 1978-030	
	<i>For use in non-reinforced concrete only.</i>				
	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 (Pozzolith NC 534)	10 to 45 oz/cwt	CADD-2015-01-120	1997-153
	Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
	Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
	Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-031	1994-011
	Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	----
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	8.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3400 (Glenium 3400 NV)	2.0 to 12 oz/cwt	CADD-2016-01-099	2004-094Q
	<i>Provisionally Approved</i>				
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7500 (Glenium 7500)	7.0 to 15 oz/cwt	CADD-2014-01-086	2007-118Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7620	3.6 oz./cwt and above	CADD-2014-01-053	2015-091QB	



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-1 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Allentown, PA			
	Formerly BASF Construction Chemicals (BAS-1 15)			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7710 (Glenium 7710)	2.0 to 15 oz/cwt	CADD-2016-01-100	2009-083Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1025 (PolyHeed 1025)	3.0 to 12 oz/cwt	CADD-2016-01-141	2003-142Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterRheobuild 1000 (Rheobuild 1000)	1.0 to 25 oz/cwt	CADD-2105-01-070	1986-373
Retarding (Type B) Admixture [RE]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019	2000-142Q
Retarding (Type B) Admixture [RE]	MasterSet R 100 (Pozzolith 100-XR)	2.0 to 4.0 oz/cwt	CADD-2016-01-098	1969-013
Water Reducing (Type A) Admixture [WR]	Master X-Seed 66	4.0 to 10 oz/cwt	CADD-2021-01-024	2022-071Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 7.0 oz/cwt	CADD-2016-01-103	2002-034Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 7500 (Glenium 7500)	2.0 to 7.0 oz/cwt	CADD-2014-01-085	2007-118Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 7620	2.0 to 3.6 oz/cwt	CADD-2014-01-052	2015-091QA
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1025 (PolyHeed 1025)	3.0 to 12 oz/cwt	CADD-2016-01-140	2003-142Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 900 (Polyheed 900)	3.0 to 15 oz/cwt	CADD-2014-01-084	2003-187Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-1 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA Formerly BASF Construction Chemicals (BAS-1 15) <i>Provisionally Approved</i>	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 997 (Polyheed 997)	3.0 to 15 oz/cwt	CADD-2015-01-071 1990-336	
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019 1975-066	
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 322 (Pozzolith 322-N)	3.0 to 7.0 oz/cwt	CADD-2014-01-039 1991-049	
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 700	3.0 to 5.0 oz/cwt	CADD-2015-01-044 2018-227Q	
	<i>Provisionally Approved: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2016-01-028 2001-024Q	
	Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096 2002-018Q	
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2014-01-019 2000-142Q	
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2017-01-028 2001-024Q	
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet Delvo (Delvo Stabilizer)	3.0 to 5.0 oz/cwt	CADD-2014-01-041 1995-071	



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-2 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Gurnee, IL <i>Formerly BASF Construction Chemicals (BAS-2 15)</i>			
Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 <i>Due to a shortage of sodium thiocyanate, this is a reformulation of the Master Set AC 534 admixture already approved at the Allentown, PA (MBS-1 15) and Tipp City, OH (MBS-3 15) facilities.</i>	10 to 45 oz/cwt	CADD-2021-01-005	2022-265Q
Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096	2002-018Q
Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030	1984-185
Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-031	1994-011
Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032	----
Air Entraining Admixture [AEA]	MasterAir VR 20 (MB-VR Concentrated)	As required		----
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	8.0 to 18 oz/cwt	CADD-2016-01-104	2001-188Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7511 (PS 1583)	3.0 to 15 oz/cwt	CADD-2014-01-030	2011-253QB
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7700 (Glenium 7700)	2.0 to 15 oz/cwt	CADD-2016-01-097	2008-100Q
<i>Provisionally Approved</i>				



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-2 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Gurnee, IL Formerly BASF Construction Chemicals (BAS-2 15)	High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-069 2004-043Q	
	<i>Provisionally Approved</i>				
	Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)	3.0 to 5.0 oz/cwt	CADD-2014-01-020	1974-031
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 7.0 oz/cwt	CADD-2016-01-103	2002-034Q
	Water Reducing (Type A) Admixture [WR]	MasterGlenium 7511 (PS 1583)	3.0 to 15 oz/cwt	CADD-2014-01-030	2011-253QA
	<i>Provisionally Approved</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-068	2004-138Q
	<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096	2002-018Q	



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Tipp City, OH Formerly BASF Construction Chemicals (BAS-3 15)	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 122 (Pozzolith 122HE)	16 to 64 oz/cwt	CADD-2015-01-043 1978-030
	<i>For use in non-reinforced concrete only.</i>			
	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534 (Pozzolith NC 534)	10 to 45 oz/cwt	CADD-2015-01-087 1997-153
	Accelerating (Type C) Admixture [ACCL]	MasterSet FP 20 (Pozzutec 20+)	5.0 to 90 oz/cwt	CADD-2016-01-096 2002-018Q
	Air Entraining Admixture [AEA]	MasterAir AE 200 (Micro-Air)	As required	CADD-2016-01-030 1984-185
	Air Entraining Admixture [AEA]	MasterAir AE 400 (EverAIR Plus)	As required	CADD-2016-01-029 2009-143Q
	<i>Provisionally Approved</i>			
	Air Entraining Admixture [AEA]	MasterAir AE 90 (MB AE 90)	As required	CADD-2016-01-029 1994-011
	Air Entraining Admixture [AEA]	MasterAir VR 10 (MB-VR Standard) (Pave-Air)	As required	CADD-2016-01-032 -----
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3030 (Glenium 3030 NS)	8.0 to 18 oz/cwt	CADD-2016-01-104 2001-188Q
	High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 3400 (Glenium 3400 NV)	2.0 to 12 oz/cwt	CADD-2016-01-099 2004-094Q
	<i>Provisionally Approved</i>			



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
	Tipp City, OH			
	Formerly BASF Construction Chemicals (BAS-3 15)			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7500 (Glenium 7500)	7.0 to 15 oz/cwt	CADD-2014-01-086	2007-118Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7710 (Glenium 7710)	2.0 to 15 oz/cwt	CADD-2016-01-100	2009-083Q
High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1725 (Polyheed 1725)	3.0 to 12 oz/cwt	CADD-2015-01-065	2010-212QB
	<i>Provisionally Approved</i>			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterRheobuild 1000 (Rheobuild 1000)	1.0 to 25 oz/cwt	CADD-2015-01-070	1986-373
Retarding (Type B) Admixture [RE]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-028	2000-142Q
Retarding (Type B) Admixture [RE]	MasterSet R 100 (Pozzolith 100-XR)	2.0 to 4.0 oz/cwt	CADD-2016-01-098	1969-013
Water Reducing (Type A) Admixture [WR]	Master X-Seed 66	4.0 to 10 oz/cwt	CADD-2021-01-024	2022-071Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 3030 (Glenium 3030 NS)	3.0 to 7.0 oz/cwt	CADD-2016-01-103	2002-034Q
Water Reducing (Type A) Admixture [WR]	MasterGlenium 7500 (Glenium 7500)	2 to 7.0 oz/cwt	CADD-2014-01-085	2007-118Q
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 100 (Polyheed FC 100)	8 to 30 oz/cwt	CADD-2018-01-035	2006-068Q
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1725 (Polyheed 1725)	3.0 to 12 oz/cwt	CADD-2015-01-064	2010-212QA



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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.	
MBS-3 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Tipp City, OH Formerly BASF Construction Chemicals (BAS-3 15) <i>Provisionally Approved</i>	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 900 (Polyheed 900)	3.0 to 15 oz/cwt	CADD-2014-01-084 2003-187Q	
	<i>Provisionally Approved</i>	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 997 (Polyheed 997)	3.0 to 15 oz/cwt	CADD-2015-01-071 1990-336
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-032 1975-066	
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 700	3 to 5 oz/cwt	CADD-2015-01-044 2018-226Q	
	<i>Provisionally Approved: Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>				
	Water Reducing (Type A) Admixture [WR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2016-01-028 2001-024Q	
	Water Reducing (Type A) Admixture [WR]	MasterSet FP 20 (Pozzutec 20+)		CADD-2016-01-096 2002-018Q	
	Water Reducing and Accelerator (Type E) Admixture	MasterPolyheed 100	8 to 30 oz/cwt	CADD-2018-01-037 2020-105Q	
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 200 (Pozzolith 200-N)	3.0 to 6.0 oz/cwt	CADD-2018-01-028 2000-142Q	
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterPozzolith 80 (Pozzolith 80)	3.0 to 10 oz/cwt	CADD-2017-01-028 2001-024Q	



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See Section 220.2(j) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 Tipp City, OH <i>Formerly BASF Construction Chemicals (BAS-3 15)</i>				
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet Delvo (Delvo Stabilizer)	3.0 to 5.0 oz/cwt	CADD-2018-01-039	1995-071



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-6 15	Master Builders Solutions Admixtures US, LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122			
	https://www.master-builders-solutions.com/en-us			
Plant	Lancaster, TX			
	Formerly BASF Construction Chemicals (BAS-1015)			
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 1466 (PS 1466)	2.0 to 10 oz/cwt	CADD-2016-01-143	2005-136Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterGlenium 7700 (Glenium 7700)	2.0 to 15 oz/cwt	CADD-2016-01-097	2007-119Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1020 (Polyheed 1020)		CADD-2015-01-069	2004-043Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	MasterPolyheed 1720 (Polyheed 1720)	3.0 to 12 oz/cwt	CADD-2015-01-067	2010-145QB
<i>Provisionally Approved</i>				
Retarding (Type B) Admixture [RE]	MasterSet R 122 (Pozzolith 122-R)	3.0 to 5.0 oz/cwt	CADD-2010-02-015	1975-014
Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzolith 300-R)	3.0 to 5.0 oz/cwt	CADD-2014-01-020	1974-031
Water Reducing (Type A) Admixture [WR]	MasterGlenium 1466 (PS 1466)	2.0 to 10 oz/cwt	CADD-2016-01-142	2005-098Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1020 (Polyheed 1020)	3.0 to 12 oz/cwt	CADD-2015-01-068	2004-138Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-6 15	Master Builders Solutions Admixtures US, LLC, Admixture Systems, 23700 Chagrin Blvd., Cleveland, OH 44122			
Plant	https://www.master-builders-solutions.com/en-us			
	Lancaster, TX			
	Formerly BASF Construction Chemicals (BAS-1015)			
	<i>Provisionally Approved</i>			
	Water Reducing (Type A) Admixture [WR]	MasterPolyheed 1720 (Polyheed 1720)	3.0 to 12 oz/cwt	CADD-2015-01-066 2010-145QA
	<i>Provisionally Approved</i>			
MBS-8 15	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us			
Plant	St. Leonard, Quebec			
	Formerly BASF Construction Chemicals (BAS-8 15)			
	Water Reducing (Type A) Admixture [WR]	MasterCast 730S (Rheomix 730 FC-S)	2 to 15 oz/cwt	2000-320Q
	<i>(Plasticizing Admixture for Precast Only) Provisionally Approved</i>			



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See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-9 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 Reynolds, GA Formerly BASF Construction Chemicals (BAS-1215)	Retarding (Type B) Admixture [RE]	MasterSet R 122 (Pozzoloth 122-R)	3.0 to 5.0 oz/cwt	CADD-2010-02-015 1975-014
	Retarding (Type B) Admixture [RE]	MasterSet R 300 (Pozzoloth 300-R)		CADD-2014-01-020 1974-031
	Retarding (Type B) Admixture [RE]	MasterSet R 961 (Pozzoloth 961R)	3.0 to 5.0 oz/cwt	CADD-2014-01-038 2010-302Q
	<i>Provisionally Approved</i>			
	Water Reducing/Retarding (Type D) Admixture [RR]	MasterSet R 961 (Pozzoloth 961R)	3.0 to 5.0 oz/cwt	CADD-2014-01-038 2010-303Q
<i>Provisionally Approved</i>				
MBS14 15 Plant Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 10223 Timber Ridge Drive Ashland, VA 23005	Accelerating (Type C) Admixture [ACCL]	MasterSet AC 534	10 to 45 oz/cwt	CADD-2021-01-005 2020-270Q
	MINRD 15 Mineral Research & Development, 5910 Pharr Mill Road, Harrisburg, NC 28075-8625 Accelerating (Type C) Admixture [ACCL] <i>Provisionally Approved</i>	Sika CNI		CADD-2015-01-111 2010-267Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
PRECA 15 Premiere Concrete Admixtures, 508 Cedar Street, Pioneer, OH 43554 http://www.premiereadmix.com/				
Accelerating (Type C) Admixture [ACCL]	NitroCast K	6.0 to 90 oz/cwt		2011-170Q
Accelerating (Type C) Admixture [ACCL]	NitroCast NC	8.0 to 90 oz/cwt	CADD-2016-01-122	2011-178Q
Air Entraining Admixture [AEA]	ConAir	0.2 to 3.0 oz/cwt		2011-243Q
Air Entraining Admixture [AEA]	ConAir 260	0.2 to 3.0 oz/cwt	CADD-2106-01-119	2011-244Q
Air Entraining Admixture [AEA]	ConAir X	0.5 to 4.0 oz/cwt	CADD-2016-01-118	2022-030Q
High Range Water Reducing (Type F) Admixture [HRWR]	EcoFlo Green	1.5 to 10 oz/cwt		2011-174QB
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo 2000	6.0 to 16 oz/cwt	CADD-2016-01-127	2010-167QA
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo 4600	7.0 to 24 oz/cwt		2010-174Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo 5600	6.0 to 16 oz/cwt	CADD-2016-01-121	2022-027Q
High Range Water Reducing (Type F) Admixture [HRWR]	UltraFlo DP	4.0 to 14 oz/cwt	CADD-2016-01-126	2011-175Q
High Range Water Reducing/Retarding (Type G) Admixture	OptiFlo N2A	12.0 to 15.0 oz/cwt		2022-026Q
Retarding (Type B) Admixture [RE]	ProLong L	2.5 to 6.5 oz/cwt	CADD-2016-01-123	2022-029Q
Water Reducing (Type A) Admixture [WR]	EcoFlo Green	1.5 to 10 oz/cwt		2011-174QA
Water Reducing (Type A) Admixture [WR]	OptiFlo 50			2011-169Q
Water Reducing (Type A) Admixture [WR]	OptiFlo 500	2.0 to 3.0 oz/cwt	CADD-2016-01-125	2022-022Q
<i>The recommended dosage is for when there are no additional water reducers in the mix design. When using water reducing admixtures in combination to meet ASTM standards, the dosage will vary. Consult your local technical sales representative for those combination dosages.</i>				
Water Reducing (Type A) Admixture [WR]	OptiFlo 700	3.0 to 10 oz/cwt	CADD-2016-01-124	2022-028Q
Water Reducing (Type A) Admixture [WR]	OptiFlo MR	3.0 to 5.0 oz/cwt	CADD-2016-01-120	2011-166Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

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While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
PRECA 15 Premiere Concrete Admixtures, 508 Cedar Street, Pioneer, OH 43554 http://www.premiereadmix.com/				
Water Reducing (Type A) Admixture [WR]	OptiFlo N2A	3.0 to 5.0 oz/cwt low-range; 5.0 to 9.0 oz/cwt mid-range		2022-021Q
Water Reducing (Type A) Admixture [WR]	OptiFlo Plus	5.0 to 10 oz/cwt		2011-165Q
Water Reducing (Type A) Admixture [WR]	UltraFlo 2000	up to 3.0 oz/cwt		2010-167QB
Water Reducing/Retarding (Type D) Admixture [RR]	OptiFlo 100R	2.0 to 8.0 oz/cwt		2011-177Q
Water Reducing/Retarding (Type D) Admixture [RR]	OptiFlo 500	3.0 to 5.0 oz/cwt	CADD-2016-01-128	2022-023Q
<i>This recommended dosage is when there are no additional water reducers in the mix design. When using water reducing admixtures in combination to meet ASTM standards, the dosage will vary. Consult your local technical sales representative for those combination dosages.</i>				
Water Reducing/Retarding (Type D) Admixture [RR]	OptiFlo Renu			2011-176Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
RTECH 15 RussTech, Inc., 11208 Decimal Drive, Louisville, KY 40299				
Air Entraining Admixture [AEA]	RAE-260	0.50 to 2.0 oz/cwt	CADD-2015-01-002	2019-054Q
Air Entraining Admixture [AEA]	RSA-10	0.5 to 2.0 oz/cwt	CADD-2015-01-001	2016-268Q
High Range Water Reducing (Type F) Admixture [HRWR]	Superflo 2000 SCC	4.0 to 26 oz/cwt	CADD-2015-01-008	2017-123Q
<i>Note: To make the product easier to see in product tanks and discharge tubes, a green pigment has been added to this admixture. Starting in late April 2024, the color of Superflo 2000 SCC will change from a light brown to a light green appearance. This is a visual only change to the admixture.</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Superflo 443	10.0 to 26.0 oz/cwt	CADD-2019-01-026	2019-052Q
Water Reducing (Type A) Admixture [WR]	FinishEase-NC	2.0 to 8.0 oz/cwt	CADD-2015-01-010	2019-050Q
Water Reducing (Type A) Admixture [WR]	LC-400P	3.0 to 5.0 oz/cwt	CADD-2015-01-003	2016-276Q
Water Reducing (Type A) Admixture [WR]	Superflo 2000 SCC	1.0 to 3.0 oz/cwt	CADD-2015-01-008	2016-275Q
<i>Note: To make the product easier to see in product tanks and discharge tubes, a green pigment has been added to this admixture. Starting in late April 2024, the color of Superflo 2000 SCC will change from a light brown to a light green appearance. This is a visual only change to the admixture.</i>				
Water Reducing and Accelerator (Type E) Admixture	LCNC-166	8.0 to 90 oz/cwt	CADD-2015-01-006	2016-269Q
Water Reducing/Retarding (Type D) Admixture [RR]	LC-400P	< 65° F (5 to 6 oz/cwt); 65 °F - 85 °F (6 to 7 oz/cwt); >85 °F (7 to 8 oz/cwt)	CADD-2015-01-003	2017-124Q
Water Reducing/Retarding (Type D) Admixture [RR]	LC-400R	3.0 to 6.0 oz/cwt	CADD-2020-01-048	2020-188Q
Water Reducing/Retarding (Type D) Admixture [RR]	LC-500	5.0 to 6.0 oz/cwt	CADD-2019-01-027	2020-218Q
Water Reducing/Retarding (Type D) Admixture [RR]	RussTech Renu	1.0 to 12 oz/cwt	CADD-2015-01-005	2018-092Q



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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA0 15	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/			
Facility	201 Polito Avenue Lyndhurst, NJ 07071			
Accelerating (Type C) Admixture [ACCL]	SikaSet NC	8.0 to 64.0 oz/cwt	CADD-2014-01-033	2000-271Q
Air Entraining Admixture [AEA]	Sika Air	Up to 3.0 oz/cwt	CADD-2016-01-105	2000-061Q
Early Strength Accelerator Admixture	Sika Rapid 1	8.0 to 64.0 oz/cwt	CADD-2015-01-083	1996-138Q
Grout Fluidifier Admixture	IntraPlast-N	1% by weight of cementitious		1974-028Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 686	6.0 to 18.0 oz/cwt	CADD-2016-01-114	2005-031Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 2100	2.5 to 12.0 oz/cwt	CADD-2014-01-057	2004-142Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 6100	3.0 to 12.0 oz/cwt	CADD-2016-01-109	2003-032Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	Sikament 686	3.0 to 6.0 oz/cwt	CADD-2016-01-110	2005-031Q



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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302			
Air Entraining Admixture [AEA]	Sika AEA 14	Up to 3.0 oz/cwt	CADD-2016-01-001	2004-141Q
Grout Fluidifier Admixture	IntraPlast-N	1% by weight of cementitious		1974-028
High Range Water Reducing (Type F) Admixture [HRWR]	Sika ViscoCrete-1000	5.0 to 21.0 oz/cwt	CADD-2015-01-085	2012-028B
High Range Water Reducing (Type F) Admixture [HRWR]	Sika ViscoCrete-4100	3.0 to 12.0 oz/cwt	CADD-2017-01-001	2015-075Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 686	6.0 to 18.0 oz/cwt	CADD-2016-01-114	2005-031Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament AFM	8.0 to 18.0 oz/cwt	CADD-2016-01-008	2006-193Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 2100	2.5 to 12.0 oz/cwt	CADD-2014-01-057	2004-142Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 6100	3.0 to 12.0 oz/cwt	CADD-2016-01-109	2003-032Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	Sika ViscoCrete-1000	2.0 to 5.0 oz/cwt	CADD-2016-01-108	2016-287Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoFlow-2020	2.0 to 8.0 oz/cwt	CADD-2016-01-117	2018-030Q
<i>Dosage rates of Sika ViscoFlow-2020 will vary according to materials used, ambient conditions, and the requirements of a specific project.</i>				
Water Reducing (Type A) Admixture [WR]	Sikament 686	3.0 to 6.0 oz/cwt	CADD-2016-01-110	2005-031Q
Water Reducing (Type A) Admixture [WR]	Sikament AFM	3.0 to 8.0 oz/cwt	CADD-2016-01-007	2008-031Q
<i>Provisionally Approved</i>				



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 150 Ben Fairless Drive Fairless Hills, PA			
Accelerating (Type C) Admixture [ACCL]	Sika Plastocrete-161FL	6 to 48 oz/cwt		2020-276Q
Accelerating (Type C) Admixture [ACCL]	SikaSet NC	8.0 to 64.0 oz/cwt	CADD-2014-01-033	2003-164Q
Air Entraining Admixture [AEA]	Sika AEA 14	Up to 3.0 oz/cwt	CADD-2016-01-001	2004-141Q
Air Entraining Admixture [AEA]	Sika AER C	Up to 1.5 oz/cwt	CAD-2016-01-095	2012-138Q
<i>Provisionally Approved</i>				
Air Entraining Admixture [AEA]	Sika Air	Up to 3.0 oz/cwt	CADD-2016-01-105	2000-061Q
Air Entraining Admixture [AEA]	Sika Air 260	Up to 6.0 oz/cwt	CADD-2016-01-106	2012-139Q
Air Entraining Admixture [AEA]	Sika Air 360	Up to 6.0 oz/cwt	CADD-2016-01-107	2012-140Q
Air Entraining Admixture [AEA]	SikaControl AIR-160	0.1 to 6.0 oz/cwt	CADD-2018-01-012	2019-027Q
Early Strength Accelerator Admixture	Sika Rapid-1	8.0 to 64.0 oz/cwt	CADD-2015-01-083	1996-138Q
Grout Fluidifier Admixture	IntraPlast-N	1% by weight of cementitious		1974-028
High Range Water Reducing (Type F) Admixture [HRWR]	Sika ViscoCrete-1100	3.0 to 12.0 oz/cwt	CADD-2021-01-136	2023-055Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sika ViscoFlow-2020	5.0 to 15 oz/cwt	CADD-2021-01-001	2021-208Q
<i>Dosage rates of Sika ViscoFlow-2020 will vary according to materials used, ambient conditions, and the requirements of a specific project.</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 610	5.0 to 18.0 oz/cwt	CADD-2014-01-034	2010-274QA
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament 686	6.0 to 18.0 oz/cwt	CADD-2016-01-114	2005-031Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament AFM	8.0 to 18.0 oz/cwt	CADD-2016-01-008	2006-193Q
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament SPMN	Up to 40.0 oz/cwt	CADD-2017-01-014	2012-136QB
High Range Water Reducing (Type F) Admixture [HRWR]	Sikament-475	7.0 to 15.0 oz/cwt	CADD-2015-01-102	2017-076Q



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Section 711: Concrete Curing Material and Admixtures

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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 150 Ben Fairless Drive Fairless Hills, PA			
<i>If maximum water reduction is required, a dosage of up to 20 oz/cwt or above may be used.</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 1000	5.0 to 21.0 oz/cwt	CADD-2015-01-085	2012-028B
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 2100	2.5 to 12.0 oz./cwt	CADD-2014-01-057	2004-142Q
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete 6100	3.0 to 12.0 oz/cwt	CADD-2016-01-109	2003-032Q
<i>Provisionally Approved</i>				
High Range Water Reducing (Type F) Admixture [HRWR]	ViscoCrete-4100	3.0 to 12.0 oz./cwt	CADD-2017-01-001	2015-075Q
Retarding (Type B) Admixture [RE]	Sika Plastiment	0.5 to 5.0 oz/cwt	CADD-2014-01-032	2009-032QA
Retarding (Type B) Admixture [RE]	Sikatard 440	1.0 to 10.0 oz/cwt	CADD-2016-01-113	2011-195Q
Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-10 N	1.5 to 3.0 oz/cwt	CADD-2017-01-015	2012-137QA
Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-161	2.0 to 5.5 oz/cwt	CADD-2015-01-086	2012-221Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-250	2.0 to 5.0 oz/cwt	CADD-2016-01-075	2018-202Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoCrete-1000	2.0 to 5.0 oz/cwt	CADD-2016-01-108	2016-288Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoCrete-1100	1.0 to 4.0 oz/cwt	CADD-2021-01-135	2023-054Q
Water Reducing (Type A) Admixture [WR]	Sika ViscoFlow-2020	2.0 to 8.0 oz/cwt	CADD-2016-01-117	2018-031Q
<i>Dosage rates of Sika ViscoFlow-2020 will vary according to materials used, ambient conditions, and the requirements of a specific project.</i>				
Water Reducing (Type A) Admixture [WR]	Sikament 686	3.0 to 6.0 oz/cwt	CADD-2016-01-110	2005-031Q
Water Reducing (Type A) Admixture [WR]	Sikament AFM	3.0 to 8.0 oz/cwt	CADD-2016-01-007	2008-031Q
<i>Provisionally Approved</i>				
Water Reducing (Type A) Admixture [WR]	Sikament-475	3.0 to 8.0 oz/cwt	CADD-2015-01-101	2017-075Q



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Section 711: Concrete Curing Material and Admixtures

711.3 Concrete Admixtures

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See Section 220.2(j) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 150 Ben Fairless Drive Fairless Hills, PA			
Water Reducing (Type A) Admixture [WR]	Sikaplast 200	Up to 12.0 oz/cwt	CADD-2019-01-022	2012-132Q
Water Reducing (Type A) Admixture [WR] <i>Provisionally Approved</i>	Sikaplast 300 GP	Up to 12.0 oz/cwt	CADD-2016-01-112	2012-134Q
Water Reducing (Type A) Admixture [WR]	ViscoCrete 2100	1.0 to 3.5 oz/cwt	CADD-2014-01-056	2008-032Q
Water Reducing and Accelerator (Type E) Admixture	Sika Plastocrete-161FL	6 to 48 oz/cwt	CADD-2021-01-003	2020-276Q
Water Reducing and Accelerator (Type E) Admixture	SikaSet NC			2003-164Q
Water Reducing and Accelerator (Type E) Admixture <i>Dosage rates of SikaSet NCST will vary according to materials used, ambient conditions, and the requirements of a specific project. Typical dosage rates are 10-45 oz/cwt to accelerate set times. However, when used to protect concrete from freezing higher doses may be necessary.</i>	SikaSet NCST	10 to 45 oz/cwt	CADD-2021-01-093	2022-125Q
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastiment	2.0 to 5.0 oz/cwt	CADD-2014-01-032	2009-032QB
Water Reducing/Retarding (Type D) Admixture [RR] <i>Provisionally Approved</i>	Sika Plastocrete-10 N	3.0 to 5.0 oz/cwt	CADD-2017-01-016	2012-137QC
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-161	5.0 to 10.0 oz/cwt	CADD-2015-01-084	2016-183Q
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-250	5 to 9 oz/cwt	CADD-2017-01-002	2018-203Q



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711.3 Concrete Admixtures

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See Section 220.2(i) for Flowable Fill Only Air Entrainment Admixtures

See Sections 711.3(e) for Latex Emulsion Admixtures & 711.3(f) for Specific Performance [Type S] Admixtures

While the Recommended Dosage ranges provided are typical, dosages outside these ranges may be necessary due to special project considerations, ambient conditions, specific mix designs, or in combination with other admixtures. The manufacturer should be contacted in these situations.

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA6 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 1515 Titanium Drive Ottawa, IL 61350				
Retarding (Type B) Admixture [RE]	Sika Plastiment XR	2.0 to 5.0 oz/cwt	CADD-2014-01-095	2016-093Q
Water Reducing (Type A) Admixture [WR]	Sika Plastocrete-161	2.0 to 5.5 oz/cwt	CADD-2015-01-086	2016-235Q
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastiment XR	2.0 to 5.0 oz/cwt	CADD-2014-01-095	2016-093Q
Water Reducing/Retarding (Type D) Admixture [RR]	Sika Plastocrete-161	5.0 to 10.0 oz/cwt	CADD-2015-01-084	2016-182Q
SPCRT 15 Specrete-IP, Inc., 10703 Quebec Ave., Cleveland, OH 44106 http://specrete.com/				
Grout Fluidifier Admixture	Intrusion-Aid C			1969-010
Grout Fluidifier Admixture	Intrusion-Aid DSC			1969-010
Grout Fluidifier Admixture	Intrusion-Aid LS			1969-010
Grout Fluidifier Admixture	Intrusion-Aid R			1969-010

711.3(e) Latex Emulsion Admixture

Last Revised: 5/1/2017

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
BASFC 15 BASF Corporation, 370 Frankfort Road, Monaca, PA 15061 https://www.basf.com/us/en.html				
Latex Emulsion Admixture [LATEX]	Styrofan 1186			2009-129Q



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711.3(e) Latex Emulsion Admixture

Last Revised: 5/1/2017

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
DOWRE 15 Plant	Dow Reichhold Specialty Latex, P. O. Box 13906, Research Triangle Park, NC 27709 http://www.reichhold.com/			
	P. O. Box 13906 Research Triangle Park, NC 27709			
	Latex Emulsion Admixture [LATEX]	Tylac 97314-00		1990-287
TRINO 15 Plant	Trinseo, LLC, 1000 Chesterbrook Blvd, Suite 300, Berwyn, PA 19312 http://www.trinseo.com/			
	Midland, MI			
	Latex Emulsion Admixture [LATEX]	Trinseo Modifier A/NA Latex		2013-022Q

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 12/12/2023

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
ASH-0 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 http://www.ashland.com/			
	Ashland Specialty Ingredients 1313 North Market Street Wilmington, DE 19801			
	Anti-Washout Admixture - Army Corps Std. CRD-C 661-06	MasterMatrix UW 450 (Rheomac UW 450)		2011-196
	<i>Manufactured by Aqualon Company for BASF.</i>			
	Viscosity Modifying Admixture [S-VM]	MasterMatrix VMA 450 (Rheomac VMA 450)		2011-251
	<i>Manufactured by Aqualon Company for BASF.</i>			
CONSE 15	ConSeal, Concrete Sealants, Inc., 9325 State Route 201, Tipp City, OH 45371 http://www.conseal.com/			
	Strength-Enhancing Admixture [S-SEA]	ConBlock CDA	21 to 40 oz/cwt	2020-075Q



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711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 12/12/2023

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
DPI-2 15 Facility	DarCole Products, Inc., 1940 Hwy 41 South, Sebree, KY 42455 http://www.darcole.com/ RussTech Admixtures 11208 Decimal Drive Louisville, KY 40299			
	Shrinkage Reducing Admixture [Material Class: S-SC]	DPI SRA	1.0% to 2.5% by weight of cementitious	2021-096Q
EUCLD 15	Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
	Anti-Washout Admixture - Army Corps Std. CRD-C 661-06	Eucon AWA	10 to 32 oz/cwt	CADD-2018-01-009 2015-183Q
	Anti-Washout/Rheology Modifying Admixture [S-UWVM]	Eucon AWA-P20	1.0 to 8.0 oz/cwt	CADD-2020-01-088 2023-011Q
	<i>Do not use for prestressed concrete members. Exceeds the limits of chloride ion concentration per AASHTO LRFD Construction Specifications, Section 8 'Concrete Structures' and Publication 408, Section 711.3(a).</i>			
	Viscosity Modifying Admixture [S-VM]	Visctrol		CADD-2017-01-091 2012-062Q
FMCLD 15	FMC Corporation, Lithium Division, 2801 Yorkmont Road, Suite 300, Charlotte, NC 28208 http://www.fmclithium.com/			
	Lithium Admixture for Alkali Silica Reactivity Remediation [S-Li]	Lifetime (TM) N		1999-058Q
	Lithium Admixture for Alkali Silica Reactivity Remediation [S-Li]	Lifetime (TM) SL		1999-059Q
GRAC0 15 Facility	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/ 100 Research Drive Wilmington, MA 01887 <i>Formerly: W. R. Grace and Company</i>			
	Waterproofing Admixture [S-WP]	Darapel		CADD-2016-01-015 1996-164



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711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 12/12/2023

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
GRAC2 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/ North Bergen, NJ <i>Formerly: W. R. Grace and Company</i>			
	Shrinkage Reducing Admixture [Material Class: S-SC]	ECLIPSE 4500	See Product Data Sheet	2020-036Q
	Viscosity Modifying Admixture [S-VM] <i>Cannot be used as an anti-washout admixture.</i>	V-MAR 3	CADD-2019-01-083	2003-061Q
GRAC3 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/ 6050 West 51st Street Chicago, IL 60638 <i>Formerly: W. R. Grace and Company</i>			
	Viscosity Modifying Admixture [S-VM] <i>Cannot be used as an anti-washout admixture.</i>	V-MAR 3	CADD-2019-01-083	2003-061Q
GRAC5 15 Plant	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/en Houston, TX <i>Formerly: W. R. Grace and Company</i>			
	Viscosity Modifying Admixture [S-VM] <i>Cannot be used as an anti-washout admixture.</i>	V-MAR 3	CADD-2019-01-083	2003-061Q
	Viscosity Modifying Admixture [S-VM]	V-MAR F100	3.0 to 12 oz/cwt	CADD-2015-01-081 2017-268Q
IPA-S 15	IPA Systems, Inc., 2745 North Amber St., Philadelphia, PA 19134 http://ipasystems.com/			
	Waterproofing Admixture [S-WP]	Ipanex		1991-112



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 12/12/2023

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-1 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Allentown, PA <i>Formerly BASF Construction Chemicals (BAS-1 15)</i>			
Shrinkage Reducing Admixture [Material Class: S-SC]	MasterLife SRA 035	See Note	CADD-2016-01-102	2018-148Q
<i>Provisionally Approved: Concrete plants are required to submit a cylinder for hardened air testing to PennDOT's Material Testing Laboratory, 82 Dogwood Avenue, Harrisburg, PA 17110 during the JMF mix design approval process. For field projects, two cylinders must be submitted for hardened air testing to the Materials Testing Laboratory. These are in addition to any cylinders submitted for compressive strength testing. The provisional approval requirements will remain in place for a period of three years until February 1st, 2023 .</i>				
<i>Dosage: Knowledge of the shrinkage characteristics of the concrete mixture proposed for use is required prior to the addition of MasterLife SRA 035 admixture. The dosage of MasterLife SRA 035 admixture will be dependent on the desired drying shrinkage and the reduction in drying shrinkage required. Therefore, it is strongly recommended that drying shrinkage testing be performed to determine the optimum dosage for each application and each set of materials. The typical dosage range of MasterLife SRA 035 admixture is 0.5 to 1.5 gal/yd³. However, dosages outside of this range may be required depending on the level of shrinkage reduction needed for a given application and because of variations in concrete materials, jobsite conditions and other factors.</i>				
Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2010-184Q
<i>Provisionally Approved</i>				
Strength-Enhancing Admixture [S-SEA]	Master X-Seed 44	10 to 40 oz/cwt	CADD-2020-01-125	2022-084Q
Strength-Enhancing Admixture [S-SEA]	Master X-Seed 55	4.0 to 15 oz/cwt	CADD-2017-01-058	2018-228Q
MBS-2 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us Gurnee, IL <i>Formerly BASF Construction Chemicals (BAS-2 15)</i>			
Specific Performance Workability Retention Admixture [S-WKR]	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029	2009-116Q
<i>Provisionally Approved</i>				



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

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Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 Tipp City, OH Formerly BASF Construction Chemicals (BAS-3 15)	https://www.master-builders-solutions.com/en-us		
	Specific Performance Workability Retention Admixture [S-WKR] <i>Provisionally Approved</i>	MasterSure Z 60 (RheoTEC Z-60)	2.0 to 12 oz/cwt	CADD-2017-01-029 2009-116Q
	Strength-Enhancing Admixture [S-SEA]	Master X-Seed 55	4.0 to 15 oz/cwt	CADD-2017-01-058 2018-053Q
MBS-4 15 Plant	Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 6450 Bristol Pike Levittown, PA 19057 Formerly Master Builders Solutions	https://mbcc.sika.com/en-us		
	Waterproofing Admixture [S-WP]	MasterPel 240 (Rheomix Rheopel)	1.0 to 5.0 oz/cwt	CADD-2016-01-101 1999-050Q
MBS-7 15 Plant	Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 Newark, CA Formerly Master Builders Solutions	https://mbcc.sika.com/en-us		
	Waterproofing Admixture [S-WP] <i>Provisionally Approved</i>	MasterLife 300D (Rheomac 300D)	2% of cement weight	CADD-2015-01-121 2010-053Q
PENE1 15 Plant	Penetron International Inc., 45 Research Way, Suite 203, East Setauket 11733 Blend-Pro, Inc., A Penetron Group Company 601 S. 10th Street Allentown, PA 18103	https://www.penetron.com/		
	Waterproofing Admixture [S-WP]	Penetron Admix SB	16 oz/cwt	CADD-2020-01-063 2022-239Q



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711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 12/12/2023

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/				
	1682 Marion Williamsport Road E Marion, OH 43302				
	Specific Performance Workability Retention Admixture [S-WKR]	Sika ViscoFlow-2020	2.0 to 15 oz/cwt		2016-092Q
	Viscosity Modifying Admixture [S-VM]	Sika Stabilizer 300 SCC	0.3 to 4.0 oz/cwt	CADD-2013-01-035	2016-254Q
SIKA3 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/				
	150 Ben Fairless Drive Fairless Hills, PA				
	Anti-Washout Admixture - Army Corps Std. CRD-C 661-06 <i>Provisionally Approved</i>	Sikament 100SC			2010-274QB
	Shrinkage Reducing Admixture [Material Class: S-SC]	Sika Control-75	20 to 40 oz/cwt	CADD-2015-01-013	2018-147Q
	Specific Performance Workability Retention Admixture [S-WKR]	Sika ViscoFlow-2020	2.0 to 15 oz/cwt	CADD-2016-01-117	2016-095Q
	Viscosity Modifying Admixture [S-VM]	Sika Stabilizer-4 R		CADD-2019-01-025	2010-278Q
SIKA7 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/				
	Premier Magnesia, LLC Bayville, NJ				
	Shrinkage Reducing Admixture [Material Class: S-SC]	Sika Control NS	2.0% to 7.0% by weight of cementitious	CADD-2017-01-066	2020-031Q
	Shrinkage Reducing Admixture [Material Class: S-SC]	Sika Control SC	2.0% to 7.0% by weight of cementitious	CADD-2017-01-067	2020-032Q
SIKA8 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/				
	625 West Illinois Avenue Aurora, IL 60506				
	Waterproofing Admixture [S-WP]	Sika WT-240 P	2% by weight of cementitious	CADD-2018-01-041	2020-213Q



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Section 711: Concrete Curing Material and Admixtures

711.3(f) Other Admixtures: Specific Performance [Type S - AASHTO M 194/ASTM C 494]

Last Revised: 12/12/2023

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
TROCH 15 Troy Chemical Industries, Inc., 17040 Rapids Road, P. O. Box 430, Burton, OH 44021 http://www.troychemical.com/				
Specialty Workability/Rheology Controlling Admixture	BASF MasterMatrix 33 (Navitas 33)	2.0 to 12 oz/cwt	CADD-2015-01-089	2013-134Q
<i>For use in precast concrete only. Manufactured by Troy Chemical Industries, Inc. for BASF.</i>				
Viscosity Modifying Admixture [S-VM]	BASF MasterMatrix VMA 358 (Rheomac VMA 358)	2.0 to 10 oz/cwt	CADD-2015-01-090	2004-087Q
<i>Manufactured by Troy Chemical Industries, Inc. for BASF.</i>				
Viscosity Modifying Admixture [S-VM]	BASF MasterMatrix VMA 362 (Rheomac VMA 362)		CADD-2015-01-091	2004-088Q
<i>Manufactured by Troy Chemical Industries, Inc. for BASF.</i>				
XYPEX 15 Xypex Chemical Corporation, 13731 Mayfield Place, Richmond, British Columbia, Canada V6V 2G9 http://www.xypex.com/				
Waterproofing Admixture [S-WP]	C1000			2002-020Q

711.3(g) Fibers for Plastic Shrinkage Cracking

Last Revised: 2/18/2022

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
FABRO 15 Great Lakes Polymer Technologies, LLC (dba Fabpro Polymers), 100 South Fabpro Way, Kingman, KS 67068 http://www.fabpropolymers.com/				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber F 70	1.5 lbs/cy		2013-045Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber M 100	0.5 lbs/cy		2013-047Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				



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Section 711: Concrete Curing Material and Admixtures

711.3(g) Fibers for Plastic Shrinkage Cracking

Last Revised: 2/18/2022

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
FABRO 15 Great Lakes Polymer Technologies, LLC (dba Fabpro Polymers), 100 South Fabpro Way, Kingman, KS 67068 http://www.fabpropolymers.com/				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber M 70	1.0 lbs/cy		2013-046Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber MAC 100	3.0 lbs/cy		2013-048Q
<i>Provisionally Approved. Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber MAC 360 FF	3.0 lbs/cy		2019-101Q
<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	BASF MasterFiber MAC Matrix	3.0 lbs/cy		2016-174Q
<i>Dosages outside the "recommended dosage" may be necessary to meet specific mix design requirements. The manufacturer should be contacted in these situations.</i>				
SIKA9 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 https://fibermesh.com/				
Plant	Fibermesh Division 4019 Industry Drive Chattanooga 37416			
Monofilament or Collated Fibrillated Synthetic Fiber Admixture	Sika Enduro Prime 55 mm Fiber	3 to 7 lbs/cy		2020-208Q
<i>Dosages outside the recommended dosage range can be used to meet project specific requirements. If this is the case, please contact a Sika representative for technical support.</i>				



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Section 713: Masonry Units

713.1 Brick

Last Revised: 5/15/2015

Product	Name	Ref. No.
GLNG1 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 https://www.glengery.com/ Bigler Brick Manufacturing Plant 24 Pinetop Rd Bigler, PA 16825	
	Brick	2010-159QA
GLNG2 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 https://www.glengery.com/ York Brick Manufacturing Plant 1090 East Boundary Avenue York, PA 17403	
	Brick	2010-159QB
GLNG3 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 https://www.glengery.com/ Hanley Brick Manufacturing Plant 12637 Harrison Street Summerville, PA	
	Brick	2010-159QC
GLNG4 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 https://www.glengery.com/ Mid-Atlantic Brick Manufacturing Plant 423 South Pottsville Pike Shoemakersville, PA 19555	
	Brick	2010-159QD
GLNG5 15 Plant	Glen-Gery Corporation, 1166 Spring Street, P.O. Box 7001, Wyomissing, PA 19610-6001 https://www.glengery.com/ Harmar Brick Manufacturing Plant 26 Rich Hill Road Cheswick, PA <i>Formerly Redland Brick, Inc. (REDLA 15)</i>	
	Brick	1983-172
WATBC 15	Watson town Brick Company, Route 404, P.O. Box 68, Watson town, PA 17777 http://watsontownbrick.com/	
	Brick	2003-005Q

713.2 Precast Concrete Blocks

Last Revised: 3/13/2015

Product	Name	Ref. No.
BEAVE 15	Beavertown Block Company, Inc., P.O. Box 337, Middleburg, PA 17842-0337 http://www.beavertownblock.com/	
	Precast Concrete Block	----



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Section 713: Masonry Units

713.2 Precast Concrete Blocks

Last Revised: 3/13/2015

Product	Name	Ref. No.
CASTL 15	Castle Builders Supply & Trucking LLC, 1409 Moravia Street, New Castle, PA 16101 http://castlebuilderssupply.com/	
	Precast Concrete Block	----
FIZZ0 15	Fizzano Brothers Concrete Products, Inc., 1776 Chester Pike, Crum Lynne, PA 19022 http://fizzano.com/	
	Precast Concrete Block	----
FIZZ1 15	Fizzano Brothers Concrete Products, Inc., Trevoise and Sterner Mill, Trevoise, PA 19053 http://fizzano.com/	
Plant	Trevoise, PA	
	Precast Concrete Block	----
FIZZ2 15	Fizzano Brothers Concrete Products, Inc., 201 South Phoenixville Pike, Malvern, PA 19355 http://fizzano.com/	
Plant	201 S. Phoenixville Pike Malvern, PA 19355	
	Precast Concrete Block	----
NEW-0 15	New Enterprise Stone & Lime Co., Inc., Newcrete Products Division, P.O. Box 34, Roaring Spring, PA 16673 http://www.nesl.com/	
	Precast Concrete Block	----
SIDLY 15	R. W. Sidley, 715 New Castle Road, Slippery Rock, PA 16057 http://www.rwsidley.com/	
	Precast Concrete Block	----
TERH0 15	Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/	
Plant	Plant #2 1232 Precast Road East Earl, PA 17519	
	Precast Concrete Block	----
YORKB 15	York Building Products, Inc., 1020 North Hartley Street, York, PA 17404 http://www.yorkbuilding.com/	
	Precast Concrete Block	----



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 4/10/2024

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
ALTFJ 15	Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129	http://www.altomareprecast.com/	
	Subsurface Drain Outlet Endwall		----
	<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
	Type D Endwall		----
	<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
	Type D-E Endwall		----
	<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
	Type D-W Endwall		----
	<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
	Type E-S Endwall		----
	<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375	http://www.atlanticconcrete.com/	
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
	Type E-S Endwall		----
BINGH 15	Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901	http://www.binghamtonprecast.com/	
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
	Type E-S Endwall		----



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 4/10/2024

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
CONCR 15 Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/			
	Sloped Subsurface Drain Outlet Endwall		----
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		2003-189Q
	Type D-W Endwall		----
	Type E-S Endwall		2013-042Q
CONTN 15 Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/			
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
	Type E-S Endwall		----
CPPLL 15 Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/ <i>Formerly Advanced Drainage Structures (ADSTR 15)</i>			
	Type D Endwall		2012-067QA
	Type D-E Endwall		2012-067QB
	Type D-W Endwall		2012-067QC
	Type E-S Endwall		2012-067QD
DIXPS 15 Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878			
	Sloped Subsurface Drain Outlet Endwall		2009-177QC
	Subsurface Drain Outlet Endwall		2009-177QB
	Type D Endwall		2009-177QA
	Type D-E Endwall		2010-315QA
	Type D-W Endwall		2010-315QB
	Type E-S Endwall		2010-315QC



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 4/10/2024

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501			
	Sloped Subsurface Drain Outlet Endwall		----
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		2009-089Q
	Type D-W Endwall		2006-148Q
	Type E-S Endwall		2018-139Q
FIHFC 15 Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/			
	Type D Endwall		----
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/			
	Sloped Subsurface Drain Outlet Endwall		2009-147QB
	Subsurface Drain Outlet Endwall		2009-147QA
	Type D Endwall		2015-265QA
	Type D-E Endwall		2014-265QB
	Type D-W Endwall		2016-083Q
	Type E-S Endwall		2016-311Q
MANDW 15M&W Precast, 210 Durham Road, Ottsville, PA 18942-0339 https://www.mwprecastsupply.com/			
	Sloped Subsurface Drain Outlet Endwall		2022-117Q
	Subsurface Drain Outlet Endwall		2022-117Q
	Type D Endwall		2023-035Q
	Type D-E Endwall		2023-021Q
	Type D-W Endwall		2022-054Q
	<i>Approval for 8 in. THRU 27 in. diameter pipe openings only. D-W Endwall Approved Drawing</i>		
	Type E-S Endwall		2023-034Q
MILL0 15 A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/			
	Type D-W Endwall		2015-199Q



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 4/10/2024

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
MONAP 15 Monarch Products, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/			
	Sloped Subsurface Drain Outlet Endwall		2014-108Q
	Subsurface Drain Outlet Endwall		2014-107Q
	Type D Endwall	9/23/1994	----
	Type D-E Endwall	8/26/1992	----
	Type D-W Endwall	4/12/2004	----
MONPC 15 Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/			
	Subsurface Drain Outlet Endwall		2019-193Q
	Type D Endwall		2023-016Q
	Type D-E Endwall		2023-017Q
	Type D-W Endwall		2011-048Q
	Type E-S Endwall		2023-018Q
OLDP5 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/		
Plant	1401 Trimble Road Edgewood, MD 21040		
	Alternate Type D-W Endwall		2022-232Q
	<i>Approval for 15 in. THRU 24 in., 27 in. THRU 42 in., and 48 in. THRU 60 in. diameter pipe openings. Oldcastle Infrastructure Alternate D-W Endwall Drawings</i>		
	Sloped Subsurface Drain Outlet Endwall		2023-052Q
	<i>Approval for 4 in. and 6 in. diameter pipe openings only.</i>		
	Subsurface Drain Outlet Endwall		2023-052Q
	<i>Approval for 4 in. and 6 in. diameter pipe openings only.</i>		
	Type D Endwall		2022-229Q
	Type E-S Endwall		2022-230Q



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 4/10/2024

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
OLP-1 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328	https://oldcastleinfrastructure.com/	
Plant	200 Keystone Drive Telford, PA 18969		
	Alternate Type D-W Endwall		2021-052Q
	<i>Conditionally Approved: See PennDOT approved shop drawings dated 9/30/21. Oldcastle Telford Alternate Type D-W Endwall PennDOT Approved Drawings 093021</i>		
	Subsurface Drain Outlet Endwall		2016-303Q
	Type D Endwall		2016-303Q
	Type D-E Endwall		2016-303Q
	Type D-W Endwall		2016-303Q
	Type E-S Endwall		2016-303Q
SCRCR 15	Scranton Craftsmen, Inc., 930 Dunmore Street, Throop, PA 18512	http://www.scrantoncraftsmen.com/	
	Type D Endwall		2010-106Q
	Type D-E Endwall		2015-036QC
TERH0 15	Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581	http://www.terrehill.com/	
Plant	Plant #2 1232 Precast Road East Earl, PA 17519		
	Subsurface Drain Outlet Endwall		2010-203Q
	Type D Endwall		2010-203Q
	Type D-E Endwall		2010-203Q
	Type D-W Endwall		2010-203Q
	Type E-S Endwall		2010-203Q
TERH1 15	Terre Hill Concrete Products, Plant #4:, 42 South Butler Road, Lebanon, PA 17042	http://www.terrehill.com/	
Plant	Plant #4: 42 South Butler Road Lebanon, PA 17042		
	Subsurface Drain Outlet Endwall		----
	Type D Endwall		----
	Type D-E Endwall		----
	Type D-W Endwall		----
	Type E-S Endwall		----



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Section 714: Precast Concrete Products

714.2 Endwalls

Last Revised: 4/10/2024

See [Standard Drawing RC-31M \(Publication 72M\)](#)

Product	Name	Reference Letter	Ref. No.
WINEC 15 Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143			
	Sloped Subsurface Drain Outlet Endwall		----
	Subsurface Drain Outlet Endwall		2009-167QC
	Type D Endwall		----
	Type D-W Endwall		----

714.2 Glare Screen

Last Revised: 5/19/2015

See [Standard Drawing RC-59M \(Publication 72M\)](#)

Product	Name	Ref. No.
CONSS 15 Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	52"/50" Glare Screen (RC 59M)	----
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	52"/50" Glare Screen (RC 59M)	----
FADD1 15 Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
	52"/50" Glare Screen (RC 59M)	2000-275Q
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
	52"/50" Glare Screen (RC 59M)	----
FADD3 15 Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/		
	52"/50" Glare Screen (RC 59M)	----
INTSS 15 Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
	52"/50" Glare Screen (RC 59M)	----
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
	52"/50" Glare Screen (RC 59M)	2011-043Q



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
ALTFJ 15 Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 http://www.altomareprecast.com/		
Inlet, Standard		2011-263QD
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 10		2011-263QK
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 4		2011-263QE
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 5		2011-263QF
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 6		2011-263QG
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 7		2011-263QH
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 8		2011-263QI
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		
Inlet, Type 9		2011-263QJ
<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>		



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
ATLCP 15 Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
BINGH 15 Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 http://www.binghamtonprecast.com/		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
Inlet, Type D-H		----



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
CONCR 15 Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
Inlet, Standard		----
Inlet, Type 10		2016-061Q
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		2016-057Q
Inlet, Type 7		2016-058Q
Inlet, Type 8		2016-059Q
Inlet, Type 9		2016-060Q
Inlet, Type D-H		2013-043Q
CONTN 15 Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
Inlet, Type D-H		----



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
CPPLL 15	Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/	
	<i>Formerly Advanced Drainage Structures (ADSTR 15)</i>	
Inlet, Standard		2012-069QA
Inlet, Type 10		2012-069QH
Inlet, Type 4		2012-069QB
Inlet, Type 5		2012-069QC
Inlet, Type 6		2012-069QD
Inlet, Type 7		2012-069QE
Inlet, Type 8		2012-069QF
Inlet, Type 9		2012-069QG
DIXPS 15	Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878	
Inlet, Standard		2009-176QA
Inlet, Type 10		2014-152QC
Inlet, Type 4		2009-176QB
Inlet, Type 5		2009-176QC
Inlet, Type 6		2014-152QA
Inlet, Type 7		2009-176QD
Inlet, Type 8		2009-176QE
Inlet, Type 9		2014-152QB
Inlet, Type D-H		2009-176QF



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
Inlet, Type D-H		----
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
Inlet, Type 7		----
Inlet, Type 8		----
FIHFC 15 Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----



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714.2 Inlet Assemblies

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Product	Name	Ref. No.
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		2010-178QA
Inlet, Type 5		2010-178QB
Inlet, Type 6		2010-178QC
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
Inlet, Type D-H		2010-061QA
MACK1 15 Mack Industries of PA, Inc., P.O. Box 335, Valley City, OH 44280 http://www.mackconcrete.com/		
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
MANDW 15M&W Precast, 210 Durham Road, Ottsville, PA 18942-0339 https://www.mwprecastsupply.com/		
Inlet, Standard		2022-114Q
<i>Approval of standard inlet also covered in Product Evaluation Application 2020-237.</i>		
Inlet, Type 4		2020-237Q
Inlet, Type 6		2021-119Q



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/	
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
MILL1 15	A. C. Miller Concrete Products, Inc., 31 E. Bridge Street, Spring City, PA 19475 http://www.acmiller.com/	
Inlet, Type 10		2010-068Q
Inlet, Type 4		2010-068Q
Inlet, Type 5		2010-068Q
Inlet, Type 6		2010-068Q
Inlet, Type 7		2010-068Q
Inlet, Type 8		2010-068Q
Inlet, Type 9		2010-068Q



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
MONAP 15 Monarch Products, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/		
Inlet, Standard		----
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
Inlet, Type D-H		----
MONPC 15 Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/		
Inlet, Standard		2002-083Q
Inlet, Type 10		----
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----
Inlet, Type D-H		----



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
OLDP5 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328	https://oldcastleinfrastructure.com/
Plant	1401 Trimble Road Edgewood, MD 21040	
	Inlet, Standard	2022-050Q
	Inlet, Type 10	2022-150Q
	Inlet, Type 4	2022-050Q
	Inlet, Type 5	2023-053Q
	Inlet, Type 8	2022-188Q
OLP-1 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328	https://oldcastleinfrastructure.com/
Plant	200 Keystone Drive Telford, PA 18969	
	Inlet, Standard	2014-231QA
	Inlet, Type 10	2014-231QH
	Inlet, Type 4	2014-231QB
	Inlet, Type 5	2014-231QC
	Inlet, Type 6	2014-231QD
	Inlet, Type 7	2014-231QE
	Inlet, Type 8	2014-231QF
	Inlet, Type 9	2014-231QG
	Inlet, Type D-H	2014-231QI



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714.2 Inlet Assemblies

Last Revised: 1/11/2024

Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
PREMC 15 Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 http://www.precastmfgco.com/		
Inlet, Standard		2013-050QC
Inlet, Type 10		----
Inlet, Type 4		2013-050QD
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		----
Inlet, Type 8		----
Inlet, Type 9		----



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Section 714: Precast Concrete Products

714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
RAHN- 15	Rahns Construction Materials Company, 430 Bridge Road, Rahns, PA 19426	https://www.hkgroup.com/companies/rahns-rahns
Inlet, Standard		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet assemblies fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
Inlet, Type 4		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet assemblies fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
Inlet, Type 5		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet assemblies fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
Inlet, Type 6		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet assemblies fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
Inlet, Type 7		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet assemblies fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
Inlet, Type 8		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet assemblies fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

Product	Name	Ref. No.
SCRCR 15 Scranton Craftsmen, Inc., 930 Dunmore Street, Throop, PA 18512 http://www.scrantoncraftsmen.com/		
Inlet, Standard		----
Inlet, Type 4		----
Inlet, Type 5	PA (RC-46M)	2015-036QD
Inlet, Type 6		----
Inlet, Type 8		2022-010Q
TERH0 15 Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/		
Plant	Plant #2 1232 Precast Road East Earl, PA 17519	
Inlet, Standard		----
Inlet, Type 10		2023-204Q
Inlet, Type 4		----
Inlet, Type 5		----
Inlet, Type 6		----
Inlet, Type 7		2022-207Q
Inlet, Type 8		2022-208Q
Inlet, Type D-H		2022-210Q



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714.2 Inlet Assemblies

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Companies listed to fabricate Inlet Assemblies are approved to provide the corresponding riser and top slab sections.

Actual inlet structures may be square or rectangular. The inlet structure type (size) is based on the largest pipe diameter. [Standard Drawing RC-46M \(Publication 72M\)](#)

	Product	Name	Ref. No.
TERH1 15	Terre Hill Concrete Products, Plant #4:, 42 South Butler Road, Lebanon, PA 17042 http://www.terrehill.com/		
Plant	Plant #4: 42 South Butler Road Lebanon, PA 17042		
	Inlet, Standard		----
	Inlet, Type 10		----
	Inlet, Type 4		----
	Inlet, Type 5		----
	Inlet, Type 6		----
	Inlet, Type 7		----
	Inlet, Type 8		----
	Inlet, Type 9		----
	Inlet, Type D-H		----
WATRF 15	Waterford Precast and Sales, Inc., 511 Bagdad Road, Waterford, PA 16441		
	Inlet, Standard		----
WINEC 15	Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
	Inlet, Standard		----
	Inlet, Type 4		----
	Inlet, Type 5		----
	Inlet, Type 6		2012-252Q
	Inlet, Type D-H		2020-198Q

714.2 Inlet Tops

Last Revised: 3/12/2024

See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
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714.2 Inlet Tops

Last Revised: 3/12/2024

See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
ALTFJ 15 Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 http://www.altomareprecast.com/		
Inlet Top, Type C		2011-263QA
<i>Effective August 9, 2022, this plant is Provisionally Approved. Under provisional approval, the Department will perform monthly audits of this facility for six months.</i>		
Inlet Top, Type M		2011-263QB
<i>Effective August 9, 2022, this plant is Provisionally Approved. Under provisional approval, the Department will perform monthly audits of this facility for six months.</i>		
Inlet Top, Type S		2011-263QC
<i>Effective August 9, 2022, this plant is Provisionally Approved. Under provisional approval, the Department will perform monthly audits of this facility for six months.</i>		
ATLCP 15 Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/		
Inlet Top, Type C		----
Inlet Top, Type C Alternate		----
Inlet Top, Type M		----
Inlet Top, Type S		----
BINGH 15 Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 http://www.binghamtonprecast.com/		
Inlet Top, Type C		----
Inlet Top, Type M		----
Inlet Top, Type S		----
CONCR 15 Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
Inlet Top, Type C		----
Inlet Top, Type D-H Level		2013-041Q
Inlet Top, Type M		----
Inlet Top, Type S		----



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714.2 Inlet Tops

Last Revised: 3/12/2024

See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
CONTN 15 Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/		
Inlet Top, Type C		----
Inlet Top, Type C Alternate		----
Inlet Top, Type D-H		2012-012QA
Inlet Top, Type D-H Level		2012-012QB
Inlet Top, Type M		----
Inlet Top, Type S		----
CPPLL 15 Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/ <i>Formerly Advanced Drainage Structures (ADSTR 15)</i>		
Inlet Top, Type C		2012-068QC
Inlet Top, Type C Alternate		2012-068QD
Inlet Top, Type M		2012-068QA
Inlet Top, Type S		2012-068QB
DIXPS 15 Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878		
Inlet Top, Type C		2009-174QC
Inlet Top, Type D-H		2009-174QD
Inlet Top, Type D-H Level		2009-174QE
Inlet Top, Type M		2009-174QA
Inlet Top, Type S		2009-174QB
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
Inlet Top, Type C		----
Inlet Top, Type D-H		----
Inlet Top, Type M		----
Inlet Top, Type S		----



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714.2 Inlet Tops

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See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
FIHFC 15 Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/		
Inlet Top, Type C		----
Inlet Top, Type M		----
Inlet Top, Type S		----
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
Inlet Top, Type C		----
Inlet Top, Type D-H		2010-061QB
Inlet Top, Type D-H Level		2010-061QC
Inlet Top, Type M		----
Inlet Top, Type S		----
MANDW 15M&W Precast, 210 Durham Road, Ottsville, PA 18942-0339 https://www.mwprecastsupply.com/		
Inlet Top, Type C		2020-237Q
Inlet Top, Type M		2020-237Q
Inlet Top, Type S		2023-067Q
MONAP 15 Monarch Products, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/		
Inlet Top, Type C		1992-193Q
Inlet Top, Type D-H		----
Inlet Top, Type D-H Level		----
Inlet Top, Type M		1992-193Q
Inlet Top, Type S		1992-193Q
MONPC 15 Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/		
Inlet Top, Type C		2002-083Q
Inlet Top, Type M		2002-083Q
Inlet Top, Type S		2023-201Q



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714.2 Inlet Tops

Last Revised: 3/12/2024

See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
OLDP5 15 Plant	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 1401 Trimble Road Edgewood, MD 21040	https://oldcastleinfrastructure.com/
Inlet Top, Type C		2022-050Q
Inlet Top, Type D-H Level		2022-228Q
Inlet Top, Type M		2022-050Q
Inlet Top, Type S		2022-050Q
OLP-1 15 Plant	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 200 Keystone Drive Telford, PA 18969	https://oldcastleinfrastructure.com/
Inlet Top, Type C		2014-232QC
Inlet Top, Type D-H		2014-232QD
Inlet Top, Type D-H Level		2014-232QE
Inlet Top, Type M		2014-232QA
Inlet Top, Type S		2014-232QB
PREMC 15	Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865	http://www.precastmfgco.com/
Inlet Top, Type C		2013-050QG
Inlet Top, Type M		2013-050QE
RAHN- 15	Rahns Construction Materials Company, 430 Bridge Road, Rahns, PA 19426	https://www.hkggroup.com/companies/rahns-rahns
Inlet Top, Type C		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet tops fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
Inlet Top, Type M		----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. Inlet tops fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		



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714.2 Inlet Tops

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See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
SCRCR 15 Scranton Craftsmen, Inc., 930 Dunmore Street, Throop, PA 18512 http://www.scrantoncraftsmen.com/		
Inlet Top, Type C		2015-036QB
Inlet Top, Type M		2015-036QA
Inlet Top, Type S		2022-007Q
TERH0 15 Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/		
Plant Plant #2 1232 Precast Road East Earl, PA 17519		
Inlet Top, Type C		----
Inlet Top, Type D-H		----
Inlet Top, Type D-H Level		----
Inlet Top, Type M		----
Inlet Top, Type S		----
TERH1 15 Terre Hill Concrete Products, Plant #4:, 42 South Butler Road, Lebanon, PA 17042 http://www.terrehill.com/		
Plant Plant #4: 42 South Butler Road Lebanon, PA 17042		
Inlet Top, Type D-H		----
Inlet Top, Type D-H Level		----
WATRF 15 Waterford Precast and Sales, Inc., 511 Bagdad Road, Waterford, PA 16441		
Inlet Top, Type C		----
Inlet Top, Type M		----
Inlet Top, Type S		----



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714.2 Inlet Tops

Last Revised: 3/12/2024

See [Standard Drawing RC-45M \(Publication 72M\)](#)

Product	Name	Ref. No.
WINEC 15 Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
Inlet Top, Type C		----
Inlet Top, Type C Alternate		2009-167QD
Inlet Top, Type D-H		2009-167QA
Inlet Top, Type D-H Level		----
Inlet Top, Type M		----
Inlet Top, Type S		----

714.2 Junction Boxes, Precast Concrete

Last Revised: 5/19/2015

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
CONCR 15 Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
JB-1		----
JB-11		----
JB-12		----
JB-2		----

CONSS 15 Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 <http://concretesafety.com/>

JB-1		----
JB-11		----
JB-12		----
JB-2		----



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714.2 Junction Boxes, Precast Concrete

Last Revised: 5/19/2015

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
DIXPS 15 Dixon Precast and Supply, 740 Laurel Run Road, West Decatur, PA 16878		
JB-1		2014-188QA
JB-11		2014-189QA
JB-12		2014-189QB
JB-2		2014-188QB
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
JB-1		----
JB-11		----
JB-12		----
JB-2		----
FADD1 15 Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
JB-1		----
JB-11		----
JB-12		----
JB-2		----
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
JB-1		----
JB-11		----
JB-12		----
JB-2		----



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714.2 Junction Boxes, Precast Concrete

Last Revised: 5/19/2015

JB-1 & JB-2, Light Duty (For locations with pedestrian type loadings only): [Standard Drawing RC-81M \(Publication 72M\)](#)

JB-11 & JB-12, Heavy Duty: [Standard Drawing RC-82M \(Publication 72M\)](#)

Product	Name	Ref. No.
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/	
JB-1		----
JB-11		----
JB-12		----
JB-2		----

WINEC 15	Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143	
JB-1		----
JB-11		----
JB-12		----
JB-2		----

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 3/28/2024

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

Companies listed to fabricate Manhole Sections are approved to provide the base and corresponding riser, eccentric cone, and top & transition slab sections.

Product	Name	Ref. No.
ALTFJ 15	Altomare Precast, Inc., 4300 Wissahickon Avenue, Philadelphia, PA 19129 http://www.altomareprecast.com/	
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	----
	<i>Effective July 20, 2023, this plant remains Provisionally Approved. A 6 month follow-up audit will be performed in January or February of 2024.</i>	
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 http://www.atlanticconcrete.com/	
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	----



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Section 714: Precast Concrete Products

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 3/28/2024

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

Companies listed to fabricate Manhole Sections are approved to provide the base and corresponding riser, eccentric cone, and top & transition slab sections.

Product	Name	Ref. No.
BINGH 15 Binghamton Precast and Supply, 18 Phelps Street, Binghamton, NY 13901 http://www.binghamtonprecast.com/ Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
CONCR 15 Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/ Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
CONTN 15 Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 http://www.continentalconcrete.com/ Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
CPPLL 15 Concrete Pipe and Precast, LLC, 401 South Carlisle Street, Greencastle, PA 17225 http://www.concretepandp.com/ <i>Formerly Advanced Drainage Structures (ADSTR 15)</i> Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	2012-065Q
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501 Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
FIHFC 15 Fi-Hoff Concrete Products, Inc., 240 Bentwood Avenue, Johnstown, PA 15904 http://fi-hoff.com/ Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/ Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
MANDW 15M&W Precast, 210 Durham Road, Ottsville, PA 18942-0339 https://www.mwprecastsupply.com/ Manhole (RC-39M)	Type 4 Manhole Base, Riser, Eccentric Cone, and Top Slab	2021-116Q
Manhole (RC-39M)	Type 5 Manhole Base, Riser, and Top Slab Sections	2021-124Q



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Section 714: Precast Concrete Products

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 3/28/2024

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

Companies listed to fabricate Manhole Sections are approved to provide the base and corresponding riser, eccentric cone, and top & transition slab sections.

Product	Name	Ref. No.
MONAP 15 Monarch Products, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, 12	1992-193Q
MONPC 15 Monarch Precast Concrete Corporation, 425 North Dauphin Street, Allentown, PA 18109-2199 http://www.monarchprecast.com/		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	2002-084Q
OLDP5 15 Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/ Plant 1401 Trimble Road Edgewood, MD 21040		
Manhole (RC-39M)	Type 5 Manhole Base and Riser	2022-198Q
Manhole (RC-39M)	Type 5 Manhole Eccentric Cone and Top Slab	2022-215Q
Manhole (RC-39M)	Type 6 Manhole Base, Riser, and Top Slab	2022-248Q
Manhole (RC-39M)	Type 6 Manhole Top and Transition Slabs	2022-249Q
Manhole (RC-39M)	Type 8 Manhole Base, Riser, Top and Transition Slabs	2023-051Q
Manhole Section (RC-39M)	Type 4, 7, 10, and 12	2022-049Q
OLP-1 15 Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/ Plant 200 Keystone Drive Telford, PA 18969		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	2020-106Q
PREMC 15 Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 http://www.precastmfgco.com/		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	2013-050QA



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Section 714: Precast Concrete Products

714.2 Manhole Sections (Reinforced Concrete)

Last Revised: 3/28/2024

For Sanitary Sewer Manholes, see [Standard Drawing RC-38M \(Publication 72M\)](#)

For Storm Water Manholes, see [Standard Drawing RC-39M \(Publication 72M\)](#)

Companies listed to fabricate Manhole Sections are approved to provide the base and corresponding riser, eccentric cone, and top & transition slab sections.

Product	Name	Ref. No.
RAHN- 15 Rahns Construction Materials Company, 430 Bridge Road, Rahns, PA 19426 https://www.hkggroup.com/companies/rahns-rahns		
Manhole Section (RC-39M)		-----
<i>Suspended: Effective May 9, 2022, this plant is no longer certified through the NPCA Plant Certification Program. RC manhole sections fabricated by Rahn Construction Materials Company are not approved for use on PennDOT project until the plant is re-certified.</i>		
SCRRCR 15 Scranton Craftsmen, Inc., 930 Dunmore Street, Throop, PA 18512 http://www.scrantoncraftsmen.com/		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
Manhole Section (RC-39M) Alternate	Modified Type 4, Manhole Eccentric Cone (30" Opening)	2023-120Q
<i>Scranton Craftsmen's Modified Type 4, Manhole Eccentric Cone (30" Opening) PennDOT Approved Drawing 12/23/23</i>		
TERH0 15 Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/		
Plant Plant #2 1232 Precast Road East Earl, PA 17519		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
TERH1 15 Terre Hill Concrete Products, Plant #4:, 42 South Butler Road, Lebanon, PA 17042 http://www.terrehill.com/		
Plant Plant #4: 42 South Butler Road Lebanon, PA 17042		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----
WINEC 15 Wine Concrete Products, Inc., Sewickley Creek Partners, LLC, 1000 Big Sewickley Creek Road, Sewickley, PA 15143		
Manhole Section (RC-39M)	Type 4, 5, 6, 7, 8, 10, and 12	-----

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 3/15/2024



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Posted:
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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 3/15/2024

The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Slotted plate versions were only tested to the NCHRP-350 criteria and are not approved for the MASH 2016 criteria.

Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
AAP-1 15	Atlantic American Precast, Part of the H&K Group, P.O. Box 196, 2052 Lucon Road, Skippack, PA 19474	
	https://www.hkgroup.com/products/construction-materials/precast-concrete	
Plant	1 Quarry Road Douglassville, PA 19518	
	41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350	2022-031Q
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/	
	<i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i>	
	41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350	2015-004QB
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/	
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	-----
CONSS 15	Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/	
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	-----
	41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350	-----



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 3/15/2024

The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Slotted plate versions were only tested to the NCHRP-350 criteria and are not approved for the MASH 2016 criteria.

Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	32" Double Face with J-J Hooks	----
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	----
	41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350	----
FADD1 15 Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/		
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	----
	41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350	----



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

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The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

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Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
32" Double Face with J-J Hooks		----
32" Double Face with J-J Hooks (MASH)		2013-194QC
32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2017-095
34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350		----
41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350		----
42" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-258Q
50" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-238Q
Transition - 32" to 42" Height, 12' Length, Precast, F-Shape, Pin and Loop (RC-55M), MASH 2016		2024-018Q



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 3/15/2024

The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

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Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
FADD3 15 Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/		
32" Double Face with J-J Hooks		----
32" Double Face with J-J Hooks (MASH)		2013-194QB
32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2017-028
32" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2023-153Q
34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350		----
41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350		----
42" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-184Q
50" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-169Q



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

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The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Slotted plate versions were only tested to the NCHRP-350 criteria and are not approved for the MASH 2016 criteria.

Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
INTSS 15 Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only	2014-266QB
32" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-240Q
34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350		----
41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350		----
42" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-241Q
50" Permanent Precast, Double Face, F-Shape, Pin and Loop (RC-57M), MASH 2016		2022-235Q
Transition - 32" to 50" Height, 12' Length, Precast, F-Shape, Pin and Loop (RC-55M), MASH 2016		2022-217Q
J&RS1 15 Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
Note: Previously assigned J&RS2 15 for same facility		
34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350		----
41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350		----



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

Last Revised: 3/15/2024

The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

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Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
JERPC 15	Jersey Precast Corporation, 853 Nottingham Way, Hamilton Township, NJ 08638 http://jerseyprecast.com/	
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	2006-230Q
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/	
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	2008-132Q
	41" Single Face, F-Shape, Slotted Plate (RC 58M) - NCHRP-350	2013-083Q
NITT1 15	Nitterhouse Concrete Products Inc., P. O. Box N, Chambersburg, PA 17201 http://nitterhouseconcrete.com/	
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	-----
NORPR 15	Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/	
	32" Double Face-I Beam (NJ/NY) non-structure mounted	20' NYS I-Beam, NJ Shape Only
		2012-118A
OLP-1 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/	
Plant	200 Keystone Drive Telford, PA 18969	
	34"/32" Double Face, F-Shape, Slotted Plate (RC 57M) - NCHRP 350	-----



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Section 714: Precast Concrete Products

714.2 Median Barrier (Temporary and Permanent)

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The 32", 42", and 50" permanent precast F-Shape, Pin and Loop median barriers in RC-57M each have a 4" embedment depth for a total height of 36", 46", and 54". These barriers meet the MASH 2016 crash testing criteria. [Standard Drawing of Concrete Median Barrier RC -57M \(Publication 72M\)](#)

Slotted plate versions were only tested to the NCHRP-350 criteria and are not approved for the MASH 2016 criteria.

Single Face Concrete Barrier: RC-58M: Publication 72 /2010, Change No. 8 with slotted plates has only been tested to NCHRP-350 criteria. MASH 2016 version not yet approved. [Standard Drawing of Single Face Concrete Barrier RC-58M \(Publication 72M\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Ref. No.
WHICO 15 L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 http://www.lcwhitford.com/	32" Double Face with J-J Hooks	2011-187Q

714.2 Sound Barrier

Last Revised: 1/20/2023

Standard Drawings BD-676M & BC-776M: Ground Mounted Sound Barriers - Precast Concrete Panels

Standard Drawings BD-677M & BC-777M: Ground Mounted Sound Barriers - Precast Concrete Posts

Standard Drawings BD-679M & BC-779M: Structure Mounted Sound Barrier Walls

Standard Drawings BD-680M & BC-780M: Offset Sound Barrier Walls (Precast Concrete Panel Details)

[Bridge Design (BD) Standard Drawings - Publication 218M; Bridge Construction (BC) Standard Drawings - Publication 219M]

Product	Name	Ref. No.
AAP-1 15 Atlantic American Precast, Part of the H&K Group, P.O. Box 196, 2052 Lucon Road, Skippack, PA 19474 https://www.hkgroup.com/products/construction-materials/precast-concrete	1 Quarry Road Douglassville, PA 19518	
	Sound Barrier Panel, Ground Mounted	2021-105Q
	Sound Barrier Post (Precast), Ground Mounted	2021-105Q



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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 1/20/2023

Standard Drawings BD-676M & BC-776M: Ground Mounted Sound Barriers - Precast Concrete Panels

Standard Drawings BD-677M & BC-777M: Ground Mounted Sound Barriers - Precast Concrete Posts

Standard Drawings BD-679M & BC-779M: Structure Mounted Sound Barrier Walls

Standard Drawings BD-680M & BC-780M: Offset Sound Barrier Walls (Precast Concrete Panel Details)

[Bridge Design (BD) Standard Drawings - Publication 218M; Bridge Construction (BC) Standard Drawings - Publication 219M]

Product	Name	Ref. No.
BRAYP 15 Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/		
<i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i>		
	Sound Barrier Panel	2012-170Q
	Sound Barrier Post (Precast), Ground Mounted	2014-074Q
CONAW 15 Conewago Precast Building Systems, 576 Edgegrove Road, P.O. Box 461, Hanover, PA 17331 http://www.conewago.com/capabilities/precast-concrete/		
	Sound Barrier Panel	2010-241Q
	Sound Barrier Post (Precast), Ground Mounted	----
CONSS 15 Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
DURIS 15 Durisol, 8640 Broad Street, Rural Hall, NC 27045 http://www.durisol.com		
Plant	51 Arthur Street South Mitchell, ON Canada NOK 1N0 (Formerly Armtec - ARMTC 15)	
	Sound Barrier Panel	2009-133Q
	Sound Barrier Post (Precast), Ground Mounted	2009-133Q



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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 1/20/2023

Standard Drawings BD-676M & BC-776M: Ground Mounted Sound Barriers - Precast Concrete Panels

Standard Drawings BD-677M & BC-777M: Ground Mounted Sound Barriers - Precast Concrete Posts

Standard Drawings BD-679M & BC-779M: Structure Mounted Sound Barrier Walls

Standard Drawings BD-680M & BC-780M: Offset Sound Barrier Walls (Precast Concrete Panel Details)

[Bridge Design (BD) Standard Drawings - Publication 218M; Bridge Construction (BC) Standard Drawings - Publication 219M]

Product	Name	Ref. No.
FADD1 15	Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
FADD2 15	Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
FADD3 15	Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/	
	Sound Barrier Panel	2010-105Q
	Sound Barrier Post (Precast), Ground Mounted	2010-105Q
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411	
	Sound Barrier Panel	2012-178Q
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/	
	Note: Previously assigned J&RS2 15 for same facility	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
	Sound Barrier Post (Prestressed)	----



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Section 714: Precast Concrete Products

714.2 Sound Barrier

Last Revised: 1/20/2023

Standard Drawings BD-676M & BC-776M: Ground Mounted Sound Barriers - Precast Concrete Panels

Standard Drawings BD-677M & BC-777M: Ground Mounted Sound Barriers - Precast Concrete Posts

Standard Drawings BD-679M & BC-779M: Structure Mounted Sound Barrier Walls

Standard Drawings BD-680M & BC-780M: Offset Sound Barrier Walls (Precast Concrete Panel Details)

[Bridge Design (BD) Standard Drawings - Publication 218M; Bridge Construction (BC) Standard Drawings - Publication 219M]

Product	Name	Ref. No.
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/	
	Sound Barrier Panel	2008-180Q
	Sound Barrier Post (Precast), Ground Mounted	2008-180Q
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
NITT1 15	Nitterhouse Concrete Products Inc., P. O. Box N, Chambersburg, PA 17201 http://nitterhouseconcrete.com/	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
NORPP 15	Northeast Prestressed Products LLC, 121 River Street, Cressona, PA 17929-1133 http://www.npp-llc.com/	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----
WILLA 15	K. J. Williams Concrete Company, Inc., P.O. Box 5137, Cresaptown, MD 21505-5137 Plant 15213 McMullen Highway S.W. Cumberland, MD 21502	
	Sound Barrier Panel	----
	Sound Barrier Post (Precast), Ground Mounted	----

714.2 Temporary Concrete Barrier, Structure Mounted (BC 719)

Last Revised: 10/27/2020



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Section 714: Precast Concrete Products

714.2 Temporary Concrete Barrier, Structure Mounted (BC 719)

Last Revised: 10/27/2020

Note: [Approved Bridge and Structure Products](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Ref. No.
CONSS 15 Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/		
	32" Double Face (BC 719)	----
	42" Single Face (BC 719)	----
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501		
	32" Double Face (BC 719)	----
	42" Single Face (BC 719)	----
	50" Double Face (BC 719)	----
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/		
	32" Double Face (BC 719)	----
	32" Double Face with J-J Hooks (MASH)	2013-194A
	<i>Approved for use on bridge decks and bridge approach slabs. For PennDOT approved drawing no. 2019-165 along with use requirements & restrictions, see Product No. 85 at Approved Bridge and Structure Products</i>	
	42" Single Face (BC 719)	----
	50" Double Face (BC 719)	----
FADD3 15 Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/		
	32" Double Face (BC 719)	----
	32" Double Face with J-J Hooks (MASH)	2013-194A
	<i>Approved for use on bridge decks and bridge approach slabs. For PennDOT approved drawing no. 2019-165 along with use requirements & restrictions, see Product No. 85 at Approved Bridge and Structure Products</i>	
	42" Single Face (BC 719)	----
	50" Double Face (BC 719)	----



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Section 714: Precast Concrete Products

714.2 Temporary Concrete Barrier, Structure Mounted (BC 719)

Last Revised: 10/27/2020

Note: [Approved Bridge and Structure Products](#)

Temporary work zone devices manufactured after December 31, 2019, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

Product	Name	Ref. No.
INTSS 15 Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
32" Double Face (BC 719)		----
42" Single Face (BC 719)		----
50" Double Face (BC 719)		----
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
32" Double Face (BC 719)		2012-014Q

714.6 Fabrication

Last Revised: 12/14/2016

Standard Drawing of Vertical Adjustment Device on Steel Beam/Girder [BC-775M - Sheet 3 of 3 \(Publication 219M\)](#)

Product	Name	Ref. No.
THOMC 15 Thompson Machine Company, 1128 N. Fourth Ave., Altoona, PA 16601		
Vertical Adjustment Device		2015-171Q



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Section 721: Calcium Chloride

721 Calcium Chloride, AASHTO M144

Last Revised: 7/8/2015

Product	Name	Ref. No.
GENER 15 General Chemical Group, 90 East Halsey Road, Parsippany, NJ 07054 http://www.genchem.com/		
Calcium Chloride, Type S, Grade 1, Class A or B	CaCl Flake 77-80%	2000-141Q
OCCCC 15 Occidental Chemical Corporation, P.O. Box 809050, Dallas, TX 75380 http://www.oxy.com/OurBusinesses/Chemicals/Pages/default.aspx Plant 1600 South Madison Street Ludington, MI 49431		
Calcium Chloride, Type S, Grade 1, Class A or B	DOWFLAKE 83-87%	-----
Calcium Chloride, Type S, Grade 1, Class A or B	LIQUIDOW 30-42%	1992-345
TETRA 15 TETRA Technologies, Inc., 25025 Interstate 45N, P. O. Box 73087, The Woodlands, TX 77380 http://www.tetrathec.com/		
Calcium Chloride, Type S, Grade 1, Class A or B		1997-076



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Section 722: Sodium Chloride

722 Sodium Chloride, AASHTO M143 or ASTM D632

Last Revised: 6/1/2022

Product	Name	Ref. No.
AMERS 15 American Rock Salt Company, LLC, P.O. Box 190, Mount Morris, NY 14510 https://www.americanrocksalt.com/ Salt Mine Hampton Corners Mine, NY		
Sodium Chloride, Type 1, Grade 1	Hampton Corners, NY	2000-109Q
CARG0 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Salt Mine Salt Mines: Avery Island, LA; Cleveland, OH; Lansing, NY		
Sodium Chloride, Type 1, Grade 1	Avery Island, LA	1995-119
Sodium Chloride, Type 1, Grade 1	Cleveland, OH	1995-119
Sodium Chloride, Type 1, Grade 1	Lansing, NY	1995-119
CARG2 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Salt Mine Cayuga Salt Mine: Lansing, NY		
Sodium Chloride, Type 1, Grade 1	Lansing, NY	1995-119
CARG3 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Salt Mine Lake Erie Salt Mine: 2400 Ships Channel Cleveland, OH 44113		
Sodium Chloride, Type 1, Grade 1	Cleveland, OH	1995-119
CARG4 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Salt Mine Avery Island Salt Mine: Highway 329 S Avery Island, LA 70513		
Sodium Chloride, Type 1, Grade 1	Avery Island, LA	1995-119
<i>The Avery Island, LA salt mine is no longer in operation by Cargill (Dec. 2020). The remaining supply of rock salt mined from the Avery Island, LA location can continue to be supplied for PennDOT use.</i>		
CARG5 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Terminal Baltimore, MD		
Sodium Chloride, Type 1, Grade 1	Cleveland, OH (1995-119)	2021-094Q
Sodium Chloride, Type 1, Grade 1	Salar Grande, Iquique, Chile (2009-157Q)	2021-094Q



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Section 722: Sodium Chloride

722 Sodium Chloride, AASHTO M143 or ASTM D632

Last Revised: 6/1/2022

Product	Name	Ref. No.
CARG6 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Terminal Fairless Hills, PA		
Sodium Chloride, Type 1, Grade 1	Cleveland, OH (1995-119)	2021-120Q
Sodium Chloride, Type 1, Grade 1	Salar Grande, Iquique, Chile (2009-157Q)	2021-120Q
CARG7 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Terminal Hannibal, OH		
Sodium Chloride, Type 1, Grade 1	Salar Grande, Inuique, Chile (2009-157Q)	2021-121Q
CARG8 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Terminal Pittsburgh, PA		
Sodium Chloride, Type 1, Grade 1	Cleveland, OH (1995-119)	2021-122Q
Sodium Chloride, Type 1, Grade 1	Salar Grande, Iquique, Chile (2009-157Q)	2021-122Q
CARG9 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/ Terminal West Elizabeth, PA		
Sodium Chloride, Type 1, Grade 1	Cleveland, OH (1995-119)	2021-123Q
Sodium Chloride, Type 1, Grade 1	Lansing, NY (1995-119)	2021-123Q
Sodium Chloride, Type 1, Grade 1	Salar Grande, Iquique, Chile (2009-157Q)	2021-123Q
CEL-1 15 Chemical Equipment Labs of DE, Inc, 3920 A Providence Road, Suite A, Newtown Square, PA 19073 http://www.chemicalequipmentlabs.com/ Terminal Kinder Morgan Bulk Terminals 1 Sinter Road Fairless Hills, PA 19030		
Sodium Chloride, Type 1, Grade 1	Siwa, Egypt	2020-210Q
COMMC 15 Compania Minera Cordillera SCM, Providencia 2653, Office 702, 7510015 Santiago, Chile Salt Mine Salar Grande, Iquique Province Tarapacá, Chile		
Sodium Chloride, Type 1, Grade 1	Salar Grande, Iquique, Chile	2009-157Q



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Section 722: Sodium Chloride

722 Sodium Chloride, AASHTO M143 or ASTM D632

Last Revised: 6/1/2022

Product	Name	Ref. No.
DETSC 15 Detroit Salt Co., 12841 Sanders Street, Detroit, MI 48217 http://detroitssalt.com/ Salt Mine Detroit, MI	Sodium Chloride, Type 1, Grade 1 Detroit, MI	2013-079Q
DETST 15 Detroit Salt Co., 12841 Sanders St, Detroit, MI 48217 http://detroitssalt.com/ Terminal Kinder Morgan Bulk Terminal 1000 South Port Road Fairless Hills, PA 19030	Sodium Chloride, Type 1, Grade 1 Siwa and Quattara, Egypt	2018-050Q
HAVN1 15 Haven Salt Company LLC, 409 North State Street, Clarks Summit, PA 18411 Terminal Kinder Morgan Bulk Terminals 1 Sinter Road Fairless Hills, PA 19030	Sodium Chloride, Type 1, Grade 1 Rio de Janeiro, Brazil	2017-189Q
HOOPS 15 Hoopes Fertilizer Works, Inc., 9866 Freshley Ave., NE, Alliance, OH 44601	Sodium Chloride, Type 1, Grade 1 Ice Bite 55 <i>Anti-foaming agent, AE-30-FGK, can be added per manufacturer recommendations, Univar USA Mfg. Conditionally approved as an alternate per the manufacturer's specifications.</i>	2008-190
MORTS 15 Morton Salt Company, 123 North Wacker Drive, Chicago, IL 60606 http://www.mortonsalt.com/ Salt Mine 123 North Wacker Drive Chicago, IL 60606	Sodium Chloride, Type 1, Grade 1 Fairport, OH Sodium Chloride, Type 1, Grade 1 Weeks Island, LA Sodium Chloride, Type 1, Grade 1 Windsor, Ontario	----- ----- 2001-011Q
NAMSC 15 Compass Minerals America Inc., 9900 W 109th St, Suite 600, Overland Park, KS 66210 http://www.nasalt.com/ Salt Mine 9900 W 109th St, Suite 600 Overland Park, KS 66210 Formerly North American Salt Company	Sodium Chloride, Type 1, Grade 1 Cote Blanche, LA Sodium Chloride, Type 1, Grade 1 Goderich, Ontario	1995-122B 1995-122A



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Section 722: Sodium Chloride

722 Sodium Chloride, AASHTO M143 or ASTM D632

Last Revised: 6/1/2022

Product	Name	Ref. No.
RIVERT15 Silvi Cement, 355 Newbold Road, Fairless Hills, PA 19030 https://www.silvi.com/ Terminal 7900 N. Radcliffe Street Bristol, PA 19007 <i>Formerly Riverside Construction Materials</i>		
Sodium Chloride, Type 1, Grade 1	Marsa Matruh, Egypt (North Coast Commodities)	2021-168Q
Sodium Chloride, Type 1, Grade 1 <i>Provisionally approved.</i>	Siwa, Egypt	2018-089Q
SOC PD 15 K + S Chile S. A., Av. Tajamar 183, Piso 6, Las Condes, Santiago, Chile https://www.spl-latam.com/chile/ Salt Mine Las Condes Santiago, Chile		
Sodium Chloride, Type 1, Grade 1	Las Condes, Santiago, Chile	2005-060Q



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Section 723: Hydrated Lime

723 Hydrated Lime, ASTM C207

Last Revised: 7/8/2015

Product	Name	Ref. No.
CARML 15 Carmeuse Lime Company, Inc., Route 422 & Clear Springs Road, Annville, PA 17003 Plant Route 422 & Clear Springs Road Annville, PA 17003 Hydrated Lime, Type N	https://www.carmeuse.com/na-en	2002-036Q
GRAYM 15 Graymont (PA), Inc., 965 East College Ave., Pleasant Gap, PA 16823 Hydrated Lime, Type N	https://www.graymont.com/en/locations/lime-plants/eastern-us/lime-plant/pleasant-gap	1988-128



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

	Product	Name	Plant City	Plant State	Ref. No.
ADO-1 15 Plant	ADO Industries, Inc., 529 Carolina Avenue, Chester, WV 26034 8245 Energy Road Moundsville, WV 26041 Fly Ash, Class F	Mitchell Power Plant	Moundsville	WV	2019-058Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
CEMEXA1 5 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 200-B Neville Island Pittsburgh, PA 15225 Fly Ash, Class C	Labadie Power Plant (MINR1 2005-083)	Labadie	MO	2014-261Q
CEMEXB1 5 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 200-B Neville Island Pittsburgh, PA 15225 Fly Ash, Class C	Rush Island Power Plant (MINR1 2001-138)	Festus	MO	2011-098Q
CEMEXC1 5 Terminal	CEMEX, Inc., 10100 Katy Freeway, Suite 300, Houston, TX 77043 http://www.cemexusa.com/ 200-B Neville Island Pittsburgh, PA 15225 Fly Ash, Class F	IPL Petersburg Generation Station (MINR1)	Petersburg	IN	2005-050Q
CHAR1 15 Plant	Charah, Inc., 12601 Plantside Drive, Louisville, KY 40299 http://charah.com North Bend, OH Fly Ash, Class F	Miami Fort Station (Dynegy, Inc.)	North Bend	OH	2002-175Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. Plant is operated by Dynegy, Inc. Quality control testing of the fly ash is performed by Charah, Inc. (Formerly operated by Cinergy Corporation - CINER 15)</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

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	Product	Name	Plant City	Plant State	Ref. No.
CHAR2 15	Charah, Inc., 12601 Plantside Drive, Louisville, KY 40299 http://charah.com				
Plant	Moscow, OH				
	<i>The Zimmer Power Station closed in 2022.</i>				
	Fly Ash, Class F	Zimmer Power Station (Dynegy, Inc.)	Moscow	OH	2003-052Q
	<i>Plant is operated by Dynegy, Inc. Quality control testing of the fly ash is performed by Charah, Inc.</i>				
CRH-3 15	Ash Grove, A CRH Company, 2300 Steeles Avenue West, 4th Floor, Concord Ontario Canada L4K 5X6 https://www.ashgrove.com/				
Terminal	Ash Grove Dundee, MI Cement Terminal	15225 Day Road Dundee, MI 48131			
	Fly Ash, Class C	DTE Belle River Power Plant (Detroit Edison)	Dundee	MI	2015-003Q
ENELP 15	Enel Produzione SpA, Viale Regina Margherita, 125, Roma 00198				
Plant	Via Aurelia Nord 32 Civitavecchia				
	Fly Ash, Class F	Civitavecchia, Italy	Civitavecchia	Italy	2016-108Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
FAD-2 15	WM FlyAshDirect, 4228 Airport Road, Cincinnati, OH 45226 https://www.wm.com/us/en/business/coal-combustion-by-products				
Plant	Letart, WV				
	Fly Ash, Class F	Mountaineer Power Plant (American Electric Power)	Letart	WV	2018-002Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

	Product	Name	Plant City	Plant State	Ref. No.
FLYAD 15 Plant	WM FlyAshDirect, 4228 Airport Road, Cincinnati, OH 45226 Winfield, WV Fly Ash, Class F	John E. Amos Plant (Operated by Appalachian Power, subsidiary of American Electric Power)	Winfield	WV	-----
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>					
HEADWA1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Quinton, AL <i>Formerly Boral Resources</i> Fly Ash, Class C	Miller Power Station (Alabama Power)	Quinton	AL	2008-143Q
HEADWB1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Baldwin, IL <i>Formerly Boral Resources</i> Fly Ash, Class C	Dynegy-Baldwin Power Station	Baldwin	IL	2005-072Q
HEADWG1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Maidsville, WV Fly Ash, Class F	Fort Martin Power Station	Maidsville	WV	1986-312
<i>(Allegheny Power) Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>					



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
HEADWH1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Stratton, OH <i>Formerly Boral Resources</i> Fly Ash, Class F	 W. H. Sammis Power Plant	 Stratton OH	 https://ecomaterial.com/ 1997-146Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
HEADWJ1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Washingtonville, PA <i>Formerly Boral Resources</i> Fly Ash, Class F	 Montour Steam Electric Station, Talen Energy (Harvested Fly Ash)	 Washingtonville PA	 https://ecomaterial.com/ 2018-165Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
HEADWL1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Labadie, MO <i>Formerly Boral Resources</i> Fly Ash, Class C	 Labadie Power Plant	 Labadie MO	 https://ecomaterial.com/ 2005-083Q
HEADWM1 5 Plant	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095 Fetus, MO <i>Formerly Boral Resources</i> Fly Ash, Class C	 Rush Island Power Plant	 Festus MO	 https://ecomaterial.com/ 2001-138Q



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
HEADWP1 5	EM Resources LLC, 10701 S. River Front Parkway, Suite 300, South Jordan, UT 84095			https://ecomaterial.com/
Plant	Moundsville, WV Formerly Boral Resources			
	Fly Ash, Class F	Mitchell Power Plant	Moundsville	WV
	<i>Effective February 1, 2023, the Class F Fly Ash from the Mitchell Power Plant is distributed by ADO Industries, Inc. - See supplier code ADO-115. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
HOLI0 15	Holcim (US) Inc., 8700 West Bryn Mawr Avenue, Chicago, IL 60631			https://www.lafargeholcim.us/
	Fly Ash, Class C	Detroit Edison Belle River Power Plant	China Township	MI
	<i>Available Alkalis = 5.00%</i>			
RIVERT15 Terminal	Silvi Cement, 355 Newbold Road, Fairless Hills, PA 19030			https://www.silvi.com/
	7900 N. Radcliffe Street Bristol, PA 19007 Formerly Riverside Construction Materials			
	Fly Ash, Class F	Enel Produzione SpA	Civitavecchia	Italy
	<i>Terminal for ENELP 2016-108Q. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
SEFA1 15	The Sefa Group, 217 Cedar Road, Lexington, SC 29073			http://sefagroup.com/
	Fly Ash, Class F	Keystone Generating Station	Shelocta	PA
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
SEFA2 15	The Sefa Group, 217 Cedar Road, Lexington, SC 29073			http://sefagroup.com/
	Fly Ash, Class F	Star GenOn Morgantown Generating Station	Newburg	MD
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
SEFA3 15	The Sefa Group, 217 Cedar Road, Lexington, SC 29073 http://sefagroup.com/			
Fly Ash, Class F	Belews Creek Power Station	Belews Creek	NC	2012-168Q
	<i>Effective May 1, 2021, The Sefa Group has reacquired the Belews Creek Power Station source of Class F fly ash. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
STECHA15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Fly Ash, Class F	Brunner Island Steam Electric Station (PP&L)	York Haven	PA	-----
	<i>Flowable Fill</i>			
STECHB15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Fly Ash, Class F	ProAsh (Brandon Shores Wagner Station)	Baltimore	MD	2006-028Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
STECHC15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Fly Ash, Class F	ProAsh (Longview Power Plant)	Maidsville	WV	2016-144Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
STECHD15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Fly Ash, Class F	ProAsh (PP&L Generation, Brunner Island Station)	York Haven	PA	2006-031Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
STECHE15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Fly Ash, Class F	ProAsh (Clifty Creek Power Plant)	Madison	Indiana	2020-252Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.2(b) Fly Ash (For Use with Cement Concrete - AASHTO M295)

Last Revised: 2/16/2023

Fly ash manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7012 form for fly ash material should be recorded on this spreadsheet: [Fly Ash Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
STECHF15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Fly Ash, Class F	ProAsh (Cardinal Power Plant)	Brilliant	OH	2022-079Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				

STECHT15	Separation Technologies, LLC, 188 Summerfield Court, Suite 101, Roanoke, VA 24019 http://www.proash.com/			
Terminal	Bruner Island 1400 Wago Road York Haven, PA 17370			
Fly Ash, Class F	ProAsh (Longview Power Plant)	Maidsville	WV	2016-146Q
<i>Terminal for STECH 2016-144Q. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				

724.3 Slag Cement

Last Revised: 9/18/2023

AASHTO M302 (ASTM C989), Grade 100 or 120

Formerly known as Ground Granulated Blast Furnace Slag (GGBFS). Slag cement manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for slag cement material should be recorded on this spreadsheet: [Slag Cement Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
ARGO4 15	Argos USA, 3015 Windward Plaza, Windward Fairways II, Suite 300, Alpharetta, GA 30005 https://argos-us.com/			
Terminal	500 West Park Road Leetsdale, PA 15056			
	Formerly Essroc Materials, Inc. (ESS10 15)			
Slag Cement, Grade 100	SuperCem Adana, Grade 100 (Source: Iskenderun, Turkey)	Chesapeake	VA	2018-028Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Slag Cement

Last Revised: 9/18/2023

AASHTO M302 (ASTM C989), Grade 100 or 120

Formerly known as Ground Granulated Blast Furnace Slag (GGBFS). Slag cement manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for slag cement material should be recorded on this spreadsheet:

[Slag Cement Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.	
CRH-4 15 Plant	Ash Grove, A CRH Company, 2300 Steeles Avenue West, Concord, Ontario L4K 5X6 2391 Lakeshore Road West Mississauga, Ontario L5J 1K1 Slag Cement, Grade 100	Mississauga	Ontario	2000-087Q	
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. (Formerly CRH Slag Cement). Formerly known as Ash Grove Slag Cement.</i>				
LAFR1 15 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Buffalo Cement Terminal 575 Ohio Street Buffalo, NY 14203 Formerly Lafarge North America Slag Cement, Grade 100	Stoney Creek	Ontario	2022-001Q	
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LAFR1115 Plant	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Sparrows Point Cement Plant 2001 Wharf Road Baltimore, MD 21219 Formerly Lafarge North America Slag Cement, Grade 100	Baltimore	MD	1993-213	
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
	Slag Cement, Grade 120	NewCem 120	Baltimore	MD	1993-230
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LAFR1515 Plant	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 South Chicago Cement Terminal/Slag 2150 East 130th Street Chicago, IL 60633 Formerly Lafarge North America Slag Cement, Grade 120	Chicago	IL	2003-002Q	
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Slag Cement

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AASHTO M302 (ASTM C989), Grade 100 or 120

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[Slag Cement Statistical Data Spreadsheet](#)

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Product	Name	Plant City	Plant State	Ref. No.
LAFR1715 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Pittsburg Terminal 1529 Chartiers Avenue Pittsburgh, PA 15204 Formerly Lafarge North America	https://www.holcim.us/		
	Slag Cement, Grade 120	NewCem 120, (Plant Ref. No. 1993-230)	Baltimore (Sparrows Point)	MD 1993-230
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
LAFR1815 Plant	Lafarge Canada, A Member of Holcim Group, Northeast Region, 5160 Main Street, Whitehall, PA 18052 Woodstock, Ontario	https://www.lafarge.ca/en		
	Slag Cement, Grade 100	NewCem 100	Woodstock	Ontario 2018-100Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
LAFR1915 Plant	Lafarge Canada, A Member of Holcim Group, Northeast Region, 5160 Main Street, Whitehall, PA 18052 360 Jones Road Stoney Creek, Ontario L8E5N2	https://www.lafarge.ca/en		
	Slag Cement, Grade 100	NewCem 100	Stoney Creek	Ontario 2022-001Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
LAFR2 15 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Cleveland Cement Terminal/Slag 2500 Elm Street Cleveland, OH 44113 Formerly Lafarge North America	https://www.holcim.us/		
	Slag Cement, Grade 120	NewCem 120	Chicago	IL 2006-234Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			
LAFR5 15 Terminal	Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 Oswego Cement Terminal 1 West Van Buren Street Oswego, NY 13126 Formerly Lafarge North America	https://www.holcim.us/		
	Slag Cement, Grade 100	NewCem 100	Stoney Creek	Ontario 2022-001Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>			



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Slag Cement

Last Revised: 9/18/2023

AASHTO M302 (ASTM C989), Grade 100 or 120

Formerly known as Ground Granulated Blast Furnace Slag (GGBFS). Slag cement manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for slag cement material should be recorded on this spreadsheet: [Slag Cement Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

	Product	Name	Plant City	Plant State	Ref. No.
LEH-3 15 Plant	Lehigh Cement Company, Heidelberg Materials, 537 Evansville Road, Fleetwood, PA 19522 https://heidelbergmaterials.us/ Evansville Plant, Fleetwood, PA	Lehigh Slag Cement GGBFS (ALLCEM)	Evansville	PA	2001-058Q
	Slag Cement, Grade 120				
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LEH-7 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 3100 Mertens Avenue, Baltimore, MD 21224 https://heidelbergmaterials.us/ Baltimore, MD	Lehigh Slag Cement, GGBFS (ALLCEM)	Camden	NJ	2008-007Q
	Slag Cement, Grade 120				
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LEH15 15 Plant	Lehigh Cement Company, Heidelberg Materials, 595 Morgan Blvd, Camden, NJ 08104 https://heidelbergmaterials.us/ 595 Morgan Blvd Camden, NJ 08104 (Formerly Essroc ESS15 15)	Lehigh Slag Cement, GGBFS (ALLCEM)	Camden	NJ	2008-007Q
	Slag Cement, Grade 120				
	<i>Former product names: i.tech Slag & GranCem Cement. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
LEH16 15 Terminal	Lehigh Cement Company, Heidelberg Materials, 8282 Middlebranch Road, Middlebranch, OH 44652 https://heidelbergmaterials.us/ [Slag Plant, Cement Terminal] Middlebranch, OH 44652 (Formerly Essroc ESS-4 15)	Lehigh Slag Cement GGBFS (ALLCEM)	Middlebranch	OH	2006-008Q
	Slag Cement, Grade 100				
	<i>Former product names: i.tech Slag & Essroc Slag. Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. NOTE: The Middlebranch, OH plant (LEH16 15) supplies Grade 100 Blast Furnace Slag to the ARGO3 15 (Bessemer, PA) and ARGO4 15 (Leetsdale, PA) terminals.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Slag Cement

Last Revised: 9/18/2023

AASHTO M302 (ASTM C989), Grade 100 or 120

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[Slag Cement Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
LEH17 15 Terminal	Heidelberg Materials North America, 7660 Imperial Way, Allentown, PA 18195 Penn Mag, Inc. 719 Tarrtown Road Adrian, PA 16210 Slag Cement, Grade 120	Camden	NJ	2008-007Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
SKYC1 15 Plant	Skyway Cement Company, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 3020 East 103rd Street Chicago, IL 60617 Formerly Holcim (HOLI0 15, HOLI1 15, and HOLI9 15) Slag Cement, Grade 100	Chicago	IL	2009-094Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
SKYC2 15 Terminal	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 445 Grantham Street Tarentum, PA 15084 Leased cement terminal from Holcim (HOLI1 15) Slag Cement, Grade 100	Chicago	IL	2009-194Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
SKYC3 15 Terminal	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563 Crafton Yard Terminal Pittsburgh, PA Slag Cement, Grade 100	Chicago	IL	2017-136Q
<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate. Material is stored in a leased silo from LafargeHolcim (LAFR1715). Note: Skyway Cement Company's Bill of Ladings for SKYC3 15 are signed by LafargeHolcim terminal employees.</i>				



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.3 Slag Cement

Last Revised: 9/18/2023

AASHTO M302 (ASTM C989), Grade 100 or 120

Formerly known as Ground Granulated Blast Furnace Slag (GGBFS). Slag cement manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7013 form for slag cement material should be recorded on this spreadsheet:

[Slag Cement Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

	Product	Name	Plant City	Plant State	Ref. No.
SKYC4 15	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563				http://skywaycement.com/
Terminal	Columbus Terminal 220 Walnut Street Blacklick, OH 43004				
	Slag Cement, Grade 100	Skyway Cement (Plant Ref. No. 2009-094)	Chicago	IL	2017-227Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
SKYC5 15	Skyway Cement Company LLC, 1717 North Naper Blvd., Suite 111, Naperville, IL 60563				http://skywaycement.com/
Terminal	315 Poplar Street Etna, PA 15223				
	Slag Cement, Grade 100	Skyway Cement (Plant Ref. No. 2009-094)	Chicago	IL	2018-145Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
STMC4 15	St. Marys Cement, 9333 Dearbourn Street, Detroit, MI 48209				http://www.stmaryscement.com/saintmaryscementinc/
Plant	Detroit, MI				
	Slag Cement, Grade 100	Cemplus	Detroit	MI	2006-007Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
STMC6 15	St. Marys Cement, 250 Jefferson Street, Cleveland, OH 44113				http://www.stmaryscement.com/saintmaryscementinc/
Terminal	Cleveland, OH				
	Slag Cement, Grade 100	Cemplus	Detroit	MI	2008-117QB
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				
WALAN 15	Walan SCP, 501 Christiana Avenue, Wilmington, DE 19801				
Plant	Wilmington, DE				
	Slag Cement, Grade 100	EarthCEM Slag Cement	Wilmington	DE	2022-201Q
	<i>Acceptable for use in concrete mixes to reduce alkali silica reactivity of aggregate.</i>				

724.4 Silica Fume

Last Revised: 10/20/2020



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Section 724: Pozzolans - Supplementary Cementitious Materials

724.4 Silica Fume

Last Revised: 10/20/2020

AASHTO M307. Silica fume manufacturers listed in Bulletin 15 are required to submit monthly production test data in an Excel spreadsheet format. All the tests required on the PennDOT TR-7014 form for silica fume material should be recorded on this spreadsheet. [Silica Fume Statistical Data Spreadsheet](#)

On a monthly basis, completed spreadsheet(s) should be sent to: RA-pdCementLab@pa.gov

Product	Name	Plant City	Plant State	Ref. No.
GCPRED1 5 GCP Applied Technologies, 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/				
Plant	80 County Road 210 Burnsville, MS 38833			
	Silica Fume	Force 10,000 D (densified)	Burnsville MS	2017-143Q
NORC1 15 Ferroglobe USA Silica Fume Sales, Inc., 985 Seaway Drive, Suite A, Fort Pierce, FL 34949-2744 https://www.ferroglobe.com/				
Plant	West Virginia Manufacturing Route 60 East Alloy, WV 25002 <i>Formerly Norchem, Inc.</i>			
	Silica Fume	Chryso DSF	Alloy WV	2019-204Q
	Silica Fume	Eucon MSA	Alloy WV	2019-204Q
	Silica Fume	Force 10,000 D	Alloy WV	2019-204Q
	Silica Fume	MasterLife SF 100	Alloy WV	2019-204Q
	Silica Fume	Sikacrete 950 DP	Alloy WV	2019-204Q
	Silica Fume	Silica Fume	Alloy WV	2019-204Q
	<i>Silica fume from the Alloy, West Virginia source is also shipped from Norchem's packaging facility in Marietta, OH. Distributors of Norchem's silica fume include BASF Corporation, Euclid Chemical Company, GCP Applied Technologies, Sika Corporation, Acme, Advanced Cement Technology, Chryso, Fritz Pak, General Resource Technology - Mapei, Hydration Kontrol, Peregrine Chemical, Premiere Concrete Admixture, and RussTech.</i>			
REDMS 15 RED Industrial Products & Mississippi Silicon Partnership, 4 Village Park Drive, #110, Grove City, PA 16127 http://www.redindustrialproducts.com/				
Plant	80 County Road 210 Burnsville, MS 38833			
	Silica Fume	MasterLife SF 100 (densified)	Burnsville MS	2016-192Q
	Silica Fume	R-E-D Fume Concrete - 102 DM (densified)	Burnsville MS	2016-192Q
	Silica Fume	SikaCrete 950 DP (densified)	Burnsville MS	2016-192Q



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Section 725: Lime Pozzolan

725 Lime Pozzolan

Last Revised: 5/27/2015

Product	Name	Ref. No.
CARML 15 Carmeuse Lime Company, Inc., Route 422 & Clear Springs Road, Annville, PA 17003 https://www.carmeuse.com/na-en Plant Route 422 & Clear Springs Road Annville, PA 17003 Lime Pozzolan	Envirolime	2006-037QA
MINTR 15 Mintek Resources, Inc., 3045 Rodenbeck Drive, Beaver creek, OH 45432 https://www.mintekresources.com/ Facility Pleasant Gap, PA Lime Pozzolan	Calciment	2005-114Q



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Section 735: Geotextiles

735.1(b) Class 1 Geotextile - Subsurface Drainage

Last Revised: 3/20/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
ACF-1 15 Ferguson Enterprises LLC dba ACF Environmental, 2831 Cardwell Road, Richmond, VA 23234 https://www.fergusonqss.com/			
Class 1 Geotextile (Woven Monofilament)	M200N (Mirafi FW402)	GTX-2021-01-284	2023-089PL
Class 1 Geotextile (Woven Monofilament)	M200N (SKAPS M404)	GTX-2023-01-115	2023-090PL
CART3 15 Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Plant Pendergrass, GA/Athens, GA, Ahmedabad, India			
Class 1 Geotextile (Woven Monofilament)	Carthage 15% (Mirafi FW402)	GTX-2021-01-255	2022-012PL
CART4 15 Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Plant Willacoochee, GA			
Class 1 Geotextile (Woven Monofilament)	Carthage 15% (WINFAB 2197)	GTX-2021-01-255	2022-014PL
HANG0 15 Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/			
Class 1 Geotextile (Woven Monofilament)	TerraTex EP-12 (Mirafi FW402)	GTX-2017-01-128	2016-274PL
LANDM 15 Core and Main Geosynthetics, 1800 Springhead Church Road, Willacoochee, GA 31650 https://coreandmain.com/ <i>Formerly L & M Supply Company</i>			
Class 1 Geotextile (Woven Monofilament)	CNM2197NT (SKAPS M404)	GTX-2023-01-254	2024-039PL
PROP1 15 SOLMAX, 4019 Industrial Drive, Chattanooga, TN 37416 https://www.solmax.com/en/ams <i>Formerly Propex Operating Company</i>			
Class 1 Geotextile (Woven Monofilament)	GEOTEX 111F (MIRAFI FW402)	GTX-2017-01-096	2017-063PL
SKA-3 15 SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Plant Mundra - 370421 Gujarat, India			
Class 1 Geotextile (Woven Monofilament)	M404	GTX-2017-01-206	2017-311Q



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Section 735: Geotextiles

735.1(b) Class 1 Geotextile - Subsurface Drainage

Last Revised: 3/20/2024

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Product	Name	NTPEP Test Number	Ref. No.	
TCGEO 15 SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 https://www.solmax.com/en/ams/products/mirafi Plant Pendergrass, GA & Cornelia, GA <i>Formerly TenCate Geosynthetics</i>	Class 1 Geotextile (Woven Monofilament)	MIRAFI FW402	GTX-2018-01-140	2016-264Q
THRL3 15 Thrace Group, Marinou Antypa 20, Alimos, Greece https://www.thracegroup.com/us/en/companies/lumite/ Plant Lumite 1515 North County Line Road Alto, Georgia 30510	Class 1 Geotextile (Woven Monofilament)	GTF-400EO	GTX-2019-01-123	2016-199Q
WINFB 15 Willacoochee Industrial Fabrics Inc, 1 Nashville Mills Road, P.O. Box 457, Nashville, GA 31639 https://www.winfabusa.com Plant 769 West Main Street Willacoochee, GA 31650	Class 1 Geotextile (Woven Monofilament)	WINFAB 2197	GTX-2017-01-139	2017-186Q

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

Last Revised: 8/25/2023

Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.	
ACF-1 15 Ferguson Enterprises LLC dba ACF Environmental, 2831 Cardwell Road, Richmond, VA 23234 https://www.fergusongss.com/	Class 3, Type A Geotextile (Woven Slit Film)	S200N (Mirafi 500X)	GTX-2023-01-173	2023-091PL
	Class 3, Type A Geotextile (Woven Slit Film)	S200N (SKAPS SW 200)	GTX-2022-01-202	2023-092PLL
	Class 3, Type B Geotextile (Woven Slit Film)	LS125N (WINFAB 105SF)	GTX-2023-01-171	2023-157Q
BELTN 15 Belton Industries, P.O. Box 127, Belton, SC 29627 http://www.beltonindustries.com/	Class 3, Type B Geotextile (Woven Slit Film)	Beltech 940	GTX-2013-01-059	2003-199Q



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Section 735: Geotextiles

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

Last Revised: 8/25/2023

Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

	Product	Name	NTPEP Test Number	Ref. No.
CART1 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Athens, GA/Gujarat, India			
	Class 3, Type A Geotextile (Woven Slit Film)	FX-55 (SW 200)	GTX-2021-01-236	2021-201PL
CART2 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Hazlehurst, GA, Ringgold, GA			
	Class 3, Type A Geotextile (Woven Slit Film)	FX-55 (GEOTEX 200ST)	GTX-2021-01-236	2022-003PL
CART3 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Pendergrass, GA/Athens, GA, Ahmedabad, India			
	Class 3, Type A Geotextile (Woven Slit Film)	FX-55 (Mirafi 500X)	GTX-2021-01-236	2022-019PL
LANDM 15	Core and Main Geosynthetics, 1800 Springhead Church Road, Willacoochee, GA 31650 https://coreandmain.com/ Formerly L & M Supply Company			
	Class 3, Type A Geotextile (Woven Slit Film) <i>Formerly LM 200 NT</i>	CNM200NT (SW 200)	GTX-2019-01-161	2016-036PL
PROP3 15 Plant	Propex Operating Company, SOLMAX, 4019 Industry Drive, Chattanooga, TN 37416 http://www.propexglobal.com/ 95 East Jefferson Street Hazlehurst, GA 31539			
	Class 3, Type A Geotextile (Woven Slit Film)	GEOTEX 200ST	GTX-2016-01-244	2017-055Q
	Class 3, Type B Geotextile (Woven Slit Film)	GEOTEX 2130	GTX-2015-01-071	2017-056Q



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Section 735: Geotextiles

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

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Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

	Product	Name	NTPEP Test Number	Ref. No.
SKA-1 15 Plant	SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ 316 South Holland Drive Pendergrass, GA 30567			
	Class 3, Type A Geotextile (Woven Slit Film)	SW 200	GTX-2016-01-266	2006-194Q
SKA-2 15 Plant	SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ 335 Athena Drive Athens, GA 30601			
	Class 3, Type A Geotextile (Woven Slit Film)	SW 200	GTX-2013-01-185	2009-085Q
SKA-3 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Mundra - 370421 Gujarat, India			
	Class 3, Type B Geotextile (Woven Slit Film)	W100	GTX-2016-01-264	2017-043Q
TENC1 15 Facility	SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 https://www.solmax.com/en Ahmedabad, India			
	Class 3, Type A Geotextile (Woven Slit Film)	Mirafi 500X	GTX-2016-01-175	2017-077Q
THRL1 15	Thrace-LINQ, Inc., 2550 West 5th North Street, Summerville, SC 29483-9699 http://thracelinq.com/			
	Class 3, Type B Geotextile (Woven Slit Film)	GTF-200S	GTX-2018-01-232	2016-203Q
	<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of GTF-200S.</i>			



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Section 735: Geotextiles

735.1(b) Class 3, Type A & B Geotextiles - Sediment Control

Last Revised: 8/25/2023

Unless note, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
THRL2 15 Plant	Thrace Group, Marinou Antypa 20, Alimos, Greece https://www.thracegroup.com/us/en/ 20 Marinou Antypa str, 17455 Alimos, Athens, Greece		
Class 3, Type A Geotextile (Woven Slit Film)	GTF-200	GTX-2017-01-162	2017-149Q
Class 3, Type B Geotextile (Woven Slit Film)	GTF-200	GTX-2017-01-162	2017-149Q
WINFB 15 Plant	Willacoochee Industrial Fabrics Inc, 1 Nashville Mills Road, P.O. Box 457, Nashville, GA 31639 https://www.winfabusa.com 769 West Main Street Willacoochee, GA 31650		
Class 3, Type A Geotextile (Woven Slit Film)	WINFAB 200W	GTX-2017-01-217	2011-102QA,B
Class 3, Type B Geotextile (Woven Slit Film)	WINFAB 105SF	GTX-2018-01-127	2016-188Q

735.1(b) Class 4, Type A Geotextile - Separation & Erosion Control

Last Revised: 1/18/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
ACF-1 15 Plant	Ferguson Enterprises LLC dba ACF Environmental, 2831 Cardwell Road, Richmond, VA 23234 https://www.fergusongss.com/		
Class 4, Type A Geotextile (Non-woven Needle Punched)	T120 (GE-112)	GTX-2023-01-255	2023-097PL
Class 4, Type A Geotextile (Non-woven Needle Punched)	T120 (Mirafi 1200NPA)	GTX-2023-01-255	2023-098PL
CART1 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Athens, GA/Gujarat, India		
Class 4, Type A Geotextile (Non-woven Needle Punched)	FX-120HSE (GE-112)	GTX-2021-01-250	2022-058PL



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 735: Geotextiles

735.1(b) Class 4, Type A Geotextile - Separation & Erosion Control

Last Revised: 1/18/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

	Product	Name	NTPEP Test Number	Ref. No.
CART2 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Hazlehurst, GA, Ringgold, GA			
	Class 4, Type A Geotextile (Non-woven Needle Punched)	FX-120HSE (GEOTEX 1291)	GTX-2021-01-250	2022-059PL
CART3 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Pendergrass, GA/Athens, GA, Ahmedabad, India			
	Class 4, Type A Geotextile (Non-woven Needle Punched)	FX-120HSE (Mirafi E1200)	GTX-2021-01-250	2022-015PL
CHER1 15 Plant	Cherokee Manufacturing, 150 Bridgepoint Drive, Suite 200, South Saint Paul, MN 50755 https://www.cherokeemfg.com/geotextiles/ Athens, GA			
	Class 4, Type A Geotextile (Non-woven Needle Punched)	Stronghold 12 OZ NWE (GE-112)	GTX-2021-01-209	2021-118PL
HANG0 15	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/			
	Class 4, Type A Geotextile (Non-woven Needle Punched)	TerraTex N12E (Mirafi E1200, GEOTEX 1291)	GTX-2017-01-127	2016-272PL
LANDM 15	Core and Main Geosynthetics, 1800 Springhead Church Road, Willacoochee, GA 31650 https://coreandmain.com/ Formerly L & M Supply Company			
	Class 4, Type A Geotextile (Non-woven Needle Punched) <i>Formerly LM 1200E NT</i>	CNM1200ENT (GE-112)	GTX-2019-01-171	2022-051PL
PROP1 15	SOLMAX, 4019 Industrial Drive, Chattanooga, TN 37416 https://www.solmax.com/en/ams Formerly Propex Operating Company			
	Class 4, Type A Geotextile (Non-woven Needle Punched)	GEOTEX 1291	GTX-2018-01-043	1987-107Q



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Section 735: Geotextiles

735.1(b) Class 4, Type A Geotextile - Separation & Erosion Control

Last Revised: 1/18/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
PROP2 15	SOLMAX, 428 Rollins Industrial Blvd., Ringgold, GA 30736 https://www.solmax.com/en/ams <i>Formerly Propex Operating Company</i>		
Class 4, Type A Geotextile (Non-woven Needle Punched)	GEOTEX 1291	GTX-2018-01-043	2017-053Q
SKA-2 15	SKAPS Industries Nonwoven Division, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Plant 335 Athena Drive Athens, GA 30601		
Class 4, Type A Geotextile (Non-woven Needle Punched)	GE-112	GTX-2019-01-094	2016-265Q
TCGEO 15	SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 https://www.solmax.com/en/ams/products/mirafi Plant Pendergrass, GA & Cornelia, GA <i>Formerly TenCate Geosynthetics</i>		
Class 4, Type A Geotextile (Non-woven Needle Punched)	MIRAFI 1200NPA	GTX-2022-01-301	2022-195Q
Class 4, Type A Geotextile (Non-woven Needle Punched) <i>Formerly known as Mirafi S1200.</i>	MIRAFI E1200	GTX-2019-01-104	2017-047Q
TEXEL 15	Texel Technical Materials, Inc., 485 des Erables, Saint-Elzear (Quebec), G0S 2J0 Canada http://texel.ca/en/market-segments/geosynthetics/products/geotextiles/ Plant 1300, 2e Rue, Parc Industriel Sainte-Marie (Quebec), G6E 1G8 Canada		
Class 4, Type A Geotextile (Non-woven Needle Punched)	TEXEL120E	GTX-2017-01-221	2017-073Q



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Section 735: Geotextiles

735.1(b) Class 4, Type A Geotextile - Separation & Erosion Control

Last Revised: 1/18/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
THRL1 15 Thrace-LINQ, Inc., 2550 West 5th North Street, Summerville, SC 29483-9699 http://thracelinq.com/			
Class 4, Type A Geotextile (Non-woven Needle Punched)	1200EX	GTX-2018-01-170	2017-105Q
<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of 1200EX.</i>			
Class 4, Type A Geotextile (Non-woven Needle Punched)	275EXPA	GTX-2017-01-164	2016-200Q
<i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of 275EXPA.</i>			
WINFB 15 Willacoochee Industrial Fabrics Inc, 1 Nashville Mills Road, P.O. Box 457, Nashville, GA 31639 https://www.winfabusa.com			
Plant 769 West Main Street Willacoochee, GA 31650			
Class 4, Type A Geotextile (Non-woven Needle Punched)	WINFAB 1200NE (GE-112)		2017-226PL
Class 4, Type A Geotextile (Non-woven Needle Punched)	WINFAB 1200NE-PA (GEOTEX 1291)	GTX-2020-01-098	2020-081PL

735.1(b) Class 4, Type C Geotextile - Stabilization & GRS Abutment Reinforcement

Last Revised: 4/10/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
ACF-1 15 Ferguson Enterprises LLC dba ACF Environmental, 2831 Cardwell Road, Richmond, VA 23234 https://www.fergusongss.com/			
Class 4, Type C Geotextile (Woven Polypropylene)	HSP4N (Mirafi HP570)		2023-094PL
CART3 15 Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/			
Plant Pendergrass, GA/Athens, GA, Ahmedabad, India			
Class 4, Type C Geotextile (Woven Polypropylene)	FX-570MF (Mirafi HP570)	GTX-2021-01-237	2022-011PL



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Section 735: Geotextiles

735.1(b) Class 4, Type C Geotextile - Stabilization & GRS Abutment Reinforcement

Last Revised: 4/10/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

	Product	Name	NTPEP Test Number	Ref. No.
CART5 15 Plant	Carthage Mills, 4243 Hunt Road, Cincinnati, OH 45242 https://carthagemills.com/ Clarkesville, GA			
	Class 4, Type C Geotextile (Woven Polypropylene)	FX-570MF (FG57)	GTX-2021-01-237	2022-064PL
FGT-1 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 https://skaps.com/ 256 Paper Lane Clarkesville, GA 30523 Formerly Foundation Geotextiles, LLC			
	Class 4, Type C Geotextile (Woven Polypropylene)	FG57	GTX-2021-01-092	2021-109Q
HANG0 15	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/			
	Class 4, Type C Geotextile (Woven Polypropylene)	TerraTex HPG-57 (FG57)	GTX-2023-01-037	2024-067PL
	Class 4, Type C Geotextile (Woven Polypropylene)	TerraTex HPG-57 (Mirafi HP570)	GTX-2023-01-0377	2024-066PL
	Class 4, Type C Geotextile (Woven Polypropylene)	TerraTex HPG-57 (WINFAB 570HP)	GTX-2023-01-037	2024-068PL
LANDM 15	Core and Main Geosynthetics, 1800 Springhead Church Road, Willacoochee, GA 31650 https://coreandmain.com/ Formerly L & M Supply Company			
	Class 4, Type C Geotextile (Woven Polypropylene) <i>Formerly LM 570 HP</i>	CNM570HP (Mirafi HP570)	GTX-2019-01-174	2016-046PL
PROP1 15	SOLMAX, 4019 Industrial Drive, Chattanooga, TN 37416 https://www.solmax.com/en/ams Formerly Propex Operating Company			
	Class 4, Type C Geotextile (Woven Polypropylene)	GEOTEX 4x4HF (MIRAFI HP570)	GTX-2019-01-150	2017-057PL



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Section 735: Geotextiles

735.1(b) Class 4, Type C Geotextile - Stabilization & GRS Abutment Reinforcement

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Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

	Product	Name	NTPEP Test Number	Ref. No.
SKA-3 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 Mundra - 370421 Gujarat, India Class 4, Type C Geotextile (Woven Polypropylene)	M440	http://www.skaps.com/ GTX-2019-01-033	2020-076Q
SKA-5 15 Plant	SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 256 Paper Lane Clarkesville, GA 30523 Formerly Foundation Geotextiles, LLC Class 4, Type C Geotextile (Woven Polypropylene)	FG57	https://skaps.com/ GTX-2021-01-092	2021-109Q
TCGEO 15 Plant	SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 Pendergrass, GA & Cornelia, GA Formerly TenCate Geosynthetics Class 4, Type C Geotextile (Woven Polypropylene)	MIRAFI HP570	https://www.solmax.com/en/ams/products/mirafi GTX-2018-01-074	2001-111Q
THRL2 15 Plant	Thrace Group, Marinou Antypa 20, Alimos, Greece 20 Marinou Antypa str, 17455 Alimos, Athens, Greece Class 4, Type C Geotextile (Woven Polypropylene) <i>This product is only approved for projects let per Publication 408, 2016 Change No. 7 and earlier. It is not approved for contracts let per Standard Special Provision a00089 Changes to Specifications: Section 735 or Pub 408, 2020 Initial Edition.</i>	GTF-550	https://www.thracegroup.com/us/en/ GTX-2016-02-005	2016-267Q
THRL3 15 Plant	Thrace Group, Marinou Antypa 20, Alimos, Greece Lumite 1515 North County Line Road Alto, Georgia 30510 Class 4, Type C Geotextile (Woven Polypropylene)	GTF-570	https://www.thracegroup.com/us/en/companies/lumite/ GTX-2018-01-238	2016-202Q



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Section 735: Geotextiles

735.1(b) Class 4, Type C Geotextile - Stabilization & GRS Abutment Reinforcement

Last Revised: 4/10/2024

Unless noted, approved for projects let on or after October 7, 2016 (Pub 408, 2016, Change No. 1 or later). For prior contracts: [Approved Geotextiles for Projects Let BEFORE October 7, 2016](#)

Product	Name	NTPEP Test Number	Ref. No.
WINFB 15 Plant	Willacoochee Industrial Fabrics Inc, 1 Nashville Mills Road, P.O. Box 457, Nashville, GA 31639 769 West Main Street Willacoochee, GA 31650	https://www.winfabusa.com	
Class 4, Type C Geotextile (Woven Polypropylene)	WINFAB 4x4	GTX-2017-01-137	2017-262Q
<i>This product is only approved for projects let per Publication 408, 2016 Change No. 7 and earlier. It is not approved for contracts let per Standard Special Provision a00089 Changes to Specifications: Section 735 or Pub 408, 2020 Initial Edition.</i>			
Class 4, Type C Geotextile (Woven Polypropylene)	WINFAB 570HP	GTX-2017-01-131	2016-096Q



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Section 736: Geomembrane

736 Geomembrane, High Density Polyethylene (HDPE)

Last Revised: 11/23/2020

Product	Name	Ref. No.
AGRUA 15 Agru America, Inc., 700 Rockmead, Suite 150, Kingwood, TX 77339 http://agruamerica.com/		
Geomembrane (HDPE)	AA Microspike	1999-196
Geomembrane (HDPE)	AA Smooth	1999-196
GSELT 15 GSE Environmental, Solmax, 19103 Gundle Road, Houston, TX 77073 http://www.gseworld.com/		
Geomembrane (HDPE)	GSE HD Smooth	1999-189
Geomembrane (HDPE)	GSE HD Textured	1999-189
LAYF1 15 Layfield USA Corporation, 10038 Marathon Parkway, Lakeside, CA 92040 https://www.layfieldgroup.com/ Plant Layfield Geosynthetics - Vancouver 11120 Silversmith Place Richmond, British Columbia V7A 5E4		
Geomembrane (HDPE)	HDPE Smooth (High Density Polyethylene Geomembrane Liner)	2019-202Q
RAVEN 15 Raven Industries, Inc., 1813 "E" Avenue, Sioux Falls, SD 57104 http://ravenind.com/		
Geomembrane (HDPE)	Rufco 3300B	2001-125Q
SKA-4 15 SKAPS Industries, USA - Headquarter, 335 Athena Drive, Athens, GA 30601 http://www.skaps.com/ Plant 571 Industrial Parkway Commerce, GA 30529		
Geomembrane (HDPE)	SKAPS HDPE Smooth Geomembranes	2020-020Q
Geomembrane (HDPE)	SKAPS HDPE Textured Geomembrane	2020-035Q
SOLMX 15 Solmax International, Inc., 2801 Marie-Victorin Boulevard, Varennes, Quebec J3X 1P7 http://www.solmax.com/		
Geomembrane (HDPE)	400 Series	2000-148



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Section 737: Geocell

737 Geocell

Last Revised: 5/16/2022

Product	Name	Ref. No.
GEOPR 15 Geo Products, 8615 Golden Spike Lane, Houston, TX 77086 http://www.geoproducts.org/		
Type A Geocell, Perforated or Non-Perforated <i>(EnviroGrid EGA20)</i>	TerraCell 140 (Type A - 3", 4", 6", and 8" cell depth)	2001-122Q
Type B Geocell, Perforated or Non-Perforated <i>(EnviroGrid EGA30)</i>	TerraCell 175 (Type B - 3", 4", 6", and 8" cell depth)	2001-122Q
Type C GeoCell, Perforated or Non-Perforated <i>(EnviroGrid EGA40)</i>	TerraCell 280 (Type C - 3", 4", 6", and 8" cell depth)	2001-122Q
INDFAB15 Industrial Fabrics, Inc., 510 O'Neal Lane, Baton Rouge, LA 70819 https://baselok.com/geocell/		
Plant 5102 Galveston Road Houston, TX 77017		
Type B Geocell, Perforated	BaseLok G30T (Type B - 3", 4", 6", and 8" cell depth)	2021-067Q
PREST 15 Presto Products Company, P.O. Box 2399, Appleton, WI 54912-2399 https://www.prestogeo.com/products/soil-stabilization/geoweb-geocells/		
Type A Geocell, Perforated	GeoWeb GW20V (Type A - 3", 4", 6", and 8" cell depth)	2001-063Q
Type B Geocell, Perforated	GeoWeb GW30V (Type B - 3", 4", 6", and 8" cell depth)	2001-063Q
Type C Geocell, Perforated	GeoWeb GW40V (Type C - 3", 4", 6", and 8" cell depth)	2001-063Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 738: Geogrids

738.2 Class 1 Uniaxial Geogrid Reinforcement

Last Revised: 1/18/2024

Product	Name	Tensile Strengths (MARV)		Ref. No.
		@ 5% Elongation (σ)	@ Ultimate (T _U)	
ACEGE 15	Ace Geosynthetics Inc., No. 33 Jing 3 Road, C.E.P.Z. Wuchi, Taichung City, Taiwan (R.O.C.) 43541 http://www.geoace.com/			
Geogrid: Type A, (PET) PVC Coated Polyester	ACEGrid GG80-I	2740 (lbs/ft)	5480 (lbs/ft)	2012-027ME
STF-1 15	Synten Technical Fabrics, 1950 W. Meeting Street, Lancaster, SC 29720 http://www.synten.com/			
Plant	1950 W. Meeting Street Lancaster, SC 29720			
Geogrid: Type A, (PET) PVC Coated Polyester	SF110	2634 (lbs/ft)	10,100 (lbs/ft)	2017-343Q
Geogrid: Type A, (PET) PVC Coated Polyester	SF20	1241 (lbs/ft)	2025 (lbs/ft)	2017-337Q
Geogrid: Type A, (PET) PVC Coated Polyester	SF35	1392 lbs/ft	3600 (lbs/ft)	2017-338Q
Geogrid: Type A, (PET) PVC Coated Polyester	SF55	1555 (lbs/ft)	5000 (lbs/ft)	2017-339Q
Geogrid: Type A, (PET) PVC Coated Polyester	SF65	1928 (lbs/ft)	6200 (lbs/ft)	2017-340Q
Geogrid: Type A, (PET) PVC Coated Polyester	SF90	2370 (lbs/ft)	9000 (lbs/ft)	2017-342Q



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Section 738: Geogrids

738.2 Class 1 Uniaxial Geogrid Reinforcement

Last Revised: 1/18/2024

Product	Name	Tensile Strengths (MARV)		Ref. No.
		@ 5% Elongation (F)	@ Ultimate (T)	
STRATA15 Strata Systems, Inc., subsidiary of Glen Raven, Inc., 1831 North Park Avenue, Burlington, NC 27217 https://www.geogrid.com/				
Plant	Stata Systems Daheli Daheli, India			
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG150	650 (lbs/ft)	1875 (lbs/ft)	2018-183Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG200	1400 (lbs/ft)	3600 (lbs/ft)	2018-095Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG350	1850 (lbs/ft)	5000 (lbs/ft)	2018-189Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG500	1950 (lbs/ft)	6400 (lbs/ft)	2018-267Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG550	2460 (lbs/ft)	8150 (lbs/ft)	2018-190Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG650	2700 (lbs/ft)	10500 (lbs/ft)	2018-266Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SG700	2937 (lbs/ft)	11800 (lbs/ft)	2018-265Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 100	1950 (lbs/ft)	6852 (lbs/ft)	2021-129Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 120	2460 (lbs/ft)	8222 (lbs/ft)	2021-130Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 150	2700 (lbs/ft)	10278 (lbs/ft)	2021-131Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 180	2937 (lbs/ft)	12334 (lbs/ft)	2021-133Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 200	3426 (lbs/ft)	13704 (lbs/ft)	2021-132Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 300	5139 (lbs/ft)	20556 (lbs/ft)	2021-148Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 40	930 (lbs/ft)	2740 (lbs/ft)	2021-106Q
Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 400	6852 (lbs/ft)	27408 (lbs/ft)	2021-149Q



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Section 738: Geogrids

738.2 Class 1 Uniaxial Geogrid Reinforcement

Last Revised: 1/18/2024

Product	Name	Tensile Strengths (MARV)		Ref. No.	
		@ 5% Elongation (σ)	@ Ultimate (T _u)		
STRATA15 Strata Systems, Inc., subsidiary of Glen Raven, Inc., 1831 North Park Avenue, Burlington, NC 27217 https://www.geogrid.com/					
Plant	Stata Systems Daheli Daheli, India				
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 60	1400 (lbs/ft)	4111 (lbs/ft)	2021-127Q
	Geogrid: Type A, (PET) PVC Coated Polyester	StrataGrid SGU 80	1850 (lbs/ft)	5482 (lbs/ft)	2021-128Q
TCGEO 15 SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 https://www.solmax.com/en/ams/products/mirafi					
Plant	Pendergrass, GA & Cornelia, GA				
	Formerly TenCate Geosynthetics				
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 10XT	3120 (lbs/ft)	9500 (lbs/ft)	2017-084Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 20XT	5340 (lbs/ft)	13705 (lbs/ft)	2017-085Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 22XT	6700 (lbs/ft)	20559 (lbs/ft)	2017-086Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 2XT	1080 (lbs/ft)	2000 (lbs/ft)	2016-166Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 3XT	1056 (lbs/ft)	3500 (lbs/ft)	2016-260Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 5XT	1740 (lbs/ft)	4700 (lbs/ft)	2017-081Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 7XT	2160 (lbs/ft)	5900 (lbs/ft)	2017-082Q
	Geogrid: Type A, (PET) PVC Coated Polyester	MIRAGRID 8XT	2520 (lbs/ft)	7400 (lbs/ft)	2017-083Q

738.3 Class 2 Biaxial Geogrids

Last Revised: 9/8/2022

Product	Name	Tensile Strengths (MARV)		Ref. No.
		@ 5% Elongation (σ)	@ Ultimate (T _u)	



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 738: Geogrids

738.3 Class 2 Biaxial Geogrids

Last Revised: 9/8/2022

Product	Name	Tensile Strengths (MARV)		Ref. No.
		@ 5% Elongation ($\bar{\sigma}$)	@ Ultimate (T_U)	
STRATA15 Plant	Strata Systems, Inc., subsidiary of Glen Raven, Inc., 1831 North Park Avenue, Burlington, NC 27217 Stata Systems Daheli Daheli, India Geogrid: Class 2, Type C (Polymeric Coated PET)	StrataGrid SGB 30	2056 (lbs/ft)	2022-093Q

<https://www.geogrid.com/>



BULLETIN 15 (Publication 35) Qualified Products List for Construction

**Posted:
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Section 802: Topsoil Furnished and Placed

802 Topsoil

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of the material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 802 for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 804: Seeding and Soil Supplements

804.2(h) Biotic Soil Amendment (BSA)

Last Revised: 5/31/2022

Product	Name	Ref. No.
PROFP 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Plant 219 Simpson Street SW Conover, NC 28613	Biotic Soil Amendment	ProGanics Biotic Soil Media (BSM)
		2017-150Q



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Section 805: Mulching

805.2(a)1 Mulches: Seeded Areas

Last Revised: 2/11/2021

Product	Name	Ref. No.
AMEE1 15 American Excelsior Company, 850 Avenue H East, P.O. Box 5067, Arlington, TX 76011 http://americanexcelsior.com/		
Plant 831 Pioneer Avenue Rice Lake, WI		
Wood Fiber	Excel Wood Fiber Mulch II	1992-313
ENCAP 15 Encap, LLC, 3921 Algoma Road, Green Bay, WI 54311-9707 http://encap.net/		
Wood Fiber	Pam-12 Recycled Paper Mulch	2007-128
<i>Conditionally Approved as an alternate.</i>		
HSTRAW15 HydroStraw, LLC, 22110 South State Route 27, Rockford, WA 99030 https://www.hydrostraw.com/		
Straw	HydroStraw® Original	2012-153
<i>Conditionally Approved as an alternate.</i>		
MATTT 15 Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/		
Wood Fiber	Bindex Wood WT	2011-074QA
Wood Fiber	Mat Fiber Plus	1992-150D
PROFP 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/		
Plant 219 Simpson Street SW Conover, NC 28613		
Wood Fiber	EcoSolutions EcoFibre™	2016-113
Wood Fiber	Lesco HydroCover Wood	2016-113
Wood Fiber	Profile Wood Fiber	2016-113
<i>Formerly known as Terra-Mulch Terra-Wood™ (2016-113), SoilCover Wood (2016-113), and Conweb Fibers Hydro Mulch 1000 (2014-162MB).</i>		
Wood Fiber	Profile Wood with Tackifier	1990-279
<i>Formerly known as Conweb Fibers 2000.</i>		



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Section 805: Mulching

805.2(a)1 Mulches: Seeded Areas

Last Revised: 2/11/2021

Product	Name	Ref. No.
TENSR 15 Tensar International Corporation, 7265 AL Highway 9S, Centre, AL 35960 http://www.tensarcorp.com/ <i>Formerly Mulch and Seed Innov. (MULSI)</i>		
Wood Fiber <i>Conditionally Approved as an alternate.</i>	GeoSkin Hydraulic (Wood Fiber Alternate)	2010-125
Wood Fiber <i>Conditionally Approved as an alternate.</i>	GeoSkin XT Hydraulic (Wood Fiber Alternate)	2010-135

805.2(a)1.e Mulches: Seeded Areas, Bonded Fiber Matrix

Last Revised: 10/28/2021

Product	Name	Ref. No.
CARPF 15 Carolina Precision Fibers, Inc., 145 Factory Street, Rhonda, NC 28670 http://www.carolinafibers.com/		
Polymer or Hydrocolloid Binder Matrix	Mulch and Grow BFM	2014-008Q
EMSAL 15 E M Sales, LLC, 212 East High Street, Suite 102, Pottstown, PA 19464 http://emsalesllc.com/		
Polymer or Hydrocolloid Binder Matrix	Fibre Mat	1997-133
HSTRAW15 HydroStraw, LLC, 22110 South State Route 27, Rockford, WA 99030 https://www.hydrostraw.com/		
Polymer or Hydrocolloid Binder Matrix <i>Conditionally Approved as an alternate.</i>	HydroStraw® Bonded Fiber Matrix (BFM)	2012-155
Polymer or Hydrocolloid Binder Matrix <i>Conditionally Approved as an alternate.</i>	HydroStraw® Guar Plus	2012-154
MATNU 15 Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/ Facility Mat-NuWood, LLC 811 Price Place Lenoir, NC 28645		
Polymer or Hydrocolloid Binder Matrix	Spray Guard	2018-269Q



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Section 805: Mulching

805.2(a)1.e Mulches: Seeded Areas, Bonded Fiber Matrix

Last Revised: 10/28/2021

Product	Name	Ref. No.
MATTT 15 Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/		
Polymer or Hydrocolloid Binder Matrix	Bindex BFM	2011-074QB
Polymer or Hydrocolloid Binder Matrix <i>Provisionally Approved</i>	Flex Guard	2010-004Q
Polymer or Hydrocolloid Binder Matrix	Soil Guard	1996-046
PROFP 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Plant 219 Simpson Street SW Conover, NC 28613		
Polymer or Hydrocolloid Binder Matrix <i>Provisionally Approved</i>	EcoSolutions EcoAegis® BFM	2016-100Q
Polymer or Hydrocolloid Binder Matrix	EcoSolutions EcoFlex™ HP-FGM™	2016-111Q
Polymer or Hydrocolloid Binder Matrix <i>Conditionally approved as an alternate.</i>	EcoSolutions EcoMatrix™ (EFM)	2016-110
Polymer or Hydrocolloid Binder Matrix	Flexterra HP-FGM	1998-153
Polymer or Hydrocolloid Binder Matrix <i>Provisionally Approved</i>	Hydro-Blanket	2006-003Q
Polymer or Hydrocolloid Binder Matrix <i>Conditionally Approved as an alternate.</i>	ProMatrix EFM	2014-262M
TENSR 15 Tensar International Corporation, 7265 AL Highway 9S, Centre, AL 35960 http://www.tensarcorp.com/ <i>Formerly Mulch and Seed Innov. (MULSI)</i>		
Polymer or Hydrocolloid Binder Matrix <i>Conditionally Approved as an alternate.</i>	HydraCX2 Extreme Slope Matrix	2009-066
Polymer or Hydrocolloid Binder Matrix <i>Also: Ground Control HY-C3 High Performance Conditionally Approved as an alternate.</i>	Hydro CM Hydraulically-Applied Mulch	2011-133
TERRN 15 LSC Environmental Products, LLC, 2930 Patton Way, Bakersfield, CA 93308 http://www.lscenv.com/ <i>(Formerly Terra Novo, Inc.)</i>		
Polymer or Hydrocolloid Binder Matrix	EarthGuard Fiber Matrix	2013-053Q



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Section 805: Mulching

805.2(a)1.e Mulches: Seeded Areas, Bonded Fiber Matrix

Last Revised: 10/28/2021

Product	Name	Ref. No.
USGY1 15 USG, United States Gypsum Company, 550 West Adams Street, Chicago, IL 60601 https://www.usg.com/ Gypsum Binder Matrix	Airtrol Geobinder	1994-114

805.2(a)2 Mulches: Planting and Other Areas

Last Revised: 8/14/2015

Product	Name	Ref. No.
L&W-D 15 L & W Demolition Company, 2224 Paxton Street, Rear, Harrisburg, PA 17111 http://lwdemolition.com/ Shredded Bark		1991-029
LAUVS 15 Laurel Valley Soils, P.O. Box 640, Avondale, PA 19311 http://laurelvalleysoils.com/ Spent Mushroom Compost	LVS Horticultural Compost	2003-013Q
	Spent Mushroom Compost	LVS Premium Compost	2003-013Q

805.2(b) Mulch Binders

Last Revised: 2/8/2021

Wood Fiber [See 805.2(a)1.c]

Product	Name	Ref. No.	
AMEE0 15 American Excelsior Company, 850 Avenue H East, Arlington, TX 76011 http://americanexcelsior.com/ Nonasphaltic Emulsion	AM-TAC	1990-278	
CARPF 15 Carolina Precision Fibers, Inc., 145 Factory Street, Rhonda, NC 28670 http://www.carolinafibers.com/ Recycled Cellulose Fiber	Mulch and Grow Hybrid 70/30 Blend	2010-007Q	
	Recycled Cellulose Fiber	Mulch and Grow Premium Cellulose	2010-006Q
	Recycled Cellulose Fiber/Wood Fiber Mixture	PF Wood Blend 70/30 Mulch	2004-077Q
EMSAL 15 E M Sales, LLC, 212 East High Street, Suite 102, Pottstown, PA 19464 http://emsalesllc.com/ Nonasphaltic Emulsion	Mulchmate Hydro Tac	1987-187	
	Recycled Cellulose Fiber	Quickseed	1987-187



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Section 805: Mulching

805.2(b) Mulch Binders

Last Revised: 2/8/2021

Wood Fiber [See 805.2(a)1.c]

Product	Name	Ref. No.
MATTT 15 Mat, Inc., 12402 Highway 2, Floodwood, MN 55736 https://www.matinc.biz/		
Recycled Cellulose Fiber	Mat Blend	1992-150A
Recycled Cellulose Fiber	Mat Blend Plus	1992-150B
Recycled Cellulose Fiber/Wood Fiber Mixture	Bindex Blend WT	2011-074QC
PINNA 15 Pinnacle Industries, 160 Wilber Placw, Bohemmia, NY 11716 http://pinnacleindustriesltd.com/en/home		
Recycled Cellulose Fiber	Evergreen Fiber Mulch	1994-013
PLWBC 15 Plant Wise Biostimulant Company, 1402 West Main Street, Louisville, KY 40203-1328 http://www.plant-wise.com/		
Nonasphaltic Emulsion	TAC-L	2001-082Q
PROFP 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Plant 219 Simpson Street SW Conover, NC 28613		
Nonasphaltic Emulsion	Contack	1990-280
PROFT 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Plant Limestone, TN		
Recycled Cellulose Fiber <i>Formerly known as SoilCover Cellulose (2014-163Q) & Terra-Mulch Cellulose (2014-064Q)</i>	Profile Cellulose Fiber	2014-163Q
Recycled Cellulose Fiber	Tornado Tack ST-1000	2015-032Q
RANTC 15 Rantec Corporation, 17 Kukuchka Lane, P.O. Box 729, Ranchester, WY 82839 http://www.ranteccorp.com/		
Nonasphaltic Emulsion	HF5000 Tack	2012-211
TURGD 15 Turf Guard Manufacturing, Inc., 489 Sweet Valley Road, Hunlock Creek, PA 18621 Plant West Nanticoke, PA 18634		
Nonasphaltic Emulsion	Earth Bond	2002-017Q

805.2(c) Mulch Control Netting

Last Revised: 5/27/2015



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Section 805: Mulching

805.2(c) Mulch Control Netting

Last Revised: 5/27/2015

Product	Name	Ref. No.
BELTN 15 Belton Industries, P.O. Box 127, Belton, SC 29627 http://www.beltonindustries.com/ Coconut Coir Netting	Dekowe Geonet	----
TENX0 15 Tenax Corporation, 4800 East Monument Street, Baltimore, MD 21205 http://www.tenaxus.com/ Plastic Netting	Ornex LM	1999-036Q

805.2(d) Weed Barrier and Weed Control Mats

Last Revised: 1/18/2024

Product	Name	Ref. No.
HANG0 15 Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/ Weed Barrier Mat	Terra Tex NO3	1996-125
..... Weed Barrier Mat	Terra Tex NO4	1986-295
..... Weed Barrier Mat	Terra Top WC	----
REEMA 15 Berry Global, Inc., 70 Old Hickory Boulevard, Old Hickory, TN 37138-3651 http://www.typargeosynthetics.com <i>(Formerly known as Fiberweb, Inc. and Reemay, Inc.)</i> Weed Control Mat	Biobarrier II	1994-304
TCGEO 15 SOLMAX, 365 South Holland Drive, Pendergrass, GA 30567 https://www.solmax.com/en/ams/products/mirafi Plant Pendergrass, GA & Cornelia, GA <i>Formerly TenCate Geosynthetics</i> Weed Control Mat	MIRAFI 135N	2022-186Q



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Section 805: Mulching

805.2(d) Weed Barrier and Weed Control Mats

Last Revised: 1/18/2024

Product	Name	Ref. No.
THRL1 15 Thrace-LINQ, Inc., 2550 West 5th North Street, Summerville, SC 29483-9699 http://thracelinq.com/		
Weed Barrier Mat <i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of 125EX.</i>	125EX	1999-120Q
Weed Barrier Mat <i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of GTF 200 WBM.</i>	GTF 200 WBM	1991-329
Weed Barrier Mat <i>Effective April 24, 2020, Thrace-LINQ, Inc. ceased manufacturing operations in the United States. Distributors may continue to supply remaining supply of GTF 200S.</i>	GTF 200S	1994-197



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 806: Rolled Erosion Control Products (RECPs)

For contracts let on or after April 7th, 2017 (Pub 408, 2016 Change No. 2), temporary and permanent Rolled Erosion Control Products (RECPs) are project-specific, locally approved materials.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 806 for specification requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.

Use of any product listed in this Section is ultimately subject to County Conservation District (DEP's representatives) oversight and acceptance for project field conditions.



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Section 808: Plants, Planting and Transplanting

808.2(a)6 Bare Root (BR) Plants

Last Revised: 3/18/2015

Product	Name	Ref. No.
HORTA 15 Horticultural Alliance, Inc., P.O. Box 5744, Sarasota, FL 34239 http://www.horticulturalalliance.com/		
Superconcentrated Water Absorbent Gel	Horta-Sorb SM	1998-161

808.2(c) Fertilizer

Last Revised: 3/18/2015

Product	Name	Ref. No.
UNIUF 15 U.F.I., 205 Caulfield Avenue, Deptford, NJ 08096 http://www.ufi.org/		
Fertilizer	The Unique Feeder, 16-8-16 Packet 4 oz.	-----

808.2(f) Soil Amendments

Last Revised: 5/10/2017

Product	Name	Ref. No.
HORTA 15 Horticultural Alliance, Inc., P.O. Box 5744, Sarasota, FL 34239 http://www.horticulturalalliance.com/		
Mycorrhizal Inoculation (Trees)	Diehard Transplant	1998-179
Water Absorbent Polymer	Horta-Sorb LG	1998-160
LAUVS 15 Laurel Valley Soils, P.O. Box 640, Avondale, PA 19311 http://laurelvalleysoils.com/		
Spent Mushroom Soil Compost	LVS Horticultural Compost	2003-014Q
Spent Mushroom Soil Compost	LVS Premium Compost	2003-014Q
PLTHC 15 Plant Health Care, Inc., 440 William Pitt Way, Pittsburgh, PA 15238 http://www.planthealthcare.com/		
Mycorrhizal Inoculation (Bare Root Seedlings and Transplants)	Mycor Tree Root Dip	1998-167
Mycorrhizal Inoculation (Trees)	Mycor Tree Saver	1998-166



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Section 808: Plants, Planting and Transplanting

808.2(f) Soil Amendments

Last Revised: 5/10/2017

Product	Name	Ref. No.
PROFP 15 Profile Products, LLC, 750 W. Lake Cook Road, Suite 440, Buffalo Grove, IL 60089 http://www.profileproducts.com/ Plant 219 Simpson Street SW Conover, NC 28613	Paper Mill Compost ProGanics™ Biotic Soil Media™ (BSM™) <i>Conditionally approved as an alternate. The required soil testing and interpretation will be performed by Profile Products. Contractor must adhere to the manufacturer's usage and application guidelines.</i>	2016-128
UAJA- 15 University Area Joint Authority, 1576 Spring Valley Road, State College, PA 16801 http://uaja.com/	Sewage Sludge Compost UAJA Compost	1993-141

808.2(g)3 Collar Strap Attachments

Last Revised: 3/18/2015

Product	Name	Ref. No.
KESLK 15 Keslick and Son, 214 North Penn Street, West Chester, PA 19380	Collar Strap Attachment CambGuards	1996-033
NEPTC 15 Neptco, Inc., 30 Hamlet Street, Pawtucket, RI 02861 http://www.neptco.com/	Collar Strap Attachment ArborTie	1995-277

808.2(i) Time-Release Water

Last Revised: 3/18/2015

Product	Name	Ref. No.
DRIWA 15 Driwater, Inc., 50 Old Court House Square, Suite 606, Santa Rosa, CA 95404 http://driwater.com/	Time-Release Water Driwater	1995-186



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Section 855: Pumped Water Filter Bag

855.2(a) Pumped Water Filter Bag

Last Revised: 9/28/2021

Pumped Water Filter Bag: [Standard Drawing of Dewatering Devices RC-75M \(Pub 72M\)](#)

Product	Name	Ref. No.
ENVGE 15 Environmental Geosynthetics, 1314 State Road, Coopersburg, PA 18036 http://www.environmentalgeosynthetics.com/ Filter Bag	The Protector 1515 10 oz Sediment Filter Bag	2005-036Q
HANG1 15 Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101 http://hanesgeo.com/ Plant Gastonia, NC Filter Bag	FilterBag 1515P	2016-191
INDVA 15 Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 http://www.iviindustries.com/index.html Filter Bag	IVI 1515 Sediment Filter Bag	2001-020Q
JOHNS 15 Johnston-Morehouse Dickey Company, 5401 Progress Boulevard, P.O. Box 173, Bethel Park, PA 15102 http://www.jmdcompany.com/ Filter Bag	Enviro-Protection Filter Bag (15' x 15')	1997-122
ROBER 15 Frank Roberts and Sons, Inc., 1130 Robertsville Road, Punxsutawney, PA 15767 http://www.frankrobertsandsons.com/ Filter Bag	FB-3 Filter Bag	1995-019Q
USFAB 15 US Fabrics, Inc., 3904 Virginia Avenue, Cincinnati, OH 45227 https://www.usfabricsinc.com/ Filter Bag	US 300NW	2020-193Q
WINFB 15 Willacoochee Industrial Fabrics Inc, 1 Nashville Mills Road, P.O. Box 457, Nashville, GA 31639 https://www.winfabusa.com Plant 769 West Main Street Willacoochee, GA 31650 Filter Bag	DWB10	2016-187Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 857: Concrete Block Retement Systems

857.2 Concrete Block Retement Systems

Last Revised: 10/19/2017

Product	Name	Ref. No.
BETPR 15 Bethlehem Precast, Inc., 835 East North Street, Bethlehem, PA 18017 http://www.bethlehemprecast.com/		
Precaster, Concrete Block Retement System <i>Licensors: International Erosion Control Systems</i>	Cable Concrete	1999-142Q
YORKB 15 York Building Products, Inc., 1020 North Hartley Street, York, PA 17404 http://www.yorkbuilding.com/		
Precaster, Concrete Block Retement System <i>Licensors: ARMORTEC Erosion Control Solutions (Contech Engineered Solutions)</i>	A-Jacks	2000-190Q
Precaster, Concrete Block Retement System <i>Licensors: ARMORTEC Erosion Control Solutions (Contech Engineered Solutions)</i>	ArmorFlex	2000-188Q
Precaster, Concrete Block Retement System <i>Licensors: ARMORTEC Erosion Control Solutions (Contech Engineered Solutions)</i>	ArmorLoc	2000-189Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 860: Storm Inlet Protection

860.2(a) Inlet Filter Bag

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of the material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 860 for specification and documentation requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.

860.2(b) Concrete Block/Gravel Inlet Protection for Type M, S, or C Inlets

Last Revised: 11/7/2018

Product	Name	Ref. No.
MKB-1 15 MKB Company, 83 Central Penn Avenue, Belleville, PA 17004 https://www.mkbcompany.com/		
Frame & Filter Assembly <i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines.</i> <i>* Shall only be used for inlets at grade level.</i> <i>* Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed. Blackhawk Inlet Filter Mat Product Specifications and Installation/Maintenance Procedure</i>	Black Hawk Inlet Filter Mat 2'X4' Type-C	2018-131
Frame & Filter Assembly <i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines.</i> <i>* Shall only be used for inlets at grade level.</i> <i>* Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed. Blackhawk Inlet Filter Mat Product Specifications and Installation/Maintenance Procedure</i>	Black Hawk Inlet Filter Mat 2'X4' Type-M	2018-131



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Section 860: Storm Inlet Protection

860.2(b) Concrete Block/Gravel Inlet Protection for Type M, S, or C Inlets

Last Revised: 11/7/2018

Product	Name	Ref. No.
SILTS 15	SILT-SAVER, INC, 1094 CULPEPPER DRIVE, CONYERS, GA 30094-0000	
Frame & Filter Assembly <i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines. * Shall only be used for inlets at grade level which are not adjacent to a curb or gutter. * Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed.</i>	R-100A-DOT (Round)	2013-057
Frame & Filter Assembly <i>Conditionally Approved as an alternate to stone filter inlet protection. * Shall be installed and used per manufacturer's specifications and guidelines. * Shall only be used for inlets at grade level which are not adjacent to a curb or gutter. * Shall not be placed where ponding water or inlet protection may be hazardous to vehicular traffic. If a PennDOT Representative determines the use of this product poses a safety hazard on location of inlet, its project use will not be allowed.</i>	S-200A-DOT (Square)	2013-057



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 865: Silt Barrier Fence

865.2 Geotextile Silt Fence Fabricators

Last Revised: 1/31/2020

Fabricate according to [Standard Drawing RC-70M \(Publication 72M\)](#)

30" Fence Requires Mesh Support. Maximum Post Spacing is 8 feet for Fence using Class 3, Type A Geotextile. Maximum Post Spacing is 4 feet for Fence using Class 3, Type B Geotextile.

Product	Name	Geotextile Type	Max Post Spacing	Ref. No.
ACF-1 15	Ferguson Enterprises LLC dba ACF Environmental, 2831 Cardwell Road, Richmond, VA 23234	https://www.fergusongss.com/		
Silt Barrier Fence, 18" Height	PD3A18100	Class 3, Type A	8	2004-099Q
Silt Barrier Fence, 18" Height	PD3B18052	Class 3, Type B	4	2004-100Q
Silt Barrier Fence, 30" Height	PD3A30100	Class 3, Type A	8	2004-101Q
<i>With Approved Mesh</i>				
Silt Barrier Fence, 30" Height	PD3B30052	Class 3, Type B	4	2004-102Q
<i>With Approved Mesh</i>				
AMEE0 15	American Excelsior Company, 850 Avenue H East, Arlington, TX 76011	http://americanexcelsior.com/		
Silt Barrier Fence, 18" Height	Silt Fence	Class 3, Type B	4	1989-155A
HANG0 15	Hanes Geo Components, 815 Buxton Street, Winston-Salem, NC 27101	http://hanesgeo.com/		
Silt Barrier Fence, 18" Height	IKEX 244B36 3B	Class 3, Type B	4	2004-172QA
Silt Barrier Fence, 18" Height	IKEX 248B36 3A	Class 3, Type A	8	2004-172QB
Silt Barrier Fence, 18" Height	P-Fence 303A	Class 3, Type A	8	1991-390
Silt Barrier Fence, 18" Height	P-Fence 303B	Class 3, Type B	4	1991-391
Silt Barrier Fence, 30" Height	IKEX 368B48 3A	Class 3, Type A	8	2004-171QA
<i>With Approved Mesh</i>				
Silt Barrier Fence, 30" Height	IKEX 368B48 3B	Class 3, Type B	4	2004-171QB
<i>With Approved Mesh</i>				
Silt Barrier Fence, 30" Height	P-Fence 423AM	Class 3, Type A	8	1991-392
<i>With Approved Mesh</i>				
Silt Barrier Fence, 30" Height	P-Fence 423BM	Class 3, Type B	4	1991-393
<i>With Approved Mesh</i>				
INDVA 15	Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904	http://www.iviindustries.com/index.html		
Silt Barrier Fence, 18" Height	1813-PA	Class 3, Type B	4	2001-019QA
Silt Barrier Fence, 30" Height	3013-PA	Class 3, Type B	8	2001-019QB
<i>With Approved Mesh</i>				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 865: Silt Barrier Fence

865.2 Geotextile Silt Fence Fabricators

Last Revised: 1/31/2020

Fabricate according to [Standard Drawing RC-70M \(Publication 72M\)](#)

30" Fence Requires Mesh Support. Maximum Post Spacing is 8 feet for Fence using Class 3, Type A Geotextile. Maximum Post Spacing is 4 feet for Fence using Class 3, Type B Geotextile.

Product	Name	Geotextile Type	Max Post Spacing	Ref. No.
JOHNS 15	Johnston-Morehouse Dickey Company, 5401 Progress Boulevard, P.O. Box 173, Bethel Park, PA 15102 http://www.jmdcompany.com/			
Silt Barrier Fence, 18" Height	JMD 3A	Class 3, Type A	8	1990-135
Silt Barrier Fence, 18" Height	JMD 3B	Class 3, Type B	4	1988-159
Silt Barrier Fence, 18" Height <i>With Approved Mesh</i>	JMD 3B	Class 3, Type B	8	1990-082
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	JMD 3A	Class 3, Type A	8	2001-089Q
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	JMD 3B	Class 3, Type B	4	1988-282
MKB-1 15	MKB Company, 83 Central Penn Avenue, Belleville, PA 17004 https://www.mkbcompany.com/			
Multi-layer Geotextile Filter Fence <i>Conditionally approved per manufacturer's specifications as an alternate to Class 3, Type A.</i>	SILTRON			2018-229Q
MUTAL 15	Mutual Industries, 707 West Grange Street, Philadelphia, PA 19120 http://www.mutualindustries.com/			
Silt Barrier Fence, 18" Height	PA DOT 3B18	Class 3, Type B	4	1994-156A
Silt Barrier Fence, 18" Height <i>With Approved Mesh</i>	PA DOT 3B18	Class 3, Type B	4	1994-156B
Silt Barrier Fence, 30" Height	PA DOT 3B30	Class 3, Type B	4	1994-156C
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	PA DOT 3B30	Class 3, Type B	4	1994-156D



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Section 865: Silt Barrier Fence

865.2 Geotextile Silt Fence Fabricators

Last Revised: 1/31/2020

Fabricate according to [Standard Drawing RC-70M \(Publication 72M\)](#)

30" Fence Requires Mesh Support. Maximum Post Spacing is 8 feet for Fence using Class 3, Type A Geotextile. Maximum Post Spacing is 4 feet for Fence using Class 3, Type B Geotextile.

Product	Name	Geotextile Type	Max Post Spacing	Ref. No.
ROBER 15 Frank Roberts and Sons, Inc., 1130 Robertsville Road, Punxsutawney, PA 15767 http://www.frankrobertsandsons.com/				
Silt Barrier Fence, 18" Height <i>With Approved Mesh</i>	FR 110-278M	Class 3, Type B	8	1988-125
Silt Barrier Fence, 18" Height	FR 180-304 Blue	Class 3, Type B	4	1991-372
Silt Barrier Fence, 18" Height	FR 400-308 White	Class 3, Type A	8	1991-370
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	FR 180-424M Black	Class 3, Type B	4	1991-373
Silt Barrier Fence, 30" Height <i>With Approved Mesh</i>	FR 400-428M Red	Class 3, Type A	8	1991-371



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**Posted:
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Section 867: Compost Filter Sock

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 867 for specification and documentation requirements. Submit for local approval by the Representative all required information for the material, as indicated in the specification.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Section 868: Compost Blanket and Compost Filter Berm

Project-Specific, Locally Approved Material.

In accordance with Publication 408, Section 106.02(a)2.c, a material specified for use in this Section is defined as a Project-Specific, Locally Approved Material.

PennDOT does not require manufacturers of Project-Specific, Locally Approved Materials to submit a Product Evaluation Application) for approval and listing of their material(s) in Bulletin 15. Project-Specific, Locally Approved Materials are not listed in Bulletin 15.

Contractors proposing to use materials that meet the specification requirements must list them on Form CS-200 (Source of Supply-Materials) and submit them for local approval by the Representative (i.e. at the District or project level). Refer to Publication 408, Section 868 for specification and documentation requirements.

Also refer to the Project Specific, Locally Approved Materials section (Section 106) of Bulletin 15 for a complete listing of Publication 408 Sections that fall within this category.



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Posted:
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Section 874: Temporary Riser Pipe Assembly

874.2(d) Trash Rack and Anti-Vortex Device

Last Revised: 9/19/2017

See [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Ref. No.
LANE2 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 682 Quaker Valley Road Bedford, PA 15522	
	Trash Rack and Anti-Vortex Device	2002-050Q
LANE3 15 Plant	Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143	
	Trash Rack and Anti-Vortex Device	2002-049Q
LANE4 15 Plant	Lane Enterprises, Inc, 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 http://www.lane-enterprises.com/ 377 Crooked Lane King of Prussia, PA 19406	
	Trash Rack and Anti-Vortex Device	2002-068Q
MANWF_1 5	Mann Welding & Fabrication LLC, 2755 Schukraft Road, Quakertown, PA 18951	
	Trash Rack and Anti-Vortex Device	2014-061Q
MORGA 15	Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067	
	Trash Rack and Anti-Vortex Device	2017-058Q



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Section 875: Concrete Outlet Structure

875.2(c) Trash Rack

Last Revised: 9/20/2017

See [Standard Drawing RC-71M \(Publication 72M\)](#)

Product	Name	Ref. No.
LANE2 15 Plant Lane Enterprises, Inc., 3905 Hartzdale Drive, Camp Hill, PA 17011 682 Quaker Valley Road Bedford, PA 15522 Trash Rack	http://www.lane-enterprises.com/	2002-050Q
LANE3 15 Plant Lane Enterprises, Inc., 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 Long Span Bridge & Culvert Structural Plate, Gabion Baskets 8271 Mercer Street, P.O. Box 345 Pulaski, PA 16143 Trash Rack	http://www.lane-enterprises.com/	2002-049Q
LANE4 15 Plant Lane Enterprises, Inc, 3905 Hartzdale Drive, Suite 514, Camp Hill, PA 17011 377 Crooked Lane King of Prussia, PA 19406 Trash Rack	http://www.lane-enterprises.com/	2002-068Q
MANWF_1 5 Mann Welding & Fabrication LLC, 2755 Schukraft Road, Quakertown, PA 18951 Trash Rack		2014-061Q
MORGA 15 Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067 Trash Rack		2017-058Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Arrow Panel

Last Revised: 4/28/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
AMIDA 15 Amida Industries, Inc., P. O. Box 3147, Rock Hill, SC 29731						
Arrow Panel	DL25-FACH-DLO/4		Trailer	Diesel	48x96	1983-134
Arrow Panel	DLB-15-FACH-E900		Trailer	Battery	48x96	1989-079
Arrow Panel	DLB-25-FACH-E900		Trailer	Battery	48x96	1989-091
Arrow Panel	DLSB-15-ODLX4650		Trailer	Battery	48x96	1993-164
BEMIS 15 Bemis Division, Allmand Brothers, Inc., P.O. Box 888, Holdrege, NE 68949 https://www.bemis.com/						
Arrow Panel	2200/SE	AB-7	Trailer	Solar Battery	48x96	1992-094
	<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>					
Arrow Panel	96-SER-3-F-S "Ellipse"	AB-7				1996-178
	<i>Retrofit kit for 2200/SE.</i>					
Arrow Panel	KO25CTA	AB-7	Trailer	Gas	48x96	----
Arrow Panel	LI25CTA	AB-7	Trailer	Diesel	48x96	----
Arrow Panel	LO25CTA	AB-7	Trailer	Diesel	48x96	----
Arrow Panel	PE25CTA	AB-7	Trailer	Diesel	48x96	----
COLEM 15 Coleman Engineering, 1020 South Bellevue, Memphis, TN 38106 http://www.coleman-engineering.com/						
Arrow Panel	AB-15		Trailer	Diesel	48x96	1989-092
CROCE 15 Crown Construction Equipment, 330 Saulteaux Cres., Winnipeg, Manitoba Canada http://www.crownequip.com/						
Arrow Panel	AB15	AB-27	Trailer	Solar Battery	48x96	----
Arrow Panel	AB25	AB-27	Trailer	Solar Battery	48x96	----
FEDER 15 Federal Construction Products, 2645 Federal Sign Dr., University Park, IL 60466						
Arrow Panel	RW-1FA		Trailer	Diesel	48x96	1988-169
HI-TE 15 Hi-Tech Enterprises, Inc., Pinellas Park, FL 33782 http://hitechenterprises.com/						
Arrow Panel	Arrow Plus		Trailer	Solar Battery	48x96	1992-068
	<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>					
Arrow Panel	S-15/184		Trailer	Solar Battery	48x96	1992-068



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Section 901: Maintenance and Protection of Traffic During Construction

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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
HI-VU 15	Hi-Vu, Inc., 1000 E. 9th Street, Indianapolis, IN 46202					
Arrow Panel	AO2413		Vehicle	Vehicle (12V)	24x48	1985-100
Arrow Panel	AO3060-15		Vehicle	Vehicle (12V)	30x60	1985-101
Arrow Panel	AO3615		Vehicle	Vehicle (12V)	36x72	1985-103
Arrow Panel	AO4815		Vehicle	Vehicle (12V)	48x96	1985-104
Arrow Panel	AO4815DTM-E		Vehicle	Battery	48x96	1985-105
Arrow Panel	TM4815CD		Trailer	Diesel	48x96	1985-108
Arrow Panel	TM4815CE		Trailer	Battery	48x96	1985-109
Arrow Panel	TM4815CG		Trailer	Gas	48x96	1985-110
Arrow Panel	TM4815SD		Trailer	Diesel	48x96	1985-111
Arrow Panel	TM4815SE		Trailer	Battery	48x96	1985-112
Arrow Panel	TM4815SG		Trailer	Gas	48x96	1985-113
Arrow Panel	TM4825SD		Trailer	Diesel	48x96	----
Arrow Panel	TM4825SE		Trailer	Battery	48x96	----
Arrow Panel	TM4825SG		Trailer	Gas	48x96	----
KKSYS 15	K & K Systems, 687 Palmetto Road, Tupelo, MS 38801 http://k-ksystems.com/					
Arrow Panel	KKAB5025	AB-28	Trailer	Solar Battery	48x96	----
NATSG 15	National Signal, Inc., 2440 Artesia Avenue, Fullerton, CA 92833 http://www.nationalsignalinc.net/					
Arrow Panel	Aro-Lite 15L100W TM	AB-26	Trailer	Solar Battery	48x96	----
Arrow Panel	DDP 244813L	AB-26	Vehicle	Vehicle (12V)	24x48	-----
Arrow Panel	DDP 306013L VM	AB-26	Vehicle	Vehicle (12V)	30x60	-----
Arrow Panel	DDP 306015L VM	AB-26	Vehicle	Vehicle (12V)	30x60	-----
Arrow Panel	DDP 367215L VM	AB-26	Vehicle	Vehicle (12V)	36x72	-----
Arrow Panel	DDP 489615L VM	AB-26	Vehicle	Vehicle (12V)	48x96	-----
Arrow Panel	Sun-Up 15L100W TM	AB-26	Trailer	Solar Battery	48x96	----



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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032						
Arrow Panel	M-90 Series	AB-2	Trailer	Solar Battery	48x96	----
	<i>See the M-90 Series (M90EZ17) product listing under WORKA15.</i>					
Arrow Panel	PEVM-6030-15		Vehicle	Vehicle (12V)	30x60	1992-349
	<i>See the PEVM-6030-15 product listing under WORKA15.</i>					
Arrow Panel	PFAW-M-72	AB-2	Trailer	Diesel	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M-78	AB-2	Trailer	Diesel	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M-78-25	AB-2	Trailer	Diesel	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M-85-25	AB-2	Trailer	Diesel	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M-85-FA	AB-2	Trailer	Diesel	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M-FA-SA	AB-2	Trailer	Diesel	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M90-SKMT	AB-2	Vehicle with Skid	Battery	48x96	----
Arrow Panel	PFAW-M93-SA		Trailer with Skid	Solar Battery	48x96	1995-101
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFAW-M93-SA (M90-D)		Trailer	Solar Battery	48x96	1995-170
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFEL-M-78	AB-2	Trailer	Battery	48x96	----
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFEL-VM-87		Vehicle	Vehicle (12V)	36x72	1987-110
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>					
Arrow Panel	PFVM-80-13		Vehicle	Vehicle (12V)	24x48	1981-063



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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032						
<i>This arrow panel model is no longer being manufactured, but may be in use.</i>						
Arrow Panel	PFVM-80-15		Vehicle	Vehicle (12V)	24x48	1982-069
<i>See the PFVM-80-15 product listing under WORKA 15.</i>						
Arrow Panel	PFVM-SB-15	AB-2	Vehicle	Vehicle (12V)	24x48	-----
<i>This arrow panel model is no longer being manufactured, but may be in use.</i>						
SERV 15 Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041						
Arrow Panel	1950-A	AB-18	Trailer	Gas	48x96	-----
Arrow Panel	1950-A-D	AB-18	Trailer	Diesel	48x96	-----
Arrow Panel	1950-ACHAS	AB-18	Trailer	Gas	48x96	-----
Arrow Panel	1950-ACHAS-D	AB-18	Trailer	Diesel	48x96	-----
Arrow Panel	1953-A-D	AB-18	Trailer	Diesel	48x96	-----
Arrow Panel	1955-Trailer Train	AB-18	Trailer	Diesel	48x96	-----
Arrow Panel	3000-AH	AB-18	Vehicle	Vehicle (12V)	24x48	-----
Arrow Panel	3001-A	AB-18	Vehicle	Vehicle (12V)	36x72	-----
Arrow Panel	3001-ACHAS	AB-18	Vehicle	Vehicle (12V)	36x72	-----



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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
SOLAT 15 Solar Technology, Inc., 7620 Cetronia Road, Allentown, PA 18106 http://solartechnology.com/						
Arrow Panel	AB-0515-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-0525		Trailer	Solar Battery	48x96	2015-095Q
Arrow Panel	AB-0715-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-1015-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-1515-D (LED)		Trailer	Solar Battery	48x96	1996-251
Arrow Panel	AB-2015		Trailer	Solar Battery	48x96	1992-041
<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>						
Arrow Panel	AB-2015 (WB)		Trailer	Solar Battery	48x96	1992-269
Arrow Panel	AB-2025		Trailer	Solar Battery	48x96	1992-041
<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>						
Arrow Panel	AB-2025 (WB)		Trailer	Solar Battery	48x96	1992-268
Arrow Panel	AT-0515	AB-20	Vehicle	Solar Battery	48x96	----
Arrow Panel	AT-0715	AB-20	Vehicle	Solar Battery	48x96	----
SUNEL 15 Sunshine Electronic Display Company, 501 Sylvania Street, St. Joseph, MO 64501 http://sunshine.us.com/						
Plant	St. Joseph, MO 64501					
Arrow Panel	AWD		Trailer	Diesel	48x96	1984-166
<i>Includes a 66"x112" message sign on the back of the arrow panel. Approved as a combination portable changeable message sign and 48"x96" arrow panel.</i>						



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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
SUPSG 15 Superior Signals Inc., 16355 South Lone Elm Road, Olathe, KS 66062 http://www.superiorsignals.com/						
Arrow Panel	SY382 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	SY382 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	SY382 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	SY3900 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	SY3900 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	SY3900 (15 or 25 lamps only)	AB-29	Vehicle	Vehicle (12V)	36x72	----



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Section 901: Maintenance and Protection of Traffic During Construction

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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/						
Arrow Panel	MB1-13		Vehicle	Vehicle (12V)	24x48	1984-214
Arrow Panel	MB1-15		Vehicle	Vehicle (12V)	24x48	1984-214
Arrow Panel	MB3-15		Vehicle	Vehicle (12V)	30x60	1988-142
Arrow Panel	MB3-15 Pulsar	AB-1	Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	MB4-15		Vehicle	Vehicle (12V)	36x72	1991-272
Arrow Panel	MB4-15 Pulsar	AB-1	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	MB4-25		Vehicle	Vehicle (12V)	36x72	1991-251
Arrow Panel	MB4-25 Pulsar	AB-1	Vehicle	Vehicle (12V)	36x72	----
Arrow Panel	MB5-15		Vehicle	Diesel	48x96	1995-163
Arrow Panel	MB5-15 Pulsar	AB-1	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	MB5-25		Vehicle	Diesel	48x96	1995-164
Arrow Panel	MB5-25 Pulsar	AB-1	Vehicle	Vehicle (12V)	48x96	----
Arrow Panel	TC1-15B		Trailer	Battery	48x96	----
Arrow Panel	TC1-15D		Trailer with Skid	Diesel	48x96	1984-040
Arrow Panel	TC1-15S		Trailer with Skid	Solar Battery	48x96	1995-047
Arrow Panel	TC1-25D		Trailer with Skid	Diesel	48x96	1985-186A
Arrow Panel	TC2-15D		Trailer	Diesel	48x96	1984-041
Arrow Panel	TC2-15S		Trailer	Solar Battery	48x96	1998-215
Arrow Panel	TC2-25D		Trailer	Diesel	48x96	----
Arrow Panel	TC3-15D		Trailer with Skid	Diesel	48x96	1987-354
Arrow Panel	TCI-15D Pulsar	AB-1	Trailer	Diesel	48x96	----
Arrow Panel	TCI-15S Pulsar	AB-1	Trailer	Solar Battery	48x96	----
Arrow Panel	TCI-25S Pulsar	AB-1	Trailer	Solar Battery	48x96	----
Arrow Panel	TM1-15B		Vehicle with Skid	Vehicle (12V)	48x96	----
Arrow Panel	TM1-15RS		Trailer	Solar Battery	48x96	1998-214
Arrow Panel	TM1-15S		Vehicle with Skid	Solar Battery	48x96	1995-074B



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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
TRLCM 15 Trailer Component Manufacturing, Inc., 7795 Division Drive, Mentor, OH 44060						
Arrow Panel	3060		Vehicle	Vehicle (12V)	30x60	----
Arrow Panel	7636EC/PD		Trailer	Diesel	48x96	----
Arrow Panel	7636EF/PD		Trailer	Diesel	48x96	----
Arrow Panel	D2000		Trailer	Diesel	48x96	1995-171
Arrow Panel	S6000		Trailer	Solar Battery	48x96	1995-187
USSEA 15 U. S. Seal, Inc., 281 West Sixth Street, West Wyoming, PA 18644						
Arrow Panel	2500		Trailer	Solar Battery	48x96	1990-156
<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>						
VERMI 15 VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G2G 2V2 http://www.ver-mac.com/						
Plant	4950 North Sam Houston Parkway E Houston, TX 77032					
Arrow Panel	ST-4815 (15-Light Arrow Board Panel)	AB-23	Trailer	Solar Battery	48x96	1997-155
<i>Formerly listed as model VM-95S</i>						
Arrow Panel	ST-4825 (25-Light Arrow Board Panel)	AB-23	Trailer	Solar Battery	48x96	2011-223Q



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Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
WANCN 15 Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/						
Arrow Panel	WRB4-A		Vehicle	Vehicle (12V)	24x48	1989-093E
Arrow Panel	WRB5-A		Vehicle	Vehicle (12V)	30x60	1989-093F
Arrow Panel	WRB5-SA		Vehicle	Vehicle (12V)	30x60	1989-093G
Arrow Panel	WRB5-SAC		Vehicle	Vehicle (12V)	30x60	1989-093H
Arrow Panel	WRB6-SA		Vehicle	Vehicle (12V)	36x72	1989-093J
Arrow Panel	WTB8-SA		Vehicle	Vehicle (12V)	48x96	1989-093K
Arrow Panel	WTB8-SAC		Trailer	Diesel	48x96	1989-093C
Arrow Panel	WTB8-SAC		Vehicle	Vehicle (12V)	48x96	1989-093L
Arrow Panel	WTDB8-SA		Trailer with Skid	Diesel	48x96	1989-093A
Arrow Panel	WTDB8-SAC		Trailer	Diesel	48x96	1989-093D
Arrow Panel	WTGB8-SA		Trailer	Diesel	48x96	1989-093B
Arrow Panel	WTSP110-LSA		Trailer	Solar Battery	48x96	2001-091Q
Arrow Panel	WTSP55-LSA 15 Light Display Panel, Folding Frame					
Arrow Panel	WTSP55-LSAC 25 Light Display Panel, Folding Frame		Trailer	Solar Battery	48x96	2023-024Q
Arrow Panel	WTSP75-LSA		Trailer	Solar Battery	48x96	2001-091Q
Arrow Panel	WTSV-LSA (W|ECO 15 Light Display Panel, Vertical Mast)		Trailer	Solar Battery	48x96	2018-268Q
Arrow Panel	WTSV-LSAC (W|ECO 25 Light Display Panel, Vertical Mast)		Trailer	Solar Battery	48x96	2018-277Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Arrow Panel

Last Revised: 4/28/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Arrow Panel Mou	Allow Panel Pow	Size (in)	Ref. No.
WORKA 15 Hill & Smith Inc., 987 Buckeye Park Road, Columbus, OH 43207 https://hillandsmith.com/						
Facility	Work Area Protection, A Hill & Smith Inc. Brand 2500 Production Drive St. Charles, IL 60174					
Arrow Panel	M-90 Series (M90EZ17)	AB-2	Trailer	Solar Battery	48x96	----
<i>Originally listed under the PROTE 15 supplier code (Protection Services, Inc.). The M-90 series (M90EZ17) arrow panel is manufactured in Lake City, Florida.</i>						
Arrow Panel	PEVM-6030-15		Vehicle	Vehicle (12V)	30x60	1992-349
<i>Originally listed under the PROTE 15 supplier code (Protection Services, Inc.). The 60" x 30" 15 light vehicle mount mini board is manufactured in Lake City, Florida by request.</i>						
Arrow Panel	PFVM-80-15		Vehicle	Vehicle (12V)	24x48	1982-069
<i>Originally listed under the PROTE 15 supplier code (Protection Services, Inc.). The 48" x 24" 15 light vehicle mount mini board manufactured in Lake City, Florida by request.</i>						
Arrow Panel	VMAW 2415	AB-17	Vehicle	Vehicle (12V)	24x48	1992-022
Arrow Panel	VMAW-24-15LV	AB-17	Vehicle	Vehicle (12V)	24x48	1992-330
Arrow Panel	VMAW-30-15LV	AB-17	Vehicle	Vehicle (12V)	30x60	1992-350
Arrow Panel	WAAW-100-15D	AB-17	Trailer	Diesel	48x96	1991-283
Arrow Panel	WAP-WAAW-15SB	AB-17	Trailer	Solar Battery	48x96	1990-165
<i>May be used only on stationary operations. Must be aimed every time it is set up or moved.</i>						
Arrow Panel	WAP-WAAW-15SB-II	AB-17	Trailer	Solar Battery	48x96	1993-049

901.2 Automated Flagger Assistance Device

Last Revised: 10/29/2021

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Flagger Mount	Flagger Powe	Ref. No.
INTES 15 IntelliStrobe Safety Systems, LLC, 4136 S. McCann Ct., Springfield, MO 65804					
Automated Flagger Assistance Device	W1-AG	AFAD-3	Stand Alone	Battery	2010-324Q
Automated Flagger Assistance Device	W1-AG/TM	AFAD-3	Trailer	Solar Battery	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Automated Flagger Assistance Device

Last Revised: 10/29/2021

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Flagger Mount	Flagger Powe	Ref. No.
INTES 15	IntelliStrobe Safety Systems, LLC, 4136 S. McCann Ct., Springfield, MO 65804				
Automated Flagger Assistance Device	WS1-AG/TM	AFAD-3	Trailer	Solar Battery	-----
RCFLG 15	North America Traffic Inc. (R. C. Flagman), 7 Petersburg Circle, Port Colborne, Ontario, Canada L3K 5V5 https://northamericatraffic.com/				
Automated Flagger Assistance Device	RCF 2.4	AFAD-1	Trailer	Solar Battery	-----
SAFTI 15	Safety Technologies, Inc., 28932 Highway 58 Blvd., Red Wing, MN 55066				
Automated Flagger Assistance Device	AF 76	AFAD-2	Trailer	Solar Battery	-----
Automated Flagger Assistance Device	AutoFlagger AF-54		Trailer	Solar Battery	2015-168Q
SITE2 15	Site 2020, 1505 Barrington Street, Suite 711, Halifax, Canada B2T1A4 https://site2020.com/				
Automated Flagger Assistance Device	Guardian SmartFlagger		Stand Alone	Battery	2018-133Q
SYN-1 15	Synergy Technology, LLC, PO Box 1939, Albemarle, NC 28002 http://www.noflaggers.com/				
Facility	229 Montgomery Avenue Albemarle, NC 28001				
Automated Flagger Assistance Device	Automated Flagger AF-100		Trailer	Solar Battery	2019-208Q
THOJO 15	John Thomas, Inc. (JTI), 1560 Lovett Drive, Dixon, IL 61021 http://www.jtitraffic.com/				
Automated Flagger Assistance Device	JTI Sentinel AFAD		Trailer	Battery	2018-196Q
	<i>Provisional Approval: The Bureau of Maintenance and Operations, Work Zones and Regulations Department will monitor the Sentinel AFAD's performance for a period of one year after its first project use.</i>				
VERMI 15	VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G2G 2V2 http://www.ver-mac.com/				
Plant	4950 North Sam Houston Parkway E Houston, TX 77032				
Automated Flagger Assistance Device	Flagger-Mac		Trailer	Solar Battery	2021-043Q
WANCN 15	Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/				
Automated Flagger Assistance Device	WAFD	----	Trailer	Solar Battery	2021-097Q

901.2 Drums, Nonmetallic

Last Revised: 12/27/2023

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Drums, Nonmetallic

Last Revised: 12/27/2023

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Ref. No.
CORTI 15 Cortina Safety Products, 10706 West Grand Ave., Franklin Park, IL 60131 http://www.cortinaco.com/safety-products/cortina-safety-products/			
Drums, Nonmetallic	360 Channelizer, Model 03-755-6HI	360C-1	2009-141Q
EASMI 15 Eastern Molding International, 1 Elizabeth Street, Batavia, NY 14020			
Drums, Nonmetallic	HTHD with High Density 25lb/40lb Rubber Base		2003-148Q
Drums, Nonmetallic	HTLD with Low Density 25lb/40lb Rubber Base		2003-149Q
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 https://easternmetalsignsandsafety.com/			
Drums, Nonmetallic	RoadMax 9100 Series Traffic Drum		2023-232Q
<i>This drum can be used with Type A or C style warning lights firmly affixed with vandal resistant hardware as a Category II device per FHWA Safety Eligibility Letter WZ-54 (FHWA Policy Memorandum).</i>			
LAKSD 15 Lakeside Plastics, Inc., 450 West 33rd Avenue, P.O. Box 2384, Oshkosh, WI 54903 http://www.lakesideplastics.net/index.html			
Drums, Nonmetallic <i>Provisionally Approved</i>	The Director, Model FTS 5		2002-032Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Drums, Nonmetallic

Last Revised: 12/27/2023

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Ref. No.
PLAPC 15 Facility Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958 https://plasticade.com/ 7700 North Austin Avenue Skokie, IL 60077			
Drums, Nonmetallic	B-400 HDPE Drum with Rubber Base and Light		1996-236B
<i>Manufacturer certified as 2016 AASHTO MASH compliant, including the use of warning lights attached to the drum (Certificate number PLAS-044).</i>			
Drums, Nonmetallic	B-500 Lane Changer Drum and Light		----
<i>Manufacturer certified as 2016 AASHTO MASH compliant, including the use of warning lights attached to the drum (Certificate number PLAS-045).</i>			
Drums, Nonmetallic	Commander Traffic Drum, Series 456 - HD (High Density)		2018-118Q
<i>Manufacturer certified as MASH compliant with no attachments to device. Lightweight plastic drums crash tested to NCHRP 350, Test Level 3 criteria with warning lights attached per FHWA Eligibility Letters WZ-54 & WZ-54A. NTPEP tested: TTCD-2016-01-004</i>			
Drums, Nonmetallic	Commander Traffic Drum, Series 456 - LD (Low Density)		2018-181Q
<i>Manufacturer certified as MASH compliant with no attachments to device. Lightweight plastic drums crash tested to NCHRP 350, Test Level 3 criteria with warning lights attached per FHWA Eligibility Letters WZ-54 & WZ-54A. NTPEP tested: TTCD-2016-01-005</i>			
Drums, Nonmetallic	Econocade II Drum, Series 452 High Density		2013-162QB
Drums, Nonmetallic	Econocade II Drum, Series 452 Low Density		2013-162QA
Drums, Nonmetallic	Rhino Channelizer Barrel 454 High Density	ND-13	2012-043Q
Drums, Nonmetallic	Rhino Channelizer Barrel 454 Low Density	ND-13	2012-043Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Drums, Nonmetallic

Last Revised: 12/27/2023

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Ref. No.
PLASS 15 Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/			
Facility Middlefield, OH			
Drums, Nonmetallic	LifeGard HDPE with Rubber Collar		1992-100A
Drums, Nonmetallic	LifeGard LDPE with Rubber Collar and Light		1992-100B
SERVM 15 Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041			
Drums, Nonmetallic	1500 HD Channelizer Standard with Rubber Base and Light		1991-098
Drums, Nonmetallic	1500 LD Channelizer Standard with Rubber Base and Light		1991-098
Drums, Nonmetallic	Bouncer PB-90		1991-098
Drums, Nonmetallic	PB-85 Commander, 2-piece, O		1991-098
TRFXD 15 TrafFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/			
Drums, Nonmetallic	Model 18000HDPE LW Standard with Sand Base and Light		1991-103
Drums, Nonmetallic	Model 18000HDPE Standard with Sand Base and Light		1991-102
Drums, Nonmetallic	Model 18000HDPE with Rubber Ring Ballast and Light		1995-008
Drums, Nonmetallic	Model 18000LDPE Standard with Sand Base and Light		1991-101
Drums, Nonmetallic	Model 18000LDPE with Rubber Ring Ballast and Light		1995-008



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Lane Separator Curb

Last Revised: 4/22/2021

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
IMPRS 15 Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/ Lane Separator Curb <i>FHWA Eligibility Letter: WZ-318</i> Lane Separator Curb <i>FHWA Eligibility Letter: WZ-317</i>	Tuff Curb	LSC-02	TL-3 (62 mph), MASH 2016	----
	Tuff Curb XLP	LSC-02	TL-3 (62 mph), MASH 2016	2011-112Q
PEXCO 15 PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 http://www.pexco.com/traffic Plant 3110 70th Avenue East Tacoma, WA 98424 Lane Separator Curb <i>FHWA Eligibility Letter: WZ-361</i>	FG 300 Interstate Grade (IG) Curb System		TL-3 (62 mph), MASH 2016	2007-078Q
QWICK 15 Qwick Kurb, Inc., 1916 US 41 South, Ruskin, FL 33570 http://qwickkurb.com/ Lane Separator Curb <i>FHWA Eligibility Letters: WZ-365 to WZ-379</i>	QWICK KURB Continuous Curb		TL-3 (62 mph), MASH 2016	2002-117Q
SHUR1 15 SHUR-TITE Products, 105 Tradesmens Park Drive, Hutto, TX 78634 https://shur-tite.com/traffic_products Plant Gainesville, TX & Hutto, TX Lane Separator Curb <i>FHWA Eligibility Letter: WZ-417</i>	Shur-Curb Traffic Separator		TL-3 (62 mph), MASH 2016	2021-016Q

901.2 Longitudinal Channelizing Devices

Last Revised: 1/11/2022

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters: [Work Zone Devices](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Longitudinal Channelizing Devices

Last Revised: 1/11/2022

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters: [Work Zone Devices](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
PEXCO 15 Plant	PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 3110 70th Avenue East Tacoma, WA 98424	http://www.pexco.com/traffic					
	Longitudinal Channelizing Device, Plastic Barrier	Temporary Pedestrian Access Route (TPAR) Barricade	MASH 2016		TL-3	WZ-418	2021-138Q
REMCON15 Plant	REMCON Plastics Inc., 208 Chestnut Street, Reading, PA 16902 208 Chestnut Street Reading, PA 16902	https://www.remcon.com/					
	Longitudinal Channelizing Device, Plastic Barrier ~ Guardsafe 36 Technical Drawing	Guardsafe 36	MASH 2016		TL-1	WZ-360	2019-001Q
TRFXD 15 Plant	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 160 Avenida La Pata, San Clemente, CA 92673	http://www.traffixdevices.com/					
	Longitudinal Channelizing Device, Plastic Barrier	Sentry (Water Filled Temporary)	NCHRP 350		TL-2		SCI22 2010-039Q
TRISD 15 Plant	Trident Security Devices, Inc., 1017 Prospect Avenue, Elkins Park, PA 19027 1017 Prospect Avenue, Elkins Park, PA 19027						
	Longitudinal Channelizing Device, Plastic Barrier	Roadguard/2	NCHRP 350		TL-3	WZ-255	2011-067Q
YODOK 15 Plant	Valtir, LLC, 900 Patterson Drive, Bloomsburg, PA 17815 Alliance OH & Brigham City, UT Formerly Trinity Highway Rentals, Inc.	https://www.valtir.com/					
	Longitudinal Channelizing Device, Plastic Barrier	Model 2001M					-----
	Longitudinal Channelizing Device, Plastic Barrier	Yodock 2001	MASH 2016	46"	TL-3	WZ-422	2021-203Q

901.2 Portable Changeable Message Signs (PCMS)

Last Revised: 9/8/2023



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs (PCMS)

Last Revised: 9/8/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Model Number	Pixel Display	Message Display	Board Size	Mount Device	Power Source	No. of Lines with	COA	Ref. No.
ADDC- 15 ADDCO Manufacturing, 240 Arlington Ave. E., St. Paul, MN 55117 http://www.addco.com/en/									
PCMS	BRICK	LED	Full Matrix	69x145	Trailer	Solar Battery	3		1999-024
PCMS	BRICK	LED	Full Matrix	42x84	Vehicle	Battery/Vehicle/Generator	N/A		1999-024
PCMS	DH1000 ALS	LED	3-Line	76x134	Trailer	Solar Battery	3		1995-135
AMESC 15 American Signal Company, 2755 Bankers Industrial Drive, Atlanta, GA 30360 http://www.amsig.com/frame_home.htm									
PCMS	CMS-GP-232Y	LED	Full Matrix	32x72	Vehicle	Battery/Vehicle	N/A		1999-166
PCMS	CMS-GP-432T	LED	Full Matrix	48x96	Trailer	Solar Battery	2	PS-6	-----
PCMS	CMS-GP-432Y	LED	Full Matrix	48x96	Vehicle	Battery	N/A		1996-161
PCMS	CMS-T331	LED	3-Line	79x137	Trailer	Solar Battery	3	PS-6	-----
PCMS	CMS-T333	LED	Full Matrix	79x137	Trailer	Solar Battery	3		1995-283
KKSYS 15 K & K Systems, 687 Palmetto Road, Tupelo, MS 38801 http://k-ksystems.com/									
PCMS	MB3L	LED	3-Line	74x129	Trailer	Solar Battery	3	PS-18	-----
LITSI 15 LiteSys Inc., 150 Pollywog Lane, Belgrade, MT 59714 http://www.litesys.com/									
PCMS	1030F-4	LED	Full Matrix	41x75	Vehicle	Battery/Vehicle	N/A	PS-19	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs (PCMS)

Last Revised: 9/8/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Model Number	Pixel Display	Message Display	Board Size	Mount Device	Power Source	No. of Lines with	COA	Ref. No.
SOLAT 15 Solar Technology, Inc., 7620 Cetronia Road, Allentown, PA 18106 http://solartechnology.com/									
PCMS	Silent Messenger (3-Line 8-Character)	LED	3-Line	76x126	Trailer	Solar Battery	3	PS-11	----
PCMS	Silent Messenger (MB-1548)	LED	Full Matrix	76x126	Trailer	Solar Battery	3	PS-11	----
PCMS	Silent Messenger II (MB2-1548LR)	LED	Full Matrix	54x92	Trailer	Solar Battery	3		2022-196Q
PCMS	Silent Messenger III (MB3-1548LR)	LED	Full Matrix	46x78	Trailer	Solar Battery	2		2022-203Q
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/									
PCMS	MB-ADS	LED	Full Matrix	Variable	Vehicle	Solar/Vehicle	N/A	PS-15	2001-202Q
PCMS	TC1-ADS	LED	Full Matrix	Variable	Trailer	Solar/Vehicle	3	PS-15	2001-202Q
VERMI 15 VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G2G 2V2 http://www.ver-mac.com/									
Plant	4950 North Sam Houston Parkway E Houston, TX 77032								
PCMS	PCMS-1210	LED	3-Line	75x132	Trailer	Solar Battery	3		2021-076Q
PCMS	PCMS-1500	LED	Full Matrix	75x131	Trailer	Solar Battery	3	PS-14	2000-164Q
PCMS	PCMS-320	LED	Full Matrix	64x105	Trailer	Solar Battery	3	PS-14	2009-185Q
PCMS	PCMS-320RT	LED	Full Color	66x104	Trailer	Solar Battery	3		2018-011Q
PCMS	PCMS-548	LED	Full Matrix	45x80	Trailer	Solar Battery	2	PS-14	2009-184Q
PCMS	TM-548	LED	Full Matrix	45x80	Vehicle	Vehicle (12V)	N/A	PS-14	2009-184Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Changeable Message Signs (PCMS)

Last Revised: 9/8/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Model Number	Pixel Display	Message Display	Board Size	Mount Device	Power Source	No. of Lines with	COA	Ref. No.
WANCN 15 Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/									
PCMS	WTLMB(A)	Hydraulic Lift	LED	3-Line	75x138	Trailer	Solar Battery	3	1997-167
PCMS	WTLMB(B)	Manual Lift	LED	3-Line	75x138	Trailer	Solar Battery	3	1997-167
PCMS	WTMMB(A)	Hydraulic Lift	LED	Full Matrix	75x138	Trailer	Solar Battery	3	2000-264Q
PCMS	WTMMB(B)	Manual Lift	LED	Full Matrix	75x138	Trailer	Solar Battery	3	2000-264Q
PCMS	WVTM		LED	Full Matrix	55x96	Trailer	Solar Battery	3	2020-052Q
<i>The Wanco WVTM Mini Matrix Message Sign is only permitted on conventional highways having regulatory speed limits of less than 45 mph.</i>									
PCMS	WVTM-5C		LED	Full Matrix	104x59	Trailer	Solar Battery	3	2023-025Q
PCMS	WVTMM-L		LED	Full Matrix	48x96	Trailer	Solar Battery	2	2019-108Q
PCMS	WVTMM-M		LED	Full Matrix	48x71	Trailer	Solar Battery	2	2019-153Q

WORKA 15

Hill & Smith Inc., 987 Buckeye Park Road, Columbus, OH 43207 <https://hillandsmith.com/>
 Facility Work Area Protection, A Hill & Smith Inc. Brand 2500 Production Drive St. Charles, IL 60174

PCMS	SMC 1000 ST		LED	3-Line	70x127	Trailer	Solar Battery	3	PS-8	2009-132Q
PCMS	SMC 2000 FM ST		LED	Full Matrix	77x127	Trailer	Solar Battery	3	PS-8	2011-056Q
PCMS	SMC 4000		LED	Full Matrix	48x96	Trailer	Solar Battery	2	PS-8	----

901.2 Portable Sign Support

Last Revised: 12/4/2023

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Sign Support

Last Revised: 12/4/2023

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
BONE- 15	Bone Safety Signs, Inc., 2151 Northwest Parkway, S.E., Suite 100, Marietta, GA 30067 http://www.bonesafety.com/			
X-Base Support	Big Dog SZ-412-2S	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-412	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-412FX	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-412S	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-460	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-460-2S	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-484	PSS-13	TL-3 (62 mph)	-----
X-Base Support	SZ-484-2S	PSS-13	TL-3 (62 mph)	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Sign Support

Last Revised: 12/4/2023

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
DICKE 15 Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/				
Rubber Base Support	DSB100	PSS-4	TL-3 (62 mph)	----
Rubber Base Support	DSB100HD	PSS-4	TL-3 (62 mph)	----
Tripod Support	T155	PSS-4	TL-3 (62 mph)	2011-186Q
Tripod Support	T50	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF-3003	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF-4000	PSS-4	TL-3 (62 mph)	2001-085Q
X-Base Support	DF3000S	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF3000W	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF3000WQ	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF3003S	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF3003W	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF3330	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF4000	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF4503	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF4700	PSS-4	TL-3 (62 mph)	----
X-Base Support	DF4700TX	PSS-4	TL-3 (62 mph)	----
X-Base Support	DL1003	PSS-4	TL-3 (62 mph)	----
X-Base Support	DL1003 Latch	PSS-4	TL-3 (62 mph)	----
X-Base Support	DL1008	PSS-4	TL-3 (62 mph)	----
X-Base Support	MS-Flex-30	PSS-4	TL-3 (62 mph)	2001-085Q
X-Base Support	MS-Rigid-30	PSS-4	TL-3 (62 mph)	2001-085Q
X-Base Support	QFV-60	PSS-4	TL-3 (62 mph)	----
X-Base Support	QFV-84	PSS-4	TL-3 (62 mph)	----
X-Base Support	QFV48	PSS-4	TL-3 (62 mph)	----
X-Base Support	QFVW	PSS-4	TL-3 (62 mph)	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Portable Sign Support

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FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
DICKE 15 Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/				
X-Base Support	QLVW	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDF4000	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDL1000	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDL1000 Latch	PSS-4	TL-3 (62 mph)	----
X-Base Support	SDL1008	PSS-4	TL-3 (62 mph)	----
X-Base Support	SMS-Flex-30	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF-12C	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF-12W	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF-18	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF1214	PSS-4	TL-3 (62 mph)	----
X-Base Support	STF1230	PSS-4	TL-3 (62 mph)	----
X-Base Support	SUF2000	PSS-4	TL-3 (62 mph)	----
X-Base Support	SUF2000S	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-12	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-12C	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-12W	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-18	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-60	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF-84	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF1214	PSS-4	TL-3 (62 mph)	----
X-Base Support	TF1230	PSS-4	TL-3 (62 mph)	----
X-Base Support	UF-2000	PSS-4	TL-3 (62 mph)	2001-085Q
X-Base Support	UF2000S	PSS-4	TL-3 (62 mph)	----
X-Base Support	UF2000T	PSS-4	TL-3 (62 mph)	2010-317Q



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
DICSP 15	Dicke Safety Products, 1201 Warren Ave., Downers Grove, IL 60515 http://dicketool.com/			
X-Base Support	QFV48	PSS-7	TL-3 (62 mph)	----
X-Base Support	QFVW	PSS-7	TL-3 (62 mph)	----
X-Base Support	QLVW	PSS-7	TL-3 (62 mph)	----



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 https://easternmetalsignsandsafety.com/				
Tripod Support	E-350		TL-3 (62 mph)	2001-156Q
X-Base Support	Apex		TL-3 (62 mph), MASH 2016	2023-042Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 13 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter: WZ-435A (MASH)				
X-Base Support	Apex Dual Recoil Max		TL-3 (62 mph), MASH 2016	2023-046Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 60 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter: WZ-438 (MASH)				
X-Base Support	Apex Recoil		TL-3 (62 mph), MASH 2016	2023-045Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 12 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter: WZ-436A (MASH)				
X-Base Support	C-102		TL-3 (62 mph)	2001-105Q
X-Base Support	C-132		TL-3 (62 mph)	2001-105Q
X-Base Support	C-142		TL-3 (62 mph)	2001-105Q
X-Base Support	C-200		TL-3 (62 mph)	2001-105Q
X-Base Support	C-202		TL-3 (62 mph)	2001-105Q



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 https://easternmetalsignsandsafety.com/				
X-Base Support	C-232		TL-3 (62 mph)	2001-105Q
X-Base Support	C-242		TL-3 (62 mph)	2001-105Q
X-Base Support	C-802		TL-3 (62 mph)	2001-105Q
X-Base Support	C-832		TL-3 (62 mph)	2001-105Q
X-Base Support	C-842		TL-3 (62 mph)	2001-105Q
X-Base Support	C-902		TL-3 (62 mph)	2001-106Q
X-Base Support	C-932		TL-3 (62 mph)	2001-106Q
X-Base Support	C-942		TL-3 (62 mph)	2001-106Q
X-Base Support	X-501		TL-3 (62 mph)	2001-106Q
X-Base Support	X-550		TL-3 (62 mph)	2001-156Q
X-Base Support	X-551		TL-3 (62 mph)	2001-106Q
X-Base Support	X-552	PSS-5	TL-3 (62 mph)	----
X-Base Support	X-553	PSS-5	TL-3 (62 mph)	----
X-Base Support	X-600		TL-3 (62 mph)	2001-157Q
X-Base Support	X-601		TL-3 (62 mph)	2001-106Q
X-Base Support	X-840		TL-3 (62 mph)	2001-158Q
IMPRS 15 Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/				
Rubber Base Support	350	PSS-6	TL-3 (62 mph)	----
Rubber Base Support	351	PSS-6	TL-3 (62 mph)	----



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
KORMN 15 Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/				
Tripod Support	SS1	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548A	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548AE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548AEE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548AETL	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548C	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548CA	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548CAE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548CE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548E	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548EE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548ETL	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UC	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UCA	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UCR	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS548UCRA	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560A	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560AE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560AEE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560E	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560EE	PSS-12	TL-3 (62 mph)	----
X-Base Support	SS560UCA	PSS-12	TL-3 (62 mph)	----



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
MDITC 15 Marketing Displays, Inc. (MDI WorldWide), 38271 W. Twelve Mile Road, Farmington Hills, MI 48331 http://www.mditrafficcontrol.com/				
X-Base Support	3612DLK		TL-3 (62 mph)	2000-341Q
X-Base Support	40CAM		TL-3 (62 mph)	2000-341Q
X-Base Support	4812		TL-3 (62 mph)	2000-341Q
X-Base Support	4814CS		TL-3 (62 mph)	2000-341Q
X-Base Support	4814HDK		TL-3 (62 mph)	2000-341Q
X-Base Support	4814K		TL-3 (62 mph)	2000-341Q
X-Base Support	4814M-DLK (formerly 4814DLK)		TL-3 (62 mph), MASH 2016	2000-341Q
<i>FHWA Eligibility Letter: WZ-396</i>				
X-Base Support	4814M-SL (formerly 4814SL)		TL-3 (62 mph), MASH 2016	2015-160QA
<i>FHWA Approval Letter: WZ-395</i>				
X-Base Support	4814NSCK		TL-3 (62 mph)	2000-341Q
X-Base Support	4814SSCK		TL-3 (62 mph)	2000-341Q
X-Base Support	4815		TL-3 (62 mph)	2000-341Q
X-Base Support	4818		TL-3 (62 mph)	2000-341Q
X-Base Support	4850		TL-3 (62 mph)	2000-341Q
X-Base Support	4860		TL-3 (62 mph)	2000-341Q
X-Base Support	4884CS		TL-3 (62 mph)	2000-341Q
X-Base Support	4884KET		TL-3 (62 mph)	2018-077Q
<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-138</i>				
X-Base Support	5012M-NCAM (formerly 30CAM)		TL-3 (62 mph), MASH 2016	2000-341Q
<i>FHWA Eligibility Letter: WZ-398</i>				



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
MDITC 15 Marketing Displays, Inc. (MDI WorldWide), 38271 W. Twelve Mile Road, Farmington Hills, MI 48331 http://www.mditrafficcontrol.com/				
X-Base Support	5012M-SS (formerly 5012SS)		TL-3 (62 mph), MASH 2016	2015-160QD
<i>FHWA Approval Letter: WZ-388</i>				
X-Base Support	5012NS		TL-3 (62 mph)	2015-160QC
<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>				
X-Base Support	5012NSAL		TL-3 (62 mph)	2015-160QE
<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>				
X-Base Support	5012SSAL		TL-3 (62 mph)	2015-160QF
<i>Testing Criteria: NCHRP 350, FHWA Approval Letter: WZ-114</i>				
X-Base Support	5018K		TL-3 (62 mph)	2015-160QB
<i>Testing Criteria: NCHRP 350, FHWA Approval Letters: WZ-69, WZ-164</i>				
X-Base Support	50SM		TL-3 (62 mph)	2000-341Q



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
PLAPC 15 Facility	Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958 https://plasticade.com/ 7700 North Austin Avenue Skokie, IL 60077			
Rubber Base Support	Plasticade SSRB800 Intrepid Sign Stand		TL-3 (62 mph), MASH 2016	2022-181Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 13 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter (MASH): WZ-342				
Tripod Support	Plasticade SS100 Tripod Sign Stand		TL-3 (62 mph), MASH 2016	2022-170Q
<i>Please note the following approval conditions regarding sign material, size, height, and ballast:</i>				
1. Acceptable sign materials are plywood, plastic and flexible substrate (roll-up). Aluminum is not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device may be utilized with or without one sandbag (35 lbs. max.) hanging from a sandbag hook.				
4. Device height is 14 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter WZ-350 (MASH): Tested with 48" x 48" x 5/8" MDF wood sign substrate				
Tripod Support	Plasticade SS105 Tripod Sign Stand		TL-3 (62 mph), MASH 2016	2022-172Q
<i>Please note the following approval conditions regarding sign material, size, height, and ballast:</i>				
1. Acceptable sign materials are plywood, plastic and flexible substrate (roll-up). Aluminum is not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device may be utilized with or without one sandbag (35 lbs. max.) hanging from a sandbag hook.				
4. Device height is 14 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter WZ-350 (MASH): Tested with 48" x 48" x 5/8" MDF wood sign substrate				
X-Base Support	Plasticade SS300 Sign Stand		TL-3 (62 mph), MASH 2016	2022-175Q



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
PLAPC 15 Facility	Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958	https://plasticade.com/		
	7700 North Austin Avenue Skokie, IL 60077			
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 13 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter: WZ-351 (MASH)				
X-Base Support	Plasticade SS300A Sign Stand		TL-3 (62 mph), MASH 2016	2022-176Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 13 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter: WZ-351 (MASH)				
X-Base Support	Plasticade SS310 Sign Stand		TL-3 (62 mph), MASH 2016	2022-177Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 13 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter (MASH): WZ-352				
X-Base Support	Plasticade SS310A Sign Stand		TL-3 (62 mph), MASH 2016	2022-178Q
<i>Please note the following approval conditions regarding sign material, size, and height:</i>				
1. Acceptable sign material is Flexible Substrate (roll-up). Aluminum, plywood and plastic are not allowed.				
2. Maximum sign size is 48 inches x 48 inches.				
3. Device height is 13 inches maximum from bottom of sign to grade.				
FHWA Eligibility Letter (MASH): WZ-429				



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
PLAPC 15 Facility	Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958	https://plasticade.com/		
X-Base Support	Plasticade SS620A Heavy Duty Double Spring Sign Stand		TL-3 (62 mph), MASH 2016	2022-173Q
<p><i>Please note the following approval conditions regarding sign material, size, height:</i></p> <ol style="list-style-type: none"> 1. Acceptable sign materials are plywood, plastic and flexible substrate (roll-up). Aluminum is not allowed. 2. Maximum sign size is 48 inches x 48 inches. 3. Device height with a plastic sign is 60 inches maximum from bottom of sign to grade. 4. Device height with a flexible substrate (roll-up) sign is 84 inches maximum from bottom of sign to grade. <p><i>FHWA Eligibility Letters (MASH): WZ-424 - Tested using a 48" 10 mm corrugated plastic sign mounted 60" above ground; WZ-426 - Tested using 48" roll-up sign mounted 84" from ground</i></p>				
X-Base Support	Plasticade SS621A Heavy Duty Double Spring Sign Stand		TL-3 (62 mph), MASH 2016	2022-174Q
<p><i>Please note the following approval conditions regarding sign material, size, and height:</i></p> <ol style="list-style-type: none"> 1. Acceptable sign materials are aluminum, plywood, plastic and flexible substrate (roll-up). 2. Maximum sign size is 48 inches x 48 inches. 3. Device height with each sign material 84 inches maximum from bottom of sign to grade. <p><i>FHWA Eligibility Letter (MASH): WZ-427 - Tested using 48" 0.080 aluminum sign mounted at 84" above ground</i></p>				



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Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Approved Crash Test Level	Ref. No.
TRFXD 15 Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/				
Tripod Support	Tri-Buster 93012	PSS-3	TL-3 (62 mph)	----
X-Base Support	Big Buster		TL-3 (62 mph), MASH 2016	2002-044Q
<i>FHWA Eligibility Letter: WZ-385</i>				
X-Base Support	Econo-Buster 80018	PSS-3	TL-3 (62 mph)	----
X-Base Support	Little Buster 24018		TL-3 (62 mph)	2001-030Q
X-Base Support	Traffic Stand 22000		TL-3 (62 mph)	2001-031Q
X-Base Support	Zephyr 26000		TL-3 (62 mph)	2001-032Q
UNISO 15 UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/				
Formerly PIBH- 15				
X-Base Support	9905-0075-010		TL-3 (62 mph)	2001-033Q
<i>FHWA Eligibility Letter: WZ-18, NCHRP-350. Stand supports a roll up sign 12" above the ground and three warning flags on top. Assembled by MCAR, Inc. in Hermitage, PA. The portable sign part no. 9905-0075-010 is referenced as Model 30SM-PAKD in WZ-18. Model 30SM-PAKD Schematic Drawing from WZ-18</i>				
X-Base Support	9905-0075-015		TL-3 (62 mph)	2001-034Q

901.2 Sign Trailer with Solar Powered Flashing Beacons

Last Revised: 3/18/2022

May be used with regulatory or warning series signs within a construction zone.

The sign trailer shall not be used in place of a Type B warning light as required by Department Regulations.

The red beacons shall be used only in conjunction with a stop sign.

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Sign Trailer with Solar Powered Flashing Beacons

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May be used with regulatory or warning series signs within a construction zone.

The sign trailer shall not be used in place of a Type B warning light as required by Department Regulations.

The red beacons shall be used only in conjunction with a stop sign.

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Beacon Colors	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032				
Sign Trailer with Solar Powered Flashing Beacons	PFAW-M91-SST		Yellow and Red	----
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/				
Sign Trailer with Solar Powered Flashing Beacons	SST-1		Yellow and Red	----
WORKA 15 Hill & Smith Inc., 987 Buckeye Park Road, Columbus, OH 43207 https://hillandsmith.com/				
Facility Work Area Protection, A Hill & Smith Inc. Brand	2500 Production Drive St. Charles, IL 60174			
Sign Trailer with Solar Powered Flashing Beacons	PFAW-M91-SST		Yellow and Red	----
<i>Originally listed under the PROTE 15 supplier code (Protection Services, Inc.). Product is manufactured in Lake City, Florida.</i>				

901.2 Speed Display Signs

Last Revised: 3/21/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Speed Display Mo	Speed Display Po	Ref. No.
ALLTS 15 All Traffic Solutions, 3100 Research Drive, State College, PA 16801 http://www.alltrafficsolutions.com/					
Speed Display Sign	SpeedSentry 18	SDS-3	Trailer	Solar Battery	----
AMESC 15 American Signal Company, 2755 Bankers Industrial Drive, Atlanta, GA 30360 http://www.amsig.com/frame_home.htm					
Speed Display Sign	Digibrite Advantage	SDS-5	Trailer	Solar Battery	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Speed Display Signs

Last Revised: 3/21/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Speed Display Mo	Speed Display Po	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
Speed Display Sign	ConSAM	SDS-1	Trailer	Solar Battery	-----
SOLAT 15 Solar Technology, Inc., 7620 Cetronia Road, Allentown, PA 18106 http://solartechnology.com/					
Speed Display Sign	RST-1000		Trailer	Solar Battery	2022-204Q
Speed Display Sign	RST-2000	SDS-6	Trailer	Solar Battery	-----
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/					
Speed Display Sign	SST-2	SDS-2	Trailer	Solar Battery	-----
VERMI 15 VER-MAC, Inc., 1781 Bresse Street, Quebec, Canada G2G 2V2 http://www.ver-mac.com/					
Plant	4950 North Sam Houston Parkway E Houston, TX 77032				
Speed Display Sign	SP-3248V	SVM-001P	Trailer	Solar Battery	2018-137Q
Speed Display Sign	SP-710	SDS-7	Trailer	Solar Battery	-----
WANCN 15 Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/					
Speed Display Sign	WSDT-S	SDS-4	Trailer	Solar Battery	-----
Speed Display Sign	WSDT3	SDS-9	Trailer	Solar Battery	2013-173
WORKA 15 Hill & Smith Inc., 987 Buckeye Park Road, Columbus, OH 43207 https://hillandsmith.com/					
Facility	Work Area Protection, A Hill & Smith Inc. Brand 2500 Production Drive St. Charles, IL 60174				
Speed Display Sign	ConSAM	SDS-1	Trailer	Solar Battery	-----
	<i>Originally listed under the PROTE 15 supplier code (Protection Services, Inc.). The ConSAM speed display sign is manufactured in Lake City, Florida.</i>				

901.2 Stop/Slow Paddle, Flashing

Last Revised: 5/19/2015

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Paddle Size (in)	Ref. No.
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Stop/Slow Paddle, Flashing

Last Revised: 5/19/2015

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Paddle Size (in)	Ref. No.
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 https://easternmetalsignsandsafety.com/				
Stop/Slow Paddle, Flashing	VA-WZ-1872-HI/DGF	FSSP-2	18x18	----
Stop/Slow Paddle, Flashing	VA-WZ-2472-HI/DGF	FSSP-2	24x24	----
TRFPC 15 TAPCO - Traffic & Parking Control Co., Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/				
Stop/Slow Paddle, Flashing	Blinkerpaddle 2180	FSSP-3	18x18	----
Stop/Slow Paddle, Flashing	Blinkerpaddle 2180	FSSP-3	24x24	----

901.2 Temporary Barricades (Types 1, 2, and 3)

Last Revised: 11/14/2022

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Barricade Ligh	Approved Crash Test Level	Ref. No.
ALLPI 15 Allied Plastics, Inc., 150 Holy Hill Road, Twin Lakes, WI 53181					
Three Sided Barricade	Multicade	BAR-11	Lighted	TL-3 (62 mph)	----
CAMSC 15 Camsco Services, Inc., 255 Pennbriar Drive, Erie, PA 16509 https://camsco.com/public/home.html					
Barricade, Type 2	T2HSA		Lighted	TL-3 (62 mph)	2002-076Q
CORTI 15 Cortina Safety Products, 10706 West Grand Ave., Franklin Park, IL 60131 http://www.cortinaco.com/safety-products/cortina-safety-products/					
Barricade, Type 1	Plastx 97-01-001	BAR-8		TL-3 (62 mph)	----
Barricade, Type 1	Steelcade 97-03-001	BAR-8		TL-3 (62 mph)	----
Barricade, Type 2	97-11-003-45 SF Series	BAR-8		TL-3 (62 mph)	----
Barricade, Type 2	97-11-45 F Series	BAR-8		TL-3 (62 mph)	----
Barricade, Type 2	Plastx 97-01-002	BAR-8		TL-3 (62 mph)	----
Barricade, Type 2	Steelcade 97-03-002	BAR-8		TL-3 (62 mph)	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barricades (Types 1, 2, and 3)

Last Revised: 11/14/2022

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Barricade Ligh	Approved Crash Test Level	Ref. No.
HTGCP 15 HTG Custom Plastech, 15002 Cross Creek Parkway, Newbury, OH 44065					
Barricade, Type 3	Sentinel B-30			TL-3 (62 mph)	2002-081Q
IMPRS 15 Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/					
Barricade, Type 3	Barricade Series 600	BAR-9		TL-3 (62 mph)	----
KORMN 15 Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/					
Barricade, Type 1, 2	WBT2 Jammer Plastic	BAR-12	Lighted	TL-3 (62 mph)	----
Barricade, Type 1, 2	WBT2 Jammer Steel	BAR-12	Lighted	TL-3 (62 mph)	----
Barricade, Type 3	WBT3BR Splice Plate Bracket	BAR-12	Lighted	TL-3 (62 mph)	----
Barricade, Type 3	WBT3HP EZ-Kade	BAR-12	Lighted	TL-3 (62 mph)	----
Barricade, Type 3	WBT3SW Welded Stub	BAR-12	Lighted	TL-3 (62 mph)	----
PEXCO 15 PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 http://www.pexco.com/traffic					
Plant 3110 70th Avenue East Tacoma, WA 98424	Barricade, Type 3	T3B Barricade with PSST Uprights and Feet		TL-3 (62 mph), MASH 2016	2021-137Q
	<i>FHWA Eligibility Letter WZ-380</i>				
	Barricade, Type 3	T3B Barricade with X-Tube Upright and Angle Iron Foot		TL-3 (62 mph), MASH 2016	2021-136Q
	<i>FHWA Eligibility Letter: WZ-381</i>				



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barricades (Types 1, 2, and 3)

Last Revised: 11/14/2022

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Barricade Ligh	Approved Crash Test Level	Ref. No.
PLAPC 15 Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958 https://plasticade.com/					
Facility 7700 North Austin Avenue Skokie, IL 60077	Barricade, Type 1	100-WT12EG	BAR-10	Lighted	TL-3 (62 mph) -----
	Barricade, Type 1	Fibercade 101	BAR-10	Lighted	TL-3 (62 mph), MASH 2016 -----
	<i>FHWA Eligibility Letter: WZ-408</i>				
	Barricade, Type 1, 2, Direction Indicator (DI)	Safetycade		Lighted	TL-3 (62 mph), MASH 2016 2000-303Q
	<i>FHWA Eligibility Letter: WZ-410</i>				
	Barricade, Type 2	100-T12B8	BAR-10	Lighted	TL-3 (62 mph) -----
	Barricade, Type 2	Fibercade 111	BAR-10	Lighted	TL-3 (62 mph), MASH 2016 -----
	<i>FHWA Eligibility Letter: WZ-408</i>				
	Barricade, Type 3	300 Series	BAR-10		TL-3 (62 mph) -----
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
	Barricade, Type 3	Type Metallic Barricade	BAR-14		TL-3 (62 mph) 2012-040Q
	<i>This arrow panel model is no longer being manufactured, but may be in use.</i>				
THDTW 15 Three D Traffic Works, Inc., 430 North Varney Street, Burbank, CA 91502 http://www.trafficwks.com/					
	Barricade, Type 1	TD 2000 Works		Lighted	TL-3 (62 mph) 2000-272Q
	Barricade, Type 1	TD 2150 Works	BAR-1	Lighted	TL-3 (62 mph) -----
	Barricade, Type 2	TD 2000 Works		Lighted	TL-3 (62 mph) 2000-272Q
	Barricade, Type 2	TD 2150 Works	BAR-1	Lighted	TL-3 (62 mph) -----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barricades (Types 1, 2, and 3)

Last Revised: 11/14/2022

FHWA [Hardware Eligibility Letters - Work Zone Devices](#)

Category 2 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Barricade Ligh	Approved Crash Test Level	Ref. No.
TRFXD 15 TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/					
Barricade, Type 1	TD 36000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 1	TD 37000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 1	TD 39000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 36000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 37000 Series	BAR-4	Lighted	TL-3 (62 mph)	----
Barricade, Type 2	TD 39000 Series	BAR-4	Lighted	TL-3 (62 mph)	----

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Barrier Criteria Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
BARCO 15 Barrier Connection, LLC, 976 Narcissus Avenue, Clearwater, FL 33767-0564								
Temporary Concrete Barrier	10' or 20' Modified VDOT Barrier	NCHRP F 350	Pin and Loop	32	6.0 ft. (72")	TL-3 (62 mph)	B-54	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

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See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Barrier Criteria Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
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BARCO 15 Barrier Connection, LLC, 976 Narcissus Avenue, Clearwater, FL 33767-0564

Approved FHWA Barrier System Design only, not manufacturers! Requires approval by District and Central Office BOPD, Highway Delivery Division before use.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
EASSI 15	Easi-Set Industries, 5119 Catlett Road, P.O. Box 400, Midland, VA 22728 http://www.easet.com/								
Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier	NCHRP F and NJ 350		J-J Hooks	32	4.2 ft. (50.4")	TL-3 (62 mph)	B-52, SWC02	----
<i>See Section 714 for Precasters.</i>									
<i>Drawings for J-J Hooks with NJ or F-Shape Concrete Barrier: B-52 FHWA Approval Letter (3/26/1999)</i>									
Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier, Bolt Down - Structure Mounted (concrete pavement)	MASH F 2016		J-J Hooks (MASH)	32	0.49 ft. (5.9")	TL-3 (62 mph)	B-52B	2019-165Q
<i>Approved for use on bridge decks and bridge approach slabs. For PennDOT approved drawing no. 2019-165 along with use requirements & restrictions, see Product No. 85 at Approved Bridge and Structure Products</i>									
Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier, Bolt Down -Roadway Use (concrete pavement)	MASH F 2016		J-J Hooks (MASH)	32	0.49 ft. (5.9")	TL-3 (62 mph)	B-52B, SWC02b	2013-194A



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
EASSI 15 Easi-Set Industries, 5119 Catlett Road, P.O. Box 400, Midland, VA 22728 http://www.easiset.com/									
<i>Roadway Use - Bolted to concrete surface. Test Article Deflections (MASH Test 3-11) - Dynamic: 5.9 inches; Permanent: 4.0 inches; Working width: 27.5 inches. 2 anchors bolts required per 12' segment and 3 anchor bolts per 20' segment. See Section 714 for Precasters. J-J Hooks F-Shape 12' and 20' Barrier Bolted & Pinned Drawings Signed by PennDOT 3/30/15</i>									
Temporary Concrete Barrier	12' and 20' J-J Hooks Barrier, Pin Down (asphalt pavement)	MASH 2016	F	J-J Hooks (MASH)	32	0.73 ft. (8.8")	TL-3 (62 mph)	B-52C, SWC02c	2013-194A
<i>Roadway Use only - Pinned down to asphalt surface. Test Article Deflections (MASH Test 3-11) - Dynamic: 8.76 inches; Permanent: 5.50 inches; Working width: 32.03 inches. 3 pins required per 12' segment. See Section 714 for Precasters. J-J Hooks F-Shape 12' and 20' Barrie Bolted & Pinned Drawings Signed by PennDOT 3/30/15</i>									
Temporary Concrete Barrier	12' J-J Hooks Barrier, Free Standing	MASH 2016	F	J-J Hooks (MASH)	32	5.4 ft. (64.2")	TL-3	B-300	2019-100Q
<i>PennDOT approved Drawing: J-J Hooks F-Shape MASH Free Standing Drawing Signed by PennDOT 02/10/20</i>									



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
HILSM 15	Hill & Smith, 987 Buckeye Park Road, Columbus, OH 43207 http://www.hillandsmith.com/								
Temporary Concrete Barrier	40' ZoneBloc + (Standard Deflection)	MASH 2016	I-beam	Coupler	31.5	4.3 ft. (51.6")	TL-3 (62 mph)	B-360	2023-186Q
	~ ZoneBloc+ Standard Deflection Approved Drawing								
KENPR 15	Kentucky Precast, Easi-Set Industries, 5119 Catlett Road, P.O. Box 400, Midland, VA 22728								
Temporary Concrete Barrier	20' J-J Hooks Kentucky Barrier	NCHRP NJ 350		J-J Hooks	32	5.5 ft. (66")	TL-3 (62 mph)	B-169	-----
	<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use.</i>								



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Shape	Connection	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.	
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 http://www.lindsay.com/transportation-solutions									
	Temporary Concrete Barrier	3.28'	NCHRP 350	Tee-Head	Pin and Hinge	32	4.4 ft. (52.8")	TL-3 (62 mph)	B-63, SWC01	2013-052
		QuickChange Series 200 Moveable Concrete Barrier (MCB)								
	<i>PennDOT Approved Drawings: QuickChange Series 200 Moveable Concrete Barrier (MCB) Drawings Signed by PennDOT 1/27/14</i>									
	Temporary Concrete Barrier	3.28'	MASH 2016	"T" Top	Pin and Hinge	32 3/8"	3.5 ft. (41.4")	TL-3 (62 mph)	B-277, SWC01b	2020-100Q
		CRTS-QMB (Concrete Barrier Reactive Tension System-QuickChange Moveable Barrier)								



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901.2 Temporary Barrier, Concrete

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 505 Crown Point Ave Omaha, NE 67110								http://www.lindsay.com/transportation-solutions
	<i>This unanchored system is also known as the LTS Road Zipper Moveable Barrier that can be placed and moved by the Road Zipper Barrier Transfer Machine. The CRTS concrete barriers are 39 1/4" long pin-to-pin, 18" wide, and 32 3/8" tall. The steel RTS VLB barriers are variable length, 18" wide, and 32 1/4" tall. The Road Zipper CRTS-QMB system can be used with or without the RTS VLB barriers. 18" H2 CRTS & 18" RTS VLB Drawings Signed by PennDOT 3/15/22</i>								
NJDOT 15	New Jersey Department of Transportation, 1035 Parkway Avenue, Trenton, NJ 08625								https://www.nj.gov/transportation/
Temporary Concrete Barrier	20' NJDOT Free-standing NJPCB-3 Barrier	MASH 2016	NJ	Connection Key	32	3.2 ft. (38.1")	TL-3 (62 mph)		2023-213Q
	<i>MwRSF Research Report No. TRP-03-355-18. NJDOT Freestanding NJPCB-3 Connection Key Temporary Barrier Design Drawings</i>								



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

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The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Barrier Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
NYSDO 15 NYS DOT, State Office Campus-Building 5, Room 410, 1220 Washington Avenue, Albany, NY 12232-0751									
https://www.dot.ny.gov/index?nd=nysdot									
Temporary Concrete Barrier	20' NYDOT I-Beam Barrier	NCHRP F and NJ 350	I-Beam	I-Beam	32	3.4 ft. (40.8") unanchored	TL-3 (62 mph)	B-94	----

See Section 714.2 for approved precasters.

MwRSF Report TRP-03-202-08, 03/14/2008 - Evaluation of Box Beam Stiffening of Unanchored Temporary Concrete Barriers

MwRSF Report TRP-03-224-10, 01/27/2010 - Dynamic Evaluation of a Pinned Anchoring System for New York State's Temporary Concrete Barriers - Phase II [Midwest Roadside Safety Facility \(MwRSF\) Test Reports](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete

Last Revised: 12/19/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
ODOT1 15 Oregon Department of Transportation, 355 Capitol Street NE, Salem, OR 97301-3871									
Temporary Concrete Barrier	12' 6" Oregon DOT Freestanding 32" Type "F" Precast Concrete Barrier	MASH 2016	F	Pin and Loop	32	5.4 ft. (63.4")	TL-3		2021-144Q
<i>Roadway use only. This temporary concrete barrier when freestanding meets the MASH 2016 criteria as tested per Report No. 607911-1&2 by Texas A&M Transportation Institute, College Station, TX. This approval is for the design only. Fabricators of this barrier must be approved and listed in Section 714.2 Median Barrier (Temporary and Permanent). Oregon DOT 32" Concrete Barrier Type "F" Precast Freestanding Drawings</i>									
Temporary Concrete Barrier	12' 6" Oregon DOT Pinned Into Asphalt 32" Type "F" Precast Concrete Barrier	MASH 2016	F	Pin and Loop	32	1.5 ft. (17.8")	TL-3		2021-144Q



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Section 901: Maintenance and Protection of Traffic During Construction

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Barrier Criteria Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
ODOT15 Oregon Department of Transportation, 355 Capitol Street NE, Salem, OR 97301-3871								
<i>Roadway use only. This temporary concrete barrier when pinned into asphalt on traffic side (3 pins per barrier) meets the MASH 2016 criteria as tested per WSDOT Pooled Fund research Report No. 405160-25-1. Fabricators of this barrier must be approved and listed in Section 714.2 Median Barrier (Temporary and Permanent). Oregon DOT 32" Concrete Barrier Type "F" Precast Pinned Into Asphalt Drawings</i>								
OHIDO15 Ohio DOT, Ohio Department of Transportation, P. O. Box 899, Columbus, OH 43216-0899 http://www.dot.state.oh.us/pages/home.aspx								
Temporary Concrete Barrier	10' Ohio DOT Barrier	NCHRP NJ 350	Pin and Loop	32	5.5 ft. (66")	TL-3 (62 mph)	B-93	-----
<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use.</i>								
<i>Drawings of Ohio DOT Pin and Loop NJ Shape Concrete Barrier: B-93 FHWA Approval Letter May 8th, 2002 with Drawings</i>								
ROCPR15 Rockingham Precast, P.O. Box 1347, Harrisonburg, VA 22801 http://rockinghamprecast.com/								
Temporary Concrete Barrier	12' T-Lok Barrier	MASH 2016 F	T-Shape Plate	32	4.2 ft. (50.0")	TL-3 (62 mph)	B-42b	-----
<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use.</i>								
<i>Drawings for T-LOK F Shape Barrier: B-42b FHWA Approval Letter with Crash Test Drawings</i>								



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901.2 Temporary Barrier, Concrete

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FHWA Acceptance Letters (Refer to this FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

See Section 714.2 Median Barrier (Temporary and Permanent) for approved precasters of standard PennDOT barrier (RC-57M & RC-58M) and licensed barriers.

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Barrier Criteria	Barrier Shape	Connecti on	Tested Height	Dynamic Deflection	Barrier Approved	FHWA Acc.	Ref. No.
VIRDO 15 Virginia DOT, The Dale Building, Suite 205, 1504 Santa Rosa Road, Richmond, VA 23229 http://www.virginiadot.org/									
Temporary Concrete Barrier	10' or 20' VDOT Barrier, Modified MB-7D	NCHRP F 350		Pin and Loop	32	6.0 ft. (72")	TL-3 (62 mph)	B-54	----
<i>Approved FHWA Barrier System Design only, not manufacturers. Requires approval by District and Central Office BOPD, Highway Delivery Division, before use.</i>									

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

Last Revised: 11/14/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 criteria as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, Section 6.1.3.13, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Concrete - Retrofit Systems to Limit Deflection (DM-2, Chapter 12)

Last Revised: 11/14/2023

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Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/							
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2017-095
<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10 - Dynamic Evaluation of a Pinned Anchoring System for New York State's Temporary Concrete Barriers - Phase II, 01/27/2010. Per Faddis Concrete Products Drawings Dated and Signed by PennDOT 3/15/17</i>							
FADD3 15 Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/							
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2017-028
<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10 - Dynamic Evaluation of a Pinned Anchoring System for New York State's Temporary Concrete Barriers - Phase II, 01/27/2010. Per Faddis Concrete Products Drawings Dated and Signed by PennDOT 3/15/17</i>							



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Section 901: Maintenance and Protection of Traffic During Construction

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Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
HILSM 15	Hill & Smith, 987 Buckeye Park Road, Columbus, OH 43207						
Barrier Retrofit System (Limit Deflection)	40' ZoneBloc+ Minimum Deflection	MASH 2016	I-beam	Coupler	0.92 ft. (11 in.)	B-361, B-362 (transition)	2023-185Q

This approval is for roadway use only and anchored to asphalt with (8) 20 mm (0.787 in.) x 300 mm (11.8 in.) pins per barrier. Crash tested under the REBLOC 80SAH_12_8B product name per CTS test #19444 and #19415. [ZoneBloc+ Minimum Deflection Approved Drawing](#)



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Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411						
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam Modified, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2019-133Q
	<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10, 01/27/2010. Per Interstate Safety Service Drawing Signed by PennDOT 4/8/2020</i>						
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2014-266Q A
	<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10, 01/27/2010. Per Interstate Safety Service Drawing 1218 - Signed by PennDOT 07/08/2015</i>						



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Section 901: Maintenance and Protection of Traffic During Construction

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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
NORPR 15 Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/							
Barrier Retrofit System (Limit Deflection)	20' NYS I-Beam, Pinned Sections (Concrete Pavement)	MASH 2016	NJ Shape Only	I-Beam	1.7 ft. (20.5")		2012-118A
<i>Test Article Deflections (MASH Test 3-11, NYTCB-5) - Dynamic: 20.5 inches; Permanent: 9 inches; Working width: 32.5 inches. Installed on concrete with 4 anchor pins on back side of each barrier. MwRSF Report #TRP-03-224-10, 01/27/2010. Per Northeast Precast Drawings Dated 07/30/2012</i>							
ROCPR 15 Rockingham Precast, P.O. Box 1347, Harrisonburg, VA 22801 http://rockinghamprecast.com/							
Barrier Retrofit System (Limit Deflection)	MB-11A T-Lok	MASH 2016	F	T-Shape Plate	1.03 ft. (12.3")		2023-099Q
<i>Roadway use only with (8) 24" pins per barrier. Drawings for MB-11A T-Lok barrier: MB-11A T-Lok Approved Drawing</i>							



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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15 Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957							
Barrier Retrofit System (Limit Deflection)	12' Double Slot F-Shape J-J Hooks Deflection Reducing Retrofit (asphalt pavement)	MASH 2016	F Shape only	J-J Hooks	0.94 ft (11.3") at TOP, < 5" at BASE		2018-091Q
<p><i>This version installed on asphalt pavement utilizes (2) bent anchor plates per barrier. Each bent anchor plate is secured to asphalt with (2) 1" dia. x 12 3/4" long threaded anchors. Test Article Deflections (MASH Test 3-11 690900-SBK7) - Dynamic at top: 11.3 inches; Dynamic at base: < 5 inches; Permanent: 3.25 inches; Working width: 29.7 inches. Provisionally approved based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK7 (April 2018)</i></p> <p>Per Strongstown's B&K Enterprise's Double Slot Asphalt Pavement Drawings Signed by PennDOT 7/24/18</p>							
Barrier Retrofit System (Limit Deflection)	12' Double Slot F-Shape J-J Hooks Deflection Reducing Retrofit (concrete pavement)	MASH 2016	F Shape only	J-J Hooks	1.04 ft (12.5") at TOP, < 5" at BASE		2018-094Q



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Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15 Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957							
<i>This version installed on concrete pavement utilizes 2 bent anchor plates per barrier. Each bent anchor plate is secured to concrete with (2) 1" dia. x 7 3/4" long threaded anchors. Test Article Deflections (MASH Test 3-11 690900-SBK6) - Dynamic at top: 12.5 inches; Dynamic at base: < 5 inches; Permanent: 3.0 inches; Working width: 29.0 inches. Provisionally approved based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK6 (April 2018)</i>							
<i>Per Strongstown's B&K Enterprise's Double Slot Concrete Pavement Drawings Signed by PennDOT 7/24/18</i>							
Barrier Retrofit System (Limit Deflection)	12' F-Shape J-J Hooks Deflection Reducing Retrofit (asphalt pavement)	MASH 2016	F Shape only	J-J Hooks	1.02 ft (12.2")		2017-252
<i>This version installed on asphalt pavement utilizes (3) bent anchor plates per barrier with (2) 1" dia. x 16" long threaded anchor rods per plate. Test Article Deflections (MASH Test 3-11, 690900-SBK5) - Dynamic: 12.2 inches; Permanent: 2.5 inches; Working width: 31.2 inches. Provisionally approved based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK4 (April 2017, revised 6/19/17)</i>							
<i>Per Strongstown's B&K Enterprises' Asphalt Pavement Retrofit Drawings Signed by PennDOT 9/12/17</i>							
Barrier Retrofit System (Limit Deflection)	12' F-Shape J-J Hooks Retro Fit v3 (concrete pavement)	MASH 2016	F Shape only	J-J Hooks	At Toe: < 1" toward field, 4.0" toward traffic; At Top: 11.9" toward field		2019-078Q



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Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15 Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957							
<i>This version installed on concrete pavement utilizes 1 bent anchor plate per barrier with (1) 1" x 7 3/4" zinc coated threaded rod with a zinc coated hex nut per each plate. Nut welded to rod for removal. Test Article Deflections (MASH Test 3-11, 690900-SBK-9) - Dynamic at top: 11.9 inches; Dynamic at toe: < 1 inch toward field, 4 inches toward traffic; Permanent: 4.0 inches toward traffic; Working width: 29.3 inches.</i>							
Strongstown's B&K Enterprise's Retro Fit v3 Concrete Pavement Drawings Signed by PennDOT 12/05/19							
Barrier Retrofit System (Limit Deflection)	12' F-Shape J-J Hooks Retro Fit v4 (asphalt pavement)	MASH 2016	F Shape only	J-J Hooks	At Toe: 2.2" toward field; At Top: 8.5" toward field	B-344	2019-086Q
<i>This version installed on asphalt pavement utilizes 1 bent anchor plate per barrier with (1) 1" x 7 3/4" zinc coated threaded rod with a zinc coated hex nut per each plate. Nut welded to rod for removal. Test Article Deflections (MASH Test 3-11, 690900-SBK10) - Dynamic at top: 8.5 inches toward field; Dynamic at toe: 2.2 inches toward field; Permanent at toe: 2.5 inches toward traffic; Working width: 29.4 inches.</i>							
Retro Fit v4 Asphalt Pavement Drawings Signed by PennDOT 12/05/19 & FHWA Eligibility Letter B-344							
Barrier Retrofit System (Limit Deflection)	12' F-Shape, J-J Hooks Deflection Reducing Retrofit (concrete pavement)	MASH 2016	F Shape only	J-J Hooks	0.99 ft (11.9")		2017-141



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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Product	Name	Tested Criteria	Comp. Barrier	Comp. Barrier	Dynamic Deflection (ft)	FHWA Acc. Letter	Ref. No.
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957						
	<i>This version installed on concrete utilizes (3) bent anchor plates per barrier with (2) 1" dia. x 7 3/4" threaded anchor rods per plate. Test Article Deflections (MASH Test 3-11) - Dynamic: 11.9 inches; Permanent: 4.0 inches; Working width: 28.4 inches. Provisionally approval based on successful crash testing by TTI and related FHWA Eligibility Letter to Indiana DOT (B-258). TTI MASH test report #690900-SBK4 (April 2017, revised 6/19/17)</i>						
	<i>Per</i>						
	Strongstown's B&K Enterprises' Concrete Pavement Retrofit Drawings Signed by PennDOT 9/12/17						

901.2 Temporary Barrier, Steel

Last Revised: 8/22/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 (TL-3) or Test 4-12 (TL-4) at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
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Posted:
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel

Last Revised: 8/22/2023

The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 (TL-3) or Test 4-12 (TL-4) at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

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Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
BARRS 15 Lindsay Transportation Solutions, LLC (Barrier Systems by Lindsay), 180 River Road, Rio Vista, CA 94571 http://www.barriersystemsinc.com/								
Temporary Steel Barrier	28' ArmorGuard Barrier (AGB)	NCHRP 350	33.3	2.4 to 8.75 ft.	TL-3 (62 mph)	No (Ground Only)	B-173 (SWM07)	2004-057Q

Tested deflection varies by configuration from 2.4 to 8.75 ft.

A. 2.4 ft.: Based on three 28' AGB sections between six portable concrete barriers on each end (See Figure 1)

B. 4.0 ft.: Based on four 28' AGB sections used between permanent barriers (See Figure 6)

C. 8.75 ft.: Based on one 28' AGB section between permanent barriers (See Figure 11)

See B-173 FHWA Eligibility Letter for details.

Drawings of Armorguard Barrier: [B-173 FHWA Approval Letter With Drawings](#)



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901.2 Temporary Barrier, Steel

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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
ENERG 15 Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/								
Plant Pell City, AL								
Formerly Energy Absorption Systems								
Temporary Steel Barrier	12M Vulcan Barrier and Anchor System	NCHRP 350	32	1 ft.	TL-3 (62 mph)	No (Ground Only)	B-134C, SWM04b	2009-099Q
Temporary Steel Barrier	4M and 12M Vulcan Barrier System	NCHRP 350	32	7.9 ft.	TL-4 (small truck)	No (Ground Only)	B-134D, SWM04a	2009-099Q
Temporary Steel Barrier	Vulcan Barrier System, anchored ends	NCHRP 350	32	6.9 ft. Anchored Ends	TL-3 (62 mph)	No (Ground Only)	B-134, SWM04b	2009-099Q
Temporary Steel Barrier	Vulcan Barrier System, unanchored ends	NCHRP 350	32	13.2 ft. Unanchored Ends	TL-3 (62 mph)	No (Ground Only)	B-134, SWM04b	2009-099Q



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901.2 Temporary Barrier, Steel

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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
HIGCA 15 Highway Care Ltd, Denne Court, First Floor, Hengist Field, Borden, Sittingbourne ME9 8FH, UK https://highwaycare.com/								
Temporary Steel Barrier	BG 800 (BarrierGuard 800)	NCHRP 350	31.5	4.92 ft.	TL-4 (small truck)	Structure, Ground	B-131, SWM06	-----
<i>PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>								
Temporary Steel Barrier	BG 800 (BarrierGuard 800) MASH TL-3 Standard (Asphalt Pavement)	MASH 2016	31.5	5.54 ft. (66.5")	TL-3 (62 mph)	Structure, Ground		-----
<i>Test Article Deflections (MASH Test 3-11) - Dynamic: 66.5 inches; Permanent: 63 inches; Dynamic working width: 87.4 inches; Permanent Working Width: 84.3 inches. Installed on asphalt with 8 anchor pins used in first and last barrier. Anchor pins used in crash test 1.18 in. dia. x 17.7 in. long. BarrierGuard 800 Standard originally tested per NCHRP 350 criteria (FHWA Eligibility Letter B-131). PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>								
Temporary Steel Barrier, Min. Deflection System	BG 800 (BarrierGuard 800 MDS), 40 ft. Anchoring	NCHRP 350	31.5	2.92 ft for 40 ft anchor spacing	TL-3 (62 mph)	Structure Mounted	B-158, SWM06	-----
<i>PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>								



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Barrier, Steel

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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
HIGCA 15	Highway Care Ltd, Denne Court, First Floor, Hengist Field, Borden, Sittingbourne ME9 8FH, UK https://highwaycare.com/							
Temporary Steel Barrier, Min. Deflection System	BG 800 MDS (BarrierGuard 800 MDS), 20 ft. Anchoring	MASH 2016	31.5	1.54 ft. (18.5") at TOP, 5.2" at BASE	TL-3 (62 mph)	Structure, Ground	B-286 REVISED	-----
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 18.5 inches; Dynamic at base: 5.2 inches; Permanent: 8.64 inches; Working width: 39.7 inches. Installed on concrete slab and asphalt with impact area on 8 inch thick concrete. Anchored on 20 feet (6 m) intervals. BarrierGuard 800 MDS originally crash tested to NCHRP 350 (FHWA Eligibility Letter B-158). The dynamic deflection of 12 in. at TOP and 3" at BASE only applies to the original NCHRP 350 crash testing criteria. PennDOT Drawing: BarrierGuard 800 - System Drawings (14-602 BDTD)</i>								



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Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
HILSM 15	Hill & Smith, 987 Buckeye Park Road, Columbus, OH 43207 http://www.hillandsmith.com/							
Temporary Steel Barrier	Zoneguard - Asphalt (Asphalt Pavement)	MASH 2016	32	1.95 ft. (23.4") beyond toe	TL-3	No (Ground Only)	B-320	2010-154Q
<i>Test Article Deflections (MASH Test 3-11) - Dynamic beyond toe: 23.4 inches; Permanent at toe: 10.0 inches; Working width: 50.9 inches. Barrier pinned every 33 ft - 4" on center with exception at each end of installation. Pins used during crash test: 1 1/4" x 20" long.</i>								
Temporary Steel Barrier	Zoneguard - Concrete (Concrete Pavement)	MASH 2016	32	6.8 ft. (81")	TL-3	No (Ground Only)	B-176C	2010-154Q
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 81.4 inches; Permanent at base: 80.0 inches; Working width: 108.5 inches. Barrier installed on concrete without rubber pads. 50 ft. galvanized steel barrier segments tested with drop-in pin anchors at ends only.</i>								
Temporary Steel Barrier	Zoneguard - Standard	NCHRP 350	32	4.75 ft.	TL-4 (small truck)	Structure, Ground	B-176, SWM10a	2010-154Q
<i>PennDOT Drawings: ZoneGuard Portable Steel Barrier System Drawings (12-602-BDTD)</i>								
Temporary Steel Barrier	Zoneguard -Standard (Concrete Pavement)	MASH 2016	32	6.3 ft. (76") at TOP, 6.2 ft. (74") at BASE	TL-3 (62 mph)	Structure, Ground	B-176A, SWM10b	2010-154Q
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 76 inches; Dynamic at base: 74 inches; Permanent at base: 67 inches. Installed on concrete with anchoring at end of the barrier. PennDOT Drawings: ZoneGuard Portable Steel Barrier System Drawings (12-602-BDTD)</i>								



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The Tested Deflection distances listed in Bulletin 15 are documented in crash test reports per NCHRP 350, MASH 2009, or MASH 2016 Test 3-11 (TL-3) or Test 4-12 (TL-4) at a 25 degree impact angle as the Dynamic Test Article Deflection. Per the AASHTO Manual for Assessing Safety Hardware 2016, Second Edition, the dynamic deflection is the maximum lateral displacement of the test article on the traffic side that occurs during the impact. [Design Manual Part 2 Highway Design - Temporary Barriers \(Publication 13M, Chapter 12.10\)](#)

FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
HILSM 15	Hill & Smith, 987 Buckeye Park Road, Columbus, OH 43207 http://www.hillandsmith.com/							
Temporary Steel Barrier, Min. Deflection System	Zoneguard Barrier - Min. Deflection (Asphalt Pavement)	MASH 2016	32	1.58 ft.(19 in.) at TOP, 0.25 ft. (3 in.) at TOE, 0.7 ft. (8.4 in.) at TOP beyond TOE	TL-3 (62 mph)	No (Ground Only)		2010-154Q
<i>Anchored with 21 1/4 inch laterally spaced round-headed anchoring pins at 8 ft.-4 in. spacing on asphalt pavement. Test article deflections per TTI 690900-HSI13 crash test report (MASH Test 3-11): Dynamic deflection at top: 19 inches; At toe: 3 inches; Top beyond toe: 8.4 inches; Permanent at toe: 1.2 inches; Working width: 29.6 inches. Zoneguard Minimum Deflection System (Asphalt Pavement) - PennDOT Signec Drawing 032521</i>								
Temporary Steel Barrier, Min. Deflection System	Zoneguard Barrier - Min. Deflection (Concrete Pavement)	MASH 2016	32	1.35 ft. (16") at TOP, 5" at BASE	TL-3 (62 mph)	Structure, Ground	B-176A, SWM10b	2010-154Q
<i>Test Article Deflections (MASH Test 3-11) - Dynamic at top: 16 inches; Dynamic at base: 5 inches; Permanent at top: 5 inches; Permanent at base: 0 inches. Installed on concrete and pinned every 33.3 ft. along barrier. PennDOT Drawings: ZoneGuard Portable Steel Barrier System Drawings (12-602-BDTD)</i>								



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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08. [Approved Bridge and Structure Products](#)

Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
MOBBA 15 Mobile Barriers, LLC, 24918 Genesee Trail Road, Golden, CO 80401 http://mobilebarriers.com/								
Temporary Steel Barrier	Mobile Barrier Trailer (MBT-1)	MASH 2016	48	2.0 ft.	TL-3 (62 mph)	No	B-178	-----
<i>Test Article Deflections (MASH Test 3-11) - Dynamic: 24 inches; Static: 3.8 inches. The 100 foot long mobile barrier trailer was crash tested on concrete.</i>								



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Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.	
TRIN8 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/ Hong Kong, Stramproy, Netherlands and Geldermalsen, Netherlands Formerly Trinity Highway Products, LLC								
	Temporary Steel Barrier	HighwayGuard (TL-3)	MASH 2016	31.5	6.33' (76")	TL-3	No (Ground Only)	B-329	2021-175Q
	<i>Interlocking T-Connection pin connectors. Crash tested by Holmes Solutions LP per test report 135137.01 on asphalt. HighwayGuard - PennDOT Signed Drawings 050522</i>								
	Temporary Steel Barrier	HighwayGuard (TL-4)	MASH 2016	31.5	7.09' (85.1")	TL-4	No (Ground Only)	B-330	2021-175Q
	<i>Interlocking T-Connection pin connectors. Crash tested by Holmes Solutions LP per test report 135137.01 on asphalt. HighwayGuard - PennDOT Signed Drawings 050522</i>								
Temporary Steel Barrier, Min. Deflection System	HighwayGuard LDS (TL-3)	MASH 2016	31.5	2.23' (26.8") at TOP and BASE	TL-3	No (Ground Only)	B-322	2021-174Q	
<i>Interlocking T-Connection pin connectors. Tested on asphalt by HORIBA-MIRA Ltd per test report 1218725-005-03. HighwayGuard LDS - PennDOT Signed Drawings 050522</i>									
Temporary Steel Barrier, Min. Deflection System	HighwayGuard LDS (TL-4)	MASH 2016	31.5	2.6' (31.2")	TL-4	No (Ground Only)	B-331	2021-174Q	
<i>Interlocking T-Connection pin connectors. Crash tested by Holmes Solutions LP per test report 135137.03. Tested on asphalt with ground anchors spaced 39 ft. apart on both sides of barrier. HighwayGuard LDS - PennDOT Signed Drawings 050522</i>									



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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

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Product	Name	Tested Criteria	Tested Height (in)	Dynamic Deflection	Barrier Approved	Structure Mounted	FHWA Acc. Letter	Ref. No.
TRIN8 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/ Hong Kong, Stramproy, Netherlands and Geldermalsen, Netherlands Formerly Trinity Highway Products, LLC							
	Temporary Steel Barrier, Min. Deflection System	HighwayGuard MDS	MASH 2016	31.5	0.56 ft (6.72") @ top; 0.98 ft (11.76") @ bottom	TL-3	No	2022-233Q
<p><i>Interlocking T-Connection pin connectors. Crash tested by Holmes Solutions LP per test report 139719.00. Tested on asphalt with 3 pins per barrier on traffic side. HighwayGuard MDS - PennDOT Signed Drawings 052423</i></p>								

901.2 Temporary Barrier, Water-Filled

Last Revised: 10/23/2023

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FHWA Acceptance Letters (refer to the FHWA website for any subsequent or follow-up letters for each approved system): [Longitudinal Barrier Letters](#)

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	Tested Criteria	Barrier Material	Tested Height (in)	Dynamic Deflection	Approved Crash	FHWA Acc. Letter	Ref. No.
ARMOR 15 Armorcast Products Company, a Hubbell Company, 9140 Lurline Avenue, Chatsworth, CA 91311								
Temporary Water-Filled Barrier	Guardian Safety Barrier	NCHRP 350	Plastic with Steel Tubing	42	6.5 ft.	TL-3 (62 mph)	B-34E	----
ENERG 15 Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001								
Plant	Pell City, AL <i>Formerly Energy Absorption Systems</i>							
Temporary Water-Filled Barrier	Triton	NCHRP 350	Plastic with Steel Straps	32	12.8 ft.	TL-2 (44 mph)	B-21, SWM03b	----
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>								
Temporary Water-Filled Barrier	Triton	NCHRP 350	Plastic with Steel Straps	32	19 to 22.64 ft.	TL-3 (62 mph)	B-48, SWM03a	----
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>								
TRFXD 15 Traffix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673								
Temporary Water-Filled Barrier	Sentry	NCHRP 350	Plastic with Steel Cable	46	5.9 ft.	TL-2 (44 mph)	B-196	2010-039Q
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>								
Temporary Water-Filled Barrier	Sentry	NCHRP 350	Plastic with Steel Cable	46	9 ft.	TL-3 (62 mph)	B-196	2010-039Q
<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>								



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Product	Name	Tested Criteria	Barrier Material	Tested Height (in)	Dynamic Deflection	Approved Crash	FHWA Acc. Letter	Ref. No.
VALT9 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 57-65 Airds Road Minto NSW 2566, Australia							
	Temporary Water-Filled Barrier	ArmorZone	MASH 2016	33 7/8 in.	13.5 ft.	TL-2 (44 mph)	B-326	2023-121Q
YODOK 15 Plant	Valtir, LLC, 900 Patterson Drive, Bloomsburg, PA 17815 https://www.valtir.com/ Alliance OH & Brigham City, UT Formerly Trinity Highway Rentals, Inc.							
	Temporary Water-Filled Barrier	Model 2001	NCHRP 350	46	14 ft.	TL-3 (62 mph)	B-97	----
	<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>							
	Temporary Water-Filled Barrier	Model 2001M	NCHRP 350	32	12.1 ft.	TL-2 (44 mph)	B-97	----
	<i>FHWA Acceptance Letter: refer to the FHWA website for any subsequent or follow-up letters for each approved system.</i>							

901.2 Temporary Pavement Marking Tape, Nonremovable

Last Revised: 6/17/2015

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
FOLT- 15	FOL Tape, LLC, 2025 Hitzert Court, Fenton, MO 63026 http://www.foltape.com/				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Pavement Marking Tape, Nonremovable

Last Revised: 6/17/2015

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
FOLT- 15 FOL Tape, LLC, 2025 Hitzert Court, Fenton, MO 63026 http://www.foltape.com/					
Temporary Pavement Marking Tape, Nonremovable	FOL200	TPT-01	White	Asphalt and Concrete	1991-235
Temporary Pavement Marking Tape, Nonremovable	FOL200	TPT-01	Yellow	Asphalt and Concrete	1991-236
Temporary Pavement Marking Tape, Nonremovable	FOL300	TPT-01	White	Asphalt and Concrete	1991-237
Temporary Pavement Marking Tape, Nonremovable	FOL300	TPT-01	Yellow	Asphalt and Concrete	1991-238
SWAR0 15 Swarco Reflex LLC, 900 N. Denton, Mexia, TX 76667 https://www.swarco.com/northamerica					
Temporary Pavement Marking Tape, Nonremovable	Visa-Line C.G	TPT-02	White	Asphalt and Concrete	1991-229
Temporary Pavement Marking Tape, Nonremovable	Visa-Line C.G	TPT-02	Yellow	Asphalt and Concrete	1991-230
Temporary Pavement Marking Tape, Nonremovable	Visa-Line E.G	TPT-02	White	Asphalt and Concrete	1991-231
Temporary Pavement Marking Tape, Nonremovable	Visa-Line E.G	TPT-02	Yellow	Asphalt and Concrete	1991-232

901.2 Temporary Pavement Marking Tape, Removable

Last Revised: 1/26/2018

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
3M-03 15 3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/					
Plant Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
Temporary Pavement Marking Tape, Removable	Stamark 145	TT-01	Black Line Mask	Asphalt and Concrete	1992-190



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Pavement Marking Tape, Removable

Last Revised: 1/26/2018

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000				
	http://www.3m.com/3M/en_US/company-us/				
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000				
Temporary Pavement Marking Tape, Removable	Stamark 715	TT-01	Black Line Mask	Asphalt and Concrete	2011-215QC
Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 710	TT-01	White	Asphalt and Concrete	2011-215QA
Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 711	TT-01	Yellow	Asphalt and Concrete	2011-215QB
Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 780	TT-01	White	Asphalt and Concrete	2010-126QA
Temporary Pavement Marking Tape, Removable	Stamark Wet Reflective Tape Series 781	TT-01	Yellow	Asphalt and Concrete	2010-126QB
ADTMK 15	Advance Traffic Markings, P.O. Box H, Roanoke Rapids, NC 27870-8082 http://www.trafficmarkings.com/				
Temporary Pavement Marking Tape, Removable	280B 19-286 Black	TT-02	Black Line Mask	Asphalt and Concrete	----
Temporary Pavement Marking Tape, Removable	ATM200W 19-200/216	TT-02	White	Asphalt and Concrete	----
Temporary Pavement Marking Tape, Removable	ATM200Y 19-201/217	TT-02	Yellow	Asphalt and Concrete	----
BRITE 15	Brite-Line Technologies LLC, 10660 E. 51st Ave., Denver, CO 80239 http://brite-line.com/				
Temporary Pavement Marking Tape, Removable	Series 100	TT-03	White	Asphalt and Concrete	1992-188
Temporary Pavement Marking Tape, Removable	Series 100	TT-03	Yellow	Asphalt and Concrete	1993-159A
Temporary Pavement Marking Tape, Removable	TWR	TT-03	White	Asphalt and Concrete	----
Temporary Pavement Marking Tape, Removable	TWR	TT-03	Yellow	Asphalt and Concrete	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Pavement Marking Tape, Removable

Last Revised: 1/26/2018

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Tape Color	Tape Surface	Ref. No.
SWAR0 15 Swarco Reflex LLC, 900 N. Denton, Mexia, TX 76667 https://www.swarco.com/northamerica					
Temporary Pavement Marking Tape, Removable	Director 2	TT-05	White	Asphalt and Concrete	1991-227
Temporary Pavement Marking Tape, Removable	Director 2	TT-05	Yellow	Asphalt and Concrete	1991-228
Temporary Pavement Marking Tape, Removable	Director 2 WR	TT-07	White	Asphalt and Concrete	2010-008QA
Temporary Pavement Marking Tape, Removable	Director 2 WR	TT-07	Yellow	Asphalt and Concrete	2010-008QB
TAPE4 15 Tape 4, LLC, 2940 Mary Avenue, St. Louis, MO 63144 http://tape4.com/Tape4/Tape_4.html <i>Formerly Laminations PB (LAMPB 15)</i>					
Temporary Pavement Marking Tape, Removable	Aztec 102 Engr. Gr.		White	Asphalt and Concrete	1993-168A
Temporary Pavement Marking Tape, Removable	Aztec 390		Yellow	Asphalt and Concrete	1994-140

901.2 Temporary Portable Rumble Strips

Last Revised: 5/14/2020

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Pipe Certification	Ref. No.
PLASS 15 Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/ Facility Middlefield, OH				
Temporary Portable Rumble Strips	RoadQuake 2 (RQ2)	TPRS-01	Black	----
Temporary Portable Rumble Strips	RoadQuake 2 (RQ2)	TPRS-01	White	----
Temporary Portable Rumble Strips	RoadQuake 2 (RQ2)	TPRS-01	Orange	----
Temporary Portable Rumble Strips	RoadQuake 2F (RQ2F)			2015-120Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Temporary Portable Rumble Strips

Last Revised: 5/14/2020

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Pipe Certification	Ref. No.
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 Temporary Portable Rumble Strips	http://www.traffixdevices.com/ TraFFix Alert High Speed Rumble Strip		2019-222Q

901.2 Temporary Traffic Control Signals

Last Revised: 12/15/2021

For listing of approved products, see Section 958 Temporary Traffic Control Signals:

- * 958.2(b) On Fixed Supports
- * 958.2(c) On Pedestal-Mounted Portable Systems
- * 958.2(d) On Trailer-Mounted Portable Systems

Product	Name	Ref. No.
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901.2 Traffic Alert Radio

Last Revised: 4/13/2015

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08.

Product	Name	COA	Power	Ref. No.
TRFCN 15	Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 CB Radio	https://www.trafcon.com/ Wizard	Battery/Vehicle, AC with adapter	1998-007

901.2 Traffic Cones

Last Revised: 4/2/2024



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

Last Revised: 4/2/2024

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
HIGSP 15 Highway Safety Products, 1060 Kaiser Road, P. O. Box 4169, Napa, CA 94558 http://hsptrafficcones.com/						
Traffic Cone	BHSP 4328	TC-2	One piece	28	Fluorescent Orange	----
Traffic Cone	HSP 4328			28	Red Orange	1994-056
Traffic Cone	HSP 4328E-10		Slimline	28	Red Orange	1994-055
Traffic Cone	HSP 4336			36	Red Orange	1994-058
JBCSP 15 JBC Safety Plastic Inc., 16750 Chestnut Street, City of Industry, CA 91748 http://www.jbcasafetyplastic.com/						
Traffic Cone	RC70045S		10 lb Slimline	28	Fluorescent Orange	2004-035Q
Traffic Cone	RS70045CT		10 lb Wide Body	28	Fluorescent Orange	2005-104Q
Traffic Cone	RS90045CT		10 lb Wide Body	36	Fluorescent Orange	2018-204Q
LAKSD 15 Lakeside Plastics, Inc., 450 West 33rd Avenue, P.O. Box 2384, Oshkosh, WI 54903 http://www.lakesideplastics.net/index.html						
Traffic Cone	2815-10		10 lb Trimline	28	Orange / Black Base	2023-182Q
Traffic Cone	2825-10	TC-4	Trimline	28	Red Orange	1994-075
Traffic Cone	2850-10	TC-4		28	Red Orange	1994-078
Traffic Cone	2880-10		10 lb Wide Body	28	Orange / Black Base	2023-181Q
Traffic Cone	3680-10		10 lb Wide Body	36	Orange / Black Base	2023-183Q
Traffic Cone	3680-12		12 lb Wide Body	36	Orange / Black Base	2023-212Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

Last Revised: 4/2/2024

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
PLAPC 15 Facility	Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958 https://plasticade.com/ 7700 North Austin Avenue Skokie, IL 60077					
Traffic Cone	C-42 Channelizer			42	Fluorescent Orange	2006-048Q
	<i>Manufacturer certified as 2016 AASHTO MASH compliant without attachments (Certificate number PLAS-047).</i>					
Traffic Cone	Navigator Traffic Channelizer 650	TC-15		48	Orange	2012-157Q
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/ Middlefield, OH					
Traffic Cone	Navigator Channelizer	PTC-14		42	Fluorescent Orange	2010-275Q
	<i>Provisionally approved per COA PTC-14.</i>					
SERVM 15 Facility	Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041					
Traffic Cone	2058647			28	Red Orange / Black Base	1994-038
Traffic Cone	TC-28FH-PA		Slimline	28	Red Orange	2001-184Q
Traffic Cone	TC-28WH-PA		Wide Body	28	Red Orange	2001-183Q
TRFXD 15 Facility	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/					
Traffic Cone	Grabber 42000 Series	TC-13	16 lb or 30 lb rubber base only	42	Orange / Fluorescent Orange	----
Traffic Cone	Looper 46000 Series	TC-13	16 lb or 30 lb rubber base only	42	Orange / Fluorescent Orange	----
Traffic Cone	Spring Cone	TC-13			Orange	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Traffic Cones

Last Revised: 4/2/2024

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Cone Type	Height (in)	Cone Color	Ref. No.
UATLLC15 UAT LLC, 4010 Earls Court, Alpharetta, GA 30004 https://uatsupply.com/						
Traffic Cone	CW3M28-10		10 lb Wide Body	28	Orange	2017-224Q
Traffic Cone	NG3M28-10		10 lb	28	Orange	2019-079Q
Traffic Cone	NGCH6HIP		16 lb or 30 lb rubber base only	42	Orange	2021-027Q
<i>May not be used with a light or other attachment. 42" channelizing cone with Gorilla Grip handle.</i>						
Traffic Cone	NGSL3M28-10		10 lb Slimline	28	Orange	2019-205Q
WORKA 15 Hill & Smith Inc., 987 Buckeye Park Road, Columbus, OH 43207 https://hillandsmith.com/						
Facility	Work Area Protection, A Hill & Smith Inc. Brand 2500 Production Drive St. Charles, IL 60174					
Traffic Cone	18PVCS	TC-6	3 lb	18	Orange	1993-107
Traffic Cone	18PVCS	TC-6	3 lb	18	Orange	1994-071
Traffic Cone	28PVCH	TC-6	10 lb Wide Body	28	Orange	1993-109
Traffic Cone	28PVCH	TC-6	10 lb Wide Body	28	Orange	1994-073
Traffic Cone	28PVCH6CC4CC-BB (Product No. 412665)		10 lb	28	Orange / Black Base	2019-226Q
Traffic Cone	28PVCTLH	TC-6	10 lb	28	Orange	1993-108
Traffic Cone	28PVCTLH	TC-6	10 lb Trimline	28	Orange	1994-074
Traffic Cone	28PVCTLH6CC4CC-BB (Product No. 412663)		10 lb Trimline	28	Orange / Black Base	2021-003Q
Traffic Cone	36PVCS	TC-6	10 lb	36	Orange	1993-238
Traffic Cone	36PVCS	TC-6	10 lb	36	Orange	1994-072
Traffic Cone	36PVCS6CC4CC-BB (Product No. 412666)		10 lb	28	Orange / Black Base	2021-002Q



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 11/3/2023

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	COA	Approved Crash Test Level	Ref. No.	
ENERG 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/				
	Pell City, AL				
	Formerly Energy Absorption Systems				
	Trailer Impact Attenuator (TA)	Safe-Stop Trailer TMA, Model 9000	TMA-2	TL-3 (62 mph), NCHRP 350	----
	Trailer Impact Attenuator (TA)	SMT		TL-3 (62 mph), MASH 2016	2020-179Q
	<i>FHWA Eligibility Letter CC-160. SMT Approved Drawing (August 25, 2023)</i>				
	Trailer Impact Attenuator (TA)	VORTEQ M		TL-3 (62 mph), MASH 2016	2023-160Q
	<i>FHWA Eligibility Letter CC-172. VORTEQ M Approved Drawing (October 31, 2023)</i>				
	Trailer Impact Attenuator (TA)	Vorteq Trailer TMA	TMA-2	TL-3 (62 mph), NCHRP 350	----
	Truck-Mounted Impact Attenuator (TMA)	ALPHA 70K TMA		TL-2 (44 mph), NCHRP 350	1997-055
	Truck-Mounted Impact Attenuator (TMA)	ALPHA DXM		TL-2, MASH 2016	2023-162Q
	<i>FHWA Eligibility Letter CC-173. ALPHA DXM Approved Drawing (October 31, 2023)</i>				
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 8290	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----	
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 8291	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----	
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 8291CLC		TL-3 (62 mph), NCHRP 350	1999-177	
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9180	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----	



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 11/3/2023

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	COA	Approved Crash Test Level	Ref. No.
ENERG 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Suite 525, Addison, TX 75001 https://www.valtir.com/			
	Pell City, AL			
	Formerly Energy Absorption Systems			
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9181	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9182	TMA-2(14)	TL-3 (62 mph), NCHRP 350	----
Truck-Mounted Impact Attenuator (TMA)	Safe-Stop TMA, Model 9182LC	TMA-2	TL-3 (62 mph), NCHRP 350	----
Truck-Mounted Impact Attenuator (TMA)	SS180 M		TL-3 (62 mph), MASH 2016	2020-180Q
	<i>FHWA Eligibility Letter CC-159. SS180 M Approved Drawing (August 25, 2023)</i>			
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm			
Trailer Impact Attenuator (TA)	TTMA-100 Trailer Truck Mounted Attenuator	TA-01	TL-3 (62 mph), NCHRP 350	2013-147
Trailer Impact Attenuator (TA)	TTMA-200 Trailer Truck Mounted Attenuator		TL-3 (62 mph), MASH 2016	2020-152Q
	<i>Manufactured in Hartford City, IN by Specialty T. Crash Test Reports: TR-P38075-02-NC, TR-P38076-01-NC, TR-P38077-01-NC, and TR-P38078-01-NC. TTMA-200 Approved Drawing (April 19, 2021)</i>			



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 11/3/2023

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

	Product	Name	COA	Approved Crash Test Level	Ref. No.	
LINSY 15 Plant	Lindsay Transportation Solutions, LLC, 180 River Road, Rio Vista, CA 94571 http://www.lindsay.com/transportation-solutions					
		Trailer Impact Attenuator (TA)	U-MAD 100K Trailer Attenuator	TA-02	TL-3 (62 mph), NCHRP 350	2014-030Q
		Truck-Mounted Impact Attenuator (TMA)	U-MAD 100K	TMA-6	TL-3 (62 mph), NCHRP 350	2000-229Q
	Truck-Mounted Impact Attenuator (TMA)	U-MAD 70K	TMA-6	TL-2 (44 mph), NCHRP 350	2000-229Q	
RENCO 15	Renco Supply Inc., P.O. Box 730, Pflugerville, TX 78691 http://rencosupply.com/					
		Truck-Mounted Impact Attenuator (TMA)	RAM 100k	TMA-3	TL-3 (62 mph), NCHRP 350	-----
	Truck-Mounted Impact Attenuator (TMA)	Ren-Gard 815	TMA-3	TL-2 (44 mph), NCHRP 350	-----	
SYRS2 15	Syro, Inc., 2525 Stemmons Freeway, Dallas, TX 75207 http://www.syrologistics.com/					
	Truck-Mounted Impact Attenuator (TMA)	MPS-350III		TL-3 (62 mph), NCHRP 350	1997-035	



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 11/3/2023

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	COA	Approved Crash Test Level	Ref. No.
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/			
Trailer Impact Attenuator (TA)	Scorpion II TA with Arrowboard Lift		TL-3 (62 mph), MASH 2016	2019-009Q
	<i>FHWA Eligibility Letter CC-138. Scorpion II TA with Arrowboard Lift Approved Drawing (May 17, 2021)</i>			
Trailer Impact Attenuator (TA)	Scorpion Model 10002 TL3-12TA Trailer	TMA-7	TL-3 (62 mph), NCHRP 350	----
Truck-Mounted Impact Attenuator (TMA)	Scorpion II METRO TMA		TL-2 (50 mph), MASH 2016	2020-147Q
	<i>FHWA Eligibility Letter: CC-158 Scorpion II METRO TMA Approved Drawing (May 17, 2021)</i>			
Truck-Mounted Impact Attenuator (TMA)	Scorpion II Series 10000 TMA		TL-3 (62 mph), MASH 2016	2019-008Q
	<i>FHWA Eligibility Letter: CC-132 Scorpion II TMA Approved Drawing (October 19, 2019)</i>			
Truck-Mounted Impact Attenuator (TMA)	Scorpion Model A 10,000		TL-2 (44 mph), NCHRP 350	2000-301Q
Truck-Mounted Impact Attenuator (TMA)	Scorpion Model C 10,000		TL-3 (62 mph), NCHRP 350	2000-301Q
TRIN5 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/			
	15601 Dallas Parkway Addison, TX 75001			
	Formerly Trinity Highway Products, LLC			
Truck-Mounted Impact Attenuator (TMA)	MPS-350	TMA-1(03)	TL-3 (62 mph), NCHRP 350	-



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA)

Last Revised: 11/3/2023

FHWA Eligibility Letters for TMA's: [Terminals/Crash Cushions Letters](#)

Truck-Mounted Impact Attenuators (TMA) & Trailer Impact Attenuators (TA): Installed on or connected to the shadow vehicle, as required in Pub 212, Pub 213, and the MUTCD. Category 3 Temporary Traffic Control Devices

Category 3 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2026. Policy reflecting this information will be released on or before December 31, 2021 per SOL 494-21-08.

Product	Name	COA	Approved Crash Test Level	Ref. No.
VERDE 15 Facility	Verdegro USA LLC, Biscayne Blvd., Suite 505, Miami, FL 33132 Munnikenheiweg 59 4879 NE Etten Leur, The Netherlands Truck-Mounted Impact Attenuator (TMA)	https://www.blade-tma.com/ BLADE TMA	TL-3 (62 mph), MASH 2016	2017-242Q
<i>FHWA Eligibility Letter: CC-136</i>				

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 10/20/2021

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Height (in)	Tubular Marker	Tubular Marker	Ref. No.
CARST 15	Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108	http://www.carsonite.com/				
Tubular Marker	SDR-3028-01	TM-09	28	White	Butyl Pad	----
Tubular Marker	SDR-3028-02	TM-09	28	Yellow	Butyl Pad	----
Tubular Marker	SDR-3028-04	TM-09	28	Orange	Butyl Pad	----
Tubular Marker	Super Duck SDR3-036-01	TM-09	36	White	Butyl Pad	----
Tubular Marker	Super Duck SDR3-036-02	TM-09	36	Yellow	Butyl Pad	----
Tubular Marker	Super Duck SDR3-036-04	TM-09	36	Orange	Butyl Pad	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 10/20/2021

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Height (in)	Tubular Marker	Tubular Marker	Ref. No.
CARST 15 Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/						
Tubular Marker	The Channelizer SDC-2-036-01	TM-09	36	White	Butyl Pad or Epoxy	----
Tubular Marker	The Channelizer SDC-2-036-02	TM-09	36	Yellow	Butyl Pad or Epoxy	----
Tubular Marker	The Channelizer SDC-2-048-01	TM-09	48	White	Butyl Pad or Epoxy	----
Tubular Marker	The Channelizer SDC-2-048-02	TM-09	48	Yellow	Butyl Pad or Epoxy	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 10/20/2021

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Height (in)	Tubular Marker	Tubular Marker	Ref. No.
FLEXS 15 FlexStake, Inc., 2150 Andrea Lane, Fort Myers, FL 33912 http://www.flexstake.com/						
Tubular Marker	TM 753 Blue	TM-10	36	Blue	Butyl Pad	----
Tubular Marker	TM 753 Brown	TM-10	36	Brown	Butyl Pad	----
Tubular Marker	TM 753 Gray	TM-10	36	Gray	Butyl Pad	----
Tubular Marker	TM 753 Green	TM-10	36	Green	Butyl Pad	----
Tubular Marker	TM 753 Orange	TM-10	36	Orange	Butyl Pad	----
Tubular Marker	TM 753 Red	TM-10	36	Red	Butyl Pad	----
Tubular Marker	TM 753 White	TM-10	36	White	Butyl Pad	----
Tubular Marker	TM 753 Yellow	TM-10	36	Yellow	Butyl Pad	----
Tubular Marker	TM 754 Blue	TM-10	48	Blue	Butyl Pad	----
Tubular Marker	TM 754 Brown	TM-10	48	Brown	Butyl Pad	----
Tubular Marker	TM 754 Gray	TM-10	48	Gray	Butyl Pad	----
Tubular Marker	TM 754 Green	TM-10	48	Green	Butyl Pad	----
Tubular Marker	TM 754 Orange	TM-10	48	Orange	Butyl Pad	----
Tubular Marker	TM 754 Red	TM-10	48	Red	Butyl Pad	----
Tubular Marker	TM 754 White	TM-10	48	White	Butyl Pad	----
Tubular Marker	TM 754 Yellow	TM-10	48	Yellow	Butyl Pad	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 10/20/2021

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Height (in)	Tubular Marker	Tubular Marker	Ref. No.	
PEXCO 15 Plant	PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 http://www.pexco.com/traffic						
	3110 70th Avenue East Tacoma, WA 98424						
	Tubular Marker	FG 300-UR/18" Orange	TM-13	18	Orange	Epoxy	----
	Tubular Marker	FG 300-UR/18" White	TM-13	18	White	Epoxy	----
	Tubular Marker	FG 300-UR/18" Yellow	TM-13	18	Yellow	Epoxy	----
	Tubular Marker	FG 300-UR/24" Orange	TM-13	24	Orange	Epoxy	----
	Tubular Marker	FG 300-UR/24" White	TM-13	24	White	Epoxy	----
	Tubular Marker	FG 300-UR/24" Yellow	TM-13	24	Yellow	Epoxy	----
	Tubular Marker	FG 300-UR/36" Orange	TM-13	36	Orange	Epoxy	----
	Tubular Marker	FG 300-UR/36" White	TM-13	36	White	Epoxy	----
Tubular Marker	FG 300-UR/36" Yellow	TM-13	36	Yellow	Epoxy	----	
Tubular Marker	TSM36W		36	White	Butyl Pad, Epoxy, or Anchor Bolts	2021-044Q	



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 10/20/2021

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Height (in)	Tubular Marker	Tubular Marker	Ref. No.
SAFHC 15	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/					
Plant	70 West Madison Street Suite 2350 Chicago, IL 60602					
	<i>Formerly Safe-Hit Corporation</i>					
Tubular Marker	SH518SMTEAOS	TM-07	18	Orange	Epoxy	----
	<i>Use Master Builders Concessive 1011 Epoxy 1 to 1 Mix</i>					
Tubular Marker	SH518SMTEAWS	TM-07	18	White	Epoxy	----
	<i>Use Master Builders Concessive 1011 Epoxy 1 to 1 Mix</i>					
Tubular Marker	SH518SMTEAYS	TM-07	18	Yellow	Epoxy	----
	<i>Use Master Builders Concessive 1011 Epoxy 1 to 1 Mix</i>					
Tubular Marker	SH524SMAEAOS	TM-07	24	Orange	Butyl Pad	----
Tubular Marker	SH524SMAEAWS	TM-07	24	White	Butyl Pad	----
Tubular Marker	SH524SMAEAYS	TM-07	24	Yellow	Butyl Pad	----
Tubular Marker	SH536SMTEOOS	TM-07	36	Orange	Butyl Pad	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Tubular Markers (Traffic Guide Posts)

Last Revised: 10/20/2021

The listed devices have been self-certified for crashworthiness by the vendor and are deemed compliant with NCHRP-350.

Category 1 Temporary Traffic Control Device: Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Height (in)	Tubular Marker	Tubular Marker	Ref. No.
UNISO 15 UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/						
<i>Formerly PIBH- 15</i>						
Tubular Marker	PIBH-18TM Orange	TM-11	18	Orange	Epoxy	----
Tubular Marker	PIBH-18TM White	TM-11	18	White	Epoxy	----
Tubular Marker	PIBH-18TM Yellow	TM-11	18	Yellow	Epoxy	----
Tubular Marker	PIBH-24TM Orange	TM-11	24	Orange	Epoxy	----
Tubular Marker	PIBH-24TM White	TM-11	24	White	Epoxy	----
Tubular Marker	PIBH-24TM Yellow	TM-11	24	Yellow	Epoxy	----
Tubular Marker	PIBH-28TM Orange	TM-11	28	Orange	Epoxy	----
Tubular Marker	PIBH-28TM White	TM-11	28	White	Epoxy	----
Tubular Marker	PIBH-28TM Yellow	TM-11	28	Yellow	Epoxy	----
Tubular Marker	PIBH-36TM Blue	TM-11	36	Blue	Epoxy	----
Tubular Marker	PIBH-36TM Orange	TM-11	36	Orange	Epoxy	----
Tubular Marker	PIBH-36TM White	TM-11	36	White	Epoxy	----
Tubular Marker	PIBH-36TM Yellow	TM-11	36	Yellow	Epoxy	----
Tubular Marker	PIBH-48TM Blue	TM-11	48	Blue	Epoxy	----
Tubular Marker	PIBH-48TM Orange	TM-11	48	Orange	Epoxy	----
Tubular Marker	PIBH-48TM White	TM-11	48	White	Epoxy	----
Tubular Marker	PIBH-48TM Yellow	TM-11	48	Yellow	Epoxy	----
Tubular Marker	PIBH-TMB	TM-11				----
<i>Surface Mount Base, Pin Lock, Epoxy</i>						

901.2 Variable Speed Limit Signs

Last Revised: 10/30/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Variable Speed Limit Signs

Last Revised: 10/30/2023

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	Speed Display Mo	Speed Display Po	Ref. No.	
ASTIT 15 ASTI Transportation Systems, 18 Blevins Drive, New Castle, DE 19720 http://www.asti-trans.com/	Variable Speed Limit Sign	CST-1	VSL-1	Trailer	Solar Battery	-----
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/	Variable Speed Limit Sign	SST-2W	VSL-2	Trailer	Solar Battery	-----
WANCN 15 Wanco, Inc., 5870 Tennyson Street, Arvada, CO 80003-6903 http://www.wanco.com/	Variable Speed Limit Sign	WVSL		Trailer	Solar Battery	2021-145Q

901.2 Vertical Panels

Last Revised: 6/5/2023

Category 2 Temporary Traffic Control Device (without auxiliary devices): Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

FHWA Eligibility Letters: [Work Zone Devices](#)

Product	Name	COA	Panel Type	Approved Crash Test Level	Ref. No.	
CORTI 15 Cortina Safety Products, 10706 West Grand Ave., Franklin Park, IL 60131 http://www.cortinaco.com/safety-products/cortina-safety-products/	Vertical Panel	Trailblazer XL, Model 03-768-HI	Single Panel	TL-3 (62 mph), MASH 2016	2023-085Q	
	<i>May be used with light. FHWA Eligibility Letter WZ-446.</i>					
IMPRS 15 Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/	Vertical Panel	320 F Fixed Base	VP-4	Single Panel	TL-2 (44 mph)	-----
	Vertical Panel	320 F Portable Base	VP-4	Single Panel	TL-3 (62 mph)	-----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Vertical Panels

Last Revised: 6/5/2023

Category 2 Temporary Traffic Control Device (without auxiliary devices): Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

FHWA Eligibility Letters: [Work Zone Devices](#)

Product	Name	COA	Panel Type	Approved Crash Test Level	Ref. No.
PLAPC 15 Facility	Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958 https://plasticade.com/ 7700 North Austin Avenue Skokie, IL 60077				
Vertical Panel	Gemstone Vertical Panel		Single Panel	TL-3 (62 mph), MASH 2016	2021-026Q
	<i>May be used with light. FHWA Eligibility Letter: WZ-300</i>				
Vertical Panel	Verticade	VP-1	Single Panel	TL-3 (62 mph), MASH 2016	-----
	<i>May be used with light. FHWA Eligibility Letter WZ-411. Product originally named "Extended Vertical Safetycade".</i>				
PLASS 15 Facility	Plastic Safety Systems, Inc., 2444 Baldwin Road, P.O. Box 20140, Cleveland, OH 44104 http://plasticsafety.com/ Middlefield, OH				
Vertical Panel	MVP	VP-5	Single Panel	TL-3 (62 mph)	-----
	<i>May be used with light</i>				
PROTE 15 Facility	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032				
Vertical Panel	Big Foot	VP-2	Single Panel	TL-3 (62 mph)	-----
	<i>May be used with light. This arrow panel model is no longer being manufactured, but may be in use.</i>				
Vertical Panel	Big Foot II	VP-2	Single Panel	TL-3 (62 mph)	-----
	<i>May be used with light. This arrow panel model is no longer being manufactured, but may be in use.</i>				
SAFHC 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 70 West Madison Street Suite 2350 Chicago, IL 60602 Formerly Safe-Hit Corporation				
Vertical Panel	RT 360 VP	VP-7	Single Panel	TL-3 (62 mph)	-----
	<i>May be used with light</i>				



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Vertical Panels

Last Revised: 6/5/2023

Category 2 Temporary Traffic Control Device (without auxiliary devices): Self-Certification based on PennDOT's Publication 213: Temporary Traffic Control Guidelines, Appendix C, TTC Device Quality Guidelines per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

FHWA Eligibility Letters: [Work Zone Devices](#)

Product	Name	COA	Panel Type	Approved Crash Test Level	Ref. No.
THDTW 15 Three D Traffic Works, Inc., 430 North Varney Street, Burbank, CA 91502 http://www.trafficwks.com/					
Vertical Panel <i>May be used with light</i>	TD6000	VP-6	Single Panel	TL-3 (62 mph)	----
Vertical Panel <i>May be used with light. Crashworthy to NCHRP-350 criteria per FHWA Eligibility Letter WZ-271.</i>	TD6500	VP-6	Single Panel	TL-3 (62 mph)	2007-067Q
TRFXD 15 TrafFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673 http://www.traffixdevices.com/					
Vertical Panel <i>May be used with light</i>	33000 Series	VP-3	Single Panel	TL-3 (62 mph)	----
Vertical Panel <i>May be used with light</i>	40000 Series	VP-3	Double Panel	TL-3 (62 mph)	----
UATLLC15 UAT LLC, 4010 Earls Court, Alpharetta, GA 30004 https://uatsupply.com/					
Vertical Panel <i>May be used with or without warning light. Manufactured by Custom-Pak Incorporated in Clinton, IA. Meets MASH 2016 crash testing criteria per FHWA Eligibility Letter WZ-348.</i>	UAT Vertical Panel		Single Panel	TL-3 (62 mph), MASH 2016	2021-184Q
UNISO 15 UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i>					
Vertical Panel	320 Series	VP-8	Single Panel	TL-2 (44 mph)	----
Vertical Panel	320 Series	VP-8	Single Panel	TL-3 (62 mph)	----

901.2 Warning Lights (Auxiliary Devices)

Last Revised: 3/18/2022

Product	Name	COA	Ref. No.
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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights (Auxiliary Devices)

Last Revised: 3/18/2022

Product	Name	COA	Ref. No.
C&CSG 15 C&C Signal, LLC, 216 South Alma School Road, Mesa, AZ 85210			
Warning Light: Type A, Yellow	BL1V.3W00	WL-13	----
Warning Light: Type A, Yellow	BL3V.3WXX	WL-13	----
Warning Light: Type A, Yellow	BLU36.3W	WL-13	----
Warning Light: Type A, Yellow	BLU36.3W00	WL-13	----
Warning Light: Type A, Yellow	SB.ACX	WL-13	----
Warning Light: Type B, White <i>Provisionally Approved</i>	BL3V.BL100	PWL-5	----
Warning Light: Type B, White <i>Provisionally Approved</i>	BLU6.BL100	PWL-5	----
Warning Light: Type B, Yellow	BL3V.BL100	WL-13	----
Warning Light: Type B, Yellow	BLU6.BL1-DH	WL-13	----
Warning Light: Type B, Yellow	BLU6.BL100	WL-13	----
Warning Light: Type C, Yellow	BL1V.3W00	WL-13	----
Warning Light: Type C, Yellow	BL3V.3WXX	WL-13	----
Warning Light: Type C, Yellow	BLU36.3W	WL-13	----
Warning Light: Type C, Yellow	BLU36.3W00	WL-13	----
Warning Light: Type C, Yellow	SB.ACX	WL-13	----
COLLT 15 Collt Manufacturing, Inc., 249 Hollis St., Holliston, MA 01746 http://www.collt.com/			
Warning Light: Type A, Yellow	PS-120		----
Warning Light: Type A, Yellow	PS-600		----
Warning Light: Type A, Yellow	RS-120		1984-126
Warning Light: Type B, Yellow	12-B		1984-125
Warning Light: Type C, Yellow	PSB-600		1984-127



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights (Auxiliary Devices)

Last Revised: 3/18/2022

Product	Name	COA	Ref. No.
EMPCL 15 Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/			
Warning Light: Type A, Yellow	100	WL-2	----
Warning Light: Type A, Yellow	100 LED	WL-2	1995-195
Warning Light: Type A, Yellow	2006	WL-2	----
Warning Light: Type A, Yellow	400	WL-2	----
Warning Light: Type A, Yellow	400 LED	WL-2	1995-196
Warning Light: Type A, Yellow	444 LED	WL-2	1999-040Q
Warning Light: Type A, Yellow	499L3	WL-2	----
Warning Light: Type A, Yellow	Y2K	WL-2	2000-162Q
Warning Light: Type B, White	212-6LW	WL-2	----
Warning Light: Type B, Yellow	1002	WL-2	----
Warning Light: Type B, Yellow	1002S	WL-2	----
Warning Light: Type B, Yellow	1102	WL-2	----
Warning Light: Type B, Yellow	1102L	WL-2	1996-085
Warning Light: Type B, Yellow	212 LED	WL-2	1997-179
Warning Light: Type B, Yellow	212-3	WL-2	----
Warning Light: Type B, Yellow	212-3DSL LED	WL-2	----
<i>Provisionally Approved</i>			
Warning Light: Type B, Yellow	212-3LW	WL-2	----
Warning Light: Type B, Yellow	212-3S	WL-2	----
<i>Provisionally Approved</i>			
Warning Light: Type B, Yellow	212-6	WL-2	----
Warning Light: Type B, Yellow	212-6DH	WL-2	----
Warning Light: Type B, Yellow	213-3DH	WL-2	----
Warning Light: Type C, Yellow	100	WL-2	----
Warning Light: Type C, Yellow	100 LED	WL-2	1995-133
Warning Light: Type C, Yellow	2006	WL-2	----
Warning Light: Type C, Yellow	400	WL-2	----
Warning Light: Type C, Yellow	400 LED	WL-2	1994-270



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights (Auxiliary Devices)

Last Revised: 3/18/2022

Product	Name	COA	Ref. No.
EMPCL 15 Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/			
Warning Light: Type C, Yellow	400 LED-DH	WL-2	1994-134
Warning Light: Type C, Yellow	499L3	WL-2	----
Warning Light: Type C, Yellow	Y2K	WL-2	2000-162Q
Warning Light: Type D, Yellow	499L3D	WL-2	----
PENTC 15 Pennsylvania Turnpike Commission, P.O. Box 67676, Harrisburg, PA 17106 https://www.paturndpike.com/			
Warning Light: Type B, Yellow <i>May be used only with W21-19 sign. Provisionally Approved</i>	T-1	PWL-3	----



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights (Auxiliary Devices)

Last Revised: 3/18/2022

Product	Name	COA	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032			
Warning Light: Type A, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	PF-4	WL-1	----
Warning Light: Type A, Yellow <i>This product is no longer being manufactured, but may be in use. Cathodic Protection (CP) Systems</i>	PF3-P-12V-A	WL-1	----
Warning Light: Type A, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	PF3P-12V-PC-S	WL-1	----
Warning Light: Type A, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	PF4P-12V-PC-S		1983-069
Warning Light: Type A, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	PF4P-LED-6V-FL		1996-103A
Warning Light: Type B, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	200 LED		1995-075
Warning Light: Type B, Yellow <i>May be used only with W21-19 sign. Provisionally Approved. This product is no longer being manufactured, but may be in use.</i>	Active WZ Light (Act 229)	PWL-4	----
Warning Light: Type B, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	HI-3		1987-313
Warning Light: Type B, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	HI-3-120	WL-1	----
Warning Light: Type B, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	HI-3-12V	WL-1	----
Warning Light: Type B, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	HI-4		1983-143
Warning Light: Type C, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	200-1-LED		1995-004
Warning Light: Type C, Yellow <i>This product is no longer being manufactured, but may be in use.</i>	PF-3-PC-SB2	WL-1	----
Warning Light: Type C, Yellow	PF-3P-6V-SBP-CS		1983-071



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Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights (Auxiliary Devices)

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Product	Name	COA	Ref. No.
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032			
<i>This product is no longer being manufactured, but may be in use.</i>			
Warning Light: Type C, Yellow	PF-3P-6VC	WL-1	----
<i>This product is no longer being manufactured, but may be in use.</i>			
Warning Light: Type C, Yellow	PF-4-PC-SB	WL-1	----
<i>This product is no longer being manufactured, but may be in use.</i>			
Warning Light: Type C, Yellow	PF4P-LED-6V-FL		1996-103B
<i>This product is no longer being manufactured, but may be in use.</i>			
SERV 15 Service & Materials Company, Inc., 4835 East County Road 600, Sunman, IN 47041			
Warning Light: Type A, Yellow	301		1981-103
Warning Light: Type A, Yellow	501		1981-103
Warning Light: Type A, Yellow	NF5003		1983-139
Warning Light: Type A, Yellow	PAR7003		1983-140
Warning Light: Type B, Yellow	NF1714	WL-9	----
Warning Light: Type B, Yellow	NF1724	WL-9	----
Warning Light: Type B, Yellow	PAR1764	WL-9	----
Warning Light: Type B, Yellow	PAR1774	WL-9	----
Warning Light: Type C, Yellow	301		1981-103
Warning Light: Type C, Yellow	501		1981-103
Warning Light: Type C, Yellow	NF5001	WL-9	----
Warning Light: Type C, Yellow	PAR7001	WL-9	----
TRFCN 15 Trafcon Industries, Inc., 81 Texaco Road, Mechanicsburg, PA 17050 https://www.trafcon.com/			
Warning Light: Type B, Yellow	M90		1990-021
WLITL 15 WLI Industries, Inc., 880 North Addison Road, Villa Park, IL 60181			
Warning Light: Type A, Yellow	Toughlite 2000	WL-11	----
Warning Light: Type C, Yellow	Toughlite 2000	WL-11	----
Warning Light: Type C, Yellow	Toughlite II	WL-11	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights (Auxiliary Devices)

Last Revised: 3/18/2022

Product	Name	COA	Ref. No.
WORKA 15 Hill & Smith Inc., 987 Buckeye Park Road, Columbus, OH 43207 https://hillandsmith.com/			
Facility	Work Area Protection, A Hill & Smith Inc. Brand	2500 Production Drive	St. Charles, IL 60174
Warning Light: Type B, Yellow	2524	WL-12	----
Warning Light: Type B, Yellow	2540	WL-12	----

901.2 Warning Lights, Sequential (Auxiliary Devices)

Last Revised: 5/19/2021

Product	Name	COA	Ref. No.
EMPCL 15 Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120 http://www.elginmolded.com/			
Sequential Warning Lights	Empco-Lite Model 2006		2014-217Q
PIVAR 15 Pi Variables, Inc., 14831 Myford Road, Tustin, CA 92780 http://pivvariables.com/			
Sequential Warning Lights	Pi-Lit Barricade Style		2014-011
Sequential Warning Lights	Pi-Lit Sunflower Sequential Cone-Top Warning Lamp		2016-293Q
<i>Provisional Approval for Sunflower Cone-Top Lamps - Contact Ryan Palman (rpalman@pa.gov) before using on a Department highway.</i>			
<i>FHWA Crashworthiness Eligibility: Self-Certification</i>			

UNID2 15 Unipart Dorman, Wennington Road, Southport, England PR97TN

Sequential Warning Lights	ConeLITE Synchro		2016-137
<i>This light cannot be used on 28" cones due to the MUTCD requirement of a 30" minimum mounting height (Section 6F.83 paragraph 11). FHWA MASH Crashworthiness Eligibility Letter: WZ-339</i>			
Sequential Warning Lights	Eco Synchro4D		2021-071Q
<i>These lights provide 'Dusk till Dawn' operation and where ambient lighting is poor. To be installed per FHWA Policy Memo WZ-54.</i>			



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 901: Maintenance and Protection of Traffic During Construction

901.2 Warning Lights, Sequential (Auxiliary Devices)

Last Revised: 5/19/2021

Product	Name	COA	Ref. No.
UNIDO 15 Unipart Dorman, 173 Main Street, Bath, Ontario, Canada K0H 1G0 http://www.unipartdorman.com/ Sequential Warning Lights	SynchroGUIDE model BAB6N/AW/P/H		2012-164Q

901.3(b) Dust Control Palliatives

Last Revised: 6/23/2016

Publication 447, Section MS-0440-0020 Dust Palliatives [Publication 447, Approved Products for Lower Volume Local Roads](#)

Dust palliatives referenced in Pub 447, MS-0440-0020 are approved through the PennState Center for Dirt and Gravel Road Studies. To view the approved list and application rates: [The Dirt & Gravel Maintenance Program, Approved Products List](#)

Product	Name	Ref. No.
D&DEM 15 D & D Emulsions Inc., 270 Park Avenue East, P.O. Box 1706, Mansfield, OH 44901 http://ddemulsionsinc.com/ Emulsified Petroleum Resins	Coherex	2000-133Q
ENVES 15 Environmental Energy Solutions, LLC, 10027 Route 403 Highway South, Seward, PA 15954 http://www.eesolutionsllc.com/ Emulsified Petroleum Resins	Ultra Bond 2000	2000-235Q
GAPAC 15 Georgia-Pacific Corporation, 777 N. Eldridge Parkway, Houston, TX 77079 http://www.gp.com/ Calcium Lignosulfonate	Lignosite	1992-110
PENSU 15 PennzSuppress Corporation, P.O. Box 4993, Lago, TX 78701 http://pennzsuppress.com/ Plant 77 North Kendall Avenue Bradford, PA 16701 Emulsified Petroleum Resins	PennzSuppress-D	1991-177
SUIT0 15 Suit-Kote Corporation, 1911 Lorings Crossing Rd, Cortland, NY 13045-5160 http://www.suit-kote.com/ Calcium Lignosulfonate	CLS	1996-168
SUIT3 15 Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/ Facility Cortland, NY Emulsified Petroleum Resins		1997-188



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 910: Highway Lighting

910.3(d) Pole Foundations (Alternates): Drilled Concrete Caissons

Last Revised: 7/13/2017

Approved product alternative for Section 910.3(d).

Strike Off Letters (SOL) and Drawings for [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
SHAIN 15 Shaner Industries, LLC, 260 Pullman Square #169, Butler, PA 16001 http://www.shanerindustries.com/			
Pole Foundation (Alternate): Drilled Concrete Caisson	Metal Finned Pipe Foundations for Conventional Lighting Pole	483-16-06	2016-162
<i>Drawing Number: 99-034 PE , Approval Date on Drawing: 10/6/2016. The alternate foundation design for conventional lighting has been approved under ECMS Special Provision c09101 ITEM 9910-0150. Approved Bridge and Structure Products</i>			
Pole Foundation (Alternate): Drilled Concrete Caisson	Metal Foundations for High Mast Lighting Pole	483-16-01	1995-291
<i>Drawing Number: 95-291, PE, Rev. 2, Approval Date on Drawing: 3/7/2016. The alternate foundation design for high mast lighting has been approved under ECMS Special Provision c09102 ITEM 9910-0170. Approved Bridge and Structure Products</i>			



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 930: Post Mounted Signs, Type A

930.2(c)2 Post Mounted Signs, Type A: Foundations (Alternatives)

Last Revised: 3/27/2015

Approved product alternatives for Section 930.2(c)1, Cast in Place.

Product	Name	COA	Ref. No.
SHAIN 15 Shaner Industries, LLC, 260 Pullman Square #169, Butler, PA 16001 http://www.shanerindustries.com/			
Steel Finned Pipe Foundation	Safe (Sign Foundation)		1995-290



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

	Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
3M-06 15 Plant	3M Company, 4501 Highway 377 South, Brownwood, TX 76804 http://www.3m.com/3M/en_US/company-us/ 4501 Highway 377 South Brownwood, TX 76804						
	Linear Delineation System Series 340	LDS-341.5 (1.5 inch)	LDS-01				2013-150
	<i>Installation with manual fasteners only.</i>						
	Linear Delineation System Series 340	LDS-344 (4 inch)	LDS-01				2013-150
	<i>Installation with manual fasteners only.</i>						
	Linear Delineation System Series 340	LDS-346 (6 inch)	LDS-01				2013-150
	<i>Installation with manual fasteners only.</i>						
AMEMP 15	American Molded Plastic, Inc., P.O. Box 434, Newton Falls, OH 44444 http://americanmoldedplastic.com/						
	Barrier Mounted Delineator	Flex-D	BMD-12	White and Yellow	Single/Bidirectional	Type R	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
ARTUK 15 Artuk Corporation, 1200 Abbott Dr., Elgin, IL 60123 http://artukinc.com/						
Barrier Mounted Delineator	FB-38	BMD-06	White and Yellow	Impact Resistant, Single Direction, Single/Double Sided	Type P	----
Barrier Mounted Delineator	FB33-1	BMD-08	White and Yellow	Impact Resistant, Single Direction	Type O	----
<i>(Formerly listed under Supplier Code ASTR-15)</i>						
Barrier Mounted Delineator	FB33-2	BMD-08	White and Yellow	Impact Resistant, Bidirectional	Type O	----
<i>(Formerly listed under Supplier Code ASTR-15)</i>						
Barrier Mounted Delineator	FB34-1	BMD-08	White and Yellow	Impact Resistant, Single Direction	Type O	----
<i>(Formerly listed under Supplier Code ASTR-15)</i>						
Barrier Mounted Delineator	FB34-2	BMD-08	White and Yellow	Impact Resistant, Bidirectional	Type O	----
<i>(Formerly listed under Supplier Code ASTR-15)</i>						
Barrier Mounted Delineator	FT-1	BMD-06	White and Yellow	Impact Resistant, Single Direction, Single Sided	Type R	----
Barrier Mounted Delineator	FT-2	BMD-06	White and Yellow	Impact Resistant, Bidirectional, Double Sided	Type R	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 https://easternmetalsignsandsafety.com/						
Barrier Mounted Delineator	660-IR-BMD	BMD-01			Type O	----
Barrier Mounted Delineator	661-IR-BMD	BMD-01	White and Yellow	Impact Resistant, Single Direction	Type O	----
Barrier Mounted Delineator	662-IR-BMD	BMD-01	White and Yellow	Impact Resistant, Bidirectional	Type O	----
EXTRU 15 Extrudex, LLP, 310 Figgie Road, Painesville, OH 44077 https://extrudex.net/ Formerly Hall Manufacturing & Intek Plastics (HALMC 15)						
Barrier Mounted Delineator	Flexx 2020	BMD-09	White and Yellow	Impact Resistant, Single/Bidirectional	Type R	----
PEXCO 15 PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 http://www.pexco.com/traffic Plant 3110 70th Avenue East Tacoma, WA 98424						
Barrier Mounted Delineator	PCBM T12	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type R	----
Barrier Mounted Delineator	PCBM-12	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type O	----
Barrier Mounted Delineator	PCBM-15	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type P	----



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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
SAFHC 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 70 West Madison Street Suite 2350 Chicago, IL 60602 <i>Formerly Safe-Hit Corporation</i>					
Barrier Mounted Delineator	SH216RBM-AS, 16" Post	BMD-05	Gray	Impact Resistant, Single Direction	Type S	----
Barrier Mounted Delineator	SH216RBM-RS, 16" Post	BMD-05	Red	Impact Resistant, Single Direction	Type S	----
Barrier Mounted Delineator	SH216RBM-YA, 16" Post	BMD-05	Yellow	Impact Resistant, Single Direction	Type S	----
Barrier Mounted Delineator	SH216RBMD-A, 16" Post	BMD-05	Gray	Impact Resistant, Bidirectional	Type S	----
Barrier Mounted Delineator	SH216RBMD-R, 16" Post	BMD-05	Red	Impact Resistant, Bidirectional	Type S	----
Barrier Mounted Delineator	SH216RBMD-W, 16" Post	BMD-05	White	Impact Resistant, Bidirectional	Type S	----
Barrier Mounted Delineator	SH216RBMD-Y, 16" Post	BMD-05	Yellow	Impact Resistant, Bidirectional	Type S	----
Barrier Mounted Delineator	SH216RMB-WS, 16" Post	BMD-05	White	Impact Resistant, Single Direction	Type S	----



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Section 937: Delineation Devices

937.2(a) Delineation Devices, Barrier Mount

Last Revised: 10/27/2017

For barrier delineator type drawings (Side-Mount types R and O; Top-Mount types P, S, R, and WZ), see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i>					
Barrier Mounted Delineator	PIBH-16BMW, 16" Post	BMD-07	White	Impact Resistant, Single/Bidirectio nal	Type S	----
Barrier Mounted Delineator	PIBH-16BMY, 16" Post	BMD-07	Yellow	Impact Resistant, Single/Bidirectio nal	Type S	----
Barrier Mounted Delineator	PIBH-BMB BM Base	BMD-07		Pin Lock, Epoxy		----

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
3M-06 15 Plant	3M Company, 4501 Highway 377 South, Brownwood, TX 76804 http://www.3m.com/3M/en_US/company-us/ 4501 Highway 377 South Brownwood, TX 76804					
Linear Delineation System Series 340	LDS-341.5 (1.5 inch)	LDS-01				2013-150
	<i>Installation with manual fasteners only.</i>					
Linear Delineation System Series 340	LDS-344 (4 inch)	LDS-01				2013-150
	<i>Installation with manual fasteners only.</i>					
Linear Delineation System Series 340	LDS-346 (6 inch)	LDS-01				2013-150
	<i>Installation with manual fasteners only.</i>					



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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
AMEMP 15 American Molded Plastic, Inc., P.O. Box 434, Newton Falls, OH 44444 http://americanmoldedplastic.com/						
Strong Post Guiderail Mounted Delineator	Flex-DS	BMD-12	White and Yellow	Single/Bidirectional	Type CS	----
Weak Post Guiderail Mounted Delineator	Flex-DS	BMD-12	White and Yellow	Single/Bidirectional	Type CW	----
ARTUK 15 Artuk Corporation, 1200 Abbott Dr., Elgin, IL 60123 http://artukinc.com/						
Guiderail Mounted Delineator	313 Straight	BMD-06	White and Yellow	Impact Resistant, Single Direction, Single/Double Sided	Type A	2012-192Q
Guiderail Mounted Delineator	717	BMD-06	White and Yellow	Impact Resistant, Single/Bidirectional	Type D	----
Strong Post Guiderail Mounted Delineator	FR-1	BMD-06	White and Yellow	Impact Resistant, Single Direction	Type CS	----
Strong Post Guiderail Mounted Delineator	FR-2	BMD-06	White and Yellow	Impact Resistant, Single Direction	Type CS	----
ASDC1 15 Arrow Safety Device Company, 123 Dixon Street, Selbyville, DE 19975 http://www.arrowsafetydevice.com						
Guiderail Mounted Delineator	ARRDeIB		White and Yellow	Impact Resistant, Single/Bidirectional	Type D	2016-109



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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
CARST 15 Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/						
Guiderail Mounted Delineator	CFGBK300 Bracket for Guiderail	BMD-10				----
Guiderail Mounted Delineator	CFGR-02701BP (27" Flexguard Guiderail or Sentry Marker)	DPOST-02	White	Impact Resistant, Single/Bidirectio nal	Type B	2010-226Q
Guiderail Mounted Delineator	CFGR-02702BP (27" Flexguard Guiderail or Sentry Marker)	DPOST-02	Yellow	Impact Resistant, Single/Bidirectio nal	Type B	2010-226Q
Guiderail Mounted Delineator	CGR-302701	BMD-10	White	Impact Resistant, Single/Bidirectio nal	Type A	----
Guiderail Mounted Delineator	CGR-302702	BMD-10	Yellow	Impact Resistant, Single/Bidirectio nal	Type A	----
EASTM 15 Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901 https://easternmetalsignsandsafety.com/						
Guiderail Mounted Delineator	650-IR-GMD	BMD-01			Type D	----
Guiderail Mounted Delineator	651-IR-GMD	BMD-01	White and Yellow	Impact Resistant, Single Direction	Type D	----
Guiderail Mounted Delineator	652-IR-GMD	BMD-01	White and Yellow	Impact Resistant, Bidirectional	Type D	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
EMPCCL 15 Elgin Molded Plastics, Inc. DBA Empco-Lite, 909 Grace St., Elgin, IL 60120						
Guiderail Mounted Delineator	GRD-S	BMD-13		Impact Resistant, Single/Bidirectional	Type D	2014-247Q
Guiderail Mounted Delineator	GRD-ST	BMD-13		Impact Resistant, Single/Bidirectional	Type A	2014-246Q
EXTRU 15 Extrudex, LLP, 310 Figgie Road, Painesville, OH 44077 <i>Formerly Hall Manufacturing & Intek Plastics (HALMC 15)</i>						
Strong Post Guiderail Mounted Delineator	Railrider	BMD-09	White and Yellow	Impact Resistant, Single/Bidirectional	Type CS	-----
Weak Post Guiderail Mounted Delineator	Weak Post Railrider	BMD-09	White and Yellow	Impact Resistant, Single/Bidirectional	Type CW	-----



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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
PEXCO 15 Plant	PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 http://www.pexco.com/traffic 3110 70th Avenue East Tacoma, WA 98424					
Guiderail Mounted Delineator	Butterfly Guiderail	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type D	----
Guiderail Mounted Delineator	Straight Post Ref.-GMD	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type A	----
Strong Post Guiderail Mounted Delineator	I-Flex 12	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type CS	----
Weak Post Guiderail Mounted Delineator	I-Flex 12 WP	BMD-02	White and Yellow	Impact Resistant, Single/Bidirectional	Type CW	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
SAFHC 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 70 West Madison Street Suite 2350 Chicago, IL 60602 <i>Formerly Safe-Hit Corporation</i>					
Guiderail Mounted Delineator	SH2276GRSD-YS12, 27" Post	BMD-05	Yellow	Impact Resistant, Bidirectional	Type B	----
Guiderail Mounted Delineator	SH227GRS-WS12, 27" Post	BMD-05	White	Impact Resistant, Single Direction	Type B	----
Guiderail Mounted Delineator	SH227GRS-YS12, 27" Post	BMD-05	Yellow	Impact Resistant, Single Direction	Type B	----
Guiderail Mounted Delineator	SH227GRSD-W S12, 27" Post	BMD-05	White	Impact Resistant, Bidirectional	Type B	----
Guiderail Mounted Delineator	SH227GRSE-U L-LA, 27" Post	BMD-05	Blue	Impact Resistant, Single Direction	Type B	----
SHUR1 15 Plant	SHUR-TITE Products, 105 Tradesmens Park Drive, Hutto, TX 78634 https://shur-tite.com/traffic_products Gainesville, TX & Hutto, TX					
Guiderail Mounted Delineator	Shur-Tite Guiderail Post "Flat Mount" Delineator		White	Impact Resistant, Single/Bidirectional	Type B	2020-121Q



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Section 937: Delineation Devices

937.2(b) Delineation Devices, Guiderail Mount

Last Revised: 4/23/2021

For guide-rail delineator type drawings [A, B, CS - Strong Post, CW - Weak Post, and D] see Publication 111, TC-8604 [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Device Color	Mount Descripti	Mount Type	Ref. No.
UNISO 15 UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i>						
Guiderail Mounted Delineator	PIBH-27GRW, 27" Post	BMD-07	White	Impact Resistant, Single/Bidirectio nal	Type B	----
Guiderail Mounted Delineator	PIBH-27GRY, 27" Post	BMD-07	Yellow	Impact Resistant, Single/Bidirectio nal	Type B	----
Guiderail Mounted Delineator	SHUR-FLEX Guiderail Post "Flat Mount" Delineator (#SF2752)		White	Impact Resistant, Single/Bidirectio nal	Type B	2015-148

937.2(c) Delineation Devices, Posts

Last Revised: 8/24/2023

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

Product	Name	COA	Post Type	Ref. No.
CARST 15 Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/				
Delineator Post	27" Sentry Marker	DPOST-02	Guide Rail Post	2010-226Q
Delineator Post	CDS-30	DPOST-02	Ground Mounted	1993-188
Delineator Post	CFR-406601	DPOST-02	Ground Mounted	-----
Delineator Post	CFR-406602	DPOST-02	Ground Mounted	-----
Delineator Post	FlexGuard Post	DPOST-02	Ground Mounted	2010-051Q
Delineator Post	SDC-2036 / 36"	DPOST-02	Surface Mounted	-----
Delineator Post	SDC-2048 / 48"	DPOST-02	Surface Mounted	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 937: Delineation Devices

937.2(c) Delineation Devices, Posts

Last Revised: 8/24/2023

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

Product	Name	COA	Post Type	Ref. No.
FLEXS 15	FlexStake, Inc., 2150 Andrea Lane, Fort Myers, FL 33912 http://www.flexstake.com/			
Delineator Post	HD-600 Series	DPOST-03	Ground Mounted	1992-072A-F
Delineator Post	SM-700 Series	DPOST-03	Surface Mounted	1992-072A-F
FRANK 15	Franklin Industries, 645 Atlantic Ave., Franklin, PA 16323 http://store.franklinindustriesco.com/			
Delineator Post	PC-220	DPOST-06	Ground Mounted	2000-046Q
<i>Approved to manufacture ground mounted delineator posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>				
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/			
Delineator Post	MP 2 Post		Surface Mounted	2018-224Q
PEXCO 15	PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 http://www.pexco.com/traffic			
Plant	3110 70th Avenue East Tacoma, WA 98424			
Delineator Post	City Post EAC (Embedded Anchor Cup)		Spin-in (Embedded Anchor Cup)	2018-150Q
Delineator Post	City Post GD Glue Down		Surface Mounted (Epoxy)	2018-153Q
Delineator Post	City Post SM Surface Mount		Surface Mounted	2018-151Q
Delineator Post	FG 300-UR	DPOST-05	Surface Mounted (Epoxy)	----
Delineator Post	FG-500 Series FG-95	DPOST-05	Ground Mounted	----
Delineator Post	FG-500 Series FG-96	DPOST-05	Ground Mounted	----
Delineator Post	FTGM48W		Ground Mounted	2021-046Q
<i>Extruded components are also manufactured at the Asheboro, NC (CEI) facility.</i>				
Delineator Post	FTSM36W		Surface Mounted	2021-092Q
<i>Extruded components are also manufactured at the Asheboro, NC (CEI) facility.</i>				
Delineator Post	TGM48W		Ground Mounted	2021-093Q
<i>Extruded components are also manufactured at the Asheboro, NC (CEI) facility</i>				



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 937: Delineation Devices

937.2(c) Delineation Devices, Posts

Last Revised: 8/24/2023

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

	Product	Name	COA	Post Type	Ref. No.
SAFHC 15	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/				
Plant	70 West Madison Street Suite 2350 Chicago, IL 60602				
	Formerly Safe-Hit Corporation				
	Delineator Post	SH-SMA-1-BL	DPOST-01	Surface Mounted Base (Pin Lock, Epoxy)	----
	Delineator Post	SH236SMA-SP12	DPOST-01	Surface Mounted	----
	Delineator Post	SH248GP3-SP-12	DPOST-01	Ground Mounted	----
	Delineator Post	SH336SMA-SP12	DPOST-01	Surface Mounted	----
	Delineator Post	SH348GP3-SP-12	DPOST-01	Ground Mounted	----
	Delineator Post	SHA1-08OE-GL (8" Steel Anchor)	DPOST-01	Ground Mounted	----
	Delineator Post	SHA3-18C-GL (18" Steel Anchor)	DPOST-01	Ground Mounted	----
SHUR1 15	SHUR-TITE Products, 105 Tradesmens Park Drive, Hutto, TX 78634 https://shur-tite.com/traffic_products				
Plant	Gainesville, TX & Hutto, TX				
	Delineator Post	Shur-Flex Driveable Delineator		Ground Mounted	2020-119Q
	Delineator Post	Shur-Flex Surface Mount Delineator		Surface Mounted	2020-120Q
	Delineator Post	U-Flex Surface Mount Delineator		Surface Mounted	2021-017Q



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Section 937: Delineation Devices

937.2(c) Delineation Devices, Posts

Last Revised: 8/24/2023

The Devices listed in this section have been self-certified by the vendor as to their crashworthiness and are deemed compliant with NCHRP-350. These Devices are approved for use in PA.

Product	Name	COA	Post Type	Ref. No.
UNISO 15 UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/				
Formerly PIBH- 15				
Delineator Post	PIBH-36G	DPOST-04	Surface Mounted	----
Delineator Post	PIBH-48G	DPOST-04	Ground Mounted	----
Delineator Post	PIBH-52G	DPOST-04	Ground Mounted	----
Delineator Post	PIBH-A18 (18" Steel Anchor)	DPOST-04	Ground Mounted	----
Delineator Post	PIBH-A8 (8" Steel Anchor)	DPOST-04	Surface Mounted	----
Delineator Post	PIBH-TMB	DPOST-04	Surface Mounted (Epoxy)	----
Delineator Post	SHUR-FLEX Driveable Delineator Item #SD0031		Ground Mounted	2015-147Q
Delineator Post	SHUR-FLEX Surface Mount Delineator (#SF0140)		Surface Mounted	2015-149



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Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 5/24/2022

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Steel Sign Structure Fabricator	Baltimore	MD	2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Boyertown	PA	-----
BRFAB 15	Brookfield Fabricating Corporation, P. O. Box 406, Brookfield, MO 64628 http://www.brookfieldfabricating.com/ Steel Sign Structure Fabricator	Brookfield	MO	-----
DURAB 15	Dura-Bond Steel Corporation, 2658 Puckety Drive, Export, PA 15632 http://www.dura-bond.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Export	PA	-----
GRENR 15	Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/ Steel Sign Structure Fabricator <i>Also approved for induction bending of monopipe.</i>	Mount Joy	PA	-----
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Ellwood City	PA	-----
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Ellwood City	PA	2017-029Q
HASSC 15	Harris Structural Steel Company, Inc., 1640 New Market Ave., South Plainfield, NJ 07080 http://www.harrissteelco.com/ Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	South Plainfield	NJ	-----
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ Formerly Brownsville Marine Products Steel Sign Structure Fabricator	Brownsville	PA	2018-220Q



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Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 5/24/2022

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
HURFC 15	Hurtt Fabricating Corporation, 26707 E. Scott Road, Mareline, MO 64658 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Mareline	MO	----
L&MFM 15	L&M Fabrication & Machine, Inc., 6814 Chrisphalt Drive, P. O. Box 124, Bath, PA 18014 6814 Chrisphalt Dr. Bath, PA 18014 Steel Sign Structure Fabricator	Bath	PA	----
LEHUA 15	Lehigh Utility Associates, Inc., 1300 New Market Ave., South Plainfield, NJ 07080 Steel Sign Structure Fabricator	South Plainfield	NJ	----
MAICO 15	Maico Industries, Inc, 936 Highway 14, P.O. Box 24, Ellsworth, KS 67439 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Ellsworth	KS	----
MCS-1 15	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 271 Industrial Lane Alum Bank, PA 15221 Steel Sign Structure Fabricator	Alum Bank	PA	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Steel Sign Structure Fabricator	Coatesville	PA	2014-068Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 2nd Facility: 20 Steel Rd., Morrisville, PA 19067 Steel Sign Structure Fabricator	Bensalem	PA	2014-212Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 Steel Sign Structure Fabricator	Carbondale	PA	2018-218Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Steel Sign Structure Fabricator	Bristol	PA	2016-281
RCCFI 15	RCC Fabricators, Inc., 2035 Route 206 South, Southampton, NJ 18434 Steel Sign Structure Fabricator	Southampton	NJ	2015-079Q



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Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 5/24/2022

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 220 Lincoln Avenue Pittsburgh, PA 15209 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Millvale	PA	----
SOVGN 15	Sovereign Steel Manufacturing LLC, 225 Kiwanis Blvd, West Hazleton, PA 18202 <i>Acquired by Nucor Towers & Structures in 2022.</i> Steel Sign Structure Fabricator <i>Formerly located at 2027 South 12th Street, Bldg. 507, Allentown, PA 18103</i>	West Hazleton	PA	2018-184Q
SPECF 15	Specialty Fab, Inc., 11950 South Avenue, North Lima, OH 44452 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	North Lima	OH	----
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Steel Sign Structure Fabricator <i>Not approved to fabricate structures with T, Y or K pipe-to-pipe connections.</i>	Elizabethtown	KY	----
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Steel Sign Structure Fabricator	Canton	OH	2018-177Q
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 Steel Sign Structure Fabricator <i>Also approved for induction bending of monopipe.</i>	Lindon	UT	-----
VAL-2 15 Facility	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154 1545 Pidco Drive Plymouth, IN 46563 Steel Sign Structure Fabricator	Plymouth	IN	----
VALM5 15 Plant	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154-5215 2551 Valmont Drive Brenham, TX 77833 Steel Sign Structure Fabricator	Brenham	TX	2022-075Q



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Section 948: Steel Sign Structure

948 Steel Sign Structure

Last Revised: 5/24/2022

Preapproved Plants

These plants have been preapproved to fabricate overhead steel sign structures for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

Product	Name	Plant City	Plant State	Ref. No.
WALPR 15	Walpar, Inc., 4200 Jefferson Ave., S.W., Birmingham, AL 35228 http://walpar.com/	Birmingham	AL	-----
	Steel Sign Structure Fabricator			

948.3(b) Steel Sign Structures, Foundations

Last Revised: 3/29/2015

Approved product alternatives for Section 948.3(b)

Steel templates used for setting anchor bolts to the correct elevation and alignment are a non-permanent construction aid item and are not listed in Bulletin 15. The steel templates are to be provided by the fabricator.

Product	Name	Ref. No.
SHAIN 15	Shaner Industries, LLC, 260 Pullman Square #169, Butler, PA 16001 http://www.shanerindustries.com/	1995-290
	Steel Sign Structure Foundation	
	<i>The alternate foundation design for cantilever and center mount sign structure poles has been approved under CMS Special Provision S00(ID09103B) and ECMS Special Provision I-C09103-B.</i>	



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Section 951: Traffic Signal Supports

951.2(c) Structural Supports

Last Revised: 10/1/2021

Steel Products Procurement Act applies. [Publication 148 Traffic Standards - Signals \(TC-8800 Series\)](#)

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), approved fabricators are also listed in Section 1104.02 Traffic Signal Support (Steel)

Product	Name	Ref. No.
MAICO 15	Maico Industries, Inc, 936 Highway 14, P.O. Box 24, Ellsworth, KS 67439 http://www.maicoind.com/ Traffic Signal Structural Support Fabricator - Steel	2021-171Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Traffic Signal Structural Support Fabricator - Steel	2016-244
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Traffic Signal Structural Support Fabricator - Steel	2018-177Q
VALM1 15	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Plant Valley, NE 68064 Traffic Signal Structural Support Fabricator - Steel	-----
VALM5 15	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154-5215 http://www.valmont.com/ Plant 2551 Valmont Drive Brenham, TX 77833 Traffic Signal Structural Support Fabricator - Steel	-----

951.2(c)3 Pedestal Supports

Last Revised: 4/13/2023

The approval of pedestal supports is handled by the District on a project-by-project basis.

Product	Name	Ref. No.
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951.2(c)5 Anchor Bolts, Hex Nuts, and Washers

Standard Drawings for Traffic Signal Supports - TC-8801 (Publication 148) [Traffic Standards - Signals \(TC-8800 Series\)](#)

* For approved ASTM F1554 anchor bolts, ASTM A563 nuts, and ASTM F436 washers, see Section 1105.02(c)3.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 952: Controller Assembly

952.2(c)1 NEMA Controller Unit

Last Revised: 9/23/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-1 & NEMA TS-2

Product	Name	Controller Type	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/					
NEMA TS-2 Signal Controller	Cobalt	Types 1 and 2	ECO-127P	4/15/2015	----
NEMA TS-2 Signal Controller	Cobalt C	Types 1 and 2	ECO-128P	10/3/2017	2016-229Q
NEMA TS-2 Signal Controller	Rackmount C	Types 1 and 2	ECO-129P	10/3/2017	2016-230Q
INTLI 15 Q-Free America | Intelight, 1420 Kristina Way, Suite 102, Chesapeake, VA 23320 http://www.intelight-its.com/					
Facility	3450 S. Broadmont Drive Suite 126 Tucson, AZ 85713				
NEMA TS-1 & TS-2 Controller	X-1	Types 1 and 2	INT-004P	9/24/2013	----
NEMA TS-1 & TS-2 Controller	X-1L	Types 1 and 2	INT-003P	9/24/2013	----
NEMA TS-1 & TS-2 Controller	X-2	Types 1 and 2	INT-005P	9/24/2013	----
NEMA TS-2 Signal Controller	2070 LDX	Types 1 and 2	INT-013P	7/7/2017	2016-263Q
NEMA TS-2 Signal Controller	2070LC	Types 1 and 2	INT-012P	7/7/2017	2016-259Q
NEMA TS-2 Signal Controller	X3C	Types 1 and 2	INT-009P	7/7/2017	2016-262Q
NEMA TS-2 Signal Controller	X3L	Types 1 and 2	INT-010P	7/7/2017	2016-261Q
NEMA TS-2 Signal Controller	X3LT	Types 1 and 2	INT-011P	7/7/2017	2016-222Q
NEMA TS-2 Signal Controller	XN-1	Type 1			2021-102Q
NEMA TS-2 Signal Controller	XN-2	Type 2			2021-103Q
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain					
NEMA TS-1 & TS-2 Controller	ATC eX	Types 1 and 2	MCC-018P	8/26/2014	----
NEMA TS-2 Signal Controller	FLex ATC	Types 1 and 2	MCC-019P	5/22/2020	2019-171Q



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Section 952: Controller Assembly

952.2(c)1 NEMA Controller Unit

Last Revised: 9/23/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-1 & NEMA TS-2

Product	Name	Controller Type	COA	COA Date	Ref. No.
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)					
NEMA TS-1 & TS-2 Controller	980	Types 1 and 2	TFW-003P	4/13/2016	----
NEMA TS-2 Signal Controller	2070 LX Controller Assembly	Types 1 and 2	TFW-019P	2/28/2020	----
NEMA TS-2 Signal Controller	980 ATC	Types 1 and 2	TFW-011P	5/6/2016	----
NEMA TS-2 Signal Controller	981	Types 1 and 2	TFW-004P	4/13/2016	----
NEMA TS-2 Signal Controller	ATC Controller	Types 1 and 2	TFW-013P	8/14/2018	----
NEMA TS-2 Signal Controller	Commander Rack Mount ATC	Types 1 and 2		4/28/2021	2020-149Q
NEMA TS-2 Signal Controller	Commander Shelf Mount ATC	Types 1 and 2	TFW-015P	4/21/2020	2019-224Q

PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 <http://www.oriux.com/> Formerly known as Peek Traffic

NEMA TS-2 Signal Controller	ATC-1000	Type 2	PTS-042P	7/11/2011	----
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SIEME 15 Yunex Traffic, a Siemens Business, 9225 Bee Cave Road, Suite 101, Austin, TX 78733 <https://www.yunextraffic.com/global/en/> Formerly Siemens ITS

NEMA TS-2 Signal Controller	m60 Series ATC	Types 1 and 2	SMS-231P	6/25/2016	----
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952.2(c)2 Type 2070 Controller Unit

Last Revised: 5/12/2022

Product	Name	Controller Type	COA	COA Date	Ref. No.
INTLI 15 Q-Free America | Intelight, 1420 Kristina Way, Suite 102, Chesapeake, VA 23320 http://www.inteligh-its.com/ Facility 3450 S. Broadmont Drive Suite 126 Tucson, AZ 85713					
Type 2070 Controller Unit	2070 LC	Types 1 and 2	INT-012P	7/7/2017	2016-259Q
Type 2070 Controller Unit	2070 LDX	Types 1 and 2	INT-013P	7/7/2017	2016-263Q



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Section 952: Controller Assembly

952.2(c)2 Type 2070 Controller Unit

Last Revised: 5/12/2022

Product	Name	Controller Type	COA	COA Date	Ref. No.
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain					
Type 2070 Controller Unit	2070LX ATC Controller	Types 1 and 2			2022-074Q
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)					
Type 2070 Controller Unit	2070 LX Controller Assembly	Types 1 and 2	TFW-019P	2/28/2020	-----

952.2(c)3 Advanced Transportation Controller Unit

952.2(c)6 Time Clock, GPS

Last Revised: 10/4/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.03(c)5.

Product	Name	COA	COA Date	Ref. No.
AINFO 15 Applied Information, Inc., 4411 Suwanee Dam Road, Suite 510, Suwanee, GA 30024 https://appinfoinc.com/				
Time Clock with GPS	AI-500-070	AEA-001P	6/17/2019	2018-225Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 953: Traffic Signal Systems and Communications

953.2(b) Time-Based Coordinator Unit

953.2(c) Master Controller Assemblies

Last Revised: 10/1/2021

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.04 Traffic Signal Systems and Communications

Product	Name	COA	COA Date	Ref. No.	
INTLI 15 Facility	Q-Free America | Intelight, 1420 Kristina Way, Suite 102, Chesapeake, VA 23320 http://www.inteligh-its.com/ 3450 S. Broadmont Drive Suite 126 Tucson, AZ 85713				
	NEMA Master Controller Assembly	X-1	INT-007P	9/24/2013	----
	NEMA Master Controller Assembly	X-1L	INT-006P	9/24/2013	----
	NEMA Master Controller Assembly	X-2	INT-008P	9/24/2013	----

953.2(e) Radio Communications System

953.2(g) Cellular Communications System

953.2(h) Wireless Broadband Communication System

953.2(n) Networking of School Zone Flashers



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Posted:
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Section 954: Electrical Distribution

954.2(d) Junction Box, Traffic Signal

Last Revised: 9/23/2021

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
ARMOR 15 Armorcast Products Company, a Hubbell Company, 9140 Lurline Avenue, Chatsworth, CA 91311			
JB-26, Reinforced Plastic Mortar	A6001423A		2000-279Q
JB-27, Reinforced Plastic Mortar	A6001946APC-PA		2002-067Q
JB-27, Reinforced Plastic Mortar	A6001946APCX24		2000-280Q
CDRSC 15 CDR, a Hubbell Company, 3621 Industrial Park Drive, Lenoir, TN 37771			
JB-26, Reinforced Plastic Mortar	SA13-1212-12		2002-086Q
JB-27, Reinforced Plastic Mortar	SA10-1324-24		2002-086Q
HIL-0 15 Oldcastle Infrastructure, Inc., 7000 Central Parkway, Suite 800, Atlanta, GA 30328 Plant HIGHLINE Energy Products by Oldcastle Infrastructure 2300 Highway 11 North Sweetwater, TN 37874			
JB-26, Reinforced Plastic Mortar	PHA121212		2011-212QA
JB-27, Reinforced Plastic Mortar	PHA132412		2011-212QB
JB-27, Reinforced Plastic Mortar	PHA132418H		2013-092Q
JB-27, Reinforced Plastic Mortar	PHA132424H		2012-049Q
MAREN 15 Martin Enterprises, an Oldcastle Infrastructure Company, 7231 Boulder Avenue, Highland, CA 92346			
JB-26, Reinforced Plastic Mortar	121212PC T15		2011-229Q
JB-27, Reinforced Plastic Mortar	132418 T15		2011-230Q
JB-27, Reinforced Plastic Mortar	132418PC T8		2011-228Q
NEWBA 15 Newbasis, 2626 Kansas Avenue, Riverside, CA 92507			
JB-26, Reinforced Plastic Mortar	PCA 121212-10006		1991-321
JB-27, Reinforced Plastic Mortar	PCA 132412-00006		1993-017
JB-27, Reinforced Plastic Mortar	PCA 132418-00006		1993-017
JB-27, Reinforced Plastic Mortar	PCE 132408-00000		1993-017



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Section 954: Electrical Distribution

954.2(d) Junction Box, Traffic Signal

Last Revised: 9/23/2021

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
OLES1 15	Oldcastle Enclosure Solutions, 801 South Pine Street, Madera, CA 96367	https://oldcastleinfrastructure.com/	
JB-27, Reinforced Plastic Mortar	PC1324-24		2013-106Q
<i>The PC1324-24 model is manufactured in Madera, CA; Houston, TX; and Sweetwater, TN.</i>			
OLES3 15	Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328	https://oldcastleinfrastructure.com/	
Plant	Oldcastle Enclosure Solutions 1675 Industrial Drive Napoleon, OH 43545		
JB-26, Reinforced Plastic Mortar	Duralite 1212-12	OLD-004P	2019-173Q
JB-27, Reinforced Plastic Mortar	Duralite 1324-18	OLD-005P	2019-174Q
QUAZT 15	Hubbell Power Systems, Inc., 3621 Industrial Park Drive, Lenoir City, TN 37771		
	https://www.hubbell.com/hubbellpowersystems/en/hps-brands/quazite		
JB-26, Reinforced Plastic Mortar	Quazite PC1212BA12		1993-096
JB-26, Reinforced Plastic Mortar	Quazite PC1212CA46		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324BA18		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324CA46		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324EA08		1993-096



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Posted:
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Section 955: Signal Heads

955.2(b) Vehicular Signal Heads - Housings, Reflectors, Backplates

Last Revised: 4/20/2022

* For Pub 408/2020 Change No. 2 and earlier (Prior to October 8, 2021), see Section 1104.06(a) Vehicular Signal Head Housings

Product	Name	COA	COA Date	Ref. No.
BRTPI 15 Brown Traffic Products, MoboTrex, 109 West 55th Street, Davenport, IA 52806 https://www.mobotrex.com/				
12-inch Aluminum Housing	SIG 10X A	BTP-005P	6/20/2014	----
12-inch Polycarbonate Housing	SA 10X A	BTP-003P	6/20/2014	----
8-inch Aluminum Housing	SIG 1X0 A	BTP-006P	6/20/2014	----
8-inch Polycarbonate Housing	SA 1X0 A	BTP-004P	6/20/2014	----
CHMAI 15 Chapel Hill Manufacturing, 27895 Robinson Road, Suite 200, Conroe, TX 77385 Facility 200 Elder Road Conroe, TX 77385				
12-inch Aluminum Housing	SIG-TAY-305-TTP-EVN-00	CHM-005P	7/26/1993	----
12-inch Polycarbonate Housing	SIG-TPY-305-TTP-EVN-00	CHM-006P	7/26/1993	----
8-inch Aluminum Housing	SIGEAY305TTPEV	CHM-001P	6/15/1994	----
8-inch Polycarbonate Housing	SIGEPY305TTPEV	CHM-002P	6/15/1994	----
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
12-inch Aluminum Housing		ECO-114P	1/6/2005	----
12-inch Polycarbonate Housing	CP	ECO-105S	4/1/1983	----
12-inch Polycarbonate Housing	TP	ECO-104S	1/6/2005	----
8-inch Aluminum Housing		ECO-114P	1/6/2005	----
8-inch Polycarbonate Housing	EP	ECO-160S	4/1/1983	----
GENTR 15 General Traffic Equipment Corporation, 259 Broadway, Newburgh, NY 12550 http://www.generaltrafficequip.com/				
12-inch Aluminum Housing	T30-ALUM-A-N-N-P-T-Y-Y-Y	GTE-006P	4/23/2004	----
12-inch Polycarbonate Housing	T30-Poly	GTE-004P	12/19/2002	----
8-inch Aluminum Housing	E30-ALUM-A-N-N-P-T-Y-Y-Y	GTE-005P	4/23/2004	----



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Section 955: Signal Heads

955.2(b) Vehicular Signal Heads - Housings, Reflectors, Backplates

Last Revised: 4/20/2022

* For Pub 408/2020 Change No. 2 and earlier (Prior to October 8, 2021), see Section 1104.06(a) Vehicular Signal Head Housings

Product	Name	COA	COA Date	Ref. No.
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain				
12-inch Aluminum Housing	MTSTA	MCC-016P	7/21/1997	----
12-inch Aluminum Housing	Signal Head	MCC-012P	7/26/1993	----
12-inch Polycarbonate Housing	MTSVP	MCC-011S	7/14/1993	----
8-inch Aluminum Housing	MTSEA	MCC-015P	7/21/1997	----
8-inch Polycarbonate Housing	MTSEP	MCC-010S	7/14/1993	----

PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 <http://www.oriux.com/> *Formerly known as Peek Traffic*

12-inch Aluminum Housing	H Series	PTS-028S	2/20/1970	----
12-inch Polycarbonate Housing	P Series	PTS-035S	11/9/1979	----
8-inch Aluminum Housing	T Series	PTS-029S	2/20/1970	----
8-inch Polycarbonate Housing	E-Series	PTS-036S	11/9/1979	----

955.2(c) LED Vehicular Signal Head Modules

Last Revised: 8/24/2022

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(b) LED Circular Vehicle Traffic Signal Modules & LED Vehicle Arrow Traffic Signal Modules

Product	Name	Description	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
LED Arrow, 12-inch Green	432-2324-001XOD	Tinted	DIA-052P	6/3/2008	----
LED Arrow, 12-inch Green	432-2324-001XOD15	Tinted	DIA-071P	11/23/2015	----
LED Arrow, 12-inch Green	432-2374-001XOD	Clear	DIA-053P	6/3/2008	----
LED Arrow, 12-inch Green	432-2374-001XOD15	Clear	DIA-072P	11/23/2015	----
LED Arrow, 12-inch Red	432-1314-001XOD15	Tinted	DIA-067P	11/23/2015	----
LED Arrow, 12-inch Red	432-1314-001XOD	Tinted	DIA-061P	2/17/2010	----
LED Arrow, 12-inch Red	432-1374-001XOD15	Clear	DIA-068P	11/23/2015	----
LED Arrow, 12-inch Yellow	431-3334-001XOD	Tinted	DIA-051P	6/3/2008	----
LED Arrow, 12-inch Yellow	431-3334-901XOD	Tinted	DIA-056P	9/16/2008	----



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Section 955: Signal Heads

955.2(c) LED Vehicular Signal Head Modules

Last Revised: 8/24/2022

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(b) LED Circular Vehicle Traffic Signal Modules & LED Vehicle Arrow Traffic Signal Modules

Product	Name	Description	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
LED Arrow, 12-inch Yellow	431-3334-901XOD15	Tinted	DIA-069P	11/23/2015	----
LED Arrow, 12-inch Yellow	431-3374-001XOD15	Clear	DIA-070P	11/23/2015	----
LED Ball, 12-inch Green	433-2220-001XL	Tinted	DIA-049P	6/3/2008	----
LED Ball, 12-inch Green	433-2220-001XL15	Tinted	DIA-077P	11/23/2015	----
LED Ball, 12-inch Green	433-2220-005XL	Direct Current (DC)	DIA-065P	5/9/2012	----
LED Ball, 12-inch Green	433-2270-001XL	Clear	DIA-078P	11/23/2015	----
LED Ball, 12-inch Green	433-2270-001XL	Clear	DIA-050P	6/3/2008	----
LED Ball, 12-inch Green	433-2270-005XL	Direct Current (DC)	DIA-063P	5/9/2012	----
LED Ball, 12-inch Red	433-1210-003XL	Tinted	DIA-047P	6/3/2008	----
LED Ball, 12-inch Red	433-1210-003XL15	Tinted	DIA-073P	11/23/2015	----
LED Ball, 12-inch Red	433-1210-005XL	Direct Current (DC)	DIA-063P	5/9/2012	----
LED Ball, 12-inch Red	433-1270-003XL15	Clear	DIA-074P	11/23/2015	-
LED Ball, 12-inch Yellow	433-3230-001XL	Tinted	DIA-048P	6/3/2008	----
LED Ball, 12-inch Yellow	433-3230-901XL	Tinted	DIA-055P	9/16/2008	----
LED Ball, 12-inch Yellow	433-3230-901XL15	Tinted	DIA-075P	11/23/2015	----
LED Ball, 12-inch Yellow	433-3230-905XL	Direct Current (DC)	DIA-064P	5/9/2012	----
LED Ball, 12-inch Yellow	433-3270-901XL15	Clear	DIA-076P	11/23/2015	----
LED Ball, 8-inch Green	433-2170-001XL	Clear	DIA-046P	6/3/2008	----
LED Ball, 8-inch Green	433-3270-901XL15	Clear	DIA-045P	6/3/2008	----
LED Ball, 8-inch Red	433-1110-003XL	Tinted	DIA-043P	6/3/2008	----
LED Ball, 8-inch Yellow	433-3130-001XL	Tinted	DIA-044P	6/3/2008	----
LED Ball, 8-inch Yellow	433-3130-901XL	Tinted	DIA-054P	9/18/2008	----



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Section 955: Signal Heads

955.2(c) LED Vehicular Signal Head Modules

Last Revised: 8/24/2022

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(b) LED Circular Vehicle Traffic Signal Modules & LED Vehicle Arrow Traffic Signal Modules

Product	Name	Description	COA	COA Date	Ref. No.
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal					
LED Arrow, 12-inch Green	TRA-G12DG-IN	Tinted	EOI-004P	8/6/2009	----
LED Arrow, 12-inch Green	TRA-G12DG-IN-C	Clear	EOI-017P	7/13/2011	----
LED Arrow, 12-inch Red	TRA-R12DG-IN	Tinted	EOI-016P	2/17/2010	----
LED Arrow, 12-inch Yellow	TRA-Y12DG-IN	Tinted	EOI-005P	8/6/2009	----
LED Arrow, 12-inch Yellow	TRA-Y12DG-IN2	Tinted	EOI-008P	11/2/2009	----
LED Arrow, 12-inch Yellow	TRA-Y12DG-IN2-C	Clear	EOI-009P	11/2/2009	----
LED Ball, 12-inch Green	TRV-G12SG-D2T	Tinted	EOI-002P	11/2/2009	----
LED Ball, 12-inch Green	TRV-G12SG-D2T-C	Clear	EOI-018P	7/13/2011	----
LED Ball, 12-inch Red	TRV-R12SG-D2T	Tinted	EOI-001P	11/2/2009	----
LED Ball, 12-inch Yellow	TRV-Y12SG-D1T	Tinted	EOI-003P	11/2/2009	----
LED Ball, 8-inch Green	TRV-G08SG-D1T	Tinted	EOI-014P	11/2/2009	----
LED Ball, 8-inch Green	TRV-G08SG-D1T-C	Clear	EOI-015P	11/2/2009	----
LED Ball, 8-inch Red	TRV-R08SG-D1T	Tinted	EOI-010P	11/2/2009	----
LED Ball, 8-inch Red	TRV-R08SG-D1T-C	Clear	EOI-011P	11/2/2009	----
LED Ball, 8-inch Yellow	TRV-Y08SG-D1T	Tinted	EOI-012P	11/2/2009	----
LED Ball, 8-inch Yellow	TRV-Y08SG-D1T-C	Clear	EOI-013P	11/2/2009	----



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Last Revised: 8/24/2022

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Product	Name	Description	COA	COA Date	Ref. No.
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
LED Arrow, 12-inch Green	DR6-GCAAN-VLA	Clear	GEL-083P	8/10/2017	----
LED Arrow, 12-inch Green	DR6-GTAAN-VLA	Tinted	GEL-082P	8/10/2017	----
LED Arrow, 12-inch Green	DRG-GCAAN-17A	Clear	GEL-033P	9/24/2008	----
LED Arrow, 12-inch Green	DRG-GTAAN-17A	Tinted	GEL-032P	9/24/2008	----
LED Arrow, 12-inch Red	DR6-RCAAN-17A	Clear	GEL-049P	2/17/2010	----
LED Arrow, 12-inch Red	DR6-RCAAN-VLA	Clear	GEL-079P	8/10/2017	----
LED Arrow, 12-inch Red	DR6-RTAAN-17A	Tinted	GEL-048P	2/17/2010	----
LED Arrow, 12-inch Red	DR6-RTAAN-VLA	Tinted	GEL-078P	8/10/2017	----
LED Arrow, 12-inch Yellow	DR6-YCAAN-VLA	Clear	GEL-081P	8/10/2017	----
LED Arrow, 12-inch Yellow	DR6-YTAAN-VLA	Tinted	GEL-080P	8/10/2017	----
LED Arrow, 12-inch Yellow	DRG-YTAAN-17A-YX	Tinted	GEL-034P	9/24/2008	----
LED Ball, 12-inch Green	DR6-GCFB-17A	Clear	GEL-046P	4/22/2009	----
LED Ball, 12-inch Green	DR6-GCFB-77A	Clear	GEL-057P	10/21/2011	----
LED Ball, 12-inch Green	DR6-GCFB-VLA	Clear	GEL-069P	6/10/2013	----
LED Ball, 12-inch Green	DR6-GTFB-17A	Tinted	GEL-045P	4/22/2009	----
LED Ball, 12-inch Green	DR6-GTFB-77A	Tinted	GEL-054P	10/21/2011	----
LED Ball, 12-inch Green	DR6-GTFB-VLA	Tinted	GEL-068P	6/10/2013	----
LED Ball, 12-inch Red	DR6-RCFB-17A	Clear	GEL-055P	10/21/2011	----
LED Ball, 12-inch Red	DR6-RCFB-17A	Clear	GEL-042P	4/22/2009	----
LED Ball, 12-inch Red	DR6-RCFB-VLA	Clear	GEL-065P	6/10/2013	----
LED Ball, 12-inch Red	DR6-RTFB-17A	Tinted	GEL-041P	4/22/2009	----
LED Ball, 12-inch Red	DR6-RTFB-77A	Tinted	GEL-052P	10/21/2011	----
LED Ball, 12-inch Red	DR6-RTFB-VLA	Tinted	GEL-064P	6/10/2013	----
LED Ball, 12-inch Yellow	DR6-YCFB-17A-YX	Clear	GEL-044P	4/22/2009	----
LED Ball, 12-inch Yellow	DR6-YCFB-77A	Clear	GEL-056P	10/21/2011	----
LED Ball, 12-inch Yellow	DR6-YCFB-VLA	Clear	GEL-067P	6/10/2013	----
LED Ball, 12-inch Yellow	DR6-YTFB-17A-YX	Tinted	GEL-043P	4/22/2009	----
LED Ball, 12-inch Yellow	DR6-YTFB-17A-YX1	Tinted	GEL-047P	4/22/2009	----



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Section 955: Signal Heads

955.2(c) LED Vehicular Signal Head Modules

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* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(b) LED Circular Vehicle Traffic Signal Modules & LED Vehicle Arrow Traffic Signal Modules

Product	Name	Description	COA	COA Date	Ref. No.
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
LED Ball, 12-inch Yellow	DR6-YTFB-77A	Tinted	GEL-053P	10/21/2011	----
LED Ball, 12-inch Yellow	DR6-YTFB-VLA	Tinted	GEL-066P	10/21/2011	----
LED Ball, 8-inch Green	DR4-GCFB-17A	Clear	GEL-040P	4/22/2009	----
LED Ball, 8-inch Green	DR4-GCFB-77A	Clear	GEL-063P	5/21/2012	----
LED Ball, 8-inch Green	DR4-GCFB-VLA	Clear	GEL-075P	6/10/2013	----
LED Ball, 8-inch Green	DR4-GTFB-17A	Tinted	GEL-039P	4/22/2009	----
LED Ball, 8-inch Green	DR4-GTFB-77A	Tinted	GEL-062P	5/21/2012	----
LED Ball, 8-inch Green	DR4-GTFB-VLA	Tinted	GEL-074P	6/10/2013	----
LED Ball, 8-inch Red	DR4-RCFB-17A	Clear	GEL-036P	4/22/2009	----
LED Ball, 8-inch Red	DR4-RCFB-77A	Clear	GEL-059P	5/21/2012	----
LED Ball, 8-inch Red	DR4-RCFB-VLA	Clear	GEL-071P	6/10/2013	----
LED Ball, 8-inch Red	DR4-RTFB-17A	Tinted	GEL-035P	4/22/2009	----
LED Ball, 8-inch Red	DR4-RTFB-77A	Tinted	GEL-058P	5/21/2012	----
LED Ball, 8-inch Red	DR4-RTFB-VLA	Tinted	GEL-070P	6/10/2013	----
LED Ball, 8-inch Yellow	DR4-YCFB-17A-YX	Clear	GEL-038P	4/22/2009	----
LED Ball, 8-inch Yellow	DR4-YCFB-77A	Clear	GEL-061P	5/21/2012	----
LED Ball, 8-inch Yellow	DR4-YCFB-VLA	Clear	GEL-073P	6/10/2013	----
LED Ball, 8-inch Yellow	DR4-YTFB-17A-YX	Tinted	GEL-037P	4/22/2009	----
LED Ball, 8-inch Yellow	DR4-YTFB-77A	Tinted	GEL-060P	5/21/2012	----
LED Ball, 8-inch Yellow	DR4-YTFB-VLA	Tinted	GEL-072P	6/10/2013	----



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Section 955: Signal Heads

955.2(c) LED Vehicular Signal Head Modules

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* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(b) LED Circular Vehicle Traffic Signal Modules & LED Vehicle Arrow Traffic Signal Modules

Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
LED Arrow, 12-inch Green	TSL- 12GA-DT-A1	Tinted	LEO-134P	11/3/2020	2020-055Q
LED Arrow, 12-inch Green	TSL-12GA- IL6-A1	Tinted	LEO-102P	1/4/2012	----
LED Arrow, 12-inch Green	TSL-12GA- IL6-A1-CLR	Clear	LEO-103P	1/4/2012	----
LED Arrow, 12-inch Green	TSL-12GA-DT-A1-CLR	Clear	LEO-137P	11/3/2020	2020-058Q
LED Arrow, 12-inch Green	TSL-12GA-LD-A1	Tinted	LEO-064P	4/22/2009	----
LED Arrow, 12-inch Green	TSL-12GA-LD-A1-CLR	Clear	LEO-070P	2/17/2010	----
LED Arrow, 12-inch Red	TSL-12RA- IL6-A1	Tinted	LEO-098P	1/4/2012	----
LED Arrow, 12-inch Red	TSL-12RA-DT-A1	Tinted	LEO-132P	11/3/2020	2020-049Q
LED Arrow, 12-inch Red	TSL-12RA-DT-A1-CLR	Clear	LEO-135P	11/3/2020	2020-056Q
LED Arrow, 12-inch Red	TSL-12RA-IL6-A1-CLR	Clear	LEO-099P	1/4/2012	----
LED Arrow, 12-inch Red	TSL-12RA-LD-A1	Tinted	LEO-068P	2/17/2010	----
LED Arrow, 12-inch Red	TSL-12RA-LD-A1-CLR	Clear	LEO-069P	2/17/2010	----
LED Arrow, 12-inch Yellow	TSL- 12YA-DT-A1	Tinted	LEO-133P	11/3/2020	2020-054Q
LED Arrow, 12-inch Yellow	TSL-12YA-DT-A1-CLR	Clear	LEO-136P	11/3/2020	2020-057Q
LED Arrow, 12-inch Yellow	TSL-12YA-IL6-A1	Tinted	LEO-100P	1/4/2012	----
LED Arrow, 12-inch Yellow	TSL-12YA-IL6-A1-CLR	Clear	LEO-101P	1/4/2012	----
LED Arrow, 12-inch Yellow	TSL-12YA-LD-A1	Tinted	LEO-063P	4/22/2009	----
LED Arrow, 12-inch Yellow	TSL-12YA-LD-A1-CLR	Clear	LEO-071P	2/17/2010	----
LED Ball, 12-inch Green	TSL-12G-DT-A1	Tinted	LEO-130P	11/3/2020	2020-047Q
LED Ball, 12-inch Green	TSL-12G-DT-A1-CLR	Clear	LEO-131P	11/3/2020	2020-048Q
LED Ball, 12-inch Green	TSL-12G-LX-IL3-A1	Tinted	LEO-067P	4/22/2009	----
LED Ball, 12-inch Green	TSL-12G-LX-IL3-B1	Direct Current (DC)	LEO-085P	10/18/2010	----
LED Ball, 12-inch Green	TSL-12G-LX-IL6-A1-P2	Tinted	LEO-094P	1/5/2011	----
LED Ball, 12-inch Green	TSL-12G-LX-IL6-A1-P2-CLR	Clear	LEO-097P	1/5/2011	----
LED Ball, 12-inch Green	TSL-12G-LX-IL6-A1-P3	Tinted	LEO-112P	5/28/2015	----
LED Ball, 12-inch Green	TSL-12G-LX-IL6-B1	Tinted	LEO-124P	8/2/2017	----
LED Ball, 12-inch Green	TSL-12G-LX-IL6-B1-P3	Tinted	LEO-119P	8/2/2017	----



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Section 955: Signal Heads

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Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
LED Ball, 12-inch Red	TSL- 12R-DT-A1	Tinted	LEO-126P	11/3/2020	2020-037Q
LED Ball, 12-inch Red	TSL-12R-DT-A1-CLR	Clear	LEO-128P	11/3/2020	2020-045Q
LED Ball, 12-inch Red	TSL-12R-LX-IL3-A1	Tinted	LEO-065P	4/22/2009	----
LED Ball, 12-inch Red	TSL-12R-LX-IL3-B1	Direct Current (DC)	LEO-083P	10/18/2010	----
LED Ball, 12-inch Red	TSL-12R-LX-IL6-A1-P2	Tinted	LEO-092P	1/5/2011	----
LED Ball, 12-inch Red	TSL-12R-LX-IL6-A1-P2-CLR	Clear	LEO-095P	1/5/2011	----
LED Ball, 12-inch Red	TSL-12R-LX-IL6-A1-P3	Tinted	LEO-110P	5/28/2015	----
LED Ball, 12-inch Red	TSL-12R-LX-IL6-B1	Tinted	LEO-122P	8/2/2017	----
LED Ball, 12-inch Red	TSL-12R-LX-IL6-B1-P3	Tinted	LEO-117P	8/2/2017	----
LED Ball, 12-inch Yellow	TSL- 12Y-DT-A1	Tinted	LEO-127P	11/3/2020	2020-044Q
LED Ball, 12-inch Yellow	TSL-12Y-DT-A1-CLR	Clear	LEO-129P	11/3/2020	2020-046Q
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL3-A1-C	Tinted	LEO-066P	4/22/2009	----
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL3-B1	Direct Current (DC)	LEO-084P	10/18/2010	----
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL6-A1-P2	Tinted	LEO-093P	1/5/2011	----
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL6-A1-P2-CLR	Clear	LEO-096P	1/5/2011	----
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL6-A1-P3	Tinted	LEO-111P	5/28/2015	----
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL6-B1	Tinted	LEO-123P	8/2/2017	----
LED Ball, 12-inch Yellow	TSL-12Y-LX-IL6-B1-P3	Tinted	LEO-118P	8/2/2017	----
LED Ball, 8-inch Green	TSL-08G-DT-A1	Tinted	LEO-140P	11/3/2020	2020-113Q
LED Ball, 8-inch Green	TSL-08G-DT-A1-CLR	Clear	LEO-141P	11/3/2020	2020-114Q
LED Ball, 8-inch Green	TSL-08G-LX-IL3-A1	Tinted	LEO-076P	4/29/2010	----
LED Ball, 8-inch Green	TSL-08G-LX-IL3-A1-CL	Clear	LEO-077P	4/29/2010	----
LED Ball, 8-inch Green	TSL-08G-LX-IL6-A1-P2	Tinted	LEO-088P	1/5/2011	----
LED Ball, 8-inch Green	TSL-08G-LX-IL6-A1-P2-CLR	Clear	LEO-091P	1/5/2011	----
LED Ball, 8-inch Green	TSL-08G-LX-IL6-A1-P3	Tinted	LEO-109P	5/28/2015	----



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Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
LED Ball, 8-inch Red	TSL-08R-DT-A1	Tinted	LEO-138P	11/3/2020	2020-059Q
LED Ball, 8-inch Red	TSL-08R-DT-A1-CLR	Clear	LEO-143P	11/3/2020	2020-116Q
LED Ball, 8-inch Red	TSL-08R-LX-IL3-A1	Tinted	LEO-072P	4/29/2010	----
LED Ball, 8-inch Red	TSL-08R-LX-IL3-A1-CL	Clear	LEO-073P	4/29/2010	----
LED Ball, 8-inch Red	TSL-08R-LX-IL3-B1	Direct Current (DC)	LEO-081P	10/18/2010	----
LED Ball, 8-inch Red	TSL-08R-LX-IL6-A1-P2	Tinted	LEO-086P	1/5/2011	----
LED Ball, 8-inch Red	TSL-08R-LX-IL6-A1-P2-CLR	Clear	LEO-089P	1/5/2011	----
LED Ball, 8-inch Red	TSL-08R-LX-IL6-A1-P3	Tinted	LEO-107P	5/28/2015	----
LED Ball, 8-inch Red	TSL-08R-LX-IL6-B1	Tinted	LEO-120P	8/2/2017	----
LED Ball, 8-inch Red	TSL-08R-LX-IL6-B1-P3	Tinted	LEO-115P	8/2/2017	----
LED Ball, 8-inch White	TSL-08W-LX-IL6-A1	InGaN			2022-136Q
LED Ball, 8-inch Yellow	TSL-08Y-DT-A1	Tinted	LEO-139Q	11/3/2020	2020-112Q
LED Ball, 8-inch Yellow	TSL-08Y-DT-A1-CLR	Clear	LEO-142P	11/3/2020	2020-115Q
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL3-A1	Tinted	LEO-074P	4/29/2010	----
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL3-A1-CL	Clear	LEO-075P	4/29/2010	----
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL3-B1	Direct Current (DC)	LEO-082P	10/18/2010	----
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL6-A1-P2	Tinted	LEO-087P	1/5/2011	----
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL6-A1-P3	Tinted	LEO-108P	5/28/2015	----
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL6-B1	Tinted	LEO-121P	8/2/2017	----
LED Ball, 8-inch Yellow	TSL-08Y-LX-IL6-B1-P3	Tinted	LEO-116P	8/2/2017	----



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Section 955: Signal Heads

955.2(c) LED Vehicular Signal Head Modules

Last Revised: 8/24/2022

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(b) LED Circular Vehicle Traffic Signal Modules & LED Vehicle Arrow Traffic Signal Modules

Product	Name	Description	COA	COA Date	Ref. No.
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
LED Arrow, 12-inch Green	Duralight JXJ300-07G03	Tinted	TRA-028P	2/22/2010	----
LED Arrow, 12-inch Red	Duralight JXJ300-07R03	Tinted	TRA-026P	2/22/2010	----
LED Arrow, 12-inch Yellow	Duralight JXJ300-07Y03	Tinted	TRA-027P	2/22/2010	----
LED Ball, 12-inch Green	Duralight JXC300-HFG	Tinted	TRA-019P	1/7/2009	----
LED Ball, 12-inch Green	Duralight JXC300-HFTG	Tinted	TRA-025P	2/22/2010	----
LED Ball, 12-inch Red	Duralight JXC300-HFR	Tinted	TRA-017P	1/7/2009	----
LED Ball, 12-inch Red	Duralight JXC300-HFTR	Tinted	TRA-023P	2/22/2010	----
LED Ball, 12-inch Yellow	Duralight JXC300-HFDCY-P	Direct Current (DC)	TRA-032P	2/14/2012	----
LED Ball, 12-inch Yellow	Duralight JXC300-HFTY02	Tinted	TRA-024P	2/22/2010	----
LED Ball, 12-inch Yellow	Duralight JXC300-HFY02	Tinted	TRA--018P	1/7/2009	----
LED Ball, 8-inch Green	Duralight JXC200-HFG	Tinted	TRA-022P	4/27/2009	----
LED Ball, 8-inch Red	Duralight JXC200-HFR	Tinted	TRA-020P	4/27/2009	----
LED Ball, 8-inch Yellow	Duralight JXC200-HFY02	Tinted	TRA-021P	4/27/2009	----

955.2(d) Optically Programmed Signal Heads

Last Revised: 10/1/2021

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section Section 1104.06(c) LED Optically Programmed Signal Heads.

Product	Name	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
Green, LED Module	P46-3G33-003	DIA-036P	1/28/2005	----
Red, LED Module	P46-3R33-003	DIA-038P	1/28/2005	----
Yellow, LED Module	P46-3Y33-003	DIA-037P	1/28/2005	----



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Section 955: Signal Heads

955.2(d) Optically Programmed Signal Heads

Last Revised: 10/1/2021

* For Pub 408/2020 Change No. 2 and earlier (prior to October 8, 2021), see Section Section 1104.06(c) LED Optically Programmed Signal Heads.

Product	Name	COA	COA Date	Ref. No.
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/				
Green, LED Module	DR3-GCFB-01A	GEL-020P	9/24/2008	----
Red, LED Module	DR3-RCFB-01A	GEL-018P	9/24/2008	----
Yellow, LED Module	DR3-YCFB-01A	GEL-019P	9/24/2008	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
Green, LED Module	T05G-A-CA01	LEO-080P	7/23/2010	----
Red, LED Module	T05R-A-6100	LEO-078P	7/23/2010	----
Yellow, LED Module	T05Y-A-6100	LEO-079P	7/23/2010	----

955.2(e) Pedestrian Signal Housing

Last Revised: 2/1/2024

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(d) Pedestrian Signal Housings

Product	Name	Size (in.)	COA	COA Date	Ref. No.
BRTPI 15 Brown Traffic Products, MoboTrex, 109 West 55th Street, Davenport, IA 52806 https://www.mobotrex.com/					
Pedestrian Signal Housing	SA 302 A	9 x 9	BTP-002P	6/20/2014	----
Pedestrian Signal Housing	SA 302 A	12 x 12	BTP-001P	6/20/2014	----
Pedestrian Signal Housing	SG7SZ10C1YYF	16 x 18	BTP-007P	6/20/2014	----
Pedestrian Signal Housing	SG7SZ20C1YYF	16 x 18	BTP-008P	6/20/2014	----
CHMAI 15 Chapel Hill Manufacturing, 27895 Robinson Road, Suite 200, Conroe, TX 77385 Facility 200 Elder Road Conroe, TX 77385					
Pedestrian Signal Housing	SIG-PAY-315-TCG-EVN-00	12 x 12	CHM-003P	3/28/1994	----
Pedestrian Signal Housing	SIG-PPY-315-TCG-EVN-00	12 x 12	CHM-004P	3/28/1994	----
EOCA 15 Econolite Canada Inc, 110 Travail Road, Markham, ON L3S 3J1 https://www.econolite.ca/					
Pedestrian Signal Housing	16-inch Polycarbonate	16 x 18			2023-237Q



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Section 955: Signal Heads

955.2(e) Pedestrian Signal Housing

Last Revised: 2/1/2024

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(d) Pedestrian Signal Housings

Product	Name	Size (in.)	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/					
Pedestrian Signal Housing	12-inch Aluminum	12 x 12	ECO-119P	1/13/2010	----
Pedestrian Signal Housing	12-inch Polycarbonate	12 x 12	ECO-120P	1/13/2010	----
Pedestrian Signal Housing	16-inch Aluminum	16 x 18	ECO-121P	1/13/2010	----
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain					
Pedestrian Signal Housing	1000 Series	16 x 18	MCC-003P	8/20/1991	----
Pedestrian Signal Housing	M31941	16 x 18	MCC-017P	2/2/2012	----
Pedestrian Signal Housing	MPSTA	12 x 12	MCC-009P	7/14/1993	----
Pedestrian Signal Housing	MPSTP	12 x 12	MCC-008P	7/14/1993	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)					
Pedestrian Signal Housing	PHXAXXXX Series	16 x 18	TFW-014P	5/9/2019	----
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ Formerly known as Peek Traffic					
Pedestrian Signal Housing	4301	16 x 18	PTS-041P	9/21/2009	----
Pedestrian Signal Housing	MP Series	12 x 12	PTS-030P	8/18/1972	----
Pedestrian Signal Housing	MPA Series	12 x 12	PTS-034P	4/12/1978	----
Pedestrian Signal Housing	MPP Series	12 x 12	PTS-037S	10/6/1987	----
TRAPA 15 Traffic Parts, Inc., P. O. Box 837, Spring, TX 77383 http://www.trafficparts.com/ Facility Chapel Hill Manufacturing 27895 Robinson Road Conroe, TX 77385					
Pedestrian Signal Housing	SSPED-CNN-P22-N	16 x 18	TPI-009P	1/22/2016	----
Pedestrian Signal Housing	SSPED-CNN-Y22-N	16 x 18	TPI-011P	1/22/2016	----
Pedestrian Signal Housing	SSPED-PNN-P2N-N	16 x 18	TPI-010P	1/22/2016	----
Pedestrian Signal Housing	SSPED-PNN-Y2N-N	16 x 18	TPI-012P	1/22/2016	----

955.2(f) Pedestrian Signal Heads - LED Pedestrian Signal Modules

Last Revised: 10/22/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(e) LED Pedestrian Signal Modules



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Section 955: Signal Heads

955.2(f) Pedestrian Signal Heads - LED Pedestrian Signal Modules

Last Revised: 10/22/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(e) LED Pedestrian Signal Modules

Product	Name	Size (in.)	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
LED Module, Hand Only	430-5570-001X	9 x 9	DIA-059P	2/2/2009	----
LED Module, Hand Only	430-5770-001X	12 x 12	DIA-057P	2/2/2009	----
LED Module, Overlay Hand & Person	430-6772-001X	12 x 12	DIA-039P	6/3/2008	----
LED Module, Person Only	430-7570-001X	9 x 9	DIA-060P	2/2/2009	----
LED Module, Person Only	430-7771-001X	12 x 12	DIA-058P	2/2/2009	----
LED Module, Side-by-Side Hand & Person	430-6450-001X	16 x 18	DIA-040P	6/3/2008	----
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal					
LED Module, Side-by-Side Hand & Person	TRP-C45DG-W2	16 x 18	EOI-007P	8/6/2009	-
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
LED Module, Hand Only	PS6-PFH1-26A	12 x 12	GEL-028P	1/4/2008	-
LED Module, Overlay Hand & Person	PS6-CFL1-26A	12 x 12	GEL-050P	2/4/2011	----
LED Module, Person Only	PS6-WFM3-26A	12 x 12	GEL-029P	1/4/2008	----
LED Module, Side-by-Side Hand & Person	PS7-CFC1-26A	16 x 18	GEL-031P	8/20/2008	-
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
LED Module, Hand Only	TP09B-EH	9 x 9	LEO-058P	6/3/2008	----
LED Module, Hand Only	TP12B-EH	12 x 12	LEO-060P	6/3/2008	----
LED Module, Overlay Hand & Person	TP12H-HM	12 x 12	LEO-062P	6/3/2008	----
LED Module, Person Only	TP09B-WM	9 x 9	LEO-059P	6/3/2008	----
LED Module, Person Only	TP12H-WM	12 x 12	LEO-061P	6/3/2008	----
LED Module, Side-by-Side Hand & Person	TSL-PED-16-DIL	16 x 18	6/3/2008	6/3/2008	----
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
LED Module, Hand Only	Duralight JXM-09VIH	9 x 9	TRA-015P	1/7/2008	----
LED Module, Person Only	Duralight JXM-09VIM	9 x 9	TRA-016P	1/7/2008	----

955.2(g) Pedestrian Signal Heads - LED Countdown Pedestrian Signal Modules

Last Revised: 10/1/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(f) LED Countdown Pedestrian Signal Modules.



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Section 955: Signal Heads

955.2(g) Pedestrian Signal Heads - LED Countdown Pedestrian Signal Modules

Last Revised: 10/1/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(f) LED Countdown Pedestrian Signal Modules.

Product	Name	Size (in.)	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	4430-6479-001X	16 x 18	DIA-041P	6/3/2008	----
Countdown Pedestrian Signal, LED Module, Time Only	430-7773-001X	12 x 12	DIA-042P	6/3/2008	----
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal					
Countdown Pedestrian Signal, LED Module, Dual Unit	TRP-C45D3154C10	16 x 18	EOI-006P	8/6/2009	----
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-26A	16 x 18	GEL-030P	6/15/2008	----
Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-27A	16 x 18	GEL-076P	3/14/2013	----
Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-VLA	16 x 18	GEL-077P	3/30/2016	----
Countdown Pedestrian Signal, LED Module, Time Only	PS6-PFD1-26A	12 X 12	GEL-051P	2/1/2011	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-CIL-9	16 x 18	LEO-056P	6/3/2008	----
Countdown Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-SPC-V1	16 x 18	LEO-125P	12/12/2017	----
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	JXM-400VIEIL	16 x 18	TRA-029P	11/3/2010	----
Countdown Pedestrian Signal, LED Module, Time Only	Duralight JXM-200VIE	12 x 12	TRA-014P	8/23/2006	----



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Section 955: Signal Heads

955.2(h) LED Lane-Use Traffic Control Signal Heads

Last Revised: 10/4/2021

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.06(g) LED Lane Use Traffic Control Signals Heads.

Product	Name	COA	COA Date	Ref. No.
ORANG 15 Orange Traffic, 18195 Rue J A Bombardier, Mirabel, Quebec J7J 0E7 https://www.orangetraffic.com/				
Lane Use Signal Head, LED Module	LCS2828-18AB, Green Arrow / Yellow X / Red X Indicator	OTR-002P	11/9/2018	2017-027Q
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/				
Lane Use Signal Head, LED Module	JXM-LC1818, Green Arrow / Yellow X / Red X Indicator	TRA-031P	10/25/2011	-----



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Section 956: Detectors

956.2(b)1 Detector Sealants

Last Revised: 4/8/2024

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(a)1 Loop Detector Sealants.

Product	Name	COA	COA Date	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/			
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000			
Detector Sealant	3M Detector Loop Sealant			1985-136Q
DURPT 15	Durant Performance Coatings, Inc., 112 Railroad Avenue, Revere, MA 02151 http://www.durantcorp.com/			
Detector Sealant	Stat-A-Flex			1995-275
DYNAT 15	Bondo Traffic, 3M, 3700 Atlanta Ind. Parkway, Atlanta, GA 30331 https://www.3m.com/3M/en_US/bondo-us/			
Detector Sealant	P-606 Flexible Loop Sealer			----
RAIPR 15	RAI Products, P.O. Box 240772, Charlotte, NC 28224 http://raiproducts.com/			
Detector Sealant	Pro-Seal 6006			1994-261
RUSCE 15	The Ruscoe Company, P. O. Box 3858, Akron, OH 44314 http://www.ruscoe.com/highway-products/			
Detector Sealant	Traffic Detector Loop Sealant 974			----

956.2(c) Vehicular Detection

Last Revised: 3/15/2022

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
ALDIS 15	GRIDSMART Technologies, Inc., 10545 Hardin Valley Road, Knoxville, TN 37932 https://gridsmart.com/ Formerly Aldis Corporation			
Vehicular Detection System	GRIDSMART	ALD-001P	9/17/2013	----



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Section 956: Detectors

956.2(c) Vehicular Detection

Last Revised: 3/15/2022

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
EBERL 15 Eberle Design Inc., 3510 E Atlanta Avenue, Phoenix, AZ 85040 http://www.editraffic.com/				
Loop Amplifier, Rack-Mounted	LM222	EBD-021P	6/7/2000	----
Loop Amplifier, Rack-Mounted	LMD222	EBD-025P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD224	EBD-026P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD602	EBD-030P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD602T	EBD-031P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD604	EBD-032P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD604T	EBD-033P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD622	EBD-034P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD622T	EBD-035P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD624	EBD-036P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD624T	EBD-037P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD632T	EBD-038P	11/18/2008	----
Loop Amplifier, Rack-Mounted	LMD642T	EBD-039P	11/18/2008	----
Loop Amplifier, Rack-Mounted	Oracle 2E	EBD-040P	11/18/2008	----
Loop Amplifier, Rack-Mounted	Oracle 2EC	EBD-041P	11/18/2008	----
Loop Amplifier, Rack-Mounted	Oracle 4E	EBD-042P	11/18/2008	----
Loop Amplifier, Rack-Mounted	Oracle 4EC	EBD-044P	11/18/2008	----
Loop Amplifier, Rack-Mounted	Oracle 4H	EBD-043P	11/18/2008	----
Loop Amplifier, Shelf-Mounted	LMD301	EBD-027P	11/18/2008	----
Loop Amplifier, Shelf-Mounted	LMD302	EBD-028P	11/28/2008	----
Loop Amplifier, Shelf-Mounted	LMD304	EBD-029P	11/18/2008	----
Loop Amplifier, Shelf-Mounted	Oracle S1E	EBD-045P	11/18/2008	----
Loop Amplifier, Shelf-Mounted	Oracle S1EC	EBD-046P	11/18/2008	----
Loop Amplifier, Shelf-Mounted	Oracle S2E	EBD-047P	11/18/2008	----
Loop Amplifier, Shelf-Mounted	Oracle S2EC	EBD-048P	11/18/2008	----



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Section 956: Detectors

956.2(c) Vehicular Detection

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* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
Radar Detector	EVO RADAR			2022-005Q
Radar Detector	RTMS G4	ECO-126P	3/14/2014	----
Video Detector	Autoscope Image Sensor-AIS IV	ECO-124P	2/19/2013	----
Video Detector	Autoscope Vision Camera	ECO-130P	12/7/2018	2018-129Q
Video Detector	Encore	ECO-122P	1/7/2011	----
<i>This product is no longer being manufactured. Distributors may supply remaining stock for replacements or add-ons to an existing Encore system.</i>				
FLIRS 15 FLIR Systems, Inc., 6769 Hollister Avenue, Goleta, CA 93117 https://www.flir.com/				
Video Detector	TrafiRadar	FLI-003P	7/26/2019	----
Video Detector	TrafiSense	FLI-002P	12/21/2018	----
GLOTT 15 Global Traffic Technologies, LLC, 7800 Third Street North, Building 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
Loop Amplifier, Rack-Mounted	Canoga 9004 Loop Amplifier System	GTT-006P	2/17/2016	2015-167Q
ISSINC15 Image Sensing Systems, 400 Spruce Tree Centre, 1600 University Avenue West, St. Paul, MN 55104 http://www.imagesensing.com/				
Radar Detector	RTMS Echo	IMA-002P	5/26/2021	2020-148Q
Radar Detector	RTMS Sx-300	IMA-001P	3/27/2017	----



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Section 956: Detectors

956.2(c) Vehicular Detection

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* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
ITERS 15	Iteris, Inc, 1700 Carnegie Ave., Suite 100, Santa Ana, CA 92705-5551 http://www.iteris.com/			
Radar Detector	Vantage Vector	ITE-003P	2/21/2013	----
Radar Detector	VantageRadius	ITE-005P	10/4/2018	2018-179Q
Video Detector	RZ-4 AWD Advanced Wide Dynamic Range	ITE-001P	8/31/2012	----
Video Detector	SmartSpan	ITE-006P	4/10/2018	2017-118Q
Video Detector	Vantage Next	ITE-004P	12/20/2016	2016-211
Video Detector	VersiCam	ITE-002P	8/31/2012	----
ITSP1 15	ITS Plus, Inc., 6220 Trailwood Drive, Suite 200, Plano, TX 75024 https://itsplus3.com/			
Facility	Broach Bilt Manufacturing 2140 Redbud Boulevard McKinney, TX 75069			
Video Detector	ITSP-PM120C/24C	ITS-001P	3/21/2019	2018-215Q
LEDTI 15	LeddarTech, Inc., 4535, boulevard Wilfrid-Hamel, Suite 240, Quebec (Quebec) G1P 2J7, Canada https://leddartech.com/			
Video Detector	d-tec Sensor	LTI-001P	11/2/2012	----
MIGMA 15	Migma Systems, Inc., 1600 Providence Highway, Walpole, MA 02081 http://www.migmapd.com			
Video Detector	MigmaIntersection	MIG-001P	6/17/2016	2014-225
Video Detector	MigmaMidblock	MIG-002P	6/17/2016	2014-224
MIOV1 15	Miovision Technologies Inc., 137 Glasgow Street, Suite 110, Kitchener, Ontario, Canada N2G 4X8 https://miovision.com/			
Video Detector	Miovision Core DCM and SmartView 360 Camera			2021-210Q
Video Detector	Miovision SmartLink			2020-277Q
Video Detector	Miovision TrafficLink Camera Detection	MIO-001P	3/24/2020	2019-053Q



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Section 956: Detectors

956.2(c) Vehicular Detection

Last Revised: 3/15/2022

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
MSSD 15 MS Sedco, 7898 Zionsville Road, Indianapolis, IN 46286 http://mssedco.com/				
Radar Detection System	TC-CK1-SBE/TCIB-4	MSD-006P	6/7/2011	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
Loop Amplifier, Rack-Mounted	722L	TFW-009P (NAZ-017P	4/13/2015	----
Loop Amplifier, Rack-Mounted	722TXC	TFW-007P (NAZ-015P	4/13/2016	----
Loop Amplifier, Rack-Mounted	724	TFW-008P (NAZ-016P	4/13/2016	----
Loop Amplifier, Rack-Mounted	724L	TFW-010P (NAZ-018P	4/13/2016	----
Loop Amplifier, Shelf-Mounted	710 TX/I	TFW-002P (NAZ-009P	4/13/2016	----
NORCO 15 Northstar Controls, LLC, 6147 Clark Center Avenue, Sarasota, FL 34238 http://www.northstarcontrols.com/				
Loop Amplifier, Rack-Mounted	N222	NSC-005P	12/15/2008	----
Loop Amplifier, Rack-Mounted	N222-2	NSC-007P	12/15/2008	-
Loop Amplifier, Rack-Mounted	N222-2E	NSC--008P	12/15/2008	----
Loop Amplifier, Rack-Mounted	N222-E	NSC-006P	12/15/2008	----
Loop Amplifier, Rack-Mounted	N224-2	NSC-009P	12/15/2008	----
Loop Amplifier, Rack-Mounted	N224-2E	NSC-010P	12/15/2008	----
Loop Amplifier, Shelf-Mounted	NT11	NSC-010P	12/18/2008	----
Loop Amplifier, Shelf-Mounted	NT11-E	NSC-002P	12/18/2008	----
NTR-1 15 NoTraffic U.S. Inc., 2345 Yale Street, Palo Alto, CA 94306 https://notraffic.tech/ Facility Amphenol Tel-Ad Electronics Ltd. Kfar Saba, Israel				
Video Detector	NoTraffic Detection and Analytics App Platform (Model # NT-DET-APP)	NTR-001P	4/28/2021	2020-279Q



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Section 956: Detectors

956.2(c) Vehicular Detection

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* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ Formerly known as Peek Traffic				
Video Detector	VideoTrak IQ	PTS-043P	10/11/2013	----
RENOA 15 Reno A & E, Eberle Design Inc., 3510 E Atlanta Avenue, Phoenix, AZ 85040 https://www.editraffic.com/ Facility 4655 Aircenter Circle Reno, NV 89502				
Loop Amplifier, Rack-Mounted	222 (Solid State)	RAE-001P	1/6/2000	----
Loop Amplifier, Rack-Mounted	222-R (Relay)	RAE-002P	1/6/2000	----
Loop Amplifier, Rack-Mounted	G-200-SS	RAE-019P	11/5/2003	----
Loop Amplifier, Rack-Mounted	GT-200-R	RAE-010P	6/12/2003	----
Loop Amplifier, Rack-Mounted	GT-200-SS	RAE-011P	6/12/2003	----
Loop Amplifier, Rack-Mounted	L-1200-R	RAE-006P	8/11/1998	----
Loop Amplifier, Rack-Mounted	Y-200-SS	RAE-008P	6/12/2003	----
Loop Amplifier, Shelf-Mounted	L-1200-SS	RAE-007P	8/11/1998	----
Loop Amplifier, Shelf-Mounted	S-1200-R	RAE-012P	2/11/2000	----
Loop Amplifier, Shelf-Mounted	S-1200-SS	RAE-013P	2/11/2000	----
Loop Amplifier, Shelf-Mounted	T-100-R	RAE-014P	4/25/2002	----
Loop Amplifier, Shelf-Mounted	T-100-SS	RAE-015P	11/5/2003	----
Loop Amplifier, Shelf-Mounted	T-110-R	RAE-016P	11/5/2003	----
Loop Amplifier, Shelf-Mounted	T-210-R	RAE-017P	11/5/2003	----
Loop Amplifier, Shelf-Mounted	T-400-R	RAE-018P	11/5/2003	----
RHYEN 15 Rhythm Engineering, LLC, 14019 W 95th Street, Lenexa, KS 66215 https://rhythmtraffic.com/				
Video Detector	In Sync Video Vehicle Detection System with Bosch Camera	RHY-001P	4/28/2021	2020-211Q



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Section 956: Detectors

956.2(c) Vehicular Detection

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* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(b)1 for Video Detection Systems; Section 1104.07(b)2 for Loop Amplifier Systems; or Section 1104.07(b)3 for Microwave Radar Detection Systems

Product	Name	COA	COA Date	Ref. No.
SMS-1 15 s.m.s, smart microwave sensors GmbH, In den Waashainen 1, 38108 Braunschweig, Germany https://www.smartmicro.com/				
Radar Detector	TRUGRD (UMRR-12, Type 48)			2020-238Q
Radar Detector	TRUGRD Stream			2021-101Q
Radar Detector	UMRR-0C, Type 42	SMI-002P	11/6/2020	2020-060Q
Radar Detector	UMRR-11, Type 44	SMI-003P	11/6/2020	2020-061Q
Radar Detector	UMRR-11, Type 45	SMI-003P	11/6/2020	2020-095Q
TRAFI 15 Traficon USA LLC, 10161 Park Run Drive Suite 150, Las Vegas, NV 89145 https://traficon.net/				
Video Detector	TrafiCam	TUL-001P	10/4/2012	----
Video Detector	VIP	TUL-002P	10/4/2012	----
WAVTX 15 Wavetronix, LLC, 1827 West 650 North, Springville, UT 84663 http://www.wavetronix.com/en				
Radar Detector	Smart Sensor Advance Model 200	WAV-001S	9/14/2009	----
Radar Detector	Smart Sensor Matrix Radar Detection System	WAV-002S	6/13/2012	----

956.2(d) Pedestrian Detection

Last Revised: 3/21/2022

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(c)1 for Pedestrian Pushbuttons or Section 1104.07(c)2 for Accessible Pedestrian Signals (APS)

Product	Name	COA	COA Date	Ref. No.
CAMCO 15 Campbell Company, 450 West McGregor Drive, Boise, ID 83705 http://www.pedsafety.com/				
Accessible Pedestrian Signals (APS)	A 915	DCC-010P	5/20/2011	----
Accessible Pedestrian Signals (APS)	AAPS	DCC-012P	5/18/2015	----
Accessible Pedestrian Signals (APS)	Advisor APS A912	DCC-006P	11/18/2008	----



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Section 956: Detectors

956.2(d) Pedestrian Detection

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* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(c)1 for Pedestrian Pushbuttons or Section 1104.07(c)2 for Accessible Pedestrian Signals (APS)

Product	Name	COA	COA Date	Ref. No.
CAMCO 15 Campbell Company, 450 West McGregor Drive, Boise, ID 83705 http://www.pedsafety.com/				
Accessible Pedestrian Signals (APS)	APB 915	DCC-009P	5/20/2011	----
Accessible Pedestrian Signals (APS)	Guardian APS	DCC-015P	4/25/2019	----
Accessible Pedestrian Signals (APS)	Guardian Wave APS			2021-165Q
Accessible Pedestrian Signals (APS)	WiAAPS APS	DCC-014P	8/14/2018	----
Accessible Pedestrian Signals (APS)	WiAAPS Wave APS			2021-197Q
Pedestrian Pushbutton	4 EVR C	DCC-008P	5/20/2011	----
Pedestrian Pushbutton	DCC 200 Series	1562-P001	8/31/2001	----
Pedestrian Pushbutton	DCC Enlightened PPB	DCC-007P	11/18/2008	----
NOVIC 15 Novac Industries Corporation, #202 - 1525 Cliveden Ave., Delta BC Canada, V3M 6L2 http://www.novax.com/				
Accessible Pedestrian Signals (APS)	DS3000	NOV-001P	2/3/2012	----
PELC- 15 Pelco Products, Inc., 320 S.W. 18th Street, Edmond, OK 73013 http://www.pelcoinc.com/				
Accessible Pedestrian Signals (APS)	Intellicross APS	PEL-006P	10/4/2016	----
Pedestrian Pushbutton	SE-2119-P29	PEL-003P	11/28/2011	----
Pedestrian Pushbutton	SE-2120-P29	PEL-004P	11/28/2011	----
Pedestrian Pushbutton	SE-2154-P29	PEL-005P	11/28/2011	----
Pedestrian Pushbutton	SE-2205-08	PEL-002P	6/2/2010	----



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Section 956: Detectors

956.2(d) Pedestrian Detection

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* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(c)1 for Pedestrian Pushbuttons or Section 1104.07(c)2 for Accessible Pedestrian Signals (APS)

Product	Name	COA	COA Date	Ref. No.
POLEI 15 Polara Enterprises, LLC, 1497 CR 2178, Greenville, TX 75402 http://www.polara.com/ <i>Purchased Polara Engineering (Corona, CA) in January 2019.</i>				
Accessible Pedestrian Signals (APS)	BDLM2-X	POL-013P	9/23/2010	----
Accessible Pedestrian Signals (APS)	iDS2 (iNavigator S 2-Wire APS with iDetect)			2021-018Q
Accessible Pedestrian Signals (APS)	iDS3 (iNavigator S 3-Wire APS with iDetect)			2021-019Q
Accessible Pedestrian Signals (APS)	iN2 (iNavigator 2-Wire APS)	POL-015P	3/16/2018	2017-156Q
Accessible Pedestrian Signals (APS)	iN3 (iNavigator 3-Wire APS)	POL-016P	3/16/2018	2017-155Q
Accessible Pedestrian Signals (APS)	iNS2 (iNavigator Next Generation 2-Wire APS)	POL-017P	10/28/2020	2020-171Q
Accessible Pedestrian Signals (APS)	iNS3 (iNavigator Next Generation 3-Wire APS)	POL-018P	10/28/2020	2020-172Q
Accessible Pedestrian Signals (APS)	Navigator 2-Wire APS	POL-010P	5/11/2004	----
Accessible Pedestrian Signals (APS)	Navigator 4-Wire APS	POL-011P	5/11/2004	----
Pedestrian Pushbutton	BDL3-X	POL-014P	8/2/2013	----

956.2(e) Preemption Systems

Last Revised: 11/7/2023

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(d) Traffic Signal Preemption Systems.

Product	Name	COA	COA Date	Ref. No.
AINFO 15 Applied Information, Inc., 4411 Suwanee Dam Road, Suite 510, Suwanee, GA 30024 https://appinfoinc.com/				
Global Positioning System (GPS) Based Preemption	AI-500-085 Glance Preempt	AEA-002P	7/14/2021	2019-198Q



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Section 956: Detectors

956.2(e) Preemption Systems

Last Revised: 11/7/2023

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(d) Traffic Signal Preemption Systems.

Product	Name	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
8-inch White, LED Module	433-7170-001	DIA-062P	5/2/2012	----
EMTRAC1 STC, Inc., 1201 West Randolph Street, McLeansboro, IL 62859 https://www.emtracsystems.com/				
5	Global Positioning System (GPS) Based Preemption	EMTRAC ST-9283 RF/GPS Priority Detector		2023-166Q
	Global Positioning System (GPS) Based Preemption	EMTRAC ST-9284 Vehicle Computer Unit		2023-166Q
	Optical Preemption System	EMTRAC ST-9320 2-Channel Optical Priority Detector	ESI-001P 4/25/2019	----
	Optical Preemption System	EMTRAC ST-9340 4-Channel Optical Priority Detector	ESI-001P 4/25/2019	----
	Optical Preemption System	EMTRAC ST-9730 Optical Sensor	ESI-001P 4/25/2019	----
	Optical Preemption System	EMTRAC ST-9731 Optical Sensor	ESI-001P 4/25/2019	----
	Optical Preemption System	EMTRAC ST-9732 Optical Sensor	ESI-001P 4/25/2019	----
ETS-1 15 Emergency Traffic Systems, Inc., 540 West 18th Street, Erie, PA 16502-3716				
	Radio Preemption System	PR1 Program and Phase	EME-001P 12/3/2018	2018-135Q



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Section 956: Detectors

956.2(e) Preemption Systems

Last Revised: 11/7/2023

* For Pub 408/2020, Change No. 2 and earlier (prior to October 8, 2021), see Section 1104.07(d) Traffic Signal Preemption Systems.

Product	Name	COA	COA Date	Ref. No.
GLOTT 15 Global Traffic Technologies, LLC, 7800 Third Street North, Building 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
Global Positioning System (GPS) Based Preemption	OPTICOM GPS System	GTT-001S	11/26/2008	----
Optical Preemption System	452	MMM-029P	3/10/1999	----
Optical Preemption System	454	MMM-028P	3/10/1999	----
Optical Preemption System	462	GTT-004P	11/11/2012	----
Optical Preemption System	464	GTT-005P	11/11/2012	----
Optical Preemption System	752	MMM-030P	3/11/1999	----
Optical Preemption System	754	MMM-031P	3/11/1999	----
Optical Preemption System	762	GTT-002P	2/20/2012	----
Optical Preemption System	764	GTT-003P	2/20/2012	----
Optical Preemption System	OPTICOM	MMM-006S	5/1/1979	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
8-inch White, LED Module	TP08B-WS	LEO-114P	3/4/2016	----
TOMEI 15 Tomar Electronics, Inc., 2100 West Obispo Avenue, Gilbert, AZ 85233 http://tomar.com/				
Optical Preemption System	Strobecom I	TEL-002P	4/2/1998	----
Optical Preemption System	Strobecom II	TEL-003P	4/27/1998	----
TRASA 15 Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/				
Acoustic Preemption System	SONEM 2000	TSL-001S	6/1/2001	----
WAPEN 15 Wapiti Micro Systems, 4565 Glenbrook Road, Willoughby, OH 44094 https://www.wapitimicrosystems.com/				
Acoustic Preemption System	Right O' Way (R.O.W.-2)	WAP-001S	4/30/2008	----

956.2(f) CCTV for Signalized Intersection



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Section 957: Advanced Traffic Signal Technology

Section 957 effective for contracts let on or after October 8, 2021.



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Section 958: Temporary Traffic Control Signals

958.2(b) Temporary Traffic Control Signals On Fixed Supports

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

958.2(c) Temporary Traffic Control Signals On Pedestal-Mounted Portable Systems

Last Revised: 7/5/2022

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	COA Date	Signal Mount	Ref. No.
HORST 15 Horizon Signal Technologies, 5 Corporate Blvd., Reading, PA 19608 http://horizonsignal.com/					
Temporary Traffic Control Signal, Pedestal-Mounted	SQ2	HOR-001S	12/16/2008	Pedestal Mount	----
THOJO 15 John Thomas, Inc. (JTI), 1560 Lovett Drive, Dixon, IL 61021 http://www.jtitraffic.com/					
Temporary Traffic Control Signal, Pedestal-Mounted	Sentinel Pedestal-mounted Portable Traffic Signal (PTS)	JTS-002P	3/26/2019	Pedestal Mount	2017-310Q

958.2(d) Temporary Traffic Control Signals On Trailer-Mounted Portable Systems

Last Revised: 10/6/2022

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	COA Date	Signal Mount	Ref. No.
HORST 15 Horizon Signal Technologies, 5 Corporate Blvd., Reading, PA 19608 http://horizonsignal.com/					
Temporary Traffic Control Signal, Trailer-Mounted	SQ3TS	HOR-009S	12/16/2008	Trailer Mount	----
NORAT 15 North America Traffic, 7 Petersburg Circle, Port Colborne, Ontario, Canada L3K 5V5 http://www.northamericatraffic.com/					
Temporary Traffic Control Signal, Trailer-Mounted	PTL 2.4x	NAT-001P	12/16/2008	Trailer Mount	----



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Section 958: Temporary Traffic Control Signals

958.2(d) Temporary Traffic Control Signals On Trailer-Mounted Portable Systems

Last Revised: 10/6/2022

Category 4 Temporary Traffic Control Device: MASH 2016 approvals required by December 31, 2025. Existing devices meeting Quality and Service Life standards can be utilized until December 31, 2025 per SOL 494-21-08. [Publication 213 "Temporary Traffic Control Guidelines"](#)

Product	Name	COA	COA Date	Signal Mount	Ref. No.
OMJC1 15 OMJC Signal, INC, 403 Chestnut St, Waterloo, IA 50703 http://omjcsignal.com/					
Temporary Traffic Control Signal, Trailer-Mounted	Pop-up LD	OSI-001P	8/21/2017	Trailer Mount	2016-143
RCFLG 15 North America Traffic Inc. (R. C. Flagman), 7 Petersburg Circle, Port Colborne, Ontario, Canada L3K 5V5 https://northamericatraffic.com/					
Temporary Traffic Control Signal, Trailer-Mounted	PTL 2.4LD (Light Duty)				2022-101Q
<i>This is a light duty model and not intended for long term construction projects.</i>					
THOJO 15 John Thomas, Inc. (JTI), 1560 Lovett Drive, Dixon, IL 61021 http://www.jtitraffic.com/					
Temporary Traffic Control Signal, Trailer-Mounted	ADDCO PTS-2000	JTI-001P	3/12/2012	Trailer Mount	-----



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Section 960: Hot Thermoplastic Pavement Markings

960.2 Hot Thermoplastic Pavement Markings

Last Revised: 12/6/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking	Illuminatio	Marking Surface	Primer	Beads	Application Uses	Ref. No.
ENN-1 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>								
Hot Thermoplastic Pavement Marking	885637	HTPM-C	White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2012-13 1QC
<i>(Tested on 2008 Pennsylvania NTPEP Test Desk: PMM-2008-PA-069). Lot numbers start with T or G.</i>									
ENN-2 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 505 County Line Road Thomasville, NC 27630 <i>Acquired by PPG in December 2020.</i>								
Hot Thermoplastic Pavement Marking	885625		White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2017-31 2Q
<i>Lot numbers start with N. (Tested on 2005 Pennsylvania NTPEP Test Desk: PMM-2005-PA-023)</i>									
Hot Thermoplastic Pavement Marking	885626		Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2017-31 3Q
<i>Lot numbers start with N. (Tested on 2005 Pennsylvania NTPEP Test Desk: PMM-2005-PA-024)</i>									
Hot Thermoplastic Pavement Marking	885637		White	Lighted and Unlighted Roadways	Asphalt	No	M247 Type 1	Lines and Other Uses	2017-31 4Q
<i>Lot numbers start with N. (Tested on 2008 Pennsylvania NTPEP Test Desk: PMM-2008-PA-069)</i>									



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Section 960: Hot Thermoplastic Pavement Markings

960.2 Hot Thermoplastic Pavement Markings

Last Revised: 12/6/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking	Illuminatio	Marking Surface	Primer	Beads	Application Uses	Ref. No.
SWAR1 15 Swarco Industries LLC, 270 Rutherford Lane, P.O. Box 89, Columbia, TN 38402 https://www.swarco.com/northamerica									
Hot Thermoplastic Pavement Marking	WHAASHTO	HTPM-C	White	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Hot Thermoplastic Pavement Marking	WHAASHTO	HTPM-C	White	Lighted and Unlighted Roadways	Concrete	No	M247	Lines Only	----
Hot Thermoplastic Pavement Marking	YHAASHTO	HTPM-C	Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Hot Thermoplastic Pavement Marking	YHAASHTO	HTPM-C	Yellow	Lighted and Unlighted Roadways	Concrete	No	M247	Lines Only	----



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Section 961: Cold Plastic Pavement Markings or Legends

961.2 Cold Plastic Pavement Markings or Legends

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking	Illuminatio	Marking Surface	Primer	Beads	Application Uses	Ref. No.
3M-01 15 3M Company, 3M Traffic Control Materials Lab, 3M Center Building 235-3B-55, St. Paul, MN 55144 http://www.3m.com/3M/en_US/company-us/									
Cold Plastic Pavement Marking or Legend	380-1	CPPM-	White	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes	Ceramic	Lines and Other Uses	----
Cold Plastic Pavement Marking or Legend	381-1	CPPM-	Yellow	Lighted and Unlighted Roadways	Asphalt	Yes	Ceramic	Lines and Other Uses	----
Cold Plastic Pavement Marking or Legend	381-1	CPPM-	Yellow	Lighted and Unlighted Roadways	Concrete	Yes	Ceramic	Lines Only	----
Cold Plastic Pavement Marking or Legend	A380	CPPM-	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines and Other Uses	----
Cold Plastic Pavement Marking or Legend	A381	CPPM-	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines and Other Uses	----
BRITE 15 Brite-Line Technologies LLC, 10660 E. 51st Ave., Denver, CO 80239 http://brite-line.com/									
Cold Plastic Pavement Marking or Legend	Series 1000	CPPM-	White	Lighted and Unlighted Roadways	Asphalt and Concrete	Yes	Yes	Lines and Other Uses	2009-07 7Q



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Section 961: Cold Plastic Pavement Markings or Legends

961.2 Cold Plastic Pavement Markings or Legends

Last Revised: 1/29/2018

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking	Color	Illumination	Marking Surface	Primer	Beads	Application Uses	Ref. No.
SWAR1 15 Swarco Industries LLC, 270 Rutherford Lane, P.O. Box 89, Columbia, TN 38402 https://www.swarco.com/northamerica										
Cold Plastic Pavement Marking or Legend	Director 60	CPPM-(	White		Lighted Roadways Only	Asphalt	Yes	SP	Lines and Other Uses	-----
<i>Restricted Use: surface applied on existing pavements only.</i>										
Cold Plastic Pavement Marking or Legend	Director 60	CPPM-(	White		Lighted and Unlighted Roadways	Concrete	Yes	SP	Lines and Other Uses	-----
<i>Restricted Use: surface applied on existing pavements only.</i>										
Cold Plastic Pavement Marking or Legend	Director 60	CPPM-(	White		Lighted Roadways Only	Asphalt and Concrete	Yes	SP	Lines and Other Uses	-----
<i>Restricted Use: surface applied on existing pavements only.</i>										



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 962: Waterborne Pavement Markings

962.2 Waterborne Pavement Markings

Last Revised: 7/20/2022

~ [Specification For Waterborne Traffic Line Paint - Dec. 14, 2021](#)

Product	Name	COA	Marking Color	NTPEP Test Number	Ref. No.
ENN-1 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>				
Waterborne Pavement Marking	991022	WP-01	White	PMM-2005-PA-28	2007-074Q
Waterborne Pavement Marking	991028	WP-01	Yellow	PMM-2005-PA-34	2007-070Q
Waterborne Pavement Marking	991152	WP-01	White	PMM-2008-PA-51	2011-237Q
Waterborne Pavement Marking	991158	WP-01	Yellow	PMM-2008-PA-57	2011-231Q
ENN-3 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 4400 Vawter Avenue Richmond, VA 23222 <i>Acquired by PPG in December 2020.</i>				
Waterborne Pavement Marking	983801 (EF Series WB18NTPWBW6)		White	PMM-2018-01-110	2020-090Q
Waterborne Pavement Marking	983802 (EF Series WB18NTPWBY6)		Yellow	PMM-2018-01-111	2020-091Q
Waterborne Pavement Marking	983811 (WB18NTPWBW8)		White	PMM-2018-01-114	2022-046Q
<i>Approved for line application uses on asphalt and concrete surfaces. Not approved for legend application uses (crosswalks, symbols, legends, stop lines, etc).</i>					
Waterborne Pavement Marking	991022	WP-01	White	PMM-2005-PA-28	2007-074Q
Waterborne Pavement Marking	991028	WP-01	Yellow	PMM-2005-PA-34	2007-070Q
Waterborne Pavement Marking	991152	WP-01	White	PMM-2008-PA-51	2011-237Q
Waterborne Pavement Marking	991158	WP-01	Yellow	PMM-2008-PA-57	2011-231Q
OZARK 15	Ozark Materials, LLC, 591 Glendale Avenue, Greenville, AL 36037 http://ozarkmaterials.net				
Waterborne Pavement Marking	Yellow PA Type I (24227)		Yellow	PMM-2018-01-066	2020-089Q
<i>Provisionally Approved.</i>					



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Section 962: Waterborne Pavement Markings

962.2 Waterborne Pavement Markings

Last Revised: 7/20/2022

~ [Specification For Waterborne Traffic Line Paint - Dec. 14, 2021](#)

Product	Name	COA	Marking Color	NTPEP Test Number	Ref. No.
SHER2 15 The Sherwin-Williams Company, Protective & Marine Coatings, Breen Technology Center, 601 Canal Road, Cleveland, OH 44113 https://protective.sherwin-williams.com/					
Plant	2325 Hollins Ferry Road Baltimore, MD 21230				
Waterborne Pavement Marking	058-004 (TM2382)	WP-02	White	PMM-2005-PA-059	2007-014Q
Waterborne Pavement Marking	058-006 (TM2383)	WP-02	Yellow	PMM-2005-PA-061	2007-016Q
Waterborne Pavement Marking	2008138105	WP-02	White	PMM-2008-PA-204	2011-245Q



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/12/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Prime	Beads	Application Uses	Ref. No.
ACCST 15 Accent Stripe, 3275 Benzing Road, Orchard Park, NY 14127 http://www.accentstripe.com/									
Epoxy Pavement Marking	ACNT-W-A	EPM-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines Only	----
Epoxy Pavement Marking	ACNT-W-S	EPM-01	White	Lighted and Unlighted Roadways	Asphalt and Concrete			Lines Only	----
Epoxy Pavement Marking	ACNT-W-T	EPM-01	White	Lighted and Unlighted Roadways	Asphalt			Lines Only	----
Epoxy Pavement Marking	ACNT-Y-S	EPM-01	Yellow	Lighted and Unlighted Roadways	Concrete			Lines Only	----
BALTP 15 Baltimore Paint & Chemical, Division of Sherwin Williams, 2325 Hollins Ferry Road, Baltimore, MD 21230									
Epoxy Pavement Marking	TM8206 (TM8212)	PM-5-5	White	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Epoxy Pavement Marking	TM8209 (TM8215)	PM-5-5	Yellow	Lighted and Unlighted Roadways	Asphalt	No	M247	Lines and Other Uses	----
Epoxy Pavement Marking	TM8209 (TM8215)	PM-5-5	Yellow	Lighted and Unlighted Roadways	Concrete	No	M247	Lines Only	----



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/12/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Primer	Beads	Application Uses	Ref. No.
ENN-15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>								
Acrylate Epoxy Pavement Marking	HPS-4		White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines Only	2022-037 Q
<i>Product Codes: 999411 - Part A White; 999499 - Part B Catalyst</i>									
Acrylate Epoxy Pavement Marking	HPS-4		Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines Only	2022-038 Q
<i>Product Codes: 999412 - Part B Yellow; 999499 - Part B Catalyst</i>									
Epoxy Pavement Marking	HPS-3	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2008-154 QA
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	HPS-3	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2008-154 QB
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

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Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Prime	Beads	Application Uses	Ref. No.
ENN-3 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 4400 Vawter Avenue Richmond, VA 23222 Acquired by PPG in December 2020.								
Epoxy Pavement Marking	HPS-3	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	-----
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	HPS-3	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	-----
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	HPS-4	EPM-05	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	-----
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	HPS-4	EPM-05	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	-----
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/12/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking	Illumination	Marking Surface	Prime	Beads	Application Uses	Ref. No.
EPOPX 15 Epoplex, 1000 East Park Avenue, Maple Shade, NJ 08052 http://www.epoplex.com/									
Epoxy Pavement Marking	LS50	EPM-03	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2007-003 QA
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	LS50	EPM-03	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2007-003 QB
<i>Beads vary by type and rate of application. Refer to Certificate of Approval.</i>									
Epoxy Pavement Marking	LS50	EPM-03	Black Line Mask	Lighted and Unlighted Roadways	Concrete	No	No	Lines Only	2011-017 Q
<i>Provisionally Approved</i>									
Epoxy Pavement Marking	LS65	EPM-03	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2010-330 Q
<i>Beads vary by type and rate of application. Refer to Certificate of Approval. Provisionally Approved</i>									
Epoxy Pavement Marking	LS65	EPM-03	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Vary	Lines and Other Uses	2010-331 Q
<i>Beads vary by type and rate of application. Refer to Certificate of Approval. Provisionally Approved</i>									
Epoxy Pavement Marking	LS65qs		Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M247	Long lines and other uses on asphalt and concrete	2021-035 Q



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Section 964: Epoxy Pavement Markings

964.2 Epoxy Pavement Markings

Last Revised: 1/12/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illumination	Marking Surface	Prime	Beads	Application Uses	Ref. No.
POLYC 15 Olin Epoxy-POLY-CARB, 8440 Tower Dr., Twinsburg, OH 44087 http://www.poly-carb.com/									
Plant 125 Industrial Park Rd. Roberta, GA 31078									
Formerly POLY-CARB, Inc.									
Epoxy Pavement Marking	Mark-55.3	EPM-04	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 1	Lines and Other Uses	-----
Epoxy Pavement Marking	Mark-55.3	EPM-04	White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 4	Lines and Other Uses	-----
Epoxy Pavement Marking	Mark-55.3	EPM-04	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 1	Lines Only	-----
Epoxy Pavement Marking	Mark-55.3	EPM-04	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	M237 Type 4	Lines Only	-----
SWAR3 15 Colorado Paint Company, the SWARCO Group, 4747 Holly Street, Denver, CO 80216 https://www.swarco.com/cpc									
Epoxy Pavement Marking	1180		White	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Type E (Megalux Utah Blend) at 24lbs/gal.	Lines and Other Uses	2017-035 Q
Epoxy Pavement Marking	1186		Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete	No	Type E (Megalux Utah Blend) at 24 lbs/gal.	Lines and Other Uses	2017-036 Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 965: Preformed Thermoplastic Pavement Markings

965.2 Preformed Thermoplastic Pavement Markings

Last Revised: 8/16/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illuminatio	Marking Surface	Primer'	Beads	Application Uses	Ref. No.
FLINT 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 115 Todd Court Thomasville, NC 27360								
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-0 White 2		Lighted Roadways Only	Asphalt	No	PT260	Lines and Other Uses	-----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-0 White 2		Lighted and Unlighted Roadways	Concrete	No	PT260	Lines and Other Uses	-----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-0 Yellow 2		Lighted Roadways Only	Asphalt	No	PT260	Lines and Other Uses	-----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	HotTape (HT)	PTPM-0 Yellow 2		Lighted and Unlighted Roadways	Concrete	No	PT260	Lines Only	-----
<i>Formerly listed as 9WPASTR96.</i>									
Preformed Thermoplastic Pavement Marking	PreMark (PM)	PTPM-0 White 2		Lighted and Unlighted Roadways	Asphalt and Concrete			Lines and Other Uses	-----



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Section 965: Preformed Thermoplastic Pavement Markings

965.2 Preformed Thermoplastic Pavement Markings

Last Revised: 8/16/2023

Lines are defined as Center, Lane, and Edge Lines.

Other Uses are defined as Crosswalks, Stop Lines, Legends, and Crosshatching.

Product	Name	COA	Marking Color	Illuminatio	Marking Surface	Primer'	Beads	Application Uses	Ref. No.
OZARK 15 Ozark Materials, LLC, 591 Glendale Avenue, Greenville, AL 36037 http://ozarkmaterials.net									
Preformed Thermoplastic Pavement Marking	Preformed Thermoplastic		White	Lighted and Unlighted Roadways	Asphalt and *Concrete	No		*Lines and **Other Uses	2018-075Q
<p><i>* For use as a Line on concrete surfaces, the preformed thermoplastic must be preheated before placing on concrete surface.</i></p> <p><i>** The preformed thermoplastic is NOT approved for Other Uses on concrete surfaces. The product is approved for both Lines and Other Uses on asphalt surfaces.</i></p>									
PREF1 15 PREFORM LLC, 3845 Deerpark Blvd, Elkton, FL 32033 https://preform.us/									
Preformed Thermoplastic Pavement Marking	PREFORM PSFW		White	Lighted and Unlighted Roadways	Asphalt and Concrete	No		Long lines and other uses on asphalt and concrete	2020-271Q

965.2 Preformed Thermoplastic Decorative Crosswalks (Conditionally Approved)

Last Revised: 9/18/2019

Per MUTCD, no glass beads are allowed for decorative crosswalks.

Product	Name	COA	Marking Color	Illuminatio	Marking Surface	Primer'	Beads	Application Uses	Ref. No.
FLINT 15 Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/									
Plant	115 Todd Court Thomasville, NC 27360								
Imprinted Aggregate Reinforced Decorative Crosswalk	TrafficPatternsXD		Non-Reflective White, Black, Brown, Silver-Gray, Maroon, or Tan	N/A	Asphalt	Yes, two-part epoxy sealer	N/A	Crosswalk Only, Offset Brick & Diagonal Herringbone Patterns	2016-248Q



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Section 965: Preformed Thermoplastic Pavement Markings

965.2 Preformed Thermoplastic Decorative Crosswalks (Conditionally Approved)

Last Revised: 9/18/2019

Per MUTCD, no glass beads are allowed for decorative crosswalks.

Product	Name	COA	Marking Color	Illuminatio	Marking Surface	Primer	Beads	Application Uses	Ref. No.
FLINT 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410								http://www.ennisflintamericas.com/
	115 Todd Court Thomasville, NC 27360								
	<i>Conditionally approved per manufacturer's specifications (150 mil thickness, brick-looking stamped material). The stamping templates and StreetPrint/StreetHeat reciprocating infrared heating equipment is supplied by Ennis-Flint. TrafficPatterns XD Manufacturer's Specification</i>								
Interconnected Surface Applied Decorative Crosswalk	TrafficPatterns	PTPM-0 2	Non-Reflectiv e White, Black, Brown, Silver-Gray, Maroon, or Tan	N/A	Asphalt and Concrete		N/A	Decorative Crosswalk	----
	<i>Conditionally approved per manufacturer's specifications (125 mil thickness).</i>								



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Castings

Last Revised: 3/6/2017

The Section 966.2(c) adhesive is not listed in Bulletin 15. The adhesive recommended by the RPM manufacturer must conform to AASHTO M 237, Type IV.

Product	Name	COA	Direction	Ref. No.
ENN-1 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>			
RPM Casting	101 LP		One Way / Two Way	----
RPM Casting	101 LPS, Bridge Deck Only		One Way / Two Way	----
ENN-2 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 505 County Line Road Thomasville, NC 27630 <i>Acquired by PPG in December 2020.</i>			
RPM Casting	101 LP		One Way / Two Way	----
RPM Casting	101 LPS, Bridge Deck Only		One Way / Two Way	----
RAYOL 15 Plant	Rayolite, 4500 N. Sam Houston Parkway West, Suite 120, Houston, TX 77086 http://www.rayolite.com/ 4500 N. Sam Houston Parkway West Suite 120 Houston, TX 77086			
RPM Casting	H-1010 Low Profile (Narrow)	RPM-C2	One Way / Two Way	----
RPM Casting	H-960 Low Profile	RPM-C2	One Way / Two Way	----

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.
3M-03 15 Plant	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
RPM Reflector Unit	190	RPM-04	White / Blank	One Way	No	----
RPM Reflector Unit	190	RPM-04	Yellow / Blank	One Way	No	----



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000					
	http://www.3m.com/3M/en_US/company-us/					
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
	RPM Reflector Unit	190	RPM-04	White / Blank	Two Way	No -----
	RPM Reflector Unit	190	RPM-04	Yellow / Blank	Two Way	No -----
	RPM Reflector Unit	190	RPM-04	Red / White	Two Way	No -----
	RPM Reflector Unit	190	RPM-04	Red / Yellow	Two Way	No -----
	RPM Reflector Unit	190	RPM-04	Yellow / Yellow	Two Way	No -----
	RPM Reflector Unit	194	RPM-04	White / Blank	One Way	No -----
	RPM Reflector Unit	194	RPM-04	Yellow / Blank	One Way	No -----
	RPM Reflector Unit	198	RPM-04	White / Blank	One Way	No -----
	RPM Reflector Unit	198	RPM-04	Yellow / Blank	One Way	No -----
	RPM Reflector Unit	198	RPM-04	White / Blank	Two Way	No -----
	RPM Reflector Unit	198	RPM-04	Yellow / Blank	Two Way	No -----
	RPM Reflector Unit	198	RPM-04	Red / White	Two Way	No -----
	RPM Reflector Unit	198	RPM-04	Red / Yellow	Two Way	No -----
	RPM Reflector Unit	198	RPM-04	Yellow / Yellow	Two Way	No -----



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.
ENN-1 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>					
RPM Reflector Unit	C40	RPM-01	Yellow / Yellow	Two Way	No	2006-049Q
RPM Reflector Unit	C40	RPM-01	Yellow / Blank	One Way	No	2006-050Q
RPM Reflector Unit	C40	RPM-01	White / Blank	One Way	No	2006-051Q
RPM Reflector Unit	C40	RPM-01	Red / White	Two Way	No	2010-164QA
RPM Reflector Unit	C40	RPM-01	Red / Yellow	Two Way	No	2010-164QB
RPM Reflector Unit	C80	RPM-01	White / Blank	One Way	No	2013-019A
	Nonsnowplowable					
RPM Reflector Unit	C80	RPM-01	Yellow / Yellow	Two Way	No	2013-019B
	Nonsnowplowable					
RPM Reflector Unit	C80	RPM-01	Yellow / Blank	One Way	No	2013-019C
	Nonsnowplowable					



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.
ENN-2 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 505 County Line Road Thomasville, NC 27630 <i>Acquired by PPG in December 2020.</i>					
RPM Reflector Unit	C40	RPM-01	Yellow / Blank	One Way	No	----
RPM Reflector Unit	C40	RPM-01	White / Blank	One Way	No	----
RPM Reflector Unit	C40	RPM-01	Yellow / Yellow	Two Way	No	----
RPM Reflector Unit	C40	RPM-01	Red / Yellow	Two Way	No	----
RPM Reflector Unit	C40	RPM-01	Red / White	Two Way	No	----
RPM Reflector Unit	C80	RPM-01	White / Blank	One Way	No	2013-019A
	Nonsnowplowable					
RPM Reflector Unit	C80	RPM-01	Yellow / Yellow	Two Way	No	2013-019B
	Nonsnowplowable					
RPM Reflector Unit	C80	RPM-01	Yellow / Blank	One Way	No	2013-019C
	Nonsnowplowable					
RPM Reflector Unit	C80	RPM-01	Red / White	Two Way	No	2014-249QA
	Nonsnowplowable					
RPM Reflector Unit	C80	RPM-01	Red / Yellow	Two Way	No	2014-249QB
	Nonsnowplowable					



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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.	
PEXCO 15 Plant PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 3110 70th Avenue East Tacoma, WA 98424 http://www.pexco.com/traffic	RPM Reflector Unit	Halftrack	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Halftrack	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	RPM	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	RPM	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	TOM	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	TRPM	RPM-02	Yellow / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----
	RPM Reflector Unit	TRPM	RPM-02	White / Blank	One Way / Two Way	No	----
	RPM Reflector Unit	Nonsnowplowable	RPM-02	Yellow / Blank	One Way / Two Way	No	----
RPM Reflector Unit	TRPM	RPM-02	Yellow / Yellow	One Way / Two Way	No	----	
RPM Reflector Unit	Nonsnowplowable	RPM-02	Yellow / Yellow	One Way / Two Way	No	----	



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.
RAYOL 15 Plant	Rayolite, 4500 N. Sam Houston Parkway West, Suite 120, Houston, TX 77086		http://www.rayolite.com/			
	4500 N. Sam Houston Parkway West Suite 120 Houston, TX 77086					
RPM Reflector Unit	2002 B	RPM-05	White / White	One Way	Yes	----
RPM Reflector Unit	2002 C	RPM-05	Red / White	Two Way	Yes	----
RPM Reflector Unit	2002 D	RPM-05	Yellow / Yellow	One Way	Yes	----
RPM Reflector Unit	2002 G	RPM-05	White / Blank	One Way	Yes	----
RPM Reflector Unit	2002 H	RPM-05	Yellow / Blank	One Way	Yes	----
RPM Reflector Unit	2004	RPM-05	White / Blank	One Way	Yes	2011-078QA
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Red / White	Two Way	Yes	2011-078QB
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Yellow / Blank	One Way	Yes	2011-078QC
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Red / Yellow	Two Way	Yes	2011-078QD
<i>Provisionally Approved</i>						
RPM Reflector Unit	2004	RPM-05	Yellow / Yellow	Two Way	Yes	2011-078QE
<i>Provisionally Approved</i>						



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 966: Snowplowable Raised Pavement Markers

966.2 Snowplowable Raised Pavement Marker (RPM) Reflector Units

Last Revised: 1/25/2018

Product	Name	COA	Reflector Unit Color	Direction	Recesse	Ref. No.
VEGA- 15 Vega Molded Products, Inc., 122 Industrial Drive, Gilberts, IL 60136 http://vegamoldedproducts.com/						
RPM Reflector Unit	CM Nonsnowplowable	RPM-03	White / Blank	One Way / Two Way	No	----
RPM Reflector Unit	CM Nonsnowplowable	RPM-03	Yellow / Blank	One Way / Two Way	No	----
RPM Reflector Unit	CM Nonsnowplowable	RPM-03	Yellow / Yellow	One Way / Two Way	No	----
RPM Reflector Unit	TPM Nonsnowplowable	RPM-03	White / Blank	One Way / Two Way	No	----
RPM Reflector Unit	TPM Nonsnowplowable	RPM-03	Yellow / Blank	One Way / Two Way	No	----
RPM Reflector Unit	TPM Nonsnowplowable	RPM-03	Yellow / Yellow	One Way / Two Way	No	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 1001: Cement Concrete Structures

1001.2(h)2 Metal Bridge Deck Forms

Last Revised: 10/5/2021

Steel Products Procurement Act applies.

ASTM A924/A924M and ASTM A653/A653M. [Standard Drawing BC-732M \(Publication 219M\)](#)

Product	Name	Grade	Ref. No.
D-MAC 15 D-Mac Industries Inc., 1880 D-mac Drive, Alpharetta, GA 30004 http://www.d-macindustries.com/index.html	Metal Bridge Deck Form	Structural Steel (SS) 40	1989-265
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	2013-035QAB
	Metal Bridge Deck Form	Structural Steel (SS) 80	2013-035QAB
EPIC- 15 Epic Metals Corporation, 11 Talbot Ave., Rankin, PA 15104 http://www.epicmetals.com/	Metal Bridge Deck Form	Structural Steel (SS) 40	1992-243
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	1992-243
FOST0 15 L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/	Metal Bridge Deck Form	Structural Steel (SS) 40	----
	Metal Bridge Deck Form	Classes 1 and 3 only Structural Steel (SS) 80	2014-204QB
FOST2 15 L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/	Metal Bridge Deck Form	Structural Steel (SS) 40	2014-204QA
	Metal Bridge Deck Form	Classes 1 and 3 only Structural Steel (SS) 80	2014-204QB
HALFE 15 Halferty Metals Company, 294 Bergman Road, Derry, PA 15627	Metal Bridge Deck Form	Structural Steel (SS) 40	2012-212QAB
	Metal Bridge Deck Form	Structural Steel (SS) 80	2012-212QAB



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1001: Cement Concrete Structures

1001.2(h)2 Metal Bridge Deck Forms

Last Revised: 10/5/2021

Steel Products Procurement Act applies.

ASTM A924/A924M and ASTM A653/A653M. [Standard Drawing BC-732M \(Publication 219M\)](#)

Product	Name	Grade	Ref. No.
NMBS1 15	New Millennium Building Systems, 4900 Hungerford Rd., Memphis, TN 38118 https://www.newmill.com/ (Formerly Consolidated Systems, Inc. - CONS2 15)		
	Metal Bridge Deck Form	Structural Steel (SS) 33	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 37	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 40	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	1989-125
	Metal Bridge Deck Form	Structural Steel (SS) 80	1989-125
SIPDE 15	SIP Inc. of Delaware, 2204 Chestnut Street, P.O. Box 4347, Gadsden, AL 35904 http://wmsi.com/subsidiaries/sip/		
	Metal Bridge Deck Form	Structural Steel (SS) 33	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 37	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 40	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	2012-152Q
	Metal Bridge Deck Form	Structural Steel (SS) 80	2012-152Q
TTB-1 15	TrueTech Bridge, LLC, 223 S West Street, Suite 925, Raleigh, NC 27603 https://truetechbridge.com/		
Facility	ITEN Industries 4602 Benefit Avenue Ashtabula, OH 44004		
	Alternate Transparent Stay-in-Place Form	ClearCast Form System	2020-088Q
	<i>This is an approved alternate to metal bridge deck forms as outlined on the Approved Bridge and Structure Products website, including the PennDOT approved drawing #2020-088 dated 9/29/2021. Approved Bridge and Structure Products</i>		



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1001: Cement Concrete Structures

1001.2(h)2 Metal Bridge Deck Forms

Last Revised: 10/5/2021

Steel Products Procurement Act applies.

ASTM A924/A924M and ASTM A653/A653M. [Standard Drawing BC-732M \(Publication 219M\)](#)

Product	Name	Grade	Ref. No.
UNSDK 15	United Steel Deck, 14 Harmish Road, South Plainfield, NJ 07080 http://www.unitedsteel.com/		
	Metal Bridge Deck Form	Structural Steel (SS) 40	1985-024
	Metal Bridge Deck Form	Structural Steel (SS) 50, Class 1	1995-076

1001.3(c) Weep Holes

Last Revised: 3/23/2022

Publication 219M - Bridge Construction (BC) Standards: BC-751M Bridge Drainage & BC-799 Mechanically Stabilized Earth Retaining Walls

Product	Name	Ref. No.
JETFS 15	JET Filter System LLC, 502 NE 15th Street, P.O. Box 31, Casey, IL 62420 https://jetfiltersystem.com/	
Plant	Molding Systems Corporation (MSI) 126 North West Street Olney, IL 62450	
	Maintainable Weep Hole Drains	3" diameter JET Filter Stainless Steel (JF3SS) 2021-112Q
	<i>Conditionally approved to manufacturer's product specifications. JET Filter JF3SS Product Specifications & Drawings</i>	
	Maintainable Weep Hole Drains	4" diameter JET Filter Stainless Steel (JF4SS) 2021-112Q
	<i>Conditionally approved to manufacturer's product specifications. JET Filter JF4SS Product Specifications & Drawings</i>	
	Maintainable Weep Hole Drains	6" diameter JET Filter Stainless Steel (JF6SS) 2021-112Q
	<i>Conditionally approved to manufacturer's product specifications. JET Filter JF6SS Product Specifications & Drawings</i>	



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1002: Reinforcement Bars

1002.2(c) Mechanical Splice System

Last Revised: 12/6/2022

NOTE: Assemble mechanical splices per manufacturer's recommended procedure.

Assemble three splices for each size reinforcing bar plus an unassembled set of each size used. Submit to the LTS for testing to verify the procedure.

Product	Name	Bar Sizes	Ref. No.
BARSP 15 Barsplice Products, Inc., 4900 Webster Street, Dayton, OH 45430 http://www.barsplice.com/			
Mechanical Splice System	BPI Barsplicer System	# 4, 5, 6, 7, 8, 9, 10, 11	2000-204Q
Mechanical Splice System	BPI-Grip "BarGrip" System	4 - 18	1996-198
Mechanical Splice System	Taper Threaded Grip-Twist	# 4, 5, 6, 7, 8, 9, 10, 11, 14, 18	2006-042Q
Mechanical Splice System	ZAP Screwlok Type 2 Series	# 4, 5, 6, 7, 8, 9, 10, 11	1996-255
<i>UES Evaluation Report: BarGrip, Taper Threaded Grip-Twist, ZAP Screwlok Type 2 IAPMO-UES Evaluation Report Number: 796</i>			
Mechanical Splice System	ZAP Screwlok Type 2 Series	# 18	2014-269Q
Mechanical Splice System	ZAP Screwlok Type 2 Series	# 14	2016-116Q
DAYT0 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/			
Mechanical Splice System	D250L Bar Lock L-Series Coupler	#3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 18	1992-351
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			
Mechanical Splice System	DB/DI Splice Connector (D101A, D101)	4 - 18	1989-288
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			
Mechanical Splice System	US/MC-SAE Rebar Splice (D110, D111, D112)	4 - 18	1994-219



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1002: Reinforcement Bars

1002.2(c) Mechanical Splice System

Last Revised: 12/6/2022

NOTE: Assemble mechanical splices per manufacturer's recommended procedure.

Assemble three splices for each size reinforcing bar plus an unassembled set of each size used. Submit to the LTS for testing to verify the procedure.

Product	Name	Bar Sizes	Ref. No.
DAYT2 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342 http://www.daytonsuperior.com/		
	Bellingham, WA		
Mechanical Splice System	D250L Bar Lock L-Series Coupler	# 3, 4, 5, 6, 7, 8, 9, 10, 11, 14	1992-351
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			
Mechanical Splice System	DB/DI Splice Connector (D101A, D101)	4 - 18	1989-288
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			
Mechanical Splice System	US/MC-SAE Rebar Splice (D110, D111, D112)	4 - 18	1994-219
DAYT3 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342 http://www.daytonsuperior.com/		
	Tremont, PA 17981		
Mechanical Splice System	D250L Bar Lock L-Series Coupler	# 3, 4, 5, 6, 7, 8, 9, 10, 11, 14	1992-351
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			
Mechanical Splice System	DB/DI Splice Connector (D101A, D101)	4 - 18	1989-288
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			
Mechanical Splice System	US/MC-SAE Rebar Splice (D110, D111, D112)	4 - 18	1994-219
DAYT6 15 Plant	Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/		
	Allentown, PA		
Mechanical Splice System	D310 Taper-Lock Standard Coupler	# 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 18	2018-018Q
<i>UES Evaluation Report: Bar-Lock & DB/DI IAPMO-UES Evaluation Report Number: 319</i>			



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Section 1002: Reinforcement Bars

1002.2(c) Mechanical Splice System

Last Revised: 12/6/2022

NOTE: Assemble mechanical splices per manufacturer's recommended procedure.

Assemble three splices for each size reinforcing bar plus an unassembled set of each size used. Submit to the LTS for testing to verify the procedure.

Product	Name	Bar Sizes	Ref. No.
ERIC- 15	ERICO International Corporation, A Division of nVent, 34600 Solon Road, Solon, OH 44139 https://www.nvent.com/en-us/lenton		
Mechanical Splice System	nVent Lenton Form Saver (SA) Coupler	# 5	2013-078Q
	<i>Effective December 9th, 2022, nVent is approved to supply the Lenton Form Saver (SA) Coupler for #5 size rebar at a Level 2 Certification. During the Level 2 Certification, TR-447s submitted to PennDOT's testing laboratory with field samples must include a note in the comment section that the torque setting was verified or witnessed for each increment. The nVent brand inspection wrench should be used to verify the torque setting on # 5 field samples while being collected for testing at PennDOT's Testing Laboratory in Harrisburg, PA. The proper torque setting is provided in Table 1 of the following Instruction Sheet - nVent LENTON Form Saver Assemblies - Required Torque Setting</i>		
Mechanical Splice System	nVent Lenton Form Saver (SA) Coupler	# 4, 6, 7, 8, 9, 10, 11	2013-078Q
	<i>IAPMO-UES Evaluation Report: nVent Lenton IAPMO-UES Evaluation Report Number: 0129</i>		
Mechanical Splice System	nVent Lenton Standard (A2) Coupler	# 4, 5, 6, 7, 8, 9, 10, 11, 14, 18	1996-118
	<i>IAPMO-UES Evaluation Report: nVent Lenton IAPMO-UES Evaluation Report Number: 0129</i>		
MDSP2 15	Meadow Burke Products, 6467 S. Falkenburg Road, Riverview, FL 33578 http://meadowburke.com/		
Mechanical Splice System	Standard-Lok Coupler Mech. Splice System	4 - 18	2006-009Q
	<i>RC-53 Smooth and RC-54 Smooth Flanged Per letter dated September 19, 2014: Meadow Burke has elected to suspend shipments to PennDOT temporarily.</i>		
SSNA- 15	Splice Sleeve North America, 38777 West Six Mile Rd, Suite 205, Livonia, MI 48152 http://www.splicesleeve.com/		
Plant	Easton, PA		
Mechanical Splice System	NMB Splice Sleeve with SS Mortar (Grout)	5 - 18	1995-102

1002.2(c) Epoxy Coaters of Mechanical Splice Couplers

Last Revised: 7/5/2016

Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).



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Section 1002: Reinforcement Bars

1002.2(c) Epoxy Coaters of Mechanical Splice Couplers

Last Revised: 7/5/2016

Epoxy coaters may only use approved epoxy powders and patching materials from manufacturers listed in Section 709.1(c). Properly equipped epoxy coaters listed in Section 709.1(c) may also coat mechanical splice couplers and systems in section 1002.2(c).

Product	Name	Ref. No.
MCOAT 15 MC Coating, Inc., 925 N. Main St., Miamisburg, OH 45342 https://www.mccoatinginc.com/ <i>Formerly Miamisburg Coating</i>		
Approved Epoxy Coater of Mechanical Splice Couplers		2013-242Q
SIMCT 15 Simcote, Inc., Ohio Division, 250 North Greenwood, Marion, OH 43302 http://simcote.com/		
Approved Epoxy Coater of Mechanical Splice Couplers		1985-022
UCOAT 15 Universal Coatings, 8511 Tower Drive, Twinsburg, OH 44087 http://universal-coatings.net/		
Approved Epoxy Coater of Mechanical Splice Couplers <i>Electrostatic and Fluid Dip</i>		2014-240Q

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 11/22/2021

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
AZTEC 15 Aztec Concrete Accessories, Inc., 14760 Santa Ana Ave., Fontana, CA 92337			
Rebar Support Bolster	Aztec E Z Lok Slab Bolster	2"and 2-1/2", Molded Plastic	1997-063
Rebar Support Chair	Aztec E Z Chair	2", 2-1/2", 3", 4" and 5" Molded Plastic	1997-064



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Section 1002: Reinforcement Bars

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 11/22/2021

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
BIPCO 15 Bip Company, LLC, 901 Ne Gilsan Street, Portland, OR 97232 http://bipclipcompany.com/			
Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#4 and #5 Rebar with 2" Cover	2013-007QA
Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#6 Rebar with 2.5" Cover	2013-007QA
Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#4 and #5 Rebar with 1.5", 2.5" and 3" Cover	2013-160Q
Rebar Support Chair	BIP Chair (Black Resin) with Sandplate Base	#6 Rebar with 1.5", 3" and 4" Cover	2013-160Q
DAYT0 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/			
Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters	Epoxy Coated	1985-013
Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters, including SBU	Galvanized	1987-374B
Rebar Support Chair	Galvanized HCM with Plastic Tips		1987-374A



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Section 1002: Reinforcement Bars

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 11/22/2021

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
GENTC 15 General Technologies, Inc., 13022 Trinity Drive, P.O. Box 1503, Stafford, TX 77477 http://www.gti-usa.net/			
Rebar Support Bolster	GTI Composite Slab and Beam Bolster - Black, Series 209	1", 2", 3", 4"	2009-039QB
Rebar Support Bolster	GTI Composite Slab and Beam Bolster - Grey, Series 215	1", 2", 3", 4"	2009-039QB
Rebar Support Bolster	GTI Composite Slab Bolster Upper, Series 260		2009-140
<i>Top layer double mat support.</i>			
Rebar Support Chair	GTI Composite Bar Chair, Series 210	1", 2", 3", 4", 5", 6"	2009-039QE
Rebar Support Chair	GTI Composite High Chair, Series 208	7", 8", 9", 10"	2009-039QD
Rebar Support Chair	GTI Composite PC Chair, Series 216	1", 2", 3", 4", 5", 6", 7"	2009-039QF
Rebar Support Chair	GTI Extended High Chair, Series 211	11", 12", 13", 14", 15", 16", 17"	2009-039QC
HHHUL 15 H & H Hulls, Inc., 35 Industrial Tract, Hudson, NY 12534			
Rebar Support Chair	Q3 Void Chair	1"	2003-186Q
<i>For use in box beam tops only.</i>			



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Section 1002: Reinforcement Bars

1002.3(d)2 Reinforcement Bar Support Systems

Last Revised: 11/22/2021

CRSI, Concrete Reinforcing Steel Institute, Manual of Standard Practice, Chapter 3 - Bar Supports

BC - Individual Bar Chair; BB - Beam Bolster; BBU - Beam Bolster Upper; CHC - Continuous High Chair; CHCU - Continuous High Chair Upper; HC - Individual High Chair; HCM - High Chairs for Metal Decking; JC - Joist Chair; SB - Slab Bolster; SBU - Slab Bolster Upper

Product	Name	Size	Ref. No.
MDSP1 15 Plant	Meadow Burke Products, 6467 S. Falkenburg Road, Riverview, FL 33578 http://meadowburke.com/ Humboldt Industrial Park 565 Oak Ridge Road Hazle Township, PA 18202		
Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters	Epoxy Coated	2000-056Q
Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters, including BB	Galvanized	2000-058Q
<i>Galvanized (BB) Beam Bolster originally approved per 1992-355.</i>			
OCM-1 15 Facility	OCM Manufacturing LLC, 1120 E Peterson Road, Grayslake, IL 60030 http://www.ocm-inc.com/ 250 Hansen Access Road King of Prussia, PA 19406 <i>Formerly Vimco, Inc. (VIMC- 15)</i>		
Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters; including BB, BBU, CHC, CHCU, HC, SB, SBU	Epoxy Coated	2008-135Q
Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters	Galvanized	1984-006
Metal Reinforcing Bar Supports	Stainless Steel Chairs, Bolsters with Plastic Tips	Stainless	1984-006
VIMC- 15	Vimco, Inc., 300 Hansen Access Road, King of Prussia, PA 19406 http://vimcoinc.com/ <i>Company name change to OCM Manufacturing LLC (OCM-1 15)</i>		
Metal Reinforcing Bar Supports	Epoxy Coated Chairs, Bolsters; including BB, BBU, CHC, CHCU, HC, SB, SBU	Epoxy Coated	2008-135Q
Metal Reinforcing Bar Supports	Galvanized Chairs, Bolsters	Galvanized	1984-006
Metal Reinforcing Bar Supports	Stainless Steel Chairs, Bolsters with Plastic Tips	Stainless	1984-006



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1005: Piles

1005.2(a) Cast-In-Place Concrete Piles with Steel Shells

Manufacturers of cast-in-place piles (steel shells) must conform to Department Specifications, Publication 408, Section 1005.2(b).

1005.2(b) Steel H-Piles

Last Revised: 3/8/2024

The Companies listed in this Section are the owners of the designs/patterns only.

Per Section 1105.02(a) Structural Steel: For producers of fabricated structural steel, PennDOT accepts material supplied from any steel mill as long as the material complies with the requirements of Publication 408, Section 106, "Control of Material".

Product	Name	Ref. No.
ASSPF 15 Associated Pile & Fitting, Skyline Steel LLC, 300 Technology Center Way, Suite 450, Rock Hill, SC 29730 https://www.nucorskyline.com/ Plant 45 Samworth Road Clifton, NJ 07012		
Steel H-Pile Tip <i>Skyline Steel LLC is a subsidiary of Nucor Corporation.</i>	Hard Bite H-Pile Tip HP-77600-B	1994-286
Steel H-Pile Tip <i>Skyline Steel LLC is a subsidiary of Nucor Corporation.</i>	Hard Bite H-Pile Tip HP-77750-B	1994-286
Steel H-Pile Tip <i>Skyline Steel LLC is a subsidiary of Nucor Corporation.</i>	PAR-T Series H-Pile Points (PAR10T, PAR12T, PAR14T)	1994-042
CONSC 15 Construction Supply Company, P. O. Box 1682, Tualatin, OR 97062		
Steel H-Pile Tip	HT 3300 Series H-Pile Points [HT 3310 (10"), HT 3312 (12"), HT 3314 (14")]	2004-053Q
VERST 15 Versa-Steel, Inc., 1618 NE 1st Avenue, Portland, OR 97232-1136 https://www.piletips.com/		
Steel H-Pile Tip	VS300N Series H-Pile Points (VS310N, VS312N, VS314-117N)	2002-063Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1012: Pedestrian Railing

1012.2 Aluminum Pedestrian Railing

Last Revised: 4/25/2023

Product	Name	Ref. No.
APEX- 15 Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Aluminum Pedestrian Railing Fabricator		2014-195QB
AUCEL 15 Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Aluminum Pedestrian Railing Fabricator		1991-009B
FOST0 15 L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Aluminum Pedestrian Railing Fabricator		-----
FOST2 15 L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Aluminum Pedestrian Railing Fabricator		-----
FUTFAB15 Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Aluminum Pedestrian Railing Fabricator		2017-046Q
HALL1 15 Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Pedestrian Railing Fabricator		2002-178Q
HALL2 15 Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Pedestrian Railing Fabricator	Assembly Only	2002-178Q
HALL3 15 Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ Aluminum Pedestrian Railing Fabricator		2017-029Q
PELET 15 Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Aluminum Pedestrian Railing Fabricator		2011-101QA
PENNF 15 PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Pedestrian Railing Fabricator		2015-154QA



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Section 1012: Pedestrian Railing

1012.2 Aluminum Pedestrian Railing

Last Revised: 4/25/2023

Product	Name	Ref. No.
PMWI1 15 Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ Aluminum Pedestrian Railing Fabricator		2020-259Q
SAFAB 15 SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 http://safabrication.com/ Aluminum Pedestrian Railing Fabricator		2022-148Q



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Section 1013: Aluminum Bridge Railing

1013.2 Aluminum Bridge Railing

Last Revised: 4/25/2023

Product	Name	Ref. No.
ALUMS 15	Aluminum Shapes, Inc., 9000 River Rd., Delair, NJ 46218 http://www.shapesllc.com/ Aluminum Bridge Railing Fabricator	----
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Aluminum Bridge Railing Fabricator	2014-195QB
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Aluminum Bridge Railing Fabricator	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Aluminum Bridge Railing Fabricator	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Aluminum Bridge Railing Fabricator	2017-096Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Aluminum Bridge Railing Fabricator	2002-178Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ Aluminum Bridge Railing Fabricator	2017-029Q
MAGND 15	Magnode Products, Inc., 400 East State St., Trenton, OH 45067 http://magnode.com/ Aluminum Bridge Railing Fabricator	----
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Aluminum Bridge Railing Fabricator	2011-101QB
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Bridge Railing Fabricator	2015-154QB



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Section 1013: Aluminum Bridge Railing

1013.2 Aluminum Bridge Railing

Last Revised: 4/25/2023

Product	Name	Ref. No.
PMWI1 15 Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ Aluminum Bridge Railing Fabricator		2020-259Q
RELCC 15 Reliable Casting Corporation, 3530 Spring Grove Avenue, Cincinnati, OH 45223 http://reliablecastings.com/ Aluminum Bridge Railing Fabricator		----
RP-MA 15 RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Aluminum Bridge Railing Fabricator		2004-096Q
SAFAB 15 SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 http://safabrication.com/ Aluminum Bridge Railing Fabricator		2022-148Q



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Section 1014: Steel Bridge Railing

1014.2 Steel Bridge Railing

Last Revised: 4/25/2023

Steel Products Procurement Act applies.

Product	Name	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Steel Bridge Railing Fabricator	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ Steel Bridge Railing Fabricator	2015-023Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Steel Bridge Railing Fabricator	2014-195QC
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Steel Bridge Railing Fabricator	2011-160Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ Steel Bridge Railing Fabricator	2013-102Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> Steel Bridge Railing Fabricator	2010-249Q
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Steel Bridge Railing Fabricator	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Steel Bridge Railing Fabricator	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/ Steel Bridge Railing Fabricator	2017-097Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Steel Bridge Railing Fabricator	2002-178Q



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Section 1014: Steel Bridge Railing

1014.2 Steel Bridge Railing

Last Revised: 4/25/2023

Steel Products Procurement Act applies.

Product	Name	Ref. No.
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ Steel Bridge Railing Fabricator	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> Steel Bridge Railing Fabricator	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Steel Bridge Railing Fabricator	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Steel Bridge Railing Fabricator	2010-015Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 http://www.pennfab.com/ <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Steel Bridge Railing Fabricator	2015-154QC
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ Steel Bridge Railing Fabricator	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ Steel Bridge Railing Fabricator	2016-204
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Steel Bridge Railing Fabricator	2016-281
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Steel Bridge Railing Fabricator	2004-016Q



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Section 1014: Steel Bridge Railing

1014.2 Steel Bridge Railing

Last Revised: 4/25/2023

Steel Products Procurement Act applies.

Product	Name	Ref. No.
SAFAB 15 SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 http://safabrication.com/ Steel Bridge Railing Fabricator		2022-148Q
SSW-1 15 Shawnee Steel & Welding, 6124 Merriam Drive, Merriam, KS 66203 https://shawnee-steel.com/ Steel Bridge Railing Fabricator		2017-187Q
STRUS 15 Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Steel Bridge Railing Fabricator		2015-142QA



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Section 1015: Protective Barrier

1015.2 Aluminum Protective Barrier

Last Revised: 4/25/2023

Product	Name	Ref. No.
APEX- 15 Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 Aluminum Protective Barrier Fabricator	http://www.apexfab.com/	2014-195QD
AUCEL 15 Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 Aluminum Protective Barrier Fabricator	http://aucielloironworks.com/	1996-055
FOST0 15 L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 Aluminum Protective Barrier Fabricator	http://www.lbfoster.com/	-----
FOST2 15 L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 Aluminum Protective Barrier Fabricator	http://www.lbfoster.com/	-----
HALL1 15 Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 Aluminum Protective Barrier Fabricator	http://hallindustries.com/	2011-267Q
HALL3 15 Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 Aluminum Protective Barrier Fabricator	http://hallindustries.com/	2017-029Q
PENNF 15 PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Protective Barrier Fabricator	http://www.pennfab.com/	2015-154QD
SAFAB 15 SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 Aluminum Protective Barrier Fabricator	http://safabrication.com/	2022-148Q
WATSB 15 Watson Bowman Acme, a Sika Company, 95 Pineview Drive, Amherst, NY 14228 Aluminum Protective Barrier Fabricator	https://www.watsonbowmanacme.com/	2006-073Q



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Section 1016: Protective Fence

1016.2(a)3 Protective Fence (Steel) Posts, Rails and Fittings (BC-701M)

Last Revised: 5/17/2017

Product	Name	Ref. No.
RG-ST 15 R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/ Protective Fence Fabricator		2010-017Q
SHAFC 15 Sharon Fence Company, 1 Miller Court, Sharon, PA 16146 http://www.sharonfence.com/ Protective Fence Fabricator		2011-044Q
SPSKY 15 Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/ Facility 5975 South Highway 76 Russell Springs, KY 42642 Protective Fence Fabricator		2016-212Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(a) Boiled Linseed Oil (AASHTO M233)

Last Revised: 11/3/2022

For contracts let on or before May 31, 2022 (prior to Pub 408/2020 Change No. 4), see Section 503.2 for approved boiled linseed oil products.

Product	Name	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/ Boiled Linseed Oil (AASHTO M233)	Anti-Spall 55	2004-149Q
CRAF6 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 https://crafcO.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Supplier code formerly RTPTC 15</i> Boiled Linseed Oil (AASHTO M233)	Anti-Spall 50/50	2017-131Q
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/ Boiled Linseed Oil (AASHTO M233)	Anti-Spall J-33	1990-147
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Boiled Linseed Oil (AASHTO M233)	Euco Linseed Oil Treatment	-----
MEDW1 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/ Plant 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550 Boiled Linseed Oil (AASHTO M233)	Sealtight LIN-SEAL	1992-265
PRUET 15 Pruett-Schaffer Chemical Company, 3327 Stafford Street, Pittsburgh, PA 15204 http://www.pruett-schaffer.com/ Boiled Linseed Oil (AASHTO M233)	Anti-Spalling Compound	1997-080
RTPTC 15 CrafcO, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.rightpointe.com/ Plant 234 Harvestore Drive Dekalb, IL 60115 <i>Formerly RIGHT/POINTE, LLC</i> Boiled Linseed Oil (AASHTO M233)	Anti-Spall 50/50	2017-131Q
VEXCN 15 ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/ Plant 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i> Boiled Linseed Oil (AASHTO M233)	Certi-Vex Linseed Anti-Spall	2000-066Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(a) Boiled Linseed Oil (AASHTO M233)

Last Revised: 11/3/2022

For contracts let on or before May 31, 2022 (prior to Pub 408/2020 Change No. 4), see Section 503.2 for approved boiled linseed oil products.

Product	Name	Ref. No.
WKTEK 15 Wicktek, Inc., 103 General Braddock Drive, Braddock, PA 15104 http://wicktek.com/		
Boiled Linseed Oil (AASHTO M233)	Densicrete	1995-049

1019.2(b) Epoxy Resins (For Abutments, Pier Caps and Endwalls)

Last Revised: 10/5/2023

Product	Name	Ref. No.
KLAAS 15 Klaas Coatings (North America) LLC, PO Box 25122, Dallas, TX 75225-1122 http://www.klaascoatings-northamerica.com/ Facility Trinkote Industrial Finishes, Inc. 800 Hughie Long Road Cresson, TX 76035		
Silicone Resin Emulsion Paint <i>Si-Prime is a required primer when Si-Rex03 is used on regular strength concrete. For high compressive strength/low porosity concrete, see Si-Prime Product Data Sheet</i>	Si-Rex03 CTB	2022-076Q
Silicone Resin Emulsion Paint <i>Si-Prime is a required primer when Si-Rex03 is used on regular strength concrete. For high compressive strength/low porosity concrete, see Si-Prime Product Data Sheet</i>	Si-Rex03 MTB, Si-Rex03 LTB, and Si-Prime	2020-165Q

UNICO 15 United Coatings, GAF, 2810 S. 18th Place, Phoenix, AZ 85034 <https://www.gaf.com/en-us/products/united-coatings-canyontone-stain>

Epoxy Resin (For Abutments, Pier Caps and Endwalls) <i>Approved as an aesthetic coating, not a protective coating. Conditionally approved as an alternate per manufacturer's specifications and usage guidelines.</i>	CanyonTone Stain	2011-156
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1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces)

Last Revised: 4/8/2024

AASHTO T259 and T260, FHWA RD 78-35, Section 4.B.7.7 (Acceptance Criteria for Chloride Levels)

The use of some penetrating sealers may affect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or pedestrian traffic.

Product	Name	Ref. No.
ADVCT 15 Advanced Chemical Technologies, Inc., 9608 N Robinson Avenue, Oklahoma City, OK 73114 http://www.advchemtech.com/		
Penetrating Sealer, Organo-Silicon Compounds in Solvents	SIL-ACT ATS-100LV	2012-114Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces)

Last Revised: 4/8/2024

AASHTO T259 and T260, FHWA RD 78-35, Section 4.B.7.7 (Acceptance Criteria for Chloride Levels)

The use of some penetrating sealers may affect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or pedestrian traffic.

Product	Name	Ref. No.
AQURN 15 Aquron Corporation, P.O. Box 758, Rockwall, TX 75087 http://www.aquron.com/ Penetrating Sealer, Silicates in Water	Aquron CPT-2000	2000-298Q
CONSE 15 ConSeal, Concrete Sealants, Inc., 9325 State Route 201, Tipp City, OH 45371 http://www.conseal.com/ Penetrating Sealer, Silicates in Water	ConBlock SH	2012-129Q
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Penetrating Sealer, Silicates in Water	Barcade WB 244	1999-185Q
EVONK 15 Evonik Corporation, 299 Jefferson Road, Parsippany, NJ 07054 http://corporate.evonik.com/en/Pages/default.aspx Plant 4201 Degussa Road Theodore, AL 36590 Penetrating Sealer, Organo-Silicon Compounds in Solvents	Protectosil BHN	2014-005Q
MBS-4 15 Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us Plant 6450 Bristol Pike Levittown, PA 19057 <i>Formerly Master Builders Solutions</i> Penetrating Sealer, Organo-Silicon Compounds in Water	Sikagard-400 Enviroseal (Formerly MasterProtect H 400)	1987-129Q
MBS10 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us/ Plant 23930 Concord Avenue Mattawan, MI 49071 <i>Formerly Master Builders Solutions US LLC</i> Penetrating Sealer, Organo-Silicon Compounds in Solvents	Sikagard-H 1000 (formerly MasterProtect H 1000)	2011-227Q
PROS1 15 Prosoco, Inc., 3741 Greenway Circle, Lawrence, KS 66046 http://www.prosoco.com/ Penetrating Sealer, Silicates in Water	Consolideck Saltguard WB	1999-140Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces)

Last Revised: 4/8/2024

AASHTO T259 and T260, FHWA RD 78-35, Section 4.B.7.7 (Acceptance Criteria for Chloride Levels)

The use of some penetrating sealers may affect the frictional properties of concrete surfaces. Consult the manufacturer before using sealer on surfaces subject to vehicular or pedestrian traffic.

	Product	Name	Ref. No.
SURT1 15	Surtreat Solutions, Inc., 437 Grant Street, Frick Building Suite 1210, Pittsburgh, PA 15219 https://surtreat.com/		
Plant	Surtreat Holding Plant 1 Pittsburgh, PA		
	Penetrating Sealer, Silicates in Water	Surtreat Repel 10	2021-170Q
VEXCN 15	ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/		
Plant	7240 State Road Philadelphia, PA 19135		
	Formerly Vexcon Chemicals, Inc.		
	Penetrating Sealer, Organo-Silicon Compounds in Solvents	Vexcon Certi-Penseal 244 100%	2012-202Q
	Penetrating Sealer, Organo-Silicon Compounds in Solvents	Vexcon Powerseal 40	2010-146QB
WKTEK 15	Wicktek, Inc., 103 General Braddock Drive, Braddock, PA 15104 http://wicktek.com/		
	Penetrating Sealer, Silicates in Water	DensiCrete	1995-049
XYPEX 15	Xypex Chemical Corporation, 13731 Mayfield Place, Richmond, British Columbia, Canada V6V 2G9 http://www.xypex.com/		
	Penetrating Sealer, Silicates in Water	Xypex Concentrate (C500)	2002-019Q
	<i>Alternate (solid concentrate mixed on job, not liquid form)</i>		

1019.2(d) Penetrating Sealers (For Bridge Superstructure)

Last Revised: 4/8/2024

NCHRP 244 Test as described in Publication 408.

	Product	Name	Ref. No.
EUCLD 15	Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
	Penetrating Sealer (For Bridge Superstructure), Water-based Siloxane/Silane	Barcade WB 244	1999-185Q



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Section 1019: Protective Coatings for Reinforced Concrete Surfaces

1019.2(d) Penetrating Sealers (For Bridge Superstructure)

Last Revised: 4/8/2024

NCHRP 244 Test as described in Publication 408.

	Product	Name	Ref. No.
MBS-4 15 Plant	Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 6450 Bristol Pike Levittown, PA 19057 Formerly Master Builders Solutions	https://mbcc.sika.com/en-us	
	Penetrating Sealer (For Bridge Superstructure), Organo-Silicon in Water	Sikagard-400 Enviroseal (Formerly MasterProtect H 400)	1987-129Q
MBS10 15 Plant	Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 23930 Concord Avenue Mattawan, MI 49071 Formerly Master Builders Solutions US LLC	https://mbcc.sika.com/en-us/	
	Penetrating Sealer (For Bridge Superstructure), Organo-Silicon Compounds in Solvents	Sikagard-H 1000 (formerly MasterProtect H 1000)	2011-227Q



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Section 1020: Tooth Expansion Dam with Drain Trough

1020.2 Tooth Expansion Dam Fabricators

Last Revised: 11/26/2019

Product	Name	Ref. No.
ACKBAY15 Tooth Expansion Dam Fabricator	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/	2018-282Q
BROWD15 Tooth Expansion Dam Fabricator	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/	2010-080Q
FOST215 Tooth Expansion Dam Fabricator	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/	-----
KARDW15 Tooth Expansion Dam Fabricator	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865	2007-001Q
MCS-115 Tooth Expansion Dam Fabricator	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ Facility 271 Industrial Lane Alum Bank, PA 15221	2019-131Q
OHSTR15 Tooth Expansion Dam Fabricator	Ohio Structures, Inc., 4030 Boardman Canfield Road, Suite 200 D, Canfield, OH 44406 https://www.ohiostructures.com/ Plant 6120 Pricetown Road Berlin Center, OH 44401	2013-230Q
PELET15 Tooth Expansion Dam Fabricator	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/	2009-042Q
RP-MA15 Tooth Expansion Dam Fabricator	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/	-----
SAFGD15 Tooth Expansion Dam Fabricator	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ Plant 220 Lincoln Avenue Pittsburgh, PA 15209	-----



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Section 1020: Tooth Expansion Dam with Drain Trough

1020.2 Tooth Expansion Dam Fabricators

Last Revised: 11/26/2019

Product	Name	Ref. No.
WATSB 15 Watson Bowman Acme, a Sika Company, 95 Pineview Drive, Amherst, NY 14228 https://www.watsonbowmanacme.com/		
Tooth Expansion Dam Fabricator		-----

1020.2(h) Drain Trough Material for Tooth Expansion Dams

Last Revised: 10/8/2015

Product	Name	Ref. No.
BRPMF 15 BRP Manufacturing Company, 637 North Jackson St., P.O. Box 389, Lima, OH 45802-0389 http://www.brpmfg.com/		
Fabric Reinforced Rubberized Trough Material	Nitrile Draintrough Material	2006-227Q
FABRK 15 Fabreeka International, Inc., 1023 Turnpike Street, P. O. Box 210, Stroughton, MA 02072 http://www.fabreeka.com/		
Fabric Reinforced Rubberized Trough Material	Fabric-Elastomer Trough Material	1985-015
HBD-1 15 HBD/Thermoid, Inc., 240 Industrial Lane, P.O. Box 4310, Oneida, TN 37841 http://www.hbdthermoid.com/		
Fabric Reinforced Rubberized Trough Material	2 Ply PNT 45 Black Nitrile 3/64 - Draintrough	2010-134Q



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Section 1022: Steel Bridge Hand Railing

1022.2 Steel Bridge Hand Railing (BC-720M or Alternate BC-718M)

Last Revised: 4/25/2023

Product	Name	Reference Letter	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 Steel Bridge Hand Railing Fabricator	http://www.ackbay.com/	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 Steel Bridge Hand Railing Fabricator	http://www.advsteel.com/	2015-022Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 Steel Bridge Hand Railing Fabricator	http://www.apexfab.com/	2014-195QE
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 Steel Bridge Hand Railing Fabricator	http://aucielloironworks.com/	2011-158Q
	Steel Bridge Hand Railing Fabricator		2011-159Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 Steel Bridge Hand Railing Fabricator	http://www.dsbrown.com/	2006-196Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 Steel Bridge Hand Railing Fabricator	http://www.capitalsteel.org/	2011-193Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> Steel Bridge Hand Railing Fabricator		2010-250Q
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 Steel Bridge Hand Railing Fabricator	http://www.elderlee.com/	2009-021Q
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 Steel Bridge Hand Railing Fabricator	http://www.lbfoster.com/ 07/19/1996	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 Steel Bridge Hand Railing Fabricator	http://www.lbfoster.com/ 07/19/1996	-----



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Section 1022: Steel Bridge Hand Railing

1022.2 Steel Bridge Hand Railing (BC-720M or Alternate BC-718M)

Last Revised: 4/25/2023

Product	Name	Reference Letter	Ref. No.
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 Steel Bridge Hand Railing Fabricator	http://futurefabricating.com/	2017-100Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 Steel Bridge Hand Railing Fabricator	http://hallindustries.com/	2002-178Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 Steel Bridge Hand Railing Fabricator	http://hallindustries.com/	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 <i>Formerly Brownsville Marine Products</i> Steel Bridge Hand Railing Fabricator	https://www.hl-fabrication.com/	2018-220Q
MCS-1 15	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 Facility 271 Industrial Lane Alum Bank, PA 15221 Steel Bridge Hand Railing Fabricator Steel Bridge Hand Railing Fabricator	https://www.missioncriticalsolutions.com/	2019-131Q 2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Steel Bridge Hand Railing Fabricator	http://peletwelding.com/	2010-015Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Steel Bridge Hand Railing Fabricator	http://www.pennfab.com/	2015-154QE
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 Steel Bridge Hand Railing Fabricator	https://www.pmwi.net/	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 Steel Bridge Hand Railing Fabricator	http://precisioninc.net/	2016-204
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Steel Bridge Hand Railing Fabricator		2016-281



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Section 1022: Steel Bridge Hand Railing

1022.2 Steel Bridge Hand Railing (BC-720M or Alternate BC-718M)

Last Revised: 4/25/2023

Product	Name	Reference Letter	Ref. No.
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 Steel Bridge Hand Railing Fabricator	http://www.qualitybridgeandfab.com/	2012-248
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 Steel Bridge Hand Railing Fabricator	http://www.rpsmachinery.com/	2004-016Q
SAFAB 15	SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 Steel Bridge Hand Railing Fabricator	http://safabrication.com/	2022-148Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Steel Bridge Hand Railing Fabricator		2015-142QB
VAL-2 15 Facility	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154 1545 Pidco Drive Plymouth, IN 46563 Steel Bridge Hand Railing Fabricator	http://www.valmont.com/	2007-181Q



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Section 1023: Aluminum Bridge Hand Railing

1023.2 Aluminum Bridge Hand Railing (BC-720M)

Last Revised: 4/25/2023

Product	Name	Reference Letter	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 Aluminum Bridge Hand Railing Fabricator	http://www.ackbay.com/	2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 Aluminum Bridge Hand Railing Fabricator	http://www.apexfab.com/	2014-195QF
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 Aluminum Bridge Hand Railing Fabricator	http://aucielloironworks.com/	1991-009C
FOST0 15	L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 Aluminum Bridge Hand Railing Fabricator	http://www.lbfoster.com/ 07/19/1996	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 Aluminum Bridge Hand Railing Fabricator	http://www.lbfoster.com/ 07/19/1996	----
FUTFAB15	Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 Aluminum Bridge Hand Railing Fabricator	http://futurefabricating.com/	2017-101Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 Aluminum Bridge Hand Railing Fabricator	http://hallindustries.com/	2002-178Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 Aluminum Bridge Hand Railing Fabricator	http://hallindustries.com/	2017-029Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Aluminum Bridge Hand Railing Fabricator	http://peletwelding.com/	2011-101QC
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> Aluminum Bridge Hand Railing Fabricator	http://www.pennfab.com/	2015-154QF
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 Aluminum Bridge Hand Railing Fabricator	https://www.pmwi.net/	2020-259Q



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Section 1023: Aluminum Bridge Hand Railing

1023.2 Aluminum Bridge Hand Railing (BC-720M)

Last Revised: 4/25/2023

Product	Name	Reference Letter	Ref. No.
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740	http://www.rpsmachinery.com/	
	Aluminum Bridge Hand Railing Fabricator		2004-096Q
SAFAB 15	SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270	http://safabrication.com/	
	Aluminum Bridge Hand Railing Fabricator		2022-148Q
VAL-2 15 Facility	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154 1545 Pidco Drive Plymouth, IN 46563	http://www.valmont.com/	
	Aluminum Bridge Hand Railing Fabricator		2007-180Q



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Section 1026: Neoprene Strip Seal Dam

Strip Seal Expansion Joint Retainer Drawings: [Approved Bridge and Structure Products](#)

1026.2 Neoprene Strip Seal Dam (Strip Seal Retainers)

Last Revised: 7/17/2017

BC-767 Sheet 2 of 5

Product	Name	Retainer ID/Shop Drawi	Ref. No.
BROWD 15 D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/			
Neoprene Strip Seal Dam (Strip Seal Retainer)		SSPA02SC	-----
Neoprene Strip Seal Dam (Strip Seal Retainer)	1.5" depth per SOL 431-97-23	SSE2M	1996-196
Neoprene Strip Seal Dam (Strip Seal Retainer)	2" depth per SOL 431-97-23	SSA2	1996-195
WATRJ 15 R. J. Watson, Inc., 11035 Walden Avenue, Alden, NY 14007 http://www.rjwatson.com/			
Neoprene Strip Seal Dam (Strip Seal Retainer)		SV-400	1992-039
Neoprene Strip Seal Dam (Strip Seal Retainer)		PADOT 92-280-PEQ	1992-280
WATSB 15 Watson Bowman Acme, a Sika Company, 95 Pineview Drive, Amherst, NY 14228 https://www.watsonbowmanacme.com/			
Neoprene Strip Seal Dam (Strip Seal Retainer)		C-11382	-----
Neoprene Strip Seal Dam (Strip Seal Retainer)		C-12164	1992-027
Neoprene Strip Seal Dam (Strip Seal Retainer)		C-14398	1992-327

1026.2(a) Neoprene Strip Seal Dam (Fabricators)

Last Revised: 3/21/2023

These plants have been pre-approved to fabricate Neoprene Strip Seal Dam as defined by BC 767M

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15 Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/				
Neoprene Strip Seal Dam Fabricator		Baltimore	MD	2018-282Q
ADVSC 15 Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/				
Neoprene Strip Seal Dam Fabricator		Saxonburg	PA	2015-024Q



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Section 1026: Neoprene Strip Seal Dam

1026.2(a) Neoprene Strip Seal Dam (Fabricators)

Last Revised: 3/21/2023

These plants have been pre-approved to fabricate Neoprene Strip Seal Dam as defined by BC 767M

Product	Name	Plant City	Plant State	Ref. No.
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ Neoprene Strip Seal Dam Fabricator	North Baltimore	OH	2006-198Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Neoprene Strip Seal Dam Fabricator	Bedford	PA	----
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Neoprene Strip Seal Dam Fabricator	Elwood	PA	2012-175Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ Neoprene Strip Seal Dam Fabricator	Ellwood City	PA	2017-029Q
MAGE1 15	mageba USA LLC, 575 Lexington Ave, 4th Floor, New York 10022 http://www.magebausa.com/ Facility Pottstown, PA Neoprene Strip Seal Dam Fabricator	Pottstown	PA	2018-021Q
MCS-1 15	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ Facility 271 Industrial Lane Alum Bank, PA 15221 Neoprene Strip Seal Dam Fabricator	Alum Bank	PA	2019-131Q
NIABR 15	Niagara Bridge & Rail, 2212 Cory Drive, Sanborn, NY 14132 http://nbrfab.com/ Neoprene Strip Seal Dam Fabricator	Sanborn	NY	2018-048Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ Neoprene Strip Seal Dam Fabricator	Coatesville	PA	2017-315Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Neoprene Strip Seal Dam Fabricator	Jersey Shore	PA	----
SAFGD 15	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ Plant 220 Lincoln Avenue Pittsburgh, PA 15209 Neoprene Strip Seal Dam Fabricator	Millvale	PA	----
WATSB 15	Watson Bowman Acme, a Sika Company, 95 Pineview Drive, Amherst, NY 14228 https://www.watsonbowmanacme.com/ Neoprene Strip Seal Dam Fabricator	Amherst	NY	----



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Section 1031: Timber Structures

1031.2(a) Structural Timber

Last Revised: 5/13/2021

Product	Name	Ref. No.
ALAWP 15 Alamco Wood Products, Inc., 1410 West Ninth Street, Albert Lea, MN 56007 http://www.alamcowood.com/ Softwood (Glue Laminated)		2000-236Q
AMETS 15 American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/ Softwood (Non-Laminated) Timber Treater Facility		1995-268 -----
BELLP 15 Bell Lumber & Pole Company, P.O. Box 120786, New Brighton, MN 55112-0024 http://www.blpole.com/ Timber Treater Facility		1999-110Q
KOPRS 15 Koppers Industries, Inc., 50 Koppers Lane, Montgomery, PA 17752 http://www.koppers.com/locations/susquehanna-plant Timber Treater Facility		1999-194Q
NORSO 15 North-South Wood Preserving Company, 160 Preserver Road, North, SC 29112 Timber Treater Facility		2012-116Q
RIGID 15 Rigidply Rafters, Inc., 701 East Linden Street, Richland, PA 17087 http://www.rigidply.com/ Softwood (Glue Laminated) Softwood (Mechanically Laminated)		1999-176Q ----- 1999-176Q
STEJ2 15 Stella-Jones Corporation, R.R. 3, P. O. Box 275, Dubois, PA 15801 http://stella-jones.com/ <i>Formerly Burke-Parsons-Bowby Corp. (BURPB 15)</i> Timber Treater Facility		2002-079Q
WHEEL 15 Wheeler Lumber, LLC, 9531 W 78th Street, Suite 100, Eden Prairie, MN 55344 http://www.wheeler-con.com/treated-wood-products/ Facility Timber Fabrication and Treating Whitewood, SD 57793 Timber Treater Facility	Wood Preservation Treatment Using QNAP Copper Naphthenate	2020-101Q



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Section 1043: Shotcrete

1043.2(a) Shotcrete

Last Revised: 4/8/2024

Product	Name	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Shotcrete (Pre-Packaged)	Eucoshot	2007-079Q
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/ Shotcrete (Pre-Packaged)	SureShot	2010-065
QUIKR 15 The QUIKRETE Companies, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.quikrete.com/ Plant 519 Red Barn Lane Latrobe, PA 15650 Shotcrete (Pre-Packaged)	Commercial Grade QUIKRETE Shotcrete MS	2002-014Q
SIKA1 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 1682 Marion Williamsport Road E Marion, OH 43302 Shotcrete (Pre-Packaged)	Sikacem 103	2018-097Q
USCPR 15 US Concrete Products, 16 Greenmeadow Drive, Suite 111, Timonium, MD 21093 https://uscproducts.com/products/ Plant Baltimore, MD Shotcrete (Pre-Packaged) <i>Approved for general use only.</i> Shotcrete (Pre-Packaged)	Gunite 2020 Gunite 7001d (dry-mix)	2019-194Q 2010-296



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Section 1044: Aesthetic Coatings for Concrete Surfaces

1044.2(a) Aesthetic Coating System for Concrete

For product approval submittal requirements, see Section 1044.2(b) of Pub 408 Specifications, 2020 Change No. 2 or newer. [Publication 408](#)



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Section 1045: Protective Coatings for Concrete Surfaces

1045.2(a) Protective Coating System for Concrete

Last Revised: 9/27/2023

For product approval submittal requirements, see Section 1045.2(b) of Pub 408 Specifications, 2020 Change No. 2 or newer. [Publication 408](#)

Product	Name	NTPEP Test Number	Ref. No.
KLAAS 15 Facility	Klaas Coatings (North America) LLC, PO Box 25122, Dallas, TX 75225-1122 http://www.klaascoatings-northamerica.com/ Trinkote Industrial Finishes, Inc. 800 Hughie Long Road Cresson, TX 76035		
Silicone Resin Emulsion Paint	Si-Rex03 CTB	CCS-2015-02-001	2022-076Q
<i>Si-Prime is a required primer when Si-Rex03 is used on regular strength concrete. For high compressive strength/low porosity concrete, see Si-Prime Product Data Sheet</i>			
Silicone Resin Emulsion Paint	Si-Rex03 MTB/LTB, Si-Prime	CCS-2015-02-001	2020-165Q
<i>Si-Prime is a required primer when Si-Rex03 is used on regular strength concrete. For high compressive strength/low porosity concrete, see Si-Prime Product Data Sheet</i>			



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Section 1046: Epoxy Overlay

1046.2(a) Polymeric Resin Binder

Last Revised: 3/12/2024

For contracts let prior to April 10, 2020 (Pub 408, 2020 Initial Edition), see ECMS Provisional Specification: c10431 ITEM 9043-2101 (ITEM 9043-0101) Epoxy-based Surface Treatment for Bridge Decks. Products formerly listed in MISC Epoxy Based Surface Treatment for Bridge Decks.

Product	Name	Ref. No.
CARG1 15 Cargill, Inc., 15407 McGinty Road West, Wayzata, MN 55391 https://www.cargill.com/industrial/winter-road-maintenance/safelane-surface-overlay		
Epoxy Based Surface Treatment System for Bridge Decks <i>Cargill's limestone aggregate must be used and is classified as a Skid Resistance Level (SRL M). System can only be used on roads meeting the Average Daily Traffic (ADT) of 3,000 vehicles or less. Conditionally Approved as an alternate per manufacturer's specifications.</i>	Safelane Surface Overlay System <i>Cargill SafeLane Limestone Aggregate Requirements</i>	2007-034
CCMAT 15 Cornerstone Construction Material, LLC, PO Box 545, 150 SE Hamblen Road, Lee's Summit, MO 64063 http://ccmaterial.com Facility 101 East Walnut Street Archie, MO 64725		
Epoxy Resin Binder	CE330 Epoxy Binder	2014-086A
EBOND 15 E-Bond Epoxies, Inc, 501 N.E. 33rd Street, Ft. Lauderdale, FL 33334 http://ebondepoxies.com/		
Epoxy Resin Binder	E-Bond 526	2013-011
ECHEM 15 Meridian Adhesives Group, Infrastructure Division, 450 East Copans Road, Pompano Beach, FL 33064 http://www.e-chem.net Facility E-Chem 4102 El Rey Road SE Albuquerque, NM 87105		
Epoxy Resin Binder <i>Provisionally Approved: Under provisional approval, the Department will continue to monitor its use, application, and performance through 5/18/2025.</i>	EP50 Overlay	2022-242Q
Epoxy Resin Binder	EPX50-OVERLAY	2014-127MA
Epoxy Resin Binder	EPX50-OVERLAY FAST	2018-199
EUCL2 15 Euclid Chemical Company, 19218 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/ Plant 3835 State Route 72 Kirkland, IL 60146		
Epoxy Resin Binder	Flexolith UR	2013-005Q
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Epoxy Resin Binder	Flexolith	1994-231



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Section 1046: Epoxy Overlay

1046.2(a) Polymeric Resin Binder

Last Revised: 3/12/2024

For contracts let prior to April 10, 2020 (Pub 408, 2020 Initial Edition), see ECMS Provisional Specification: c10431 ITEM 9043-2101 (ITEM 9043-0101) Epoxy-based Surface Treatment for Bridge Decks. Products formerly listed in MISC Epoxy Based Surface Treatment for Bridge Decks.

Product	Name	Ref. No.
KWIK1 15 Kwik Bond Polymers, 923 Teal Drive, Benicia, CA 94510 http://www.kwikbondpolymers.com Epoxy Resin Binder	PPC-HFST	2013-197B
MAPEIB15 MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/ Plant Garland, TX Epoxy Resin Binder	Planiseal Traffic Coat	2017-276
P3INF 15 P3 Infrastructure, Inc., 671 McCauley Road, Stow, OH 44224 http://www.p3-i.com/ Epoxy Resin Binder	Impervious ME	2015-090M
POLYC 15 Olin Epoxy-POLY-CARB, 8440 Tower Dr., Twinsburg, OH 44087 http://www.poly-carb.com/ Plant 125 Industrial Park Rd. Roberta, GA 31078 <i>Formerly POLY-CARB, Inc.</i> Epoxy Resin Binder Epoxy Resin Binder	Flexogrid (Mark-163) Mark-154 PA	2000-168Q 2008-140Q
PSI-1 15 Poly-Tuff Systems International Corp., 8550 West Desert Inn Road, Suite #102-451, Las Vegas, NV 89117 https://www.polytuffus.com/ Epoxy Resin Binder	E-TUFF 7097	2022-047Q
SIKA1 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 1682 Marion Williamsport Road E Marion, OH 43302 Epoxy Resin Binder	Sikadur 22, Lo-Mod FS	2015-007MB
TRASA 15 Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/ Epoxy Based Surface Treatment System for Bridge Decks <i>Conditionally Approved as an alternate per manufacturer's specifications. T-48 Polysulfide Epoxy Overlay Technical Data Sheet</i>	T-48 Polysulfide Epoxy Overlay System	2006-046Q



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Section 1047: Polyester Polymer Concrete (PPC) Overlay

1047.2 Polyester Polymer Concrete (PPC) System

Last Revised: 3/12/2024

Design Manual, Part 4 (DM-4), Chapter 5.6.4 Concrete Deck Overlays & 5.6.4.5 Polyester Polymer Concrete Overlay [Concrete Deck Overlays - Usage Guidelines](#)

For projects let before October 2, 2020 (Pub 408/2020, Change No. 1), see Standard Special Provision a00091 Changes to Specifications: Section 1047

Product	Name	Ref. No.
KWIK1 15 Kwik Bond Polymers, 923 Teal Drive, Benicia, CA 94510 http://www.kwikbondpolymers.com		
PPC System	PPC 1121 EC	2015-900
<i>PPC 1121 EC is an approved system including Primer: KBP Pro-Primer; Aggregates: KBEC 39 (coarse) and KBEC 11 (fine)</i>		
Concrete Deck Overlays - Usage Guidelines		
SIKAAR15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 https://usa.sika.com/		
Facility Sika Advanced Resins Madison Heights, OH		
PPC System	SikaPronto-500 PPC	2022-099Q
<i>SikaPronto-500 PPC is a system including Primer: SikaPronto-19 4K (*Shelf Life is only 6 months); Aggregates: Sika Pronto-500 Stone Blend and Sika Pronto-500 Sand Blend</i>		



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Section 1051: Downspouting

1051.2 Downspouting

Last Revised: 7/9/2015

Product	Name	Ref. No.
BELCO 15 Belco Manufacturing, Inc., P.O. Box 210, Belton, TX 76513 http://www.belco-mfg.com/ Downspouting	Bridgeline Fiberglass Downspouting	2013-033Q
GRACO 15 Grace Composites, 351 Ruth Road, Lonoke, AR 72086 Downspouting	Fiberglass Downspouting	2005-117Q
HARVL 15 Georg Fischer Harvel LLC, 300 Kuebler Road, Forks Twp., Easton, PA 18040 http://www.harvel.com/ <i>Formerly Harvel Plastics Inc.</i> Downspouting	PVC Downspouting	2001-107Q
UNIFG 15 United Fiberglass of America, 2145 Airpark Drive, Springfield, OH 45502 http://www.unitedfiberglass.com/ Downspouting	Fiberglass Downspouting	2012-127Q



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Section 1060: Shop Painting Structural Steel

1060.2 Coating System for Structural Steel

Last Revised: 6/28/2018

NEPCOAT Approved and Maintained paint systems. ([NEPCOAT - Northeast Protective Coating Committee](#))

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

Product	Name	Primer Coat	VOC (g/L)	Intermediate Coat	VOC (g/L)	Finish Coat	VOC (g/L)	NEPCOA T Number	Ref. No.
CARBL 15 Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/									
Three Coat Paint System (using Inorganic, Zinc-Rich Primer)		Carbonzinc 11 HS	267	Carboguard 893	207	Carbothane 133 LV	255	SCC(12) -03	2014-208Q ABC
<i>Plants in Lake Charles, LA and Green Bay, WI</i>									



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Section 1070: Painting Existing Structural Steel

1070.2 Coating System for Existing Structural Steel

Last Revised: 8/16/2022

NEPCOAT Approved and Maintained paint systems. ([NEPCOAT - Northeast Protective Coating Committee](#))

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

Product	Name	Primer Coat	VOC (g/L)	Intermediate Coat	VOC (g/L)	Finish Coat	VOC (g/L)	NEPCOA T Number	Ref. No.
CARBL 15 Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/									
Three Coat Paint System (using Organic, Zinc-Rich Primer)		Carbonzinc 859	322	Carboguard 893	207	Carbothane 133 VOC	316	SSC(12)-04	2015-037Q ABC
<i>Plants in Lake Charles, LA, Green Bay, WI, and Dayton, NV</i>									
Three Coat Paint System (using Organic, Zinc-Rich Primer)		Carbonzinc 859	342	Carboguard 893	218	Carbothane 133 LV	254	SSC(19)-02	2021-024Q
<i>Plants in Lake Charles, LA [L], Green Bay, WI [B], and Dayton, NV [D]</i>									
SHER0 15 The Sherwin-Williams Company, Protective & Marine Coatings, 101 West Prospect Avenue, Cleveland, OH 44115 https://protective.sherwin-williams.com/									
Three Coat Paint System (using Organic, Zinc-Rich Primer)		Zinc Clad 4100	319	Macropoxy 646 FC	265	Hi-Solids Polyurethane 250	289	SSC(15)-07	2018-054Q
<i>Primer Plants: Andover, KS, Greensboro, NC - Stagecoach</i>									
<i>Intermediate Plants: Andover, KA, Victorville, CA, and Greensboro, NC - Howard</i>									
<i>Finish Plants: Andover, KS, Cincinnati, OH, and Richmond, KY</i>									
WASS1 15 Wasser Technologies Inc. (Wasser Coatings), 4118 B Place NW Suite B, Auburn, WA 98001 https://wassercoatings.com/									
Plant	Boisbriand, Quebec								
Three Coat Paint System (using Organic, Zinc-Rich Primer)		MC-Zinc 100	140 es	MC-Miomas tic 100	106 es	MC-Ferrox A 100	149 es	ssc(18)-08	2021-156Q
<i>Provisionally Approved. Under the provisional approval, the Department will monitor its use, application, and performance for a period of one year (8/16/2022 to 8/16/2023).</i>									
<i>NOTE: es - VOC value adjusted for exempt solvents.</i>									



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1071: Spot/Zone Maintenance Painting of Existing Structural Steel

1071.2 Field Maintenance Structural Paint Systems (Aluminum-Filled Mastic)

Last Revised: 8/6/2018

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

Product	Name	Primer Coat	Primer VOC	Intermediate	Intermediate	Finish Coat	Finish	Ref. No.
CARBL 15 Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/								
Three Coat Paint System (Aluminum-Filled Mastic)		Carbomasti c 15	242	Carbomasti c 15	242	Carbothane 134HS	336	----
Three Coat Paint System (Aluminum-Filled Mastic)		Carbomasti c 90	245	Carbomasti c 90	245	Carbothane 134HS	336	----
PPG-1 15 PPG - Protective & Marine Coatings, 11605 Vimy Ridge Road, Little Rock, AR 72219 http://www.ppgpmc.com/Home.aspx								
Three Coat Paint System (Aluminum-Filled Mastic)		Amerlock 400 AL	240	Amerlock 400 AL	240	Amercoat 450 HS	340	----

1071.2 Field Maintenance Structural Paint Systems (Non-Zinc Primer)

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.

1071.2 Field Maintenance Structural Paint Systems (Organic Zinc Primer)

Mixing portions of paint systems by hand without powered mechanical homogenization available to contractors is not recommended.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout

Last Revised: 4/8/2024

Product	Name	Ref. No.
5STAR 15 Five Star Products, Inc., 750 Commerce Drive, Fairfield, CT 06825 http://www.fivestarprouducts.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	5 Star Grout	1970-012
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	5 Star Instant Grout	1976-060
ADMXT 15 Admixtures, Inc., 200 Furnace Road, P. O. Box 225, Wernersville, PA 19565-0225		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	BC Grout	1976-053
CGM-N 15 CGM Inc., 1463 Ford Road, Bensalem, PA 19020 http://cgmbuildingproducts.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Pro-Grout 90	1987-083
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Conset Grout	1992-241
CONSM 15 Concrete Service Materials Company, Elm & Walnut St., P. O. Box 447, Conshohocken, PA 19428-0447 http://www.concreteservicematerials.com/		
Premixed, Nonshrink Grout (Metallic Grout Admixture)	CSMC Shrink Proof Grout	----
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Diamondcrete	1972-067
DAYT1 15 Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106 http://www.daytonsuperior.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	1107 Advantage Grout	2019-212Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Sure-Grip High Performance Grout	1982-094
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Sure-Grip Precision Grout (formerly Multi-Purpose Grout)	1986-040
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Suregrip Util.	1991-055



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout

Last Revised: 4/8/2024

Product	Name	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Euco Cable Grout PTX	2004-008Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Euco NS Grout	1976-019
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Hi-Flow Grout	2002-152Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	NC Grout	2000-281Q
GILLI 15 Gill Industries, Inc., 3462 Kershaw-Camden Highway, Lancaster, SC 29720 http://www.gill33.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Gill 33B&P	1972-050
HBFUL 15 H. B. Fuller Construction Products Inc., 1200 Willow Lake Boulevard, St. Paul, MN 55110-5101 https://prospec.com/rehabilitation/ Plant 59 Brunswick Avenue Edison, NJ 08817		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	ProSpec High Strength Precision Grout	1972-054
IPA-S 15 IPA Systems, Inc., 2745 North Amber St., Philadelphia, PA 19134 http://ipasystems.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Penn Grout	1975-079
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Premixed, Nonshrink Grout (Metallic, Non-Staining)	Sure Grout-Met	1981-052
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	Sure Grout	1976-048
KELKN 15 Kelken Construction Systems, 550 Hartle Street Suite C, Sayreville, NJ 08872 http://www.kelken.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Keligrout	1986-125
L&MCC 15 LATICRETE International, Inc., One LATICRETE Park North, Bethany, CT 06524-3423 https://laticrete.com/en/concrete-construction-chemicals		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	L&M Crystex	1976-032
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining) <i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>	L&M Duragrout	1990-175



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout

Last Revised: 4/8/2024

Product	Name	Ref. No.
MAPEIA15 MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/		
Plant Fredericksburg, VA		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Planigrout 712	2016-292Q
MBS-7 15 Sika Corporation, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us		
Plant Newark, CA		
<i>Formerly Master Builders Solutions</i>		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	MasterFlow 100	2007-097Q
<i>Product is no longer being manufactured by Sika. The remaining supplies of MasterFlow 100 can continue to be used.</i>		
MBS11 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us		
Plant 9658 State Route 43 Streetsboro, OH 44241		
<i>Formerly Master Builders Solutions US LLC</i>		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	SikaGrout-713 (previously MasterFlow 713)	1976-006Q
MEDW0 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	CG-86 Construction-Grade Grout	1993-292
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Sealtight 588	1984-165
<i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>		
MEDW1 15 W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
Plant 2100 Monroe Street P. O. Box 7550 York, PA 17404-0550		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	CG-86 Construction-Grade Grout	1993-292
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	CG-86 N.E. Construction-Grade Grout	2017-219Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Sealtight 588	1984-165
<i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>		
NATPC 15 National Permacrete Company, 590 North Valley Forge Rd., Devon, PA 19333		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Permagrout	1976-088
<i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>		



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(c) Nonshrink Grout

Last Revised: 4/8/2024

Product	Name	Ref. No.
QUIKR 15 Plant The QUIKRETE Companies, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.quikrete.com/ 519 Red Barn Lane Latrobe, PA 15650		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Commercial Grade QUIKRETE Non-Shrink General Purpose Grout (No. 1585-01)	2000-290Q
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Commercial Grade QUIKRETE Non-Shrink Precision Grout (No. 1585-00)	2000-289Q
<i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>		
SIKA0 15 Facility Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	SikagROUT 212	1983-219
SIKA1 15 Plant Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	SikagROUT 300 PT	2007-147Q
SILPRO15 SILPRO LLC, 2 New England Way, Ayer, MA 01432-1514 https://www.silpro.com/products/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	SilproGrout 424	2022-043Q
SPECH 15 SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108 https://specchem.com/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	SC Multipurpose Grout	2012-159Q
USSPEC15 US SPEC, Oldcastle APG, 112 South Santa Fe Drive, Denver, CO 80223 https://www.usspec.com/products/grouting-anchoring/		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	HE Grout	2021-155Q
VEXCN 15 Plant ChemMasters, Inc., 300 Edwards Street, Madison, OH 44057 https://www.chemmasters.net/ 7240 State Road Philadelphia, PA 19135 <i>Formerly Vexcon Chemicals, Inc.</i>		
Premixed, Nonshrink Grout (Non-Metallic, Non-Staining)	Certi-Grout 1000	2000-071Q
<i>One-day Compressive Strength is equal to or greater than 26 Mpa (3750 psi).</i>		



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(e) Modified Mortar for Beam Seat Leveling

Last Revised: 4/3/2015

Mortars listed in the Miscellaneous Section - MISC Polymer Modified and Special Cements, Mortars, and Concrete conforming to the Pub 408, Section 1080.2(e) specifications are also approved for PennDOT projects.

Product	Name	Ref. No.
SIKA0 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Facility 201 Polito Avenue Lyndhurst, NJ 07071		
Mortar for Beam Seat Leveling	Sikatop Plus 122	1979-036
Mortar for Beam Seat Leveling	Sikatop Plus 123	1982-007

1080.2(g) Nonshrink Epoxy Grout for Shear Keys in Adj. Prestressed Concrete Box Beam Bridges

Last Revised: 4/8/2024

Required minimum compressive strength per ASTM C579:

*4,000 pounds per square inch at 24 hours

*5,000 pounds per square inch at 28 days

Product	Name	Ref. No.
CHEMM 15 ChemMasters, Inc., 300 Edward Street, Madison, OH 44057 http://www.chemmasters.net/		
Nonshrink Epoxy Grout	Polytops GC Grout	2022-036Q
DAYT7 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/ Facility Pompano Beach, FL		
Nonshrink Epoxy Grout	Epoxy Grout J-55	2021-139Q
Nonshrink Epoxy Grout	Unitex Pro-Poxy 2000 Normal Set	2021-139Q
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
Nonshrink Epoxy Grout	K Pro HP Grout	2020-024Q
MBS12 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us Plant 7100 Wright Road Houston, TX 77041 <i>Formerly Master Builders Solutions US LLC</i>		
Nonshrink Epoxy Grout	SikaFlow-648 (Previously MasterFlow 648)	2021-064Q



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Section 1080: Prestressed Concrete Bridge Superstructure

1080.2(g) Nonshrink Epoxy Grout for Shear Keys in Adj. Prestressed Concrete Box Beam Bridges

Last Revised: 4/8/2024

Required minimum compressive strength per ASTM C579:

*4,000 pounds per square inch at 24 hours

*5,000 pounds per square inch at 28 days

Product	Name	Ref. No.
SPECH 15 SpecChem, LLC, 1619 Walnut Street, Kansas City, MO 64108 https://specchem.com/ Nonshrink Epoxy Grout	SpecPoxy Grout	2023-136Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1085: Precast Reinforced Concrete Box Culvert

1085.2 Precast Box Culverts

Last Revised: 3/11/2024

For Protective Coatings, see MISC Coal Tar Epoxy (RCC Pipe Coating)

Product	Name	Reference Letter	Ref. No.
ATLCP 15	Atlantic Concrete Products, Inc., 8900 Old Route 13, Tullytown, PA 19007-1375 Precast Box Culvert	http://www.atlanticconcrete.com/	2009-088Q
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i> Precast Box Culvert	http://www.braymanprecast.com/	2015-004QA
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 Precast Box Culvert Total Precast Bridge Structures	https://bryanmaterialsgroup.com/	2016-053Q 2017-069Q
CONTN 15	Continental Concrete Products, Inc., 1 South Grosstown Road, Pottstown, PA 19464 Precast Box Culvert	http://www.continentalconcrete.com/	2005-034Q
DUTCH 15	Dutchland, Inc., 160 Route 41, Gap, PA 17527-0549 Precast Box Culvert	http://www.dutchlandinc.com/	2003-185Q
HYDR4 15 Plant	Rinker Materials, A QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 1751 Monocacy Blvd. Frederick, MD 21701 Precast Box Culvert	http://www.rinkerpipe.com/	2001-171Q
LIND1 15 Plant	Lindsay Precast, 6845 Erie Avenue NW, P.O. Box 578, Canal Fulton, OH 44614 6845 Erie Avenue NW P.O. Box 578 Canal Fulton, OH 44614 Precast Box Culvert	http://www.lindsayprecast.com/	2016-081
MACIN 15	PennStress, Division of MacInnis Group, LLC, 8180 Woodbury Pike, Roaring Spring, PA 16673 Precast Box Culvert	http://www.pennstress.com/	2021-060Q
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 Precast Box Culvert	http://www.mackconcrete.com/	-
MACK1 15	Mack Industries of PA, Inc., P.O. Box 335, Valley City, OH 44280 Precast Box Culvert	http://www.mackconcrete.com/ 09/21/1990	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1085: Precast Reinforced Concrete Box Culvert

1085.2 Precast Box Culverts

Last Revised: 3/11/2024

For Protective Coatings, see MISC Coal Tar Epoxy (RCC Pipe Coating)

Product	Name	Reference Letter	Ref. No.
MANDW 15M&W Precast, 210 Durham Road, Ottsville, PA 18942-0339 https://www.mwprecastsupply.com/	Precast Box Culvert		2023-102Q
MILL0 15 A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/	Precast Box Culvert	11/20/1987	----
	Total Precast Bridge Structures		-
MILL1 15 A. C. Miller Concrete Products, Inc., 31 E. Bridge Street, Spring City, PA 19475 http://www.acmiller.com/	Precast Box Culvert		2000-241Q
MONAP 15 Monarch Products, Inc., 385 Sipe Road, York Haven, PA 17370 http://www.monarchproducts.net/	Precast Box Culvert		2005-009Q
MONAP21 5 Monarch Products, Inc., Strinestown Plant, 5140 N. Susquehanna Trail, York, PA 17406 http://www.monarchproducts.net/	Precast Box Culvert		2023-116Q
NITT0 15 Nitterhouse Concrete Products Inc., P. O. Box N, Chambersburg, PA 17201 http://nitterhouseconcrete.com/	Precast Box Culvert	01/02/1992	----
OLP-1 15 Plant Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/	200 Keystone Drive Telford, PA 18969 Precast Box Culvert		----
PREMC 15 Precast Manufacturing Company, 187 Strykers Road, Phillipsburg, NJ 08865 http://www.precastmfgco.com/	Precast Box Culvert		2016-080
TERH0 15 Plant Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581 http://www.terrehill.com/	Plant #2 1232 Precast Road East Earl, PA 17519 Precast Box Culvert		-



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Section 1085: Precast Reinforced Concrete Box Culvert

1085.2 Precast Box Culverts

Last Revised: 3/11/2024

For Protective Coatings, see MISC Coal Tar Epoxy (RCC Pipe Coating)

Product	Name	Reference Letter	Ref. No.
TERH1 15 Plant	Terre Hill Concrete Products, Plant #4:, 42 South Butler Road, Lebanon, PA 17042 Plant #4: 42 South Butler Road Lebanon, PA 17042 Precast Box Culvert	http://www.terrehill.com/ 05/17/1989	 ----
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 Precast Box Culvert	http://www.lcwhitford.com/	2016-138

1085.2(m)1 Neoprene Joint Material - Closed-Cell Neoprene Sponge

Last Revised: 12/3/2020

Product	Name	Ref. No.
ARMA2 15	Armacell LLC, 1004 Keisler Road NW, Conover, NC 28613 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 3 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 3	https://www.armacell.us/home/ Armacell (EnsoLite) IG2 Armacell (EnsoLite) IG3 Armacell (EnsoLite) IV3 2019-159Q 2019-157Q 2019-158Q
ARMCL 15	Armacell LLC, 7600 Oakwood Street Extension, P. O. Box 1038, Mebane, NC 27302 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 5	https://www.armacell.us/home/ F-2062 F-2045 2005-107Q 2005-109Q
MONRP 15	Monmouth Rubber and Plastics, 75 Longbranch Avenue, Long Branch, NJ 07740 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 5	http://www.monmouthrubber.com/ DK 2121 PADOT DK5151 PADOT 2005-094Q 2014-158Q
RUBAT 15	Rubatex International, LLC, 906 Adams Street, Bedford, VA 24523-2168 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2 Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	http://www.rubatexusa.com/ G-207-N R-470 2006-006Q 2005-116Q

1085.3(n) Protective Coating (SSPC-PS 16-82)

Last Revised: 7/9/2015



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1085: Precast Reinforced Concrete Box Culvert

1085.3(n) Protective Coating (SSPC-PS 16-82)

Last Revised: 7/9/2015

Product	Name	Ref. No.
COOPC 15 Coopers Creek Chemical Corporation, 884 River Road, West Conshohocken, PA 19428-2699 http://cooperscreekchemical.com/		
Protective Coating (SSPC-PS 16-82)	Black No. 775 Epoxy Tar Coating	2010-325Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 8/4/2023

Note: Application uses, drawings, and any restrictions for each alternate sound barrier wall panel is available at [Approved Bridge and Structure Products](#)

Product	Name	Ref. No.
CENTR 15 Centria, 1005 Beaver Grade Road, Moon Township, PA 15108 http://www.centria.com/Pages/default.aspx		
Sound Barrier Wall Panel (Alternate)	Vesapanel Sound Barrier (Reflective Barrier Only)	2006-206
CHAMP 15 Champagne Edition Inc., 57425 Range Road 253, Sturgeon County, AB, Canada T0G 1L1 https://www.eco-flex.com/eco-wall		
Sound Barrier Wall Panel (Alternate)	Eco-Flex HD Eco-Wall	2021-172Q
<i>Provisional Approval: When this Sound Barrier Wall system is used, the manufacturer is required to notify the PennDOT New Products and Innovations Section at (717) 346-1581. Notification shall include the following information: ECMS Project No., County, State Route, and Section. Under provisional approval, the Department will monitor its use, application, and performance on a minimum of three projects.</i>		
Sound Barrier Wall Panel (Alternate)	Eco-Flex HD Eco-Wall (Structure Mounted)	2022-105Q
<i>Provisional Approval: When this Sound Barrier Wall system is used, the manufacturer is required to notify the PennDOT New Products and Innovations Section at (717) 346-1581. Notification shall include the following information: ECMS Project No., County, State Route, and Section. Under provisional approval, the Department will monitor its use, application, and performance on a minimum of three projects.</i>		
DIAMC 15 Diamond Manufacturing Company, 243 West Eighth Street, P.o. Box 4174, Wyoming, PA 18644 http://www.diamondman.com/		
Sound Barrier Wall Panel (Alternate) Per SOL 431-08-15	Acoustax Sound Barrier (Structure Mount Only)	2002-130



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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 8/4/2023

Note: Application uses, drawings, and any restrictions for each alternate sound barrier wall panel is available at [Approved Bridge and Structure Products](#)

Product	Name	Ref. No.
EVCYR 15 Evonik Cyro LLC, 299 Jefferson Road, Parsippany, NJ 07054 http://www.acrylitesoundstop.com		
Sound Barrier Wall Panel (Alternate)	Acrylite Soundstop Structure Mounted Sound Barrier System	2012-050
<i>Clear Structure Mounted Sound Barrier, per SOL 483-14-02. Acrylite Soundstop Structure Mounted Sound Barrier System has the following restrictions:</i>		
<ul style="list-style-type: none"> • Maximum panel height: 6ft.-6in. • Maximum wall height and post spacing (see below) 		
<i>A. Bridge Barrier Mounted:</i>		

<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 9 ft.</i>		
<i>8 ft. Post Spacing: Wall Height of > 9 ft. thru 10 ft.</i>		
<i>B. Retaining Wall Barrier or Moment Slab Barrier Mounted:</i>		

<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 12 ft.</i>		
<i>8 ft. Post Spacing: Wall Height of > 12 ft. thru 13 ft.</i>		
<i>C. Retaining Wall Mounted:</i>		

<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 13 ft.</i>		
FABCO 15 Fabcon Precast Concrete Products, 1200 Morea Road, Mahanoy City, PA 17948 http://www.fabcon-usa.com/		
Sound Barrier Wall Panel (Alternate)	Sentry-Cast Wall Sound Panel (Reflective Barrier Only)	2011-275
FACADE15 ME Murphy Associates, LLC, 148 Picket Post Lane, Phoenixville, PA 19460 www.soundzero.com		
Plant	Novinger's 1400 North Cameron Street Harrisburg, PA 17103	
<i>Formerly Facade Technology</i>		
Sound Barrier Wall Panel (Alternate)	Sound Zero	2015-153



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Posted:
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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 8/4/2023

Note: Application uses, drawings, and any restrictions for each alternate sound barrier wall panel is available at [Approved Bridge and Structure Products](#)

Product	Name	Ref. No.
FADD1 15 Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/ Sound Barrier Wall Panel (Alternate) <i>Precast Absorptive Sound Panel Wall System, per SOL 431-08-16</i>	AcoustaCrete	2000-335
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/ Sound Barrier Wall Panel (Alternate) <i>Precast Absorptive Sound Panel Wall System, per SOL 431-08-16</i>	AcoustaCrete	2016-190
HOOTW 15 Hoover Treated Wood Products, Inc., 154 Wire Road, Thomson, GA 30824 http://www.frtw.com/ Sound Barrier Wall Panel (Alternate)	Plywall	2009-050Q
J&RS1 15 Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/ <i>Note: Previously assigned J&RS2 15 for same facility</i> Sound Barrier Wall Panel (Alternate) <i>Absorptive Sound Barrier System, per SOL 431-08-01</i>	Concrete Innovation Series / Whisper Wall	2007-040Q
MACK0 15 Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/ Sound Barrier Wall Panel (Alternate) <i>Absorptive Sound Barrier System, per SOL 431-08-01</i>	Concrete Innovation Series / Whisper Wall	2008-092Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1086: Sound Barriers

1086.2(b) Sound Barrier Wall Panels (Alternates)

Last Revised: 8/4/2023

Note: Application uses, drawings, and any restrictions for each alternate sound barrier wall panel is available at [Approved Bridge and Structure Products](#)

Product	Name	Ref. No.
STNB1 15 Superior Transparent Noise Barriers, LLC, 220 E Golfview Road, Ardmore, PA 19003 https://www.transparentnb.com/	Superior Transparent Sound Barrier System	2017-332
Sound Barrier Wall Panel (Alternate) <i>Clear Structure Mounted Sound Barrier, per SOL 483-18-01. Superior Transparent Sound Barrier System has the following restrictions:</i>		
<ul style="list-style-type: none"> • <i>Maximum panel height: 13 ft.- 3 1/2 in.</i> • <i>Maximum wall height and post spacing (see below)</i> 		
<i>A. Bridge Barrier Mounted:</i> -----		
<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 9 ft.</i> <i>8 ft. Post Spacing: Wall Height of > 9 ft. thru 10 ft.</i>		
<i>B. Retaining Wall Barrier or Moment Slab Barrier Mounted:</i> -----		
<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 12 ft.</i> <i>8 ft. Post Spacing: Wall Height of > 12 ft. thru 13 ft.</i>		
<i>C. Retaining Wall Mounted:</i> -----		
<i>10 ft. Post Spacing: Wall Height of 2 ft. thru 13 ft.</i> <i>8 ft. Post Spacing: Wall Height of > 13 ft. thru 14 ft.</i>		



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1087: PA HT Bridge Barrier

1087.2 PA HT Bridge Barrier Railing (BC-707M)

Last Revised: 11/28/2023

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 707M (PA, HT Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA HT Bridge Barrier Railing	Baltimore	MD	2018-282Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA HT Bridge Barrier Railing	Boyerstown	PA	2014-195QG
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ PA HT Bridge Barrier Railing	Hudson	MA	2007-157Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA HT Bridge Barrier Railing	North Baltimore	OH	2010-081Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA HT Bridge Barrier Railing	Georgetown	MA	----
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ PA HT Bridge Barrier Railing	Bedford	PA	2010-246Q
GSIH 15	GSI Highway Products, 720 W. Wintergreen Road, Hutchins, TX 75141 https://www.gsihighway.com/ PA HT Bridge Barrier Railing	Hutchins	TX	2017-353Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ PA HT Bridge Barrier Railing	Ellwood City	PA	2005-044Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ PA HT Bridge Barrier Railing	Ellwood City	PA	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> PA HT Bridge Barrier Railing	Brownsville	PA	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 PA HT Bridge Barrier Railing	Alum Bank	PA	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ PA HT Bridge Barrier Railing	Coatesville	PA	2010-015Q



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Section 1087: PA HT Bridge Barrier

1087.2 PA HT Bridge Barrier Railing (BC-707M)

Last Revised: 11/28/2023

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 707M (PA, HT Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 <i>2nd Facility: 20 Steel Rd., Morrisville, PA 19067</i> PA HT Bridge Barrier Railing	http://www.pennfab.com/		2015-154QG
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 PA HT Bridge Barrier Railing	https://www.pmwi.net/ Carbondale	PA	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 PA HT Bridge Barrier Railing	http://precisioninc.net/		2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA HT Bridge Barrier Railing	Bristol	PA	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 PA HT Bridge Barrier Railing	http://www.qualitybridgeandfab.com/ West Middlesex	PA	2015-187Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 PA HT Bridge Barrier Railing	http://www.rpsmachinery.com/ Jersey Shore	PA	2004-016Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 220 Lincoln Avenue Pittsburgh, PA 15209 PA HT Bridge Barrier Railing	http://www.safetyguardsteel.com/ Pittsburgh	PA	2016-016Q
SSW-1 15	Shawnee Steel & Welding, 6124 Merriam Drive, Merriam, KS 66203 PA HT Bridge Barrier Railing	https://shawnee-steel.com/ Merriam	KS	2017-142QA
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA HT Bridge Barrier Railing			2015-142QC



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1088: PA Type 10M Bridge Barrier

1088.2 PA Type 10M Bridge Barrier Railing (BC-709M)

Last Revised: 4/25/2023

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 709M (PA Type, 10M Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA Type 10M Bridge Barrier Railing	Baltimore	MD	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ PA Type 10M Bridge Barrier Railing	Saxonburg	PA	2015-025Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA Type 10M Bridge Barrier Railing	Boyerstown	PA	2014-195QH
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ PA Type 10M Bridge Barrier Railing	Hudson	MA	2007-120Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA Type 10M Bridge Barrier Railing	North Baltimore	OH	2008-039Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ PA Type 10M Bridge Barrier Railing	Trenton	NJ	2013-077Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA Type 10M Bridge Barrier Railing	Georgetown	MA	2010-246Q
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ PA Type 10M Bridge Barrier Railing	Oaks Corner	NY	2009-025Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ PA Type 10M Bridge Barrier Railing	Bedford	MA	2008-056Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ PA Type 10M Bridge Barrier Railing	Ellwood City	PA	----
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ PA Type 10M Bridge Barrier Railing	Ellwood City	PA	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> PA Type 10M Bridge Barrier Railing	Brownsville	PA	2018-220Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1088: PA Type 10M Bridge Barrier

1088.2 PA Type 10M Bridge Barrier Railing (BC-709M)

Last Revised: 4/25/2023

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 709M (PA Type, 10M Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 271 Industrial Lane Alum Bank, PA 15221 PA Type 10M Bridge Barrier Railing	Alum Bank	PA	2019-131Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 PA Type 10M Bridge Barrier Railing	Coatesville	PA	2010-015Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 PA Type 10M Bridge Barrier Railing	Carbondale	PA	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 PA Type 10M Bridge Barrier Railing	Sistersville	WV	2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA Type 10M Bridge Barrier Railing	Bristol	PA	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 PA Type 10M Bridge Barrier Railing	West Middlesex	PA	2012-246Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 PA Type 10M Bridge Barrier Railing	Pulaski	PA	2006-191Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 PA Type 10M Bridge Barrier Railing	Jersey Shore	PA	2004-016Q
SAFAB 15	SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 PA Type 10M Bridge Barrier Railing	Woodbine	NJ	2022-148Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 220 Lincoln Avenue Pittsburgh, PA 15209 PA Type 10M Bridge Barrier Railing	Pittsburgh	PA	2010-223Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA Type 10M Bridge Barrier Railing			2015-142QD
USBRG 15	U.S. Bridge, 201 Wheeling Avenue, P.O. Box 757, Cambridge, OH 43725 PA Type 10M Bridge Barrier Railing	Cambridge	OH	2007-108Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1089: PA Bridge Barrier

1089.2 PA Bridge Barrier Railing (BC-713M)

Last Revised: 4/25/2023

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 713M (PA Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA Bridge Barrier Railing	Baltimore	MD	2018-282Q
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ PA Bridge Barrier Railing	Saxonburg	PA	2015-027Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA Bridge Barrier Railing	Boyertown	PA	2014-195QI
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ PA Bridge Barrier Railing	Hudson	MA	2007-156Q
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA Bridge Barrier Railing	North Baltimore	OH	2008-039Q
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ PA Bridge Barrier Railing	Trenton	NJ	2013-102Q
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA Bridge Barrier Railing	Georgetown	MA	2010-250Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ PA Bridge Barrier Railing	Bedford	PA	2008-055Q
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ PA Bridge Barrier Railing	Ellwood City	PA	2007-088Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ PA Bridge Barrier Railing	Ellwood City	PA	2017-029Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> PA Bridge Barrier Railing	Brownsville	PA	2018-220Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 PA Bridge Barrier Railing	Alum Bank	PA	2019-131Q



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Posted:
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Section 1089: PA Bridge Barrier

1089.2 PA Bridge Barrier Railing (BC-713M)

Last Revised: 4/25/2023

These plants have been pre-approved to fabricate steel barrier railings as defined by BC 713M (PA Bridge Barrier).

Product	Name	Plant City	Plant State	Ref. No.
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 PA Bridge Barrier Railing	Coatesville	PA	2010-015Q
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 2nd Facility: 20 Steel Rd., Morrisville, PA 19067 PA Bridge Barrier Railing			2015-154QH
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 PA Bridge Barrier Railing	Carbondale	PA	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 PA Bridge Barrier Railing	Sistersville	WV	2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA Bridge Barrier Railing	Bristol	PA	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 PA Bridge Barrier Railing	West Middlesex	PA	2013-012Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 PA Bridge Barrier Railing	Pulaski	PA	2010-111Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 PA Bridge Barrier Railing	Jersey Shore	PA	2006-219Q
SAFAB 15	SA Fabrication, 201 Heine Avenue, Woodbine, NJ 08270 PA Bridge Barrier Railing	Woodbine	NJ	2022-148Q
SAFGD 15	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 Plant 220 Lincoln Avenue Pittsburgh, PA 15209 PA Bridge Barrier Railing	Millvale	PA	2013-133QB
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA Bridge Barrier Railing			2015-142QE



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1101: Highway Lighting

1101.02 Highway Lighting Poles (Aluminum)

Last Revised: 9/4/2019

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Highway Lighting Pole Fabricator (Aluminum)	----
HAPCO 15	Hapco/American Flagpole, 26252 Hillman Highway, Abington, VA 24210 http://hapco.com/ Highway Lighting Pole Fabricator (Aluminum)	----
METPL 15	MPL (Metal Pole-Lite, Inc.), 375 & 375B St. Louis, Saint-Jean-Sur-Richelieu, Quebec Canada J3B 1Y4 Highway Lighting Pole Fabricator (Aluminum)	----
P&KTP 15	P&K Tubular Products/Flagpoles, Inc., 95 Gnarled Hollow Road, East Setauket, NY 11733 http://pktubularproducts.com/ Highway Lighting Pole Fabricator (Aluminum)	----
PHIHA 15	Philips Hadco, 100 Craftway, Littlestown, PA 17340 http://www.hadco.com/Hadco/home.html Highway Lighting Pole Fabricator (Aluminum)	----
SCEMC 15	Spring City Electrical Manufacturing Company, Inc., One South Main Street, Spring City, PA 19475 http://www.springcity.com/ Highway Lighting Pole Fabricator (Aluminum)	----
STEV L 15	Sternberg Vintage Lighting, 555 Lawrence Avenue, Roselle, IL 60172 http://www.sternberglighting.com/www-sternberglighting-com/ Highway Lighting Pole Fabricator (Aluminum)	----
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Highway Lighting Pole Fabricator (Aluminum)	2018-177Q
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Valley, NE 68064 Highway Lighting Pole Fabricator (Aluminum)	----
VALM2 15 Plant	Valmont Industries, Inc., 58027 Charlotte Ave., Elkhart, IN 46517 http://www.valmont.com/ Elkhart, IN 46517 Highway Lighting Pole Fabricator (Aluminum)	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1101: Highway Lighting

1101.02 Highway Lighting Poles (Cast Iron)

Last Revised: 4/3/2015

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Highway Lighting Pole Fabricator (Cast iron)	-----

1101.02 Highway Lighting Poles (Steel)

Last Revised: 3/21/2023

Product	Name	Ref. No.
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Highway Lighting Pole Fabricator (Steel)	-----
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i> Highway Lighting Pole Fabricator (Steel)	2018-220Q
MAICO 15	Maico Industries, Inc, 936 Highway 14, P.O. Box 24, Ellsworth, KS 67439 http://www.maicoind.com/ Highway Lighting Pole Fabricator (Steel)	2023-038Q
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Highway Lighting Pole Fabricator (Steel)	2019-131Q
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Highway Lighting Pole Fabricator (Steel)	-----
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Highway Lighting Pole Fabricator (Steel)	2018-177Q
VALM1 15 Plant	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Valley, NE 68064 Highway Lighting Pole Fabricator (Steel)	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1101: Highway Lighting

1101.02 Highway Lighting Poles (Steel)

Last Revised: 3/21/2023

Product	Name	Ref. No.
VALM5 15 Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154-5215 http://www.valmont.com/ Plant 2551 Valmont Drive Brenham, TX 77833 Highway Lighting Pole Fabricator (Steel)		----

1101.06(c) Arm Mount Luminaires - LED - (Cobra Head)

Last Revised: 4/8/2024

Product	Name	Ref. No.
ACUITY15 Acuity Brands Lighting, Inc., 1170 Peachtree Street, NE, Suite 2300, Atlanta, GA 30309-7676 https://www.acuitybrands.com/products/detail/122047/american-electric-lighting/ Plant Guadalupe, Mexico		
Conventional LED Luminaire	Autobahn ATB0	2017-348Q
Conventional LED Luminaire	Autobahn ATB2	2017-349Q
CLS-1 15 Cooper Lighting Solutions, 1121 Highway 74 South, Peachtree City, GA 30269 https://www.cooperlighting.com/global Plant Juarez, Mexico <i>Formerly EATON 15</i>		
Conventional LED Luminaire	Streetworks ARCH Archeon Small	2018-098Q
Conventional LED Luminaire	Streetworks ARCH-L Archeon Large	2018-093Q
Conventional LED Luminaire	Streetworks ARCH-M Archeon Medium	2018-068Q
Conventional LED Luminaire	Streetworks ARCH-N Archeon Nano	2021-058Q
CREE1 15 Cree Lighting, 4401 Silicon Drive, Durham, NC 27703 https://www.creelighting.com/ Plant Racine, WI		
Conventional LED Luminaire	Cree Traveyo Extra Large TRVXL	2020-274Q
Conventional LED Luminaire	Cree Traveyo Large TRVLG	2020-274Q
Conventional LED Luminaire	Cree Traveyo Medium TRVMD	2020-274Q
Conventional LED Luminaire	Cree Traveyo Small TRVSM	2020-274Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1101: Highway Lighting

1101.06(c) Arm Mount Luminaires - LED - (Cobra Head)

Last Revised: 4/8/2024

Product	Name	Ref. No.
GELED 15 Current Lighting Solutions, LLC, 25825 Science Park Drive, Suite 400, Beachwood, OH 44122 https://www.led.com/outdoor-lighting/led-roadway-street-lights		
Plant East Flat Rock, NC <i>Formerly GE Lighting</i>		
Conventional LED Luminaire	Evolve ERL1	2018-101Q
Conventional LED Luminaire	Evolve ERL2	2018-045Q
Conventional LED Luminaire	Evolve ERLH	2018-044Q
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/		
Conventional LED Luminaire <i>Formerly listed under the ComfortView Neighborhood LED Streetlight, CV1-H product name.</i>	Leotek ComfortView CV	2019-119Q
Conventional LED Luminaire <i>Formerly listed under the GC2-96G GreenCobra LED Street Light - GC2 G-Series product name.</i>	Leotek GreenCobra GC2	2017-291Q
Conventional LED Luminaire <i>Formerly listed under the GCJ0-15H GreenCobra LED Street Light - GCJ Series, GCJ1-20H GreenCobra LED Street Light - GCJ Series, and GCJ2-20H GreenCobra LED Street Light - GCJ Series product names.</i>	Leotek GreenCobra GCJ	2018-099Q
Conventional LED Luminaire	Leotek GreenCobra GCL	2020-029Q
Conventional LED Luminaire <i>Formerly listed as GCM2-30H GreenCobra Midsize LED Street Light - GCM H-Series & GCM2-40H GreenCobra Midsize LED Street Light - GCM H-Series</i>	Leotek GreenCobra GCM	2017-351Q
SIGN1 15 Signify, 200 Franklin Square Drive, Somerset, NJ 08873 https://www.signify.com/en-us		
Plant Camargo Chichuahua, Mexico <i>Formerly Philips Lighting</i>		
Conventional LED Luminaire	RoadFocus LED Cobra Head - Large (RFL)	2018-152Q
Conventional LED Luminaire	RoadFocus LED Cobra Head - Medium (RFM)	2018-152Q
Conventional LED Luminaire	RoadFocus LED Cobra Head - Small (RFS)	2018-152Q

1101.09 Highway Lighting Conduit



BULLETIN 15 (Publication 35)

Qualified Products List for Construction

Posted:
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Section 1101: Highway Lighting

1101.09 Highway Lighting Conduit

In lieu of certification, submit catalog cuts or shop drawings to the Engineer for approval, as specified in Publication 408, Section 1101.01.

Refer to the Project Office Manual for material information requirements.

1101.10 Highway Lighting Junction Boxes

Steel or Cast Iron Junction Boxes and Frames: See Section 605.2(a).

Precast Concrete Junction Boxes: See Section 714.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 1103: Traffic Signing and Marking

1103.02 Extruded Aluminum Channel Signs (Post Mounted Types A and E; and Structure Mounted)

Last Revised: 12/4/2023

Product	Name	COA	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/		
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000 Fabricated Aluminum Sign Manufacturer		-----
BASSEC15	Bassler Equipment Co., Inc., 1300 Wyoming Avenue, Forty Fort, PA 18704 http://www.basslerequipment.com/		
	Fabricated Aluminum Sign Manufacturer		-----
DONLN 15	Donlyn Company/Osburn Associates, Inc., P.O. Box 912, Logan, OH 43138 http://www.osburns.com/		
	Fabricated Aluminum Sign Manufacturer		-----
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/		
	Fabricated Aluminum Sign Manufacturer		-----
GARDS 15	National Highway Products, Inc., 301 Riverside Drive, Millville, NJ 08332 https://nationalhighway.com/ <i>Formerly Garden State Highway Products, Inc.</i>		
	Fabricated Aluminum Sign Manufacturer		-----
INSHS 15	Interstate Highway Sign Company, 7415 Lindsey Road, Little Rock, AR 72206		
	Fabricated Aluminum Sign Manufacturer		-----
KORMN 15	Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/		
	Fabricated Aluminum Sign Manufacturer		-----
LIGH1 15	Lightle Enterprises of Ohio, LLC, P.O. Box 329, 22 East Springfield Street, Frankfort, OH 45628 http://www.lightleenterprisesohio.com/	February 3, 2020	
	Fabricated Aluminum Sign Manufacturer		-----
LYLE- 15	Lyle Signs, Inc., 6294 Bury Drive, Eden Prairie, MN 55346 http://lylesigns.com/		
	Fabricated Aluminum Sign Manufacturer		-----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032		
	Fabricated Aluminum Sign Manufacturer		-----



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Section 1103: Traffic Signing and Marking

1103.02 Extruded Aluminum Channel Signs (Post Mounted Types A and E; and Structure Mounted)

Last Revised: 12/4/2023

Product	Name	COA	Ref. No.
ROCAL 15	Rocal, Inc., 3186 CR 550, Frankfort, OH 45628 http://www.rocal.com/ Fabricated Aluminum Sign Manufacturer		----
RSTS1 15	RoadSafe Traffic Systems, 8750 W Bryn Mawr Avenue, Chicago, IL 60631 Facility 55 Bodwell Street Avon, MA 02322 Fabricated Aluminum Sign Manufacturer		----
RSTS2 15	RoadSafe Traffic Systems, 8750 W Bryn Mawr Avenue, Chicago, IL 60631 https://www.roadsafetraffic.com/ Facility 1740 Internationale Parkway Woodridge, IL 60517 Fabricated Aluminum Sign Manufacturer		2023-109
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957 Fabricated Aluminum Sign Manufacturer		-----
TCI-1 15	Traffic Control Industries, LLC, 805 W 5th Street, Unit 15, Lansdale, PA 19446 Fabricated Aluminum Sign Manufacturer		-
TRFSC 15	Trafco Supply Company, 1420 Ford Avenue, Harrisburg, PA 17109 Fabricated Aluminum Sign Manufacturer		-----
USMUS 15	U. S. Municipal Supply, Inc., 10583 Raystown Road, Huntingdon, PA 16652 http://store.usmuni.com/ Fabricated Aluminum Sign Manufacturer		----

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/ Plant Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000					
	http://www.3m.com/3M/en_US/company-us/					
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
Reflective Sheeting	3314	RS-1	Type III / Type IV	Orange	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
Reflective Sheeting	334/336	RS-1	Type III / Type IV	White/Orange	Barricades / Panels Only	----
<i>Provisionally Approved</i>						
Reflective Sheeting	3340	RS-1	Type VIII	White	Cones Only	----
Reflective Sheeting	3811-I	RS-1	Type III / Type IV	Yellow	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
Reflective Sheeting	3872	RS-1	Type III	Red	No Restrictions	----
Reflective Sheeting	3910	RS-1	Type III / Type IV (reboundable)	White	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
Reflective Sheeting	3914	RS-1	Type III / Type IV (reboundable)	Fluorescent Orange	Tubular Markers / Drums / Channelizers / Flexible Delineators	----
Reflective Sheeting	3924	RS-1	Type VII	Fluorescent Orange	Work Zones and Incidents Only	1991-311
Reflective Sheeting	3930	RS-1	Type III / Type IV	White	No Restrictions	----
Reflective Sheeting	3931	RS-1	Type III / Type IV	Yellow	No Restrictions	----
Reflective Sheeting	3934	RS-1	Type III / Type IV	Orange	Work Zones Only	2014-144Q



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000					
	http://www.3m.com/3M/en_US/company-us/					
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000					
Reflective Sheeting	3935	RS-1	Type III / Type IV	Blue	No Restrictions	----
Reflective Sheeting	3937	RS-1	Type III / Type IV	Green	No Restrictions	----
Reflective Sheeting	3981	RS-1	Type IX	Fluorescent Yellow	No Restrictions	1999-165Q
Reflective Sheeting	3990	RS-1	Type IX	White	No Restrictions	----
Reflective Sheeting	3990T	RS-1	Type VIII	Translucent White	Internally Illuminated Signs Only	----
Reflective Sheeting	3991	RS-1	Type IX	Yellow	No Restrictions	----
Reflective Sheeting	3992	RS-1	Type IX	Red	No Restrictions	----
Reflective Sheeting	3995	RS-1	Type IX	Blue	No Restrictions	----
Reflective Sheeting	3997	RS-1	Type IX	Green	No Restrictions	----
Reflective Sheeting	4081	RS-1	Type XI	Fluorescent Yellow	No Restrictions	2010-078QG
Reflective Sheeting	4083	RS-1	Type XI	Fluorescent Yellow Green	No Restrictions	2010-078QH
Reflective Sheeting	4084	RS-1	Type XI	Fluorescent Orange	Work Zones and Incidents Only	2010-078QJ
Reflective Sheeting	4090	RS-1	Type XI	White	No Restrictions	2010-078QA
Reflective Sheeting	4091	RS-1	Type XI	Yellow	No Restrictions	2010-078QB
Reflective Sheeting	4092	RS-1	Type XI	Red	No Restrictions	2010-078QC
Reflective Sheeting	4095	RS-1	Type XI	Blue	No Restrictions	2010-078QD
Reflective Sheeting	4097	RS-1	Type XI	Green	No Restrictions	2010-078QE
Reflective Sheeting	444/446	RS-1	Type XI	White/Orange	No Restrictions	2010-078QK
Reflective Sheeting	RS24	RS-1	Type VI (reboundable)	Fluorescent Orange	Work Zones and Incidents Only	----



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
3M-06 15 Plant	3M Company, 4501 Highway 377 South, Brownwood, TX 76804	http://www.3m.com/3M/en_US/company-us/				
	4501 Highway 377 South Brownwood, TX 76804					
Reflective Sheeting	3334 Flexible Prismatic Reflective Barricade Sheeting (4-inch)		Type IV	Orange and White	Barricades / Panels Only	2016-076Q
Reflective Sheeting	3336 Flexible Prismatic Reflective Barricade Sheeting (6-inch)		Type IV	Orange and White	Barricades / Panels Only	2016-076Q
Reflective Sheeting	3924S		Type VIII	Fluorescent Orange	Work Zones Only	2020-109Q
Reflective Sheeting	4081	RS-1	Type XI	Fluorescent Yellow	No Restrictions	2010-078QG
Reflective Sheeting	4083	RS-1	Type XI	Fluorescent Yellow Green	No Restrictions	2010-078QH
Reflective Sheeting	4084	RS-1	Type XI	Fluorescent Orange	Work Zones and Incidents Only	2010-078QJ
Reflective Sheeting	4090	RS-1	Type XI	White	No Restrictions	2010-078QA
Reflective Sheeting	4091	RS-1	Type XI	Yellow	No Restrictions	2010-078QB
Reflective Sheeting	4092	RS-1	Type XI	Red	No Restrictions	2010-078QC
Reflective Sheeting	4095	RS-1	Type XI	Blue	No Restrictions	2010-078QD
Reflective Sheeting	4097	RS-1	Type XI	Green	No Restrictions	2010-078QE
Reflective Sheeting	444/446	RS-1	Type XI	White/Orange	No Restrictions	2010-078QK
Reflective Sheeting	RS60		Type VI	White	No Restrictions	2016-228Q
Reflective Sheeting	RS64I		Type VI	Fluorescent Orange	No Restrictions	2016-243Q



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
EVERY 15 Plant	Avery Dennison Reflective Solutions, 7542 North Natchez Avenue, Niles, IL 60714 http://reflectives.averydennison.com/en/home.html 902 Feehanville Drive Mount Prospect, IL 60056					
Reflective Sheeting	OmniBrite WU-7000		Type VI	White	No Restrictions	2021-089Q
Reflective Sheeting	OmniBrite WU-7014		Type VI	Fluorescent Orange	No Restrictions	2021-169Q
Reflective Sheeting	T-11500	RS-6	Type XI	White	No Restrictions	2012-081QD
Reflective Sheeting	T-11501	RS-6	Type XI	Yellow	No Restrictions	2012-081QC
Reflective Sheeting	T-11505	RS-6	Type XI	Blue	No Restrictions	2012-081QB
Reflective Sheeting	T-11507	RS-6	Type XI	Green	No Restrictions	2012-081QA
Reflective Sheeting	T-11508	RS-6	Type XI	Red	No Restrictions	2012-081QE
Reflective Sheeting	T-11511		Type XI	Flourescent Yellow	No Restrictions	2017-008Q
Reflective Sheeting	T-11513	RS-6	Type XI	Fluorescent Yellow Green	No Restrictions	2012-081QG
Reflective Sheeting	T-6500	RS-6	Type III / Type IV	White	No Restrictions	1996-158A
Reflective Sheeting	T-6501	RS-6	Type III / Type IV	Yellow	No Restrictions	1996-158B
Reflective Sheeting	T-6505	RS-6	Type III / Type IV	Blue	No Restrictions	1996-158D
Reflective Sheeting	T-6507	RS-6	Type III / Type IV	Green	No Restrictions	1996-158C
Reflective Sheeting	T-6508	RS-6	Type III / Type IV	Red	No Restrictions	1996-158E
Reflective Sheeting	T-7500	RS-6	Type VIII	White	No Restrictions	2006-214Q
Reflective Sheeting	T-7511	RS-6	Type VIII	Fluorescent Yellow	No Restrictions	2001-115Q
Reflective Sheeting	T-7513		Type VIII	Flourescent Yellow Green	No Restrictions	2017-007Q
Reflective Sheeting	T-9500	RS-6	Type IX	White	No Restrictions	2009-109Q
Reflective Sheeting	T-9501	RS-6	Type IX	Yellow	No Restrictions	2009-112Q
Reflective Sheeting	T-9505	RS-6	Type IX	Blue	No Restrictions	2009-114Q



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
EVERY 15 Plant	Avery Dennison Reflective Solutions, 7542 North Natchez Avenue, Niles, IL 60714 902 Feehanville Drive Mount Prospect, IL 60056					
	http://reflectives.averydennison.com/en/home.html					
Reflective Sheeting	T-9507	RS-6	Type IX	Green	No Restrictions	2009-110Q
Reflective Sheeting	T-9508	RS-6	Type IX	Red	No Restrictions	2009-111Q
Reflective Sheeting	T-9511	RS-6	Type IX	Fluorescent Yellow	No Restrictions	2009-113Q
Reflective Sheeting	T-9513	RS-6	Type IX	Fluorescent Green	No Restrictions	2009-108Q
Reflective Sheeting	W-11000	RS-6	Type XI	White/Orange	No Restrictions	2015-175Q
	<i>Provisional approval is granted through calendar year 2016 or until such time as NTPEP testing data is available from the Arizona testing site.</i>					
Reflective Sheeting	W-11514	RS-6	Type XI	Fluorescent Orange	No Restrictions	2012-081QH
Reflective Sheeting	W-6100	RS-6	Type III	White/Orange	Barricades / Panels Only	2012-108Q
Reflective Sheeting	W-6200	RS-6	Type III	White/Orange	Barricades / Panels Only	1996-158I
Reflective Sheeting	W-6504	RS-6	Type III / Type IV	Orange	No Restrictions	1998-043
Reflective Sheeting	W-7514	RS-6	Type VIII	Fluorescent Orange	No Restrictions	----
Reflective Sheeting	W-9514	RS-6	Type IX	Fluorescent Orange	No Restrictions	2009-115Q
Reflective Sheeting	WR-6100	RS-6	Type III (reboundable)	White	Cones, Drums, and Tubular Markers Only	2014-146Q
Reflective Sheeting	WR-6104	RS-6	Type III (reboundable)	Orange	Cones, Drums, and Tubular Markers Only	2014-147Q
Reflective Sheeting	WR-7100M		Type III / Type IV (reboundable)	White	No Restrictions	2021-087Q



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
EVERY 15 Plant	Avery Dennison Reflective Solutions, 7542 North Natchez Avenue, Niles, IL 60714 http://reflectives.averydennison.com/en/home.html 902 Feehanville Drive Mount Prospect, IL 60056					
Reflective Sheeting	WR-7101M	---	Type IV (reboundable)	Yellow	No Restrictions	2021-090Q
Reflective Sheeting	WR-7108M	---	Type IV (reboundable)	Red	No Restrictions	2021-091Q
NIPCA 15	Nippon Carbide Industries USA Inc., 12981 East Florence Avenue, Santa Fe Springs, CA 90670 http://nikkalite.com/					
Reflective Sheeting	92805	RS-3	Type VIII	Red	No Restrictions	----
Reflective Sheeting	92806	RS-3	Type VIII	Blue	No Restrictions	----
Reflective Sheeting	92808	RS-3	Type VIII	Green	No Restrictions	----
Reflective Sheeting	92847	RS-3	Type VIII	Fluorescent Orange	No Restrictions	----
Reflective Sheeting	94802		Type IV	White	No Restrictions	2016-310Q
Reflective Sheeting	94804	RS-3	Type IV	Yellow	No Restrictions	2014-041QA
Reflective Sheeting	94804		Type IV	Yellow	No Restrictions	2016-310Q
Reflective Sheeting	94805		Type IV	Red	No Restrictions	2016-310Q
Reflective Sheeting	94806	RS-3	Type IV	Blue	No Restrictions	2014-041QC
Reflective Sheeting	94806		Type IV	Blue	No Restrictions	2016-310Q
Reflective Sheeting	94808		Type IV	Green	No Restrictions	2016-310Q
Reflective Sheeting	N504	RS-3	Type III	Yellow	No Restrictions	----
Reflective Sheeting	N506	RS-3	Type III	Blue	No Restrictions	----
Reflective Sheeting	N507	RS-3	Type III	Orange	No Restrictions	----
Reflective Sheeting	N508	RS-3	Type III	Green	No Restrictions	----
Reflective Sheeting	N512	RS-3	Type III	White	No Restrictions	----
Reflective Sheeting	N517	RS-3	Type III	White/Orange	Barricades / Panels Only	----



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
ORAAI 15 Orafol Americas Inc., 120 Darling Drive, Avon, CT 06001 https://www.orafol.com/en/americas/						
Formerly Reflexite North America (REFLE 15)						
Reflective Sheeting	C85-1572	RSF-2	Type III (reboundable)	White	No Restrictions	1998-003
<i>Provisionally Approved</i>						
Reflective Sheeting	C85-1772	RSF-2	Type III (reboundable)	Orange	No Restrictions	1998-003
<i>Provisionally Approved</i>						
Reflective Sheeting	D89-1541 AR1000	RSF-2	Type V (reboundable)	White	No Restrictions	1996-111
Reflective Sheeting	D89-1841 AR1000	RSF-2	Type V (reboundable)	Yellow	No Restrictions	1996-111
Reflective Sheeting	Marathon	RSF-2	Type VI	White	No Restrictions	2000-184Q
Reflective Sheeting	Marathon	RSF-2	Type VI	Fluorescent Orange	No Restrictions	2000-185Q
Reflective Sheeting	ORALITE 5900-010	RSF-2	Type IV	White	No Restrictions	2014-155QA
Reflective Sheeting	ORALITE 5900-020	RSF-2	Type IV	Yellow	No Restrictions	2014-155QB
Reflective Sheeting	ORALITE 5900-030	RSF-2	Type IV	Red	No Restrictions	2014-155QC
Reflective Sheeting	ORALITE 5900-050	RSF-2	Type IV	Blue	No Restrictions	2014-155QD
Reflective Sheeting	ORALITE 5900-060	RSF-2	Type IV	Green	No Restrictions	2014-155QE
Reflective Sheeting	ORALITE 5930-038	RSF-2	Type IV	Fluorescent Orange	No Restrictions	2012-143Q
Reflective Sheeting	ORALITE 5930-038		Type IX	Fluorescent Orange	No Restrictions	2016-177Q
Reflective Sheeting	ORALITE 5934-010		Type III / Type IV (reboundable)	White	Tubular Markers / Drums / Channelizers / Flexible Delineators	2019-227Q
Reflective Sheeting	ORALITE 5935-010 Marathon		Type VIII (reboundable)	White	Tubular Markers / Drums / Channelizers / Flexible Delineators	2020-070Q



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Section 1103: Traffic Signing and Marking

1103.02(c) Reflective Sheeting

Last Revised: 3/5/2024

Product	Name	COA	Sheeting Type	Colors	Restricted Use	Ref. No.
ORAAI 15 Orafol Americas Inc., 120 Darling Drive, Avon, CT 06001 https://www.orafol.com/en/americas/						
Formerly Reflexite North America (REFLE 15)						
Reflective Sheeting	ORALITE 5935-029 Marathon		Type VIII (reboundable)	Fluorescent Yellow Green	Tubular Markers / Drums / Channelizers / Flexible Delineators	2020-072Q
Reflective Sheeting	ORALITE 5935-038 Marathon		Type VIII (reboundable)	Fluorescent Orange	Tubular Markers / Drums / Channelizers / Flexible Delineators	2020-071Q
Reflective Sheeting	ORALITE 7900-010		Type IX	White	No Restrictions	2018-243Q
Reflective Sheeting	ORALITE 7900-020		Type IX	Yellow	No Restrictions	2017-319Q
Reflective Sheeting	ORALITE 7900-029		Type IX	Fluorescent Yellow-Green	No Restrictions	2017-322Q
Reflective Sheeting	ORALITE 7900-037		Type IX	Fluorescent Yellow	No Restrictions	2017-323Q
Reflective Sheeting	ORALITE 7900-050		Type IX	Blue	No Restrictions	2017-321Q
Reflective Sheeting	ORALITE 7900-060		Type IX	Green	No Restrictions	2017-320Q
Reflective Sheeting	ORALITE 9900-010		Type XI	White	No Restrictions	2023-191Q
Reflective Sheeting	ORALITE 9900-020		Type XI	Yellow	No Restrictions	2023-192Q
Reflective Sheeting	ORALITE 9900-030		Type XI	Red	No Restrictions	2023-193Q
Reflective Sheeting	ORALITE 9900-037		Type XI	Fluorescent Yellow	No Restrictions	2023-198Q
Reflective Sheeting	ORALITE 9900-038		Type XI	Fluorescent Orange	No Restrictions	2023-199Q
Reflective Sheeting	ORALITE 9900-050		Type XI	Blue	No Restrictions	2023-194Q
Reflective Sheeting	ORALITE 9900-060		Type XI	Green	No Restrictions	2023-195Q
Reflective Sheeting	ORALITE 9900-080		Type XI	Brown	No Restrictions	2023-196Q
Reflective Sheeting	Super Brite	RSF-2	Type VI	Fluorescent Orange	No Restrictions	1997-038

Provisionally Approved



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Section 1103: Traffic Signing and Marking

1103.03(a) to (f) Flat Sheet Aluminum Signs with Stiffeners (Post Mounted Types A, D, and E; and Str

Last Revised: 3/14/2024

Product	Name	COA	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/		
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000		
	Fabricated Aluminum Sign Manufacturer		-
	Fabricated Aluminum Sign Manufacturer		----
BASSEC15	Bassler Equipment Co., Inc., 1300 Wyoming Avenue, Forty Fort, PA 18704 http://www.basslerequipment.com/		
	Fabricated Aluminum Sign Manufacturer		----
DONLN 15	Donlyn Company/Osburn Associates, Inc., P.O. Box 912, Logan, OH 43138 http://www.osburns.com/		
	Fabricated Aluminum Sign Manufacturer		----
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/		
	Fabricated Aluminum Sign Manufacturer		----
ESTTC 15	Established Traffic Control, Inc., 3162 Unionville Pike, Hatfield, PA 19440		
	Fabricated Aluminum Sign Manufacturer		2019-200Q
GARDS 15	National Highway Products, Inc., 301 Riverside Drive, Millville, NJ 08332 https://nationalhighway.com/ <i>Formerly Garden State Highway Products, Inc.</i>		
	Fabricated Aluminum Sign Manufacturer		----
INSHS 15	Interstate Highway Sign Company, 7415 Lindsey Road, Little Rock, AR 72206		
	Fabricated Aluminum Sign Manufacturer		----
KORMN 15	Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228 http://www.kormansigns.com/		
	Fabricated Aluminum Sign Manufacturer		----
LIGH1 15	Lightle Enterprises of Ohio, LLC, P.O. Box 329, 22 East Springfield Street, Frankfort, OH 45628 http://www.lightleenterprisesohio.com/		
	Fabricated Aluminum Sign Manufacturer		----



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Section 1103: Traffic Signing and Marking

1103.03(a) to (f) Flat Sheet Aluminum Signs with Stiffeners (Post Mounted Types A, D, and E; and Str

Last Revised: 3/14/2024

Product	Name	COA	Ref. No.
LYLE- 15	Lyle Signs, Inc., 6294 Bury Drive, Eden Prairie, MN 55346 http://lylesigns.com/ Fabricated Aluminum Sign Manufacturer		----
MAISI 15	Main Stream Industries, Inc., 7340 Bernville Road, Bernville, PA 19506 Fabricated Aluminum Sign Manufacturer		----
MILLS 15	Miller Municipal Supply LLC, 1117 Snyder Road, West Lawn, PA 19609 http://www.mmssigns.com/ Fabricated Aluminum Sign Manufacturer		----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032 Fabricated Aluminum Sign Manufacturer		----
RAELY 15	Rae-Lyn Enterprises, Inc., P.O. Box 50, Spring Church, PA 15686 http://www.raelyenterprises.com/ Fabricated Aluminum Sign Manufacturer		----
ROCAL 15	Rocal, Inc., 3186 CR 550, Frankfort, OH 45628 http://www.rocal.com/ Fabricated Aluminum Sign Manufacturer		----
RSTS1 15	RoadSafe Traffic Systems, 8750 W Bryn Mawr Avenue, Chicago, IL 60631 Facility 55 Bodwell Street Avon, MA 02322 Fabricated Aluminum Sign Manufacturer		----
RSTS2 15	RoadSafe Traffic Systems, 8750 W Bryn Mawr Avenue, Chicago, IL 60631 https://www.roadsafetraffic.com/ Facility 1740 Internationale Parkway Woodridge, IL 60517 Fabricated Aluminum Sign Manufacturer		2023-109Q
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957 Fabricated Aluminum Sign Manufacturer		----
TCI-1 15	Traffic Control Industries, LLC, 805 W 5th Street, Unit 15, Lansdale, PA 19446 Fabricated Aluminum Sign Manufacturer		-



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1103: Traffic Signing and Marking

1103.03(a) to (f) Flat Sheet Aluminum Signs with Stiffeners (Post Mounted Types A, D, and E; and Str

Last Revised: 3/14/2024

Product	Name	COA	Ref. No.
TRFSC 15 Trafc Supply Company, 1420 Ford Avenue, Harrisburg, PA 17109 Fabricated Aluminum Sign Manufacturer			----
USMUS 15 U. S. Municipal Supply, Inc., 10583 Raystown Road, Huntingdon, PA 16652 http://store.usmuni.com/ Fabricated Aluminum Sign Manufacturer			----
WEIGL 15 H. A. Weigand, Inc., 1409 State Road, Phoenixville, PA 19460 http://weigandsigns.com/ Fabricated Aluminum Sign Manufacturer			2024-002Q

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
ALLTS 15 All Traffic Solutions, 3100 Research Drive, State College, PA 16801 http://www.alltrafficsolutions.com/				
Speed Display Sign	SA18	ATS-004P	12/1/2011	----
Speed Display Sign	SH12	ATS-001P	12/1/2011	----
Speed Display Sign	SH15	ATS-002P	12/1/2011	----
Speed Display Sign	SS12	ATS-003P	12/1/2011	----
APXEN 15 APX Enclosures, Inc., 200 Oregon Street, Mercersburg, PA 17236 http://apx-enclosures.com/main/index.html				
Internally Illuminated Sign	1-850-000621	APX-001P	10/26/2010	----
CARM2 15 Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 https://carmanah.com/ Facility Polara Enterprises Greenville, TX				
Flashing Warning Sign	R247-MX Beacon Module			2023-227Q
LED Border Lit Sign	R247-MX LED Sign Module			2023-227Q
School Zone Speed Limit Flashing Warning Sign	R829-MX			2023-223Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
CARMH 15 Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 https://carmanah.com/				
Facility Star Precision Houston, TX Formerly Spot Devices, Inc. (SPODE 15)				
Flashing Warning Sign	R247-E 24-Hour Flashing Beacon			2022-112Q
Flashing Warning Sign	R247-G 24-hour Flashing Beacon			2023-006Q
LED Border Lit Sign	LED Enhanced Signs			2022-200Q
School Zone Speed Limit Flashing Warning Sign	R829C	CTC-003P	12/9/2009	----
School Zone Speed Limit Flashing Warning Sign	SB410	CTC-004P	7/25/2013	----
School Zone Speed Limit Flashing Warning Sign	SC-15.FL	CTC-007P	2/28/2020	----
Speed Display Sign	SpeedCheck-12 Radar Speed Sign			2022-132Q
Speed Display Sign	SpeedCheck-15	CTC-010P	5/26/2021	2020-273Q
Warning Sign System	R247RC	CTC-001P	12/9/2009	----
Warning Sign System	R820C	CTC-002P	12/9/2009	----
CROAS 15 Cross Alert Systems, Inc., 20 Altieri Way, #3, Warwick, RI 02886 http://www.crossalert.com/				
Warning Sign System	BP-IN	CAS-002P	5/29/2012	----
Warning Sign System	BP-IN12	CAS-001P	4/5/2012	----
ELAN1 15 Elan City Inc., 10-34 44th Drive, Long Island City, NY 11101 https://www.elancity.net/				
Plant Elan Cité Orvault, France				
Speed Display Sign	Evolis	ELA-001P	12/21/2018	2017-158Q



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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
ELECT 15 Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/				
School Zone Speed Limit Flashing Warning Sign	S891161	ECH-020P	12/7/2011	----
School Zone Speed Limit Flashing Warning Sign	S891162	ECH-021P	12/7/2011	----
Warning Sign System	CautionGuard	EHC-018P	2/18/2003	----
Warning Sign System	S891163	ECH-022P	12/7/2011	----
Warning Sign System	S891164	ECH-023P	12/7/2011	----
Warning Sign System	S891165	ECH-024P	12/7/2011	----
Warning Sign System	S891166	ECH-025P	12/7/2011	----
GENHP 15 General Highway Products, Inc., 878 Sussex Blvd., P. O. Box 596, Broomall, PA 19008 http://generalhighwayproducts.com/				
School Zone Speed Limit Flashing Warning Sign	MSRS-101-I	GHP-001P	4/13/1995	----
KUSTOM1 Kustom Signals, Inc., 9652 Loiret Boulevard, Lenexa, KS 66219-2406 https://www.kustomsignals.com/				
Speed Display Sign	PMD 12	KUS-001P	4/6/2020	2020-006Q

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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
LLS-1 15	Solar Thingz, Inc DBA LED Lighting Solutions, 42410 Winchester Road, Temecula, CA 92590 https://ledlighting-solutions.com/traffic-safety.html			
LED Border Lit Sign	30" Solar Powered Flashing LED Octagon Stop Sign (Product Code: CSTP001, MUTCD Code: R1-1)			2022-053Q
LED Border Lit Sign	36" Solar Powered Flashing LED Octagon Stop Sign (Product Code: CSTP036, MUTCD Code: R1-1)			2023-220Q
LED Border Lit Sign	W11-2 Pedestrian Crossing Sign - 30" Solar Flashing LED Crosswalk Traffic Safety Sign (CCRS002-030)			2023-170Q
LED Border Lit Sign	W2-1 Intersection Ahead Sign - 30" Solar Powered Flashing LED			2023-170Q
NATSG 15	National Signal, Inc., 2440 Artesia Avenue, Fullerton, CA 92833 http://www.nationalsignalinc.net/			
Blank-Out Sign	DLED	NSI-002P	10/22/2010	----
Blank-Out Sign	NuArt IIRS Series	NSI-001P	9/29/2009	----



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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
NATSS 15 National Sign & Signal Company, 301 South Armstrong Road, Battle Creek, MI 49037 http://www.nationalsc.com/				
Blank-Out Sign	48LEDRSA-PA	NSS-007P	3/9/2012	----
Blank-Out Sign	E-101-WW Series	NSS-003S	2/26/1976	----
Blank-Out Sign	E-101-WW-1	NSS-001S	12/6/1974	----
Blank-Out Sign	FO-BO	NSS-006S	10/6/1987	----
Blank-Out Sign	SF-107-2 Series	NSS-002S	12/18/1974	----
Fire Station Warning System	FIRE SIGN	NSS-004S	9/26/1977	----
Internally Illuminated Sign	FSF Series	NSS-008P	6/5/2012	----
Internally Illuminated Sign	XXLEDBLB-R	NSS-010P	4/27/2016	----
Internally Illuminated Sign	XXLEDBLB-W	NSS-009P	4/27/2016	----
ORANG 15 Orange Traffic, 18195 Rue J A Bombardier, Mirabel, Quebec J7J 0E7 https://www.orangetraffic.com/				
Blank-Out Sign	LED Blank Out Sign	OTR-001P	7/13/2018	2016-147Q
PATH- 15 Path Master, Inc., 1960 Midway Drive, P.O. Box 451, Twinsburg, OH 44087 https://www.pathmasterinc.com/				
School Zone Speed Limit Flashing Warning Sign	QFA Series	PHM-003P	11/15/2010	----
RADAR 15 Radarsign, LLC, 1220 Kennestone Circle, Suite 130, Marietta, GA 30066 https://www.radarsign.com/				
Speed Display Sign	TC-600S Full Matrix	RAA-001P	5/9/2019	2018-176Q
RTC-M 15 RTC Manufacturing Inc., 1016 Enterprise Plc, Arlington, TX 76001 http://www.rtc-traffic.com/				
Fire Station Warning System	FIRE	RTC-003P	8/27/1996	----
SIGNS 15 Signal Service Inc., 1020 Andrew Drive, West Chester, PA 19380 http://www.signalservice.com/				
School Zone Speed Limit Flashing Warning Sign	SWD-1	SSI-005S	1/9/1989	----
School Zone Speed Limit Flashing Warning Sign	SWD-1 LED	SSI-007P	10/4/2011	----



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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
SIGP2 15 Signal Control Products, Inc., 737 Hagey Center Drive, Unit B1, Souderton, PA 18964 http://www.signalcontrol.com/				
School Zone Speed Limit Flashing Warning Sign	School Speed Limit Sign	SCP-004P	2/17/2010	----
SOUMC 15 Southern Manufacturing Company, 2000 East Lake Mary Blvd, Sanford, FL 32773 http://southernmfg.com/				
Internally Illuminated Sign	FF-1.1	SMC-001P	2/14/1994	----
Internally Illuminated Sign	FF-1.1S680022120	SMC-002P	2/14/1994	----
SSD-1 15 Applied Concepts, Inc. dba Stalker Street Dynamics, 855 E. Collins Boulevard, Richardson, TX 75081 https://streetdynamics.com/				
Speed Display Sign	Stalker Street Dynamics PMG-12			2023-221Q
<i>Model PMG-12 is only approved for use when the strobing effects are disabled.</i>				
Speed Display Sign	Stalker Street Dynamics PMG-15			2023-177Q
<i>Model PMG-15 is only approved for use when the strobing effects are disabled.</i>				
Speed Display Sign	Stalker Street Dynamics PMG-18			2023-222Q
<i>Model PMG-18 is only approved for use when the strobing effects are disabled.</i>				
TLX-1 15 Traffic Logix, 3 Harriet Lane, Spring Valley, NY 10977 https://trafficlogix.com/				
Speed Display Sign	SafePace Evolution 12	TLX-001P	4/18/2019	2019-011
TRACP 15 Traffic Control Products, Inc., 4565 Glenbrook Road, Willoughby, OH 44094 http://www.traffcon.com/				
School Zone Speed Limit Flashing Warning Sign	3654PASOP	TCP-001P	1/18/2002	----
School Zone Speed Limit Flashing Warning Sign	SSA-PA-II	TCP-003P	7/8/2011	----



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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
TRAFF 15 TrafficCalm Systems, 5676 East Seltice Way, Post Falls, ID 83854 http://trafficalm.com/				
LED Border Lit Sign	TrafficCalm Flashing Sign Systems			2019-232Q
<i>Only approved for use on contracts let on or after October 8, 2021 (Pub 408/2020, Change No. 3).</i>				
Speed Display Sign	iQ1200 Driver Feedback Sign	TAC-001P	9/14/2018	2017-259Q
Speed Display Sign	iQ1500 Driver Feedback Sign	TAC-004P	11/2/2020	2019-231Q
Speed Display Sign	iQ1800 Driver Feedback Sign	TAC-005P	11/2/2020	2019-233Q
TRASI 15 Traffic Signs, Inc., 1499 East Michigan Avenue, Battle Creek, MI 49014 http://www.trafficsignsinc.com/Site/Home.html				
Blank-Out Sign	6000-FOBO	TSI-001P	5/22/2002	----
Blank-Out Sign	6000-LED BO	TSI-004P	10/5/2010	----
Internally Illuminated Sign	6000-CASE	TSI-002P	12/20/2002	----
Internally Illuminated Sign	6000-LED II	TSI-005P	10/5/2010	----
Internally Illuminated Sign	6000-SNS	TSI-003P	12/20/2002	----
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/				
Internally Illuminated Sign	JXM-STN	TRA-030P	11/23/2010	----
TRFPC 15 TAPCO - Traffic & Parking Control Co., Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/				
School Zone Speed Limit Flashing Warning Sign	Dual BlinkerBeacon School Zone System LED	TCO-003P	8/14/2018	2017-196Q
Warning Sign System	BlinkerBeacon LED Beacons	TCO-002P	4/10/2018	2017-237Q



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Section 1103: Traffic Signing and Marking

1103.03(g) to (n) Electrically Powered Traffic Signs

Last Revised: 1/12/2024

Product	Name	COA	COA Date	Ref. No.
WELSM 15 Wells Signs Inc., 109 Brothers Road, Woodland, WA 98674 https://wellssigns.com/				
Blank-Out Sign	BO	WEL-001P	10/10/1992	----
Internally Illuminated Sign	II	WEL-003P	10/10/1992	----

1103.03(o) Rectangular Rapid Flashing Beacon Assembly

Last Revised: 1/17/2024

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

For contracts let before October 8, 2021 (Pub 408/2020, Change No. 2 and earlier), see MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2 section.

Product	Name	COA	COA Date	Ref. No.
ATC-1 15 Aailed Technologies, 1581-H Hillside Avenue, Suite # 254, Victoria, BC V8T 2C1 Canada https://availedtechnologies.com/				
RRFB Assembly	AV-400 RRFB			2021-180Q
CARM2 15 Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 https://carmanah.com/				
Facility Polara Enterprises Greenville, TX				
RRFB Assembly	R920-MX			2023-172Q
CARMH 15 Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 https://carmanah.com/				
Facility Star Precision Houston, TX <i>Formerly Spot Devices, Inc. (SPODE 15)</i>				
RRFB Assembly	R920-E	CTC-008P	7/10/2020	2019-177Q
RRFB Assembly	SC315-G	CTC-009P	7/10/2020	2019-178Q
ITEM1 15 LaneLight Traffic Technologies, Inc., 16-17 755 Vanalman Avenue, Victoria, BC V8Z 3B8 https://lanelight.com/contact/				
RRFB Assembly	LaneLight RRFB	ITM-001P	11/3/2020	2020-170Q



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Section 1103: Traffic Signing and Marking

1103.03(o) Rectangular Rapid Flashing Beacon Assembly

Last Revised: 1/17/2024

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Product	Name	COA	COA Date	Ref. No.
RTC-M 15 RTC Manufacturing Inc., 1016 Enterprise Plc, Arlington, TX 76001 http://www.rtc-traffic.com/				
RRFB Assembly	Rectangular Rapid Flashing Beacon (503661DC)			2023-236Q
TAPCO 15 TAPCO - Traffic & Parking Control Company, Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/				
RRFB Assembly	RRFB-XL2	TCO-004X	1/27/2020	2018-272Q
TRAFF 15 TrafficCalm Systems, 5676 East Seltice Way, Post Falls, ID 83854 http://trafficalm.com/				
RRFB Assembly	Push 2 Cross	TAC-002P	7/7/2020	2019-251Q

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

All listed manufacturers are approved to make signs using prepared faces.

Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic.

Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

The Application for Certificate of Approval to manufacturer traffic signs for sale or use within the Commonwealth of Pennsylvania must be completed and submitted with Product Evaluation Applications for listing in Bulletin 15. [Sign Manufacturer Application for Certificate of Approval](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
3DS-1 15	3D Specialties, Inc., 1110 25th Avenue N, Fargo, ND 58102 Sign Manufacturer	PDT 2150-19	Cut Out Characters and Silk Screen		-
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/				
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000 Sign Manufacturer	PDT 110-68	Cut Out Characters and Silk Screen		-----
ACESI 15	Ace of Signs, 500 Airport Road, Selinsgrove, PA 17870 http://www.aceofsigns.com/ Sign Manufacturer	PDT 1870-04			-----
AMEFT 15	American Fiber Technologies, 500 Bostwick Avenue, Bridgeport, CT 06605 https://www.frpsigns.com/ Sign Manufacturer	PDT 2040-11		Only faces manufactured by 3M, PDT 110-68	-----



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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
ASSPR 15	Associated Products Company, 2 East Road, Mechanicsburg, PA 17050	http://www.associated-products.com/			
Sign Manufacturer		PDT 820-78	Cut Out Characters	Black on Orange Construction Series Only	----
ATLAS 15	Atlas Flasher & Supply Company, 2949 Felton Road, Norristown, PA 19401	http://www.atlasflasher.com/			
Sign Manufacturer		PDT 1100-84			----
BASSEC15	Bassler Equipment Co., Inc., 1300 Wyoming Avenue, Forty Fort, PA 18704	http://www.basslerequipment.com/			
Sign Manufacturer		PDT 2120-18	Cut Out Characters		----
BLAIR 15	Blair Excavating Company Inc., R. R. #5, Box 308A, Tyrone, PA 16686				
Sign Manufacturer		PDT 1400-91			----
BONE- 15	Bone Safety Signs, Inc., 2151 Northwest Parkway, S.E., Suite 100, Marietta, GA 30067	http://www.bonesafety.com/			
Sign Manufacturer		PDT 1320-89	Silk Screen		----
BRADC 15	Bradco Supply Company, 80 Old Mills Rd., Towanda, PA 18848	http://www.bradcosupplycompany.com/default.htm			
Sign Manufacturer		PDT 270-68	Cut Out Characters and Silk Screen		----



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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
CAMSC 15 Camsco Services, Inc., 255 Pennbriar Drive, Erie, PA 16509 https://camsco.com/public/home.html	Sign Manufacturer	PDT 1750-01	Cut Out Characters		----
CASSI 15 Cassidy Signs, 7 Cassidy Drive, Burgettstown, PA 15021	Sign Manufacturer	PDT 2050-11	Cut Out Characters		----
CENTS 15 Keystone Sign Systems DBA Central Sign Systems, 5215 Simpson Ferry Road, Mechanicsburg, PA 17050	Sign Manufacturer	PDT 1560-95	Cut Out Characters and Silk Screen		----
CLARS 15 Clarion Signs, 255 Whisner Road, Shippenville, PA 16254 http://www.clarionsafety.com/	Sign Manufacturer	PDT 1690-99			----
COMSG 15 Compusign & Graphic, 1295 Baltimore Pike, Toughkenamon, PA 19374-0271 http://compusign.com/	Sign Manufacturer	PDT 1820-03	Cut Out Characters and Silk Screen		----



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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
CORCG 15 Corson Custom Graphics, 53 Corson Lane, Canonsburg, PA 15317					
Sign Manufacturer		PDT 1850-04	Cut Out Characters and Silk Screen		----
CORRE 15 Correctional Industries Sign Shop, State Correctional Institute - Fayette, 50 Overlook Drive, Labelle, PA 15450					
Sign Manufacturer		PDT 1730-01	Cut Out Characters and Silk Screen		----
COSDS 15 C.O. Signs & Designs, Inc., 10125 Route 56, Box B, Homer City, PA 15748					
Sign Manufacturer		PDT 1770-02	Cut Out Characters and Silk Screen		----
CSIGNS15 Commonwealth Signs LLC, 135 Antler Drive, Canadensis, PA 18325 http://commonwealthsignsllc.com/					
Sign Manufacturer		PDT 2170-20	Cut Out Characters		----
CUSTP 15 Custom Products Corporation, P.O. Box 54091, Jackson, MS 39288-4091 http://www.customproducts.net/					
Sign Manufacturer		PDT 1790-02	Silk Screen		----



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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

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Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
D&DLE 15	D & D Leasing, LLC, 1621 Middle Road, Gibsonia, PA 15044				
Sign Manufacturer		PDT 1550-95	Cut Out Characters and Silk Screen		----
DAYCS 15	Dayton Computer & Sign, Inc., 107 N. School Street, Apt. 3, P. O. Box 616, Dayton, PA 16222				
Sign Manufacturer		PDT 1890-05	Cut Out Characters		----
DECAL 15	Decal Driven.com, Box 108, Walston, PA 15781				
Sign Manufacturer		PDT 1880-04	Cut Out Characters		----
DECKR 15	Decker Supply Company, Inc., 1115 O'Neill Avenue, Madison, WI 53704 http://deckersupply.com/				
Sign Manufacturer		PDT 1010-81	Cut Out Characters and Silk Screen		----
DICKE 15	Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/				
Sign Manufacturer		PDT 750-76	Silk Screen		----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

All listed manufacturers are approved to make signs using prepared faces.

Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic.

Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

The Application for Certificate of Approval to manufacturer traffic signs for sale or use within the Commonwealth of Pennsylvania must be completed and submitted with Product Evaluation Applications for listing in Bulletin 15. [Sign Manufacturer Application for Certificate of Approval](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
DONLN 15	Donlyn Company/Osburn Associates, Inc., P.O. Box 912, Logan, OH 43138				
	Sign Manufacturer	PDT 1760-01	Cut Out Characters and Silk Screen		----
DTRAF 15	Directional Traffic LLC, 1580 Gabler Road, Suite 103, Chambersburg, PA 17201				
Facility	1580 Gabler Road Suite 103 Chambersburg, PA 17201				
	Sign Manufacturer	PDT 2130-18	Cut Out Characters		----
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901				
	Sign Manufacturer	PDT 020-68	Cut Out Characters and Silk Screen		----
	Sign Manufacturer	PDT 021-75	Cut Out Characters and Silk Screen		----
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518				
	Sign Manufacturer	PDT 610-74	Silk Screen		----



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Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
ESTTC 15	Established Traffic Control, Inc., 3162 Unionville Pike, Hatfield, PA 19440				
Sign Manufacturer		PDT 1910-06	Cut Out Characters		----
FISTC 15	C. R. Fisher Traffic Control, LLC, 10176 Chapel Church Road, Red Lion, PA 17356				
Sign Manufacturer		PDT 1830-04			----
GARDS 15	National Highway Products, Inc., 301 Riverside Drive, Millville, NJ 08332 https://nationalhighway.com/ <i>Formerly Garden State Highway Products, Inc.</i>				
Sign Manufacturer		PDT 1300-88	Cut Out Characters and Silk Screen		----
GEMML 15	D.E. Gemmill, Inc., 10174 Chapel Church Road, Red Lion, PA 17356 http://degemmill.com/				
Sign Manufacturer		PDT 1720-01	Cut Out Characters		----
GRIFN 15	Griffin Sign Company, 464 North Randolph Ave., Cinnaminson, NJ 08077 http://www.griffinhighway.com/index.php				
Sign Manufacturer		PDT 680-75	Cut Out Characters and Silk Screen		----



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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
GRIMC 15	Grimco, Inc., 1585 Fencorp Drive, Fenton, MO 63026 http://www.grimco.com/				
	Sign Manufacturer	PDT 290-69	Silk Screen		----
HALLS 15	Hall Signs, Inc., 4495 West Vernel Pike, P.O. Box 515, Bloomington, IN 47402 http://store.hallsigns.com/				
	Sign Manufacturer	PDT 560-73			----
HIWSS 15	Hi-Way Safety Systems, Inc., 9 Rockview Way, Rockland, MA 02370 http://www.hiwayss.com/concrete5.4.2.2/index.php				
	Sign Manufacturer	PDT 1860-04	Cut Out Characters		----
IBITK 15	Penn Global Signs & Graphics, LLC, 496 Pittsburgh Road, Butler, PA 16002 Formerly Ibis Signs, LLC				
	Sign Manufacturer	PDT 2010-08	Silk Screen, Street Name Signs		----
IMAGE 15	Image Signs Inc., 1720 B. Margaret Ave., Altoona, PA 16601 http://imagesignsinc.com/				
	Sign Manufacturer	PDT 1460-93			----
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219 http://www.impactrecovery.com/				
	Sign Manufacturer	PDT 1810-03	Silk Screen		----



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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
INSHS 15	Interstate Highway Sign Company, 7415 Lindsey Road, Little Rock, AR 72206				
Sign Manufacturer		PDT 670-75	Cut Out Characters and Silk Screen		----
INTER 15	Interstate Logos, L.L.C., 6696 Exchequer Drive, Baton Rouge, LA 70809 http://www.interstatelogos.com/main/				
Sign Manufacturer		PDT 2110-17	Silk Screen		----
JLSCR 15	J. L. Screen Printing, Rt.#31, P.O. Box 324, Ruffs Dale, PA 15697 http://www.jlscreen.com/				
Sign Manufacturer		PDT 1140-84	Cut Out Characters and Silk Screen		----
KAGSW 15	KAG Signworks, 444 Saint Clair Ave., Clairton, PA 15025				
Sign Manufacturer		PDT 030-68	Cut Out Characters and Silk Screen		----
KEMGR 15	Kemmerer Graphics, 6169 Sullivan Trail, Nazareth, PA 18064				
Sign Manufacturer		PDT 2000-08	Cut Out Characters		----



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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
KORMN 15	Korman Signs, Inc., 3029 Lincoln Ave., Henrico, VA 23228	http://www.kormansigns.com/			
Sign Manufacturer		PDT 1050-82	Silk Screen		----
KRIEG 15	Daniel B. Krieg, Inc., 4200 Paxton Street, Harrisburg, PA 17111	http://www.dbkrieginc.com/			
Sign Manufacturer		PDT 1470-93	Cut Out Characters		----
LETIN 15	Letterco, Inc., 1069 County Line Road, Souderton, PA 18964	http://www.letterco.com/			
Sign Manufacturer		PDT 1220-86	Cut Out Characters		----
LIGH1 15	Lightle Enterprises of Ohio, LLC, P.O. Box 329, 22 East Springfield Street, Frankfort, OH 45628	http://www.lightleenterprisesohio.com/			
Sign Manufacturer		PDT 2100-17	Cut Out Characters, Silk Screen, Borders		----
LYLE- 15	Lyle Signs, Inc., 6294 Bury Drive, Eden Prairie, MN 55346	http://lylesigns.com/			
Sign Manufacturer		PDT 260-68	Cut Out Characters and Silk Screen		----



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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
MAISI 15	Main Stream Industries, Inc., 7340 Bernville Road, Bernville, PA 19506				
Sign Manufacturer		PDT 1840-04	Cut Out Characters		----
MARKE 15	Marketing Displays, Inc., 38271 West 12 Mile Road, Farmington, MI 48331				
Sign Manufacturer	https://www.mdiworldwide.com/	PDT 1160-85	Silk Screen	Flexible Retroreflective Signs Only	----
MCREEK15	Middle Creek Signs, 158 Rigel Lane, Beaver Springs, PA 17812				
Sign Manufacturer	https://middlecreeksigns.com/	PDT 2180-20		Prepared Sign Faces (Grimco PDT 290-69)	2020-156Q
	<i>Only approved to manufacturer signs made using prepared faces from Grimco (PDT 290-69).</i>				
MILLS 15	Miller Municipal Supply LLC, 1117 Snyder Road, West Lawn, PA 19609				
Sign Manufacturer	http://www.mmssigns.com/	PDT 1180-85	Cut Out Characters and Silk Screen		----



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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
MUNSS 15 Municipal Signs & Sales, 1219 McCloskey Road, Columbiana, OH 44408					
Sign Manufacturer		PDT 1130-84	Cut Out Characters and Silk Screen		-----
NATSC 15 National Sign Company, Inc., P. O. Box 25, Ottawa, KS 66067					
Sign Manufacturer		PDT 940-80	Cut Out Characters and Silk Screen		-----
NEWMA 15 Newman Signs, Inc., Business Loop West, P. O. Box 1728, Jamestown, ND 58401 http://www.newmansigns.com/					
Sign Manufacturer		PDT 930-80	Cut Out Characters and Silk Screen		-----
NISSL 15 Andrew W. Nissly, Inc., 544 W. Mill Avenue, P.O. Box 633, Lancaster, PA 17608					
Sign Manufacturer		PDT 230-68	Cut Out Characters and Silk Screen		-----



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Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
OSBAI 15	Osburn Associates Inc., 11931 St Rt 93 N, P.O. Box 912, Logan, OH 43138 Sign Manufacturer	http://www.osburns.com/ PDT 1760-01	Cut Out Characters and Silk Screen		----
PADER 15	Penn Nursery @ Wood Shop, DCNR Bureau Of Forestry, 137 Penn Nursery Road, Spring Mills, PA 16875 Sign Manufacturer	http://dcnr.state.pa.us/forestry/stateforests/pennnursery/index.htm PDT 1150-85	Cut Out Characters and Silk Screen		----
PALMR 15	Palmer Products Imaging, 2808 Broadway Blvd., Monroeville, PA 15146 Sign Manufacturer	https://palmerproductsimaging.com/ PDT 500-72	Silk Screen		----
PEXCO 15 Plant	PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079 3110 70th Avenue East Tacoma, WA 98424 Sign Manufacturer	http://www.pexco.com/traffic PDT 1780-02		Yield to Pedestrian Signs and Barricade Rails Only	----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
POCDW 15 Pocono Digital Woodshop, 105 Marion Ct., Shohola, PA 18458					
Sign Manufacturer		PDT 1990-08			----
	<i>May manufacture and sell only signs made using prepared faces from Grimco Inc., PDT 290-69.</i>				
POWCC 15 Power Contracting Company, 61 Arch Street Ext., Suite 201, Carnegie, PA 15106					
Sign Manufacturer		PDT 2020-09	Cut Out Characters		----
POWEL 15 Powell Engineering Contractors Inc., P. O. Box 4100, Reading, PA 19606					
Sign Manufacturer		PDT 1420-92			----
PPCS1 15 PowerPak Civil & Safety LLC, 225 North Route 303, Unit 108, Congers, NY 10920					
Sign Manufacturer		PDT 2210-22	Silk Screen		2021-057Q
PROTE 15 Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
Sign Manufacturer		PDT 060-68	Cut Out Characters and Silk Screen		----
PSU-1 15 Penn State University, 101M Physical Plant, University Park, PA 16802					
Sign Manufacturer		PDT 2160-19		Penn State Football Signs Only	----



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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
RAELY 15 Rae-Lyn Enterprises, Inc., P.O. Box 50, Spring Church, PA 15686 http://www.raelynenterprises.com/ Sign Manufacturer		PDT 1900-05	Cut Out Characters and Silk Screen		----
RAPGM 15 Gregory M. Rapp, 326 E. Broad St. Apt. 1R, Bethlehem, PA 18018 Sign Manufacturer		PDT 1970-08	Cut Out Characters		----
RAPSI 15 Rapp Signs, Inc, 3979 Ny Route 206, Greene, NY 13778 http://rappsigns.com/ Sign Manufacturer <i>May manufacture and sell only signs made using prepared faces from Eastern Metal of Elmira Inc., PDT 021-75.</i>		PDT 2030-09			----
REIDL 15 Reidler Decal Corporation, 264 Industrial Park Road, St. Clair, PA 17970 http://www.reidlerdecal.com/ Sign Manufacturer Sign Manufacturer		PDT 340-69 PDT 349-75	Silk Screen Silk Screen		---- ----
RELSS 15 Reliable Sign & Striping Inc., 354 W. Moorestown Road, Nazareth, PA 18064 http://www.reliable-sign.com/ Sign Manufacturer		PDT 1650-97	Cut Out Characters and Silk Screen		----



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ROCAL 15	Rocal, Inc., 3186 CR 550, Frankfort, OH 45628				
	http://www.rocal.com/				
	Sign Manufacturer	PDT 1030-82	Cut Out Characters and Silk Screen		----
RPMSL 15	RPM Signs and Lighting, 631 South 17th Street, Harrisburg, PA 17104				
	http://rpmsignsandlighting.com/				
	Sign Manufacturer	PDT 2080-17	Cut Out Characters		----
RSTS1 15	RoadSafe Traffic Systems, 8750 W Bryn Mawr Avenue, Chicago, IL 60631				
Facility	55 Bodwell Street Avon, MA 02322				
	Sign Manufacturer	PDT 2090-17	Cut Out Characters, Silk Screen, Borders		----
RSTS2 15	RoadSafe Traffic Systems, 8750 W Bryn Mawr Avenue, Chicago, IL 60631				
Facility	1740 Internationale Parkway Woodridge, IL 60517				
	Sign Manufacturer	PDT 2220-23	Cut Out Characters, Silk Screen, Borders		2023-109Q



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S&SSS 15	S & S Signs And Safety Equipment, Inc., P. O. Box 102, Big Flats, NY 14814	http://signssafety.com/			
Sign Manufacturer		PDT 1530-95	Cut Out Characters and Silk Screen	Flexible Material, C-II and Non-Reflective	----
SAFSG 15	Safety Sign Company, P. O. Box 360500, Cleveland, OH 44136	http://safetysignco.com/			
Sign Manufacturer		PDT 1060-82	Cut Out Characters and Silk Screen		----
SAFTS 15	Signs Plus of Kanona, Inc., 7964 N.Y.S. Rt. 53, Bath, NY 14810	http://signsplusofkanona.com/			
Sign Manufacturer		PDT 1380-91	Cut Out Characters, Silk Screen, Borders		----
SHANN 15	Shannon-Baum Signs, Inc., 105 Competitive Goals Drive, Eldersburg, MD 21784	http://www.shannonbaum.com/			
Sign Manufacturer		PDT 950-80	Cut Out Characters and Silk Screen		----



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SHASG 15	Sharp Signs & Graphics, 202 S. 6th Street, Emmaus, PA 18049	http://sharpsng.com/			
Sign Manufacturer		PDT 2060-12	Cut Out Characters		----
SI&BL 15	Signs & Blanks, Inc., P.O. Box 2234, Cleveland, OH 44309-2234				
Sign Manufacturer		PDT 1520-95	Cut Out Characters and Silk Screen		----
SIGUC 15	Sign-Up Corporation, P. O. Box 14624, Portland, OR 97293	http://signupcorp.com/moved.asp			
Sign Manufacturer		PDT 1370-91	Silk Screen	Flexible Roll-up Type	----
STRBK 15	Strongstown's B&K Enterprises, Inc., 260 Route 403 South, P. O. Box 124, Strongstown, PA 15957				
Sign Manufacturer		PDT 1040-82	Cut Out Characters and Silk Screen		----
SULCO 15	Sullivan County COG, P.O. Box 239, Dushore, PA 18614	http://sullivancountycog.com/			
Sign Manufacturer		PDT 1980-08	Cut Out Characters	Street Name Signs D 3-1	----



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T&W-T 15	T & W Traffic Control, 1505 Rohrerstown Road, Lancaster, PA 17601	http://www.twtrafficcontrol.com/			
	Sign Manufacturer	PDT 1280-88	Cut Out Characters and Silk Screen		----
TAPCO 15	TAPCO - Traffic & Parking Control Company, Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223	http://www.tapconet.com/			
	Sign Manufacturer	PDT 1940-07	Silk Screen		----
TCI-1 15	Traffic Control Industries, LLC, 805 W 5th Street, Unit 15, Lansdale, PA 19446				
	Sign Manufacturer	PDT 2140-18	Cut Out Characters		----
TES-1 15	Traffic Engineering Services DE, LLC, 312 Sumner Avenue, Allentown, PA 18102	https://www.go-tes.com/			
	<i>Formerly Traffic Engineering Services, LLC</i> Sign Manufacturer	PDT 2230-23	Cut Out Characters and Silk Screen		2023-169Q
TRFSS 15	Traffic & Safety Signs, Inc., 703 Terminal Way, Kennett Square, PA 19348				
	Sign Manufacturer	PDT 1230-86	Cut Out Characters and Silk Screen		----



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Posted:
4/22/2024 8:29:36AM

Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

All listed manufacturers are approved to make signs using prepared faces.

Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic.

Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

The Application for Certificate of Approval to manufacturer traffic signs for sale or use within the Commonwealth of Pennsylvania must be completed and submitted with Product Evaluation Applications for listing in Bulletin 15. [Sign Manufacturer Application for Certificate of Approval](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
TRFXD 15	TraFFix Devices, Inc., 160 Avenida La Pata, San Clemente, CA 92673	http://www.traffixdevices.com/			
	Sign Manufacturer	PDT 1390-91	Silk Screen		----
TRREG 15	Traffic Regulators, LLC, 7 Regulators Lane, Suite 1, Avoca, PA 18641-1749				
	Sign Manufacturer	PDT 2070-16	Cut Out Characters		----
TRSSR 15	Traffic Services Sales & Rentals, Inc., 1128 North Graham Street, Allentown, PA 18109	http://trafficservicessalesandrental.com/			
	Sign Manufacturer	PDT 850-79	Cut Out Characters and Silk Screen		----
TSIGN 15	Treasure Sign, 15 Park Avenue, Willow Grove, PA 19090	http://www.treasuresign.com/			
	Sign Manufacturer	PDT 2190-21		Only faces manufactured by Garden State Highway Products, PDT 1300-88	2021-110Q



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Section 1103: Traffic Signing and Marking

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Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

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Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 <i>Formerly PIBH- 15</i> Sign Manufacturer	https://www.uniquesource.com/ PDT 1300-89	Cut Out Characters and Silk Screen		----
USMUS 15	U. S. Municipal Supply, Inc., 10583 Raystown Road, Huntingdon, PA 16652 Sign Manufacturer	http://store.usmuni.com/ PDT 210-68	Cut Out Characters and Silk Screen		----
USSSC 15	U. S. Standard Sign Company, 11400 West Addison St., Franklin Park, IL 60131 Sign Manufacturer	http://www.usstandardsign.com/index.html PDT 770-76	Cut Out Characters and Silk Screen		----
VICSI 15	Victory Signs, 119 Fire Academy Road, Homer City, PA 15748 Sign Manufacturer	PDT 1950-07	Cut Out Characters and Silk Screen		----



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Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

The Application for Certificate of Approval to manufacturer traffic signs for sale or use within the Commonwealth of Pennsylvania must be completed and submitted with Product Evaluation Applications for listing in Bulletin 15. [Sign Manufacturer Application for Certificate of Approval](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
VINGU 15	Vinyl Graphics Unlimited, 9912 Route 322, Shippenville, PA 16254				
Sign Manufacturer		PDT 1700-00	Cut Out Characters		----
VITSI 15	Vital Signs, 1915 Park Manor Blvd., Pittsburgh, PA 15205 http://www.vitalsigns.us.com/				
Sign Manufacturer		PDT 1960-07	Cut Out Characters and Silk Screen		----
VULSS 15	Vulcan Signs, 408 E. Berry Avenue, P. O. Box 1850, Foley, AL 36536-1850 http://www.vulcaninc.com/?p=vulcan_signs				
Sign Manufacturer		PDT 570-73	Cut Out Characters and Silk Screen		----
WALSH 15	Stephenson Equipment, Inc., 796 Unionville Rd., Prospect, PA 16052				
<i>Formerly Walsh Equipment, Inc.</i>					
Sign Manufacturer		PDT 460-70	Cut Out Characters		----



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Section 1103: Traffic Signing and Marking

1103.04 Flat Sheet Signs (Post Mounted Types B, C and F; and Distance Markers)

Last Revised: 9/22/2023

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Signs shall be manufactured from aluminum sign blanks in accordance with Publication 236 and appropriate specs., unless otherwise indicated. Other Department approved substrates include, but are not limited to: plywood, fiberglass, steel, and plastic.

Plywood substrate shall be indicated with a (P). Fiberglass substrate shall be indicated with a (F). [Publication 236 "Handbook of Approved Signs"](#)

Specification for Sign Blanks: [Publication 306, Specifications for Sign Blanks](#)

The Application for Certificate of Approval to manufacturer traffic signs for sale or use within the Commonwealth of Pennsylvania must be completed and submitted with Product Evaluation Applications for listing in Bulletin 15. [Sign Manufacturer Application for Certificate of Approval](#)

Product	Name	COA	Sign Special Approvals	Sign Manufacturer Restrictions	Ref. No.
WEIGL 15	H. A. Weigand, Inc., 1409 State Road, Phoenixville, PA 19460	http://weigandsigns.com/			
Sign Manufacturer		PDT 740-76	Cut Out Characters and Silk Screen		----
WHELA 15	J.S. Whelan Co., Inc., 13810 Route 30, North Huntingdon, PA 15642				
Sign Manufacturer		PDT 400-70	Cut Out Characters and Silk Screen		----
WKZSS 15	Work Zone Safety Specialists Inc., 1764 Columbia Turnpike, Castleton, NY 12033				
Sign Manufacturer		PDT 1740-01	Cut Out Characters		----
WZC-1 15	Work Zone Contractors LLC, 664 Oak Avenue, Deptford, NJ 08096				
Sign Manufacturer		PDT 2200-21	Cut Out Characters and Silk Screen		2021-033Q

1103.07(a) Steel S or W Beam Posts (For Post Mounted Signs, Type A)



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Section 1103: Traffic Signing and Marking

1103.07(a) Steel S or W Beam Posts (For Post Mounted Signs, Type A)

Mill Certification meeting the standard or contract specifications is required. No listings are required in Bulletin 15.

Steel Products Procurement Act Applies.

1103.07(b) Breakaway Systems (For Post Mounted Signs, Type A)

Last Revised: 4/6/2015

Steel Products Procurement Act Applies.

Product	Name	COA	Ref. No.
TRASA 15 Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801 http://www.transpo.com/			
Breakaway System (For Post Mount Sign, Type A)	Type I		----

1103.08(a) Steel Channel Bar Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 6/13/2016

Steel Products Procurement Act Applies. [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Post Size	Posts Per 7'	Breakaway System	Ref. No.
CHISA 15 Chicago Heights Steel, 211 E. Main Street, Chicago Heights, IL 60411 http://chs.com/						
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-4	4 lb/ft (5.94kg/m) or less	3	Bracer Bar System	----
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-4	4 lb/ft (5.94kg/m) or less	2	Erect Ease System	----
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-4	4 lb/ft (5.94kg/m) or less	3	Universal Spacer	----
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-4	1.12 lb/ft (1.66kg/m)		Multiple Sign Mounting Stringers	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1103: Traffic Signing and Marking

1103.08(a) Steel Channel Bar Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 6/13/2016

Steel Products Procurement Act Applies. [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Post Size	Posts Per 7'	Breakaway System	Ref. No.
FRANK 15	Franklin Industries, 645 Atlantic Ave., Franklin, PA 16323	http://store.franklinindustriescos.com/				
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-3	4 lb/ft (5.94kg/m) or less	2	EZE-Erect System	----
<i>Must match the same configuration as tested and approved by FHWA, as shown in Publication 111. Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>						
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-3	4 lb/ft (5.94kg/m) or less	3	Base Bolted System	----
<i>Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>						
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-3	4 lb/ft (5.94kg/m) or less	3	Universal Spacer	----
<i>Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>						
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-3	1.12 lb/ft (1.66kg/m)		Multiple Sign Mounting Stringers	----
<i>Approved to manufacture steel channel bar posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel' box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>						



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Section 1103: Traffic Signing and Marking

1103.08(a) Steel Channel Bar Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 6/13/2016

Steel Products Procurement Act Applies. [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Post Size	Posts Per 7'	Breakaway System	Ref. No.
NUCR6 15 Nucor Steel Marion, Inc., 912 Cheney Ave., Marion, OH 43302 http://www.nucor.com/						
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-1	1.12 lb/ft (1.66kg/m) or less		Multiple Sign Mounting Stringers	----
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-1	3 lb/ft (4.46kg/m) or less	1	Minute Man System	1992-153
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-1	4 lb/ft (5.94kg/m) or less	3	Lap Splice System	1992-153
Steel Channel Bar Post (For Post Mount Sign, Type B)		SP-1	4 lb/ft (5.94kg/m) or less	3	Universal Spacer	1992-153

1103.08(b) Steel Square Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 7/9/2015

Steel Products Procurement Act Applies. Standard Drawing TC-8702B (Publication 111) [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Gauge	Size (in)	Ref. No.
ALLTC 15 Allied Tube & Conduit Corporation, 16100 South Lathrop Ave., Harvey, IL 60426 http://www.alliedeg.us/					
Steel Square Posts (For Post Mount Sign, Type B)	18" Sleeve		12 ga (33 ksi)	2", 2.25", 2.5"	1994-136B
Steel Square Posts (For Post Mount Sign, Type B)	18" Sleeve		3/16" (33 ksi)	3"	1994-136B
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	18" Sleeve		12 ga (60 ksi)	2", 2.25", 2.5"	1994-136B
Steel Square Posts (For Post Mount Sign, Type B)	36" Anchor Post		12 ga (33 ksi)	1.75", 2", 2.25", 2.5"	1994-136B
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	36" Anchor Post		3/16" (33 ksi)	3"	1994-136B



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Section 1103: Traffic Signing and Marking

1103.08(b) Steel Square Posts (For Post Mounted Signs, Type B; and Distance Markers)

Last Revised: 7/9/2015

Steel Products Procurement Act Applies. Standard Drawing TC-8702B (Publication 111) [Publication 111 "Traffic Control-Pavement Markings and Signing Standards"](#)

Product	Name	COA	Gauge	Size (in)	Ref. No.
ALLTC 15 Allied Tube & Conduit Corporation, 16100 South Lathrop Ave., Harvey, IL 60426 http://www.alliedeg.us/					
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	36" Anchor Post		12 ga (60 ksi)	1.75", 2", 2.25"	1994-136B
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		12 ga (33 ksi)	1.5", 1.75", 2", 2.25"	1994-136A
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		10 ga (33 ksi)	2.5"	1994-136A
<i>Use 18" anchor stiffener sleeves with each Department-installed post system. No dual post approval.</i>					
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		14 ga (60 ksi)	1.5", 1.75", 2"	1994-136A
STLSP 15 St. Louis Steel Products, Inc., 191 Rock Industrial Park Drive, St. Louis, MO 63044-1210					
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		12 ga	1.75", 2", 2.25"	1999-153Q
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts		14 ga	1.75"	1999-153Q
WESTH 15 Ultimate Highway Solutions, 11095 West Olive Road, Grand Haven, MI 49417 http://www.uhsolutions.net/					
Steel Square Posts (For Post Mount Sign, Type B)	Anchor Post	SP-5	12 ga (50 ksi)	2", 2.25", 2.5"	1997-054
Steel Square Posts (For Post Mount Sign, Type B)	Sign Posts	SP-5	14 ga (60 ksi)	1.75", 2", 2.25"	1997-054
Steel Square Posts (For Post Mount Sign, Type B)	Sleeve	SP-5	12 ga (50 ksi)	2.25", 2.5"	1997-054
<i>Anchor sleeve is required only for concrete installation.</i>					



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Section 1103: Traffic Signing and Marking

1103.09(a) Treated Wood Posts (For Post Mount Signs, Types C and E)

Last Revised: 9/29/2015

Product	Name	COA	Ref. No.
AMETS 15 Treated Wood Post (For Post Mount Sign, Type C and E)	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/		1999-136Q
GRE-1 15 Plant Treated Wood Post (For Post Mount Sign, Type C and E)	Great Southern Wood Preserving, P. O. Box 610, Abbeville, AL 36310 Hagerstown, MD http://greatsouthernwood.com/		2011-162Q
WOOPI 15 Treated Wood Post (For Post Mount Sign, Type C and E)	Stella-Jones Corporation, 15939 Historyland Highway, P.O. Box 158, Warsaw, VA 22572 <i>Formerly McFarland Cascade Holdings, Inc.</i> http://www.woodpreservers.com/		2009-127Q

1103.12 Sign and Distance Marker Supports

Last Revised: 1/5/2017

Product	Name	Ref. No.
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1103.14 Reflective Glass Beads (For Pavement Markings)

Last Revised: 2/11/2016

Product	Name	COA	Bead Type	Ref. No.
POTT1 15 Plant Type A, Reflective Glass Bead Type C, Reflective Glass Bead	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 Cleveland, OH Visibeads	https://www.pqcorp.com/our-markets/highway-safety-and-construction		----- 1994-084
POTT2 15 Plant Type A, Reflective Glass Bead Type C, Reflective Glass Bead	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 Potsdam, NY Visibeads	https://www.pqcorp.com/our-markets/highway-safety-and-construction		----- 1994-084



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Section 1103: Traffic Signing and Marking

1103.14 Reflective Glass Beads (For Pavement Markings)

Last Revised: 2/11/2016

Product	Name	COA	Bead Type	Ref. No.
POTT3 15	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction Plant Apex, NC Type A, Reflective Glass Bead			1990-079
POTT4 15	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction Plant Malvern, PA Type C, Reflective Glass Bead	Visibeads		1994-084
POTT5 15	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction Plant Muscatine, IA <i>Formerly Flex-O-Lite (FLEX1 15)</i> Type A, Reflective Glass Bead			1995-146
POTT6 15	Potters Industries, LLC, Customer Service Division, P.O. Box 841, Valley Forge, PA 19482-0840 https://www.pqcorp.com/our-markets/highway-safety-and-construction Plant Paris, TX <i>Formerly Flex-O-Lite (FLEX2 15)</i> Type A, Reflective Glass Bead			1995-146
SWAR0 15	Swarco Reflex LLC, 900 N. Denton, Mexia, TX 76667 https://www.swarco.com/northamerica Type B, Reflective Glass Bead	Megalux	GB-01	2005-016Q
SWAR1 15	Swarco Industries LLC, 270 Rutherford Lane, P.O. Box 89, Columbia, TN 38402 https://www.swarco.com/northamerica Type A, Reflective Glass Bead Type B, Reflective Glass Bead Type E, Reflective Glass Bead	Megalux Utah Blend	GB-01 GB-01	2004-110Q Type B 2005-016Q 2012-185Q



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Section 1104: Traffic Signals

1104.02 Traffic Signal Supports (Steel)

Last Revised: 10/1/2021

Steel Products Procurement Act applies. [Publication 148 Traffic Standards - Signals \(TC-8800 Series\)](#)

Product	Name	COA	Ref. No.
MAICO 15 Maico Industries, Inc, 936 Highway 14, P.O. Box 24, Ellsworth, KS 67439 Traffic Signal Support Fabricator	http://www.maicoind.com/		2021-171Q
STRUS 15 Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 Traffic Signal Support Fabricator			2016-244
UMIC1 15 Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Traffic Signal Support Fabricator			2018-177Q
VALM1 15 Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 Plant Valley, NE 68064 Traffic Signal Support Fabricator	http://www.valmont.com/		----
VALM5 15 Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154-5215 Plant 2551 Valmont Drive Brenham, TX 77833 Traffic Signal Support Fabricator	http://www.valmont.com/		----

1104.02(c) Pedestal Supports

Last Revised: 8/31/2021

Product	Name	COA	Ref. No.
PELC- 15 Pelco Products, Inc., 320 S.W. 18th Street, Edmond, OK 73013 Aluminum Pedestal Support	http://www.pelcoinc.com/ PB-5334 Square Aluminum Pedestal Base (Aluminum Access Door)		2021-048Q
Aluminum Pedestal Support	PB-5335 Square Aluminum Pedestal Base (Plastic Access Door)		2021-140Q

1104.02(e) Traffic Signal Anchor Bolts, Hex Nuts, and Washers

Last Revised: 7/16/2015



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Section 1104: Traffic Signals

1104.02(e) Traffic Signal Anchor Bolts, Hex Nuts, and Washers

Last Revised: 7/16/2015

Refer to [Hardware Manufacturing Symbols](#)

Product	Name	COA	Ref. No.
AMBBO 15 Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 http://www.ameribolt.com/ Anchor Bolts	A-449		2012-150QA
ATLRC 15 Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/ Anchor Bolts	A-449		2011-088Q
BBC-F 15 BBC Fastners, Inc., 4210 Shirley Lane, Alsip, IL 60803 http://www.bbcfasteners.com/ Anchor Bolts, Hex Nuts and Washers	A-449		1989-238
BIRFM 15 Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 Galvanized Anchor Bolts	A-449 Bolts		2015-033Q
DECKM 15 Decker Manufacturing Corporation, 703 North Clark Street, Albion, MI 49224 http://www.deckernut.com/ Anchor Bolts, Hex Nuts and Washers	A-563, Grade C Hex Nut		1989-094
FOUND 15 Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 http://fsabolt.com/ Galvanized Anchor Bolts	A-449		1990-385C
GAFBC 15 Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 http://gaffneybolt.com/ Anchor Bolts	A-449		2003-008Q
HAYDN 15 Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/ Galvanized Anchor Bolts	A-449		1990-039
HERBC 15 Hercules Bolt Company, 1010 River Bluff Drive, Madison, TN 37115 http://herculesbolt.com/ Galvanized Anchor Bolts	A-449		1998-198
JHBTS 15 J. H. Botts, Inc., 253 East Bruce St., Joliet, IL 60432 http://www.jhbotts.com/products.htm Galvanized Anchor Bolts	A-449		2001-059Q



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Section 1104: Traffic Signals

1104.02(e) Traffic Signal Anchor Bolts, Hex Nuts, and Washers

Last Revised: 7/16/2015

Refer to [Hardware Manufacturing Symbols](#)

Product	Name	COA	Ref. No.
PORBM 15 Portland Bolt and Manufacturing, Inc., 3441 NW Guam Street, P.O. Box 2866, Portland, OR 97210 http://www.portlandbolt.com/			
Galvanized Anchor Bolts	A-449		2008-112Q
SOEBS 15 Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 http://www.sebolt.com/			
Galvanized Anchor Bolts	A-449		1991-058
UNIQU 15 Unique Industries, P.O. Box 683, Calera, AL 35040 http://www.uiind.com/ Plant 13488 Highway 25 North Calera, AL 35040			
Anchor Bolts	A-449		1990-145

1104.03(a)4 Traffic Signal Flashers

Last Revised: 9/22/2021

Product	Name	COA	COA Date	Ref. No.
EBERL 15 Eberle Design Inc., 3510 E Atlanta Avenue, Phoenix, AZ 85040 http://www.editraffic.com/				
Traffic Signal Flasher	810 Series	EBD-001S	10/6/1987	----
ELECT 15 Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/				
Traffic Signal Flasher	FS-2	ECH-026P	2/17/2012	----
GENTR 15 General Traffic Equipment Corporation, 259 Broadway, Newburgh, NY 12550 http://www.generaltrafficequip.com/				
Traffic Signal Flasher	SSRF Series	GTE-003P	4/9/1991	----
PDC- 15 PDC, 210 Estates Drive, Suite 110, Roseville, CA 95678				
Traffic Signal Flasher	PDC SSF-86	PDC-005S	1/9/1989	----
RENOA 15 Reno A & E, Eberle Design Inc., 3510 E Atlanta Avenue, Phoenix, AZ 85040 https://www.editraffic.com/ Facility 4655 Aircenter Circle Reno, NV 89502				
Traffic Signal Flasher	FL-200	RAE-020P	5/5/2004	----



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Section 1104: Traffic Signals

1104.03(a)4 Traffic Signal Flashers

Last Revised: 9/22/2021

Product	Name	COA	COA Date	Ref. No.
TRAPA 15 Traffic Parts, Inc., P. O. Box 837, Spring, TX 77383 http://www.trafficparts.com/				
Facility Chapel Hill Manufacturing 27895 Robinson Road Conroe, TX 77385				
Traffic Signal Flasher	Model 150	TPI-005P	11/23/2010	----
Traffic Signal Flasher	Model 158	TPI-006P	11/23/2010	----
Traffic Signal Flasher	Model 159	TPI-007P	11/23/2010	----
Traffic Signal Flasher	Model 572	TPI-008P	11/23/2010	----

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-1

Last Revised: 9/2/2021

Product	Name	COA	COA Date	Ref. No.
INTLI 15 Q-Free America | Intelight, 1420 Kristina Way, Suite 102, Chesapeake, VA 23320 http://www.inteligh-its.com/				
Facility 3450 S. Broadmont Drive Suite 126 Tucson, AZ 85713				
NEMA TS-1 Signal Controller	X-1	INT-004P	9/24/2013	----
NEMA TS-1 Signal Controller	X-1L	INT-003P	9/24/2013	----
NEMA TS-1 Signal Controller	X-2	INT-005P	9/24/2013	----
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain				
NEMA TS-1 Signal Controller	ATC eX	MCC-018P	8/26/2014	-
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
NEMA TS-1 Signal Controller	980	TFW-003P (NAZ-011P	4/13/2016	----
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ Formerly known as Peek Traffic				
NEMA TS-1 Signal Controller	3000 E Series	PTS-022P	3/21/1994	----
NEMA TS-1 Signal Controller	LMD-9200 Series	PTS-040P	5/15/1995	----



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Section 1104: Traffic Signals

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-2

Last Revised: 10/1/2021

Product	Name	Controller Type	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/					
NEMA TS-2 Signal Controller	Cobalt	Types 1 and 2	ECO-127P	4/15/2015	----
NEMA TS-2 Signal Controller	Cobalt C	Types 1 and 2	ECO-128P	10/3/2017	2016-229Q
NEMA TS-2 Signal Controller	Rackmount C	Types 1 and 2	ECO-129P	10/3/2017	2016-230
INTLI 15 Q-Free America | Intelight, 1420 Kristina Way, Suite 102, Chesapeake, VA 23320 http://www.inteligh-its.com/					
Facility	3450 S. Broadmont Drive Suite 126 Tucson, AZ 85713				
NEMA TS-2 Signal Controller	2070 LDX	Types 1 and 2	INT-013P	7/7/2017	2016-263
NEMA TS-2 Signal Controller	2070LC	Types 1 and 2	INT-012P	7/7/2017	2016-259
NEMA TS-2 Signal Controller	X-1	Types 1 and 2	INT-004P	9/24/2013	----
NEMA TS-2 Signal Controller	X-1L	Types 1 and 2	INT-003P	9/24/2013	----
NEMA TS-2 Signal Controller	X-2	Types 1 and 2	INT-005P	9/24/2013	----
NEMA TS-2 Signal Controller	X3C	Types 1 and 2	INT-009P	7/7/2017	2016-262
NEMA TS-2 Signal Controller	X3L	Types 1 and 2	INT-010P	7/7/2017	2016-261
NEMA TS-2 Signal Controller	X3LT	Types 1 and 2	INT-011P	7/7/2017	2016-222
NEMA TS-2 Signal Controller	XN-1	Type 1			2021-102Q
NEMA TS-2 Signal Controller	XN-2	Type 2			2021-103Q
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain					
NEMA TS-2 Signal Controller	ATC eX	Types 1 and 2	MCC-018P	8/26/2014	-
NEMA TS-2 Signal Controller	FLex ATC	Types 1 and 2	MCC-019P	5/22/2020	2019-171Q



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Section 1104: Traffic Signals

1104.03(b)1 Traffic Signal Controller Assembly: NEMA TS-2

Last Revised: 10/1/2021

Product	Name	Controller Type	COA	COA Date	Ref. No.
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ <i>(Merger with Naztec, Inc.)</i>					
NEMA TS-2 Signal Controller	2070 LX Controller Assembly	Types 1 and 2	TFW-019P	2/28/2020	----
NEMA TS-2 Signal Controller	980	Types 1 and 2	TFW-003P (NAZ)	4/29/1997	----
NEMA TS-2 Signal Controller	980 ATC	Types 1 and 2	TFW-011P	5/6/2016	-
NEMA TS-2 Signal Controller	981	Types 1 and 2	TFW-004P (NAZ)	4/13/2016	----
NEMA TS-2 Signal Controller	ATC Controller	Types 1 and 2	TFW-013P	8/14/2018	----
NEMA TS-2 Signal Controller	Commander Rack Mount ATC	Types 1 and 2	TFW-016P	4/28/2021	2020-149Q
NEMA TS-2 Signal Controller	Commander Shelf Mount ATC	Types 1 and 2	TFW-015P	4/21/2020	2019-224Q
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ <i>Formerly known as Peek Traffic</i>					
NEMA TS-2 Signal Controller	ATC-1000	Type 2	PTS-042P	7/11/2011	----
SIEME 15 Yunex Traffic, a Siemens Business, 9225 Bee Cave Road, Suite 101, Austin, TX 78733 https://www.yunextraffic.com/global/en/ <i>Formerly Siemens ITS</i>					
NEMA TS-2 Signal Controller	m60 Series ATC	Types 1 and 2	SMS-231P	6/25/2016	----

1104.03(b)2 Traffic Signal Controller Assembly: Type 170E

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
DYNTS 15 Dynamic Traffic Systems, Inc., 5050 Cohasset Road, Bldg. #4, Chico, CA 95973 http://dts-i.net/				
Type 170E Signal Controller	170E	DTS-001P	4/26/2013	----
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain				
Type 170E Signal Controller	170E	MCC-013S	5/16/1995	----



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Section 1104: Traffic Signals

1104.03(b)2 Traffic Signal Controller Assembly: Type 170E

Last Revised: 6/10/2015

Product	Name	COA	COA Date	Ref. No.
SAFET 15 Safetran Traffic Systems, 1485 Garden Of The God's Road, Colorado Springs, CO 80904 http://safetran-traffic.com/				
Type 170E Signal Controller	170E	STS-059P	10/14/2010	----

1104.03(c)5 Traffic Signal Time Clock

Last Revised: 10/4/2021

Product	Name	COA	COA Date	Ref. No.
AINFO 15 Applied Information, Inc., 4411 Suwanee Dam Road, Suite 510, Suwanee, GA 30024 https://appinfoinc.com/				
Time Signal Time Clock	AI-500-070	AEA-001P	6/17/2019	2018-225Q
ELECT 15 Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/				
Time Signal Time Clock	TC-18	EHC-027P	6/25/2013	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
Time Signal Time Clock	CHRONOMAX 100	TFW-001P (NAZ-008P)	2/27/1997	----
RTC-M 15 RTC Manufacturing Inc., 1016 Enterprise Plc, Arlington, TX 76001 http://www.rtc-traffic.com/				
Time Signal Time Clock	AP21	RTC-005S	12/28/1988	----
Time Signal Time Clock	AP22	RTC-006P	9/20/2006	----
Time Signal Time Clock	AP41	RTC-004P	12/28/1988	----
SIGNS 15 Signal Service Inc., 1020 Andrew Drive, West Chester, PA 19380 http://www.signalservice.com/				
Time Signal Time Clock	SSI 21	SSI-006S	5/1/1979	----

1104.04 Traffic Signal Systems and Communications

Last Revised: 10/1/2021

Product	Name	COA	COA Date	Ref. No.
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Section 1104: Traffic Signals

1104.04 Traffic Signal Systems and Communications

Last Revised: 10/1/2021

Product	Name	COA	COA Date	Ref. No.	
INTLI 15 Facility	Q-Free America | Intelight, 1420 Kristina Way, Suite 102, Chesapeake, VA 23320 http://www.intelight-its.com/ 3450 S. Broadmont Drive Suite 126 Tucson, AZ 85713				
	NEMA Master Controller Assembly	X-1	INT-007P	9/24/2013	----
	NEMA Master Controller Assembly	X-1L	INT-006P	9/24/2013	----
	NEMA Master Controller Assembly	X-2	INT-008P	9/24/2013	----

1104.05(c) Junction Boxes, Traffic Signal

Last Revised: 6/22/2021

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
ARMOR 15	Armorcast Products Company, a Hubbell Company, 9140 Lurline Avenue, Chatsworth, CA 91311 http://www.armorcastprod.com/products/		
	JB-26, Reinforced Plastic Mortar	A6001423A	2000-279Q
	JB-27, Reinforced Plastic Mortar	A6001946APC-PA	2002-067Q
	JB-27, Reinforced Plastic Mortar	A6001946APCX24	2000-280Q
CDRSC 15	CDR, a Hubbell Company, 3621 Industrial Park Drive, Lenoir, TN 37771		
	JB-26, Reinforced Plastic Mortar	SA13-1212-12	2002-086Q
	JB-27, Reinforced Plastic Mortar	SA10-1324-24	2002-086Q
HIL-0 15 Plant	Oldcastle Infrastructure, Inc., 7000 Central Parkway, Suite 800, Atlanta, GA 30328 http://highlineproducts.com/ HIGHLINE Energy Products by Oldcastle Infrastructure 2300 Highway 11 North Sweetwater, TN 37874		
	JB-26, Reinforced Plastic Mortar	PHA121212	2011-212QA
	JB-27, Reinforced Plastic Mortar	PHA132412	2011-212QB
	JB-27, Reinforced Plastic Mortar	PHA132418H	2013-092Q
	JB-27, Reinforced Plastic Mortar	PHA132424H	2012-049Q



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Section 1104: Traffic Signals

1104.05(c) Junction Boxes, Traffic Signal

Last Revised: 6/22/2021

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
MAREN 15 Martin Enterprises, an Oldcastle Infrastructure Company, 7231 Boulder Avenue, Highland, CA 92346 http://martinfrp.com/			
JB-26, Reinforced Plastic Mortar	121212PC T15		2011-229Q
JB-27, Reinforced Plastic Mortar	132418 T15		2011-230Q
JB-27, Reinforced Plastic Mortar	132418PC T8		2011-228Q
NEWBA 15 Newbasis, 2626 Kansas Avenue, Riverside, CA 92507 http://www.newbasis.com/			
JB-26, Reinforced Plastic Mortar	PCA 121212-10006		1991-321
JB-27, Reinforced Plastic Mortar	PCA 132412-00006		1993-017
JB-27, Reinforced Plastic Mortar	PCA 132418-00006		1993-017
JB-27, Reinforced Plastic Mortar	PCE 132408-00000		1993-017
OLES1 15 Oldcastle Enclosure Solutions, 801 South Pine Street, Madera, CA 96367 https://oldcastleinfrastructure.com/			
JB-27, Reinforced Plastic Mortar	PC1324-24		2013-106Q
<i>The PC1324-24 model is manufactured in Madera, CA; Houston, TX; and Sweetwater, TN.</i>			
OLES3 15 Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/			
Plant	Oldcastle Enclosure Solutions 1675 Industrial Drive Napoleon, OH 43545		
JB-26, Reinforced Plastic Mortar	Duralite 1212-12	OLD-004P	----
JB-26, Reinforced Plastic Mortar	Duralite 1212-12	OLD-004P	2019-173Q
JB-27, Reinforced Plastic Mortar	Duralite 1324-18	OLD-005P	----
JB-27, Reinforced Plastic Mortar	Duralite 1324-18	OLD-005P	2019-174Q



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Section 1104: Traffic Signals

1104.05(c) Junction Boxes, Traffic Signal

Last Revised: 6/22/2021

See [Standard Drawing TC-8804 - Electrical Distribution \(Publication 148\)](#)

Also, see Section 605.2(a) for Steel or Cast Iron Junction Boxes and Section 714.2 for Precast Concrete Junction Boxes that may be used for this Section.

Product	Name	COA	Ref. No.
QUAZT 15 Hubbell Power Systems, Inc., 3621 Industrial Park Drive, Lenoir City, TN 37771 https://www.hubbell.com/hubbellpowersystems/en/hps-brands/quazite			
JB-26, Reinforced Plastic Mortar	Quazite PC1212BA12		1993-096
JB-26, Reinforced Plastic Mortar	Quazite PC1212CA46		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324BA18		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324CA46		1993-096
JB-27, Reinforced Plastic Mortar	Quazite PG1324EA08		1993-096

1104.06(a) Vehicular Signal Head Housings

Last Revised: 6/10/2015

For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(b) Vehicular Signal Heads - Housings, Reflectors, Backplates

Product	Name	COA	COA Date	Ref. No.
BRTPI 15 Brown Traffic Products, MoboTrex, 109 West 55th Street, Davenport, IA 52806 https://www.mobotrex.com/				
12-inch Aluminum Housing	SIG 10X A	BTP-005P	6/20/2014	----
12-inch Polycarbonate Housing	SA 10X A	BTP-003P	6/20/2014	----
8-inch Aluminum Housing	SIG 1X0 A	BTP-006P	6/20/2014	----
8-inch Polycarbonate Housing	SA 1X0 A	BTP-004P	6/20/2014	----
CHMAI 15 Chapel Hill Manufacturing, 27895 Robinson Road, Suite 200, Conroe, TX 77385 Facility 200 Elder Road Conroe, TX 77385				
12-inch Aluminum Housing	SIG-TAY-305-TTP-EVN-00	CHM-005P	7/26/1993	----
12-inch Polycarbonate Housing	SIG-TPY-305-TTP-EVN-00	CHM-006P	7/26/1993	----
8-inch Aluminum Housing	SIGEAY305TTPEV	CHM-001P	6/15/1994	----
8-inch Polycarbonate Housing	SIGEPY305TTPEV	CHM-002P	6/15/1994	----



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Section 1104: Traffic Signals

1104.06(a) Vehicular Signal Head Housings

Last Revised: 6/10/2015

For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(b) Vehicular Signal Heads - Housings, Reflectors, Backplates

Product	Name	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
12-inch Aluminum Housing		ECO-114S	4/12/1988	----
12-inch Polycarbonate Housing	CP	ECO-105S	4/1/1983	----
12-inch Polycarbonate Housing	TP	ECO-104S	4/1/1983	----
8-inch Aluminum Housing		ECO-114S	4/12/1988	----
8-inch Polycarbonate Housing	EP	ECO-106S	4/1/1983	----
8-inch Polycarbonate Housing	TP	ECO-104S	4/1/1983	----
GENTR 15 General Traffic Equipment Corporation, 259 Broadway, Newburgh, NY 12550 http://www.generaltrafficequip.com/				
12-inch Aluminum Housing	T30-ALUM-A-N-N-P-T-Y -Y-Y	GTE-006P	4/23/2004	----
12-inch Polycarbonate Housing	T30-POLY	GTE-004P	12/19/2002	----
8-inch Aluminum Housing	E30-ALUM-A-N-N-P-T-Y-Y -Y	GTE-005P	4/23/2004	----
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain				
12-inch Aluminum Housing	MTSTA	MCC-016P	7/21/1997	----
12-inch Aluminum Housing	Signal Head	MCC-012P	7/26/1993	----
12-inch Polycarbonate Housing	MTSVP	MCC-011S	7/14/1993	----
8-inch Aluminum Housing	MTSEA	MCC-015P	7/21/1997	----
8-inch Polycarbonate Housing	MTSEP	MCC-010S	7/14/1993	----
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ Formerly known as Peek Traffic				
12-inch Aluminum Housing	H Series	PTS-028S	2/20/1970	----
12-inch Polycarbonate Housing	P Series	PTS-035S	11/9/1979	----
8-inch Aluminum Housing	T Series	PTS-029S	2/20/1970	----
8-inch Polycarbonate Housing	E Series	PTS-036S	11/9/1979	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
12-inch Green, LED Module	433-2220-001XL		DIA-049P	6/3/2008	----
12-inch Green, LED Module	433-2220-001XL15 (tinted)		DIA-077P	11/23/2015	----
12-inch Green, LED Module	433-2220-005XL	Direct Current (DC)	DIA-065P	5/9/2012	----
12-inch Green, LED Module	433-2270-001XL		DIA-050P	6/3/2008	----
12-inch Green, LED Module	433-2270-001XL15 (clear)		DIA-078P	11/23/2015	----
12-inch Green, LED Module	433-2270-005XL	Direct Current (DC)	DIA-066P	5/9/2012	----
12-inch Red, LED Module	433-1210-003XL		DIA-047P	6/3/2008	----
12-inch Red, LED Module	433-1210-003XL15 (tinted)		DIA-073P	11/23/2015	----
12-inch Red, LED Module	433-1210-005XL	Direct Current (DC)	DIA-063P	5/9/2012	----
12-inch Red, LED Module	433-1270-003XL15 (clear)		DIA-074P	11/23/2015	----
12-inch Yellow, LED Module	433-3230-001XL		DIA-048P	6/3/2008	----
12-inch Yellow, LED Module	433-3230-901XL		DIA-055P	9/16/2008	----
12-inch Yellow, LED Module	433-3230-901XL15 (tinted)		DIA-075P	11/23/2015	----
12-inch Yellow, LED Module	433-3230-905XL	Direct Current (DC)	DIA-064P	5/9/2012	----
12-inch Yellow, LED Module	433-3270-901XL15 (clear)		DIA-076P	11/23/2015	----
8-inch Green, LED Module	433-2120-001XL		DIA-045P	6/3/2008	----
8-inch Green, LED Module	433-2170-001XL		DIA-046P	6/3/2008	----
8-inch Red, LED Module	433-1110-003XL		DIA-043P	6/3/2008	----
8-inch Yellow, LED Module	433-3130-001XL		DIA-044P	6/3/2008	----
8-inch Yellow, LED Module	433-3130-901XL		DIA-054P	9/18/2008	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal					
12-inch Green, LED Module	TRV-G12SG-D2T		EOI-002P	11/2/2009	----
12-inch Green, LED Module	TRV-G12SG-D2T-C		EOI-018P	7/13/2011	----
12-inch Red, LED Module	TRV-R12SG-D2T		EOI-001P	11/2/2009	----
12-inch Yellow, LED Module	TRV-Y12SG-D1T		EOI-003P	11/2/2009	----
8-inch Green, LED Module	TRV-G08SG-D1T		EOI-014P	11/2/2009	----
8-inch Green, LED Module	TRV-G08SG-D1T-C		EOI-015P	11/2/2009	----
8-inch Red, LED Module	TRV-R08SG-D1T		EOI-010P	11/2/2009	----
8-inch Red, LED Module	TRV-R08SG-D1T-C		EOI-011P	11/2/2009	----
8-inch Yellow, LED Module	TRV-Y08SG-D1T		EOI-012P	11/2/2009	----
8-inch Yellow, LED Module	TRV-Y08SG-D1T-C		EOI-013P	11/2/2009	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
12-inch Green, LED Module	DR6-GCFB-17A		GEL-046P	4/22/2009	----
12-inch Green, LED Module	DR6-GCFB-77A		GEL-057P	10/21/2011	----
12-inch Green, LED Module	DR6-GCFB-VLA	Clear	GEL-069P	6/10/2013	----
12-inch Green, LED Module	DR6-GTFB-17A		GEL-045P	4/22/2009	----
12-inch Green, LED Module	DR6-GTFB-77A		GEL-054P	10/21/2011	----
12-inch Green, LED Module	DR6-GTFB-VLA	Tinted	GEL-068P	6/10/2013	----
12-inch Red, LED Module	DR6-RCFB-17A		GEL-042P	4/22/2009	----
12-inch Red, LED Module	DR6-RCFB-77A		GEL-055P	10/21/2011	----
12-inch Red, LED Module	DR6-RCFB-VLA	Clear	GEL-065P	6/10/2013	----
12-inch Red, LED Module	DR6-RTFB-17A		GEL-041P	4/22/2009	----
12-inch Red, LED Module	DR6-RTFB-77A		GEL-052P	10/21/2011	----
12-inch Red, LED Module	DR6-RTFB-VLA	Tinted	GEL-064P	6/10/2013	----
12-inch Yellow, LED Module	DR6-YCFB-17A-YX		GEL-044P	4/22/2009	----
12-inch Yellow, LED Module	DR6-YCFB-77A		GEL-056P	10/21/2011	----
12-inch Yellow, LED Module	DR6-YCFB-VLA	Clear	GEL-067P	6/10/2013	----
12-inch Yellow, LED Module	DR6-YTFB-17A-YX		GEL-043P	4/22/2009	----
12-inch Yellow, LED Module	DR6-YTFB-17A-YX1		GEL-047P	4/22/2009	----
12-inch Yellow, LED Module	DR6-YTFB-77A		GEL-053P	10/21/2011	----
12-inch Yellow, LED Module	DR6-YTFB-VLA	Tinted	GEL-066P	6/10/2013	----
8-inch Green, LED Module	DR4-GCFB-17A		GEL-040P	4/22/2009	----
8-inch Green, LED Module	DR4-GCFB-77A	Clear	GEL-063P	5/21/2012	----
8-inch Green, LED Module	DR4-GCFB-VLA	Clear	GEL-075P	6/10/2013	----
8-inch Green, LED Module	DR4-GTFB-17A		GEL-039P	4/22/2009	----
8-inch Green, LED Module	DR4-GTFB-77A	Tinted	GEL-062P	5/21/2012	----
8-inch Green, LED Module	DR4-GTFB-VLA	Tinted	GEL-074P	6/10/2013	----
8-inch Red, LED Module	DR4-RCFB-17A		GEL-036P	4/22/2009	----
8-inch Red, LED Module	DR4-RCFB-77A	Clear	GEL-059P	5/21/2012	----
8-inch Red, LED Module	DR4-RCFB-VLA	Clear	GEL-071P	6/10/2013	----
8-inch Red, LED Module	DR4-RTFB-17A		GEL-035P	4/22/2009	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
8-inch Red, LED Module	DR4-RTFB-77A	Tinted	GEL-058P	5/21/2012	----
8-inch Red, LED Module	DR4-RTFB-VLA	Tinted	GEL-070P	6/10/2013	----
8-inch Yellow, LED Module	DR4-YCFB-17A-YX		GEL-038P	4/22/2009	----
8-inch Yellow, LED Module	DR4-YCFB-77A	Clear	GEL-061P	5/21/2012	----
8-inch Yellow, LED Module	DR4-YCFB-VLA	Clear	GEL-073P	6/10/2013	----
8-inch Yellow, LED Module	DR4-YTFB-17A-YX		GEL-037P	4/22/2009	----
8-inch Yellow, LED Module	DR4-YTFB-77A	Tinted	GEL-060P	5/21/2012	----
8-inch Yellow, LED Module	DR4-YTFB-VLA	Tinted	GEL-072P	6/10/2013	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
12-inch Green Arrow, LED Module	TSL- 12GA-DT-A1		LEO-134P	11/3/2020	2020-055Q
12-inch Green Arrow, LED Module	TSL-12GA-DT-A1-CLR		LEO-137P	11/3/2020	2020-058Q
12-inch Green, LED Module	TSL-12G-DT-A1		LEO-130P	11/3/2020	2020-047Q
12-inch Green, LED Module	TSL-12G-DT-A1-CLR		LEO-131P	11/3/2020	2020-048Q
12-inch Green, LED Module	TSL-12G-LX-IL3-A1		LEO-067P	4/22/2009	----
12-inch Green, LED Module	TSL-12G-LX-IL3-B1	Direct Current (DC)	LEO-085P	10/18/2010	----
12-inch Green, LED Module	TSL-12G-LX-IL6-A1-P2		LEO-094P	1/5/2011	----
12-inch Green, LED Module	TSL-12G-LX-IL6-A1-P2-CLR	Clear	LEO-097P	1/5/2011	----
12-inch Green, LED Module	TSL-12G-LX-IL6-A1-P3		LEO-112P	5/28/2015	-
12-inch Green, LED Module	TSL-12G-LX-IL6-B1		LEO-124P	8/2/2017	----
12-inch Green, LED Module	TSL-12G-LX-IL6-B1-P3		LEO-119P	8/2/2017	----
12-inch Red Arrow, LED Module	TSL-12RA-DT-A1		LEO-132P	11/3/2020	2020-049Q
12-inch Red Arrow, LED Module	TSL-12RA-DT-A1-CLR		LEO-135P	11/3/2020	2020-056Q
12-inch Red, LED Module	TSL- 12R-DT-A1		LEO-126P	11/3/2020	2020-037Q
12-inch Red, LED Module	TSL-12R-DT-A1-CLR		LEO-128P	11/3/2020	2020-045Q
12-inch Red, LED Module	TSL-12R-LX-IL3-A1		LEO-065P	4/22/2009	----
12-inch Red, LED Module	TSL-12R-LX-IL3-B1	Direct Current (DC)	LEO-083P	10/18/2010	----
12-inch Red, LED Module	TSL-12R-LX-IL6-A1-P2		LEO-092P	1/5/2011	----
12-inch Red, LED Module	TSL-12R-LX-IL6-A1-P2-CLR	Clear	LEO-095P	1/5/2011	----
12-inch Red, LED Module	TSL-12R-LX-IL6-A1-P3		LEO-110P	5/28/2015	-
12-inch Red, LED Module	TSL-12R-LX-IL6-B1		LEO-122P	8/2/2017	----
12-inch Red, LED Module	TSL-12R-LX-IL6-B1-P3		LEO-117P	8/2/2017	----
12-inch Yellow Arrow, LED Module	TSL- 12YA-DT-A1		LEO-133P	11/3/2020	2020-054Q
12-inch Yellow Arrow, LED Module	TSL-12YA-DT-A1-CLR		LEO-136P	11/3/2020	2020-057Q
12-inch Yellow, LED Module	TSL- 12Y-DT-A1		LEO-127P	11/3/2020	2020-044Q
12-inch Yellow, LED Module	TSL-12Y-DT-A1-CLR		LEO-129P	11/3/2020	2020-046Q
12-inch Yellow, LED Module	TSL-12Y-LX-IL3-A1-C		LEO-066P	4/22/2009	----



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
12-inch Yellow, LED Module	TSL-12Y-LX-IL3-B1	Direct Current (DC)	LEO-084P	10/18/2010	----
12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P2		LEO-093P	1/5/2011	----
12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P2-CLR	Clear	LEO-090P	1/5/2011	----
12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P2-CLR	Clear	LEO-096P	1/5/2011	----
12-inch Yellow, LED Module	TSL-12Y-LX-IL6-A1-P3		LEO-111P	5/28/2015	-
12-inch Yellow, LED Module	TSL-12Y-LX-IL6-B1		LEO-123P	8/2/2017	----
12-inch Yellow, LED Module	TSL-12Y-LX-IL6-B1-P3		LEO-118P	8/2/2017	----
8-inch Green, LED Module	TSL-08G-DT-A1		LEO-140P	11/3/2020	2020-113Q
8-inch Green, LED Module	TSL-08G-DT-A1-CLR		LEO-141P	11/3/2020	2020-114Q
8-inch Green, LED Module	TSL-08G-LX-IL3-A1	Tinted	LEO-076P	4/29/2010	----
8-inch Green, LED Module	TSL-08G-LX-IL3-A1-CL	Clear	LEO-077P	4/29/2010	----
8-inch Green, LED Module	TSL-08G-LX-IL6-A1-P2		LEO-088P	1/5/2011	----
8-inch Green, LED Module	TSL-08G-LX-IL6-A1-P2-CLR	Clear	LEO-091P	1/5/2011	----
8-inch Green, LED Module	TSL-08G-LX-IL6-A1-P3		LEO-109P	5/28/2015	-
8-inch Red, LED Module	TSL-08R-DT-A1		LEO-138P	11/3/2020	2020-059Q
8-inch Red, LED Module	TSL-08R-DT-A1-CLR		LEO-143P	11/3/2020	2020-116Q
8-inch Red, LED Module	TSL-08R-LX-IL3-A1	Tinted	LEO-072P	4/29/2010	----
8-inch Red, LED Module	TSL-08R-LX-IL3-A1-CL	Clear	LEO-073P	4/29/2010	----
8-inch Red, LED Module	TSL-08R-LX-IL3-B1	Direct Current (DC)	LEO-081P	10/18/2010	----
8-inch Red, LED Module	TSL-08R-LX-IL6-A1-P2		LEO-086P	1/5/2011	----
8-inch Red, LED Module	TSL-08R-LX-IL6-A1-P2-CLR	Clear	LEO-089P	1/5/2011	----
8-inch Red, LED Module	TSL-08R-LX-IL6-A1-P3		LEO-107P	5/28/2015	-
8-inch Red, LED Module	TSL-08R-LX-IL6-B1		LEO-120P	8/2/2017	----
8-inch Red, LED Module	TSL-08R-LX-IL6-B1-P3		LEO-115P	8/2/2017	----
8-inch Yellow, LED Module	TSL-08Y-DT-A1		LEO-139P	11/3/2020	2020-112Q



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Section 1104: Traffic Signals

1104.06(b) LED Circular Vehicle Traffic Signal Modules

Last Revised: 11/6/2020

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	Description	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
8-inch Yellow, LED Module	TSL-08Y-DT-A1-CLR		LEO-142P	11/3/2020	2020-115Q
8-inch Yellow, LED Module	TSL-08Y-LX-IL3-A1	Tinted	LEO-074P	4/29/2010	----
8-inch Yellow, LED Module	TSL-08Y-LX-IL3-A1-CL	Clear	LEO-075P	4/29/2010	----
8-inch Yellow, LED Module	TSL-08Y-LX-IL3-B1	Direct Current (DC)	LEO-082P	10/18/2010	----
8-inch Yellow, LED Module	TSL-08Y-LX-IL6-A1-P2		LEO-087P	1/5/2011	----
8-inch Yellow, LED Module	TSL-08Y-LX-IL6-A1-P3		LEO-108P	5/28/2015	-
8-inch Yellow, LED Module	TSL-08Y-LX-IL6-B1		LEO-121P	8/2/2017	----
8-inch Yellow, LED Module	TSL-08Y-LX-IL6-B1-P3		LEO-116P	8/2/2017	----
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
12-inch Green, LED Module	D-L, JXC300-HFG		TRA-019P	1/7/2009	----
12-inch Green, LED Module	D-L, JXC300-HFTG		TRA-025P	2/22/2010	----
12-inch Red, LED Module	D-L, JXC300-HFR		TRA-017P	1/7/2009	----
12-inch Red, LED Module	D-L, JXC300-HFTR		TRA-023P	2/22/2010	----
12-inch Yellow, LED Module	D-L, JXC300-HFDCY-P	Direct Current (DC)	TRA-032P	2/14/2012	----
12-inch Yellow, LED Module	D-L, JXC300-HFTY02		TRA-024P	2/22/2010	----
12-inch Yellow, LED Module	D-L, JXC300-HFY02		TRA-018P	1/7/2009	----
8-inch Green, LED Module	D-L, JXC200-HFG		TRA-022P	4/27/2009	----
8-inch Red, LED Module	D-L, JXC200-HFR		TRA-020P	4/27/2009	----
8-inch Yellow, LED Module	D-L, JXC200 HFY02		TRA-021P	4/27/2009	----

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 10/25/2021

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
12-inch Green Arrow, LED Module	432-2324-001XOD	DIA-052P	6/3/2008	----



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Section 1104: Traffic Signals

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 10/25/2021

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
12-inch Green Arrow, LED Module	432-2324-001XOD15 (tinted)	DIA-071P	11/23/2015	----
12-inch Green Arrow, LED Module	432-2374-001XOD	DIA-053P	6/3/2008	----
12-inch Green Arrow, LED Module	432-2374-001XOD15 (clear)	DIA-072P	11/23/2015	----
12-inch Red Arrow, LED Module	432-1314-001XOD15 (tinted)	DIA-067P	11/23/2015	----
12-inch Red Arrow, LED Module	432-1314-001XOD	DIA-061P	2/17/2010	----
12-inch Red Arrow, LED Module	432-1374-001XOD15 (clear)	DIA-068P	11/23/2015	----
12-inch Yellow Arrow, LED Module	431-3334-001XOD	DIA-051P	6/3/2008	----
12-inch Yellow Arrow, LED Module	431-3334-901XOD	DIA-056P	9/16/2008	----
12-inch Yellow Arrow, LED Module	431-3334-901XOD15 (tinted)	DIA-069P	11/23/2015	----
12-inch Yellow Arrow, LED Module	431-3374-001XOD15 (clear)	DIA-070P	11/23/2015	----
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal				
12-inch Green Arrow, LED Module	TRA-G12DG-IN	EOI-004P	8/6/2009	----
12-inch Green Arrow, LED Module	TRA-G12DG-IN-C	EOI-017P	7/13/2011	----
12-inch Red Arrow, LED Module	TRA-R12DG-IN	EOI-016P	2/17/2010	----
12-inch Yellow Arrow, LED Module	TRA-Y12DG-IN	EOI-005P	8/6/2009	----
12-inch Yellow Arrow, LED Module	TRA-Y12DG-IN2	EOI-008P	11/2/2009	----
12-inch Yellow Arrow, LED Module	TRA-Y12DG-IN2-C	EOI-009P	11/2/2009	----



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Section 1104: Traffic Signals

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 10/25/2021

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	COA	COA Date	Ref. No.
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/				
12-inch Green Arrow, LED Module	DR6-GCAAN-VLA	GEL-083P	8/10/2017	----
12-inch Green Arrow, LED Module	DR6-GTAAN-VLA	GEL-082P	8/10/2017	----
12-inch Green Arrow, LED Module	DRG-GCAAN-17A	GEL-033P	9/24/2008	----
12-inch Green Arrow, LED Module	DRG-GTAAN-17A	GEL-032P	9/24/2008	----
12-inch Red Arrow, LED Module	DR6-RCAAN-17A	GEL-049P	2/17/2010	----
12-inch Red Arrow, LED Module	DR6-RCAAN-VLA	GEL-079P	8/10/2017	----
12-inch Red Arrow, LED Module	DR6-RTAAN-17A	GEL-048P	2/17/2010	----
12-inch Red Arrow, LED Module	DR6-RTAAN-VLA	GEL-078P	8/10/2017	----
12-inch Yellow Arrow, LED Module	DR6-YCAAN-VLA	GEL-081P	8/10/2017	----
12-inch Yellow Arrow, LED Module	DR6-YTAAN-VLA	GEL-080P	8/10/2017	----
12-inch Yellow Arrow, LED Module	DRG-YTAAN-17A-YX	GEL-034P	9/24/2008	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
12-inch Green Arrow, LED Module	TSL-12GA- IL6-A1	LEO-102P	1/4/2012	----
12-inch Green Arrow, LED Module	TSL-12GA- IL6-A1-CLR	LEO-103P	1/4/2012	----
12-inch Green Arrow, LED Module	TSL-12GA-LD-A1	LEO-064P	4/22/2009	----
12-inch Green Arrow, LED Module	TSL-12GA-LD-A1-CLR	LEO-070P	2/17/2010	----
12-inch Red Arrow, LED Module	TSL-12RA- IL6-A1	LEO-098P	1/4/2012	----
12-inch Red Arrow, LED Module	TSL-12RA-IL6-A1-CLR	LEO-099P	1/4/2012	----
12-inch Red Arrow, LED Module	TSL-12RA-LD-A1	LEO-068P	2/17/2010	----
12-inch Red Arrow, LED Module	TSL-12RA-LD-A1-CLR	LEO-069P	2/17/2010	----
12-inch Yellow Arrow, LED Module	TSL-12YA-IL6-A1	LEO-100P	1/4/2012	----
12-inch Yellow Arrow, LED Module	TSL-12YA-IL6-A1-CLR	LEO-101P	1/4/2012	----
12-inch Yellow Arrow, LED Module	TSL-12YA-LD-A1	LEO-063P	4/22/2009	----
12-inch Yellow Arrow, LED Module	TSL-12YA-LD-A1-CLR	LEO-071P	2/17/2010	----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1104: Traffic Signals

1104.06(b) LED Vehicle Arrow Traffic Signal Modules

Last Revised: 10/25/2021

* For Pub 408/2020, Change No. 3 (October 8, 2021) and later, see Section 955.2(c) LED Vehicular Signal Head Modules

Product	Name	COA	COA Date	Ref. No.
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/				
12-inch Green Arrow, LED Module	Duralight JXJ300-07G03	TRA-028P	2/22/2010	----
12-inch Red Arrow, LED Module	Duralight JXJ300-07R03	TRA-026P	2/22/2010	----
12-inch Yellow Arrow, LED Module	Duralight JXJ300-07Y03	TRA-027P	2/22/2010	----

1104.06(c) LED Optically Programmed Signal Heads

Last Revised: 6/10/2015

For Pub 408/2020, Change No 3 (October 8, 2021) and later, see Section 955.2(d) Optically Programmed Signal Heads

Product	Name	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/				
Green, LED Module	P46-3G33-003	DIA-036P	1/28/2005	----
Red, LED Module	P46-3R33-003	DIA-038P	1/28/2005	----
Yellow, LED Module	P46-3Y33-003	DIA-037P	1/28/2005	----

GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 <http://www.gelighting.com/>

Green, LED Module	DR3-GCFB-01A	GEL-020P	9/24/2008	----
Red, LED Module	DR3-RCFB-01A	GEL-018P	9/24/2008	----
Yellow, LED Module	DR3-YCFB-01A	GEL-019P	9/24/2008	----

LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 <http://www.leotek.com/>

Green, LED Module	T05G-A-CA01	LEO-080P	7/23/2010	----
Red, LED Module	T05R-A-6100	LEO-078P	7/23/2010	----
Yellow, LED Module	T05Y-A-6100	LEO-079P	7/23/2010	----

1104.06(d) Pedestrian Signal Housings

Last Revised: 5/9/2019

* For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(e) Pedestrian Signal Housing

Product	Name	Size (in.)	COA	COA Date	Ref. No.
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Section 1104: Traffic Signals

1104.06(d) Pedestrian Signal Housings

Last Revised: 5/9/2019

* For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(e) Pedestrian Signal Housing

Product	Name	Size (in.)	COA	COA Date	Ref. No.
BRTPI 15 Brown Traffic Products, MoboTrex, 109 West 55th Street, Davenport, IA 52806 https://www.mobotrex.com/					
Pedestrian Signal Housing	SA 302 A	12 x 12	BTP-001P	6/20/2014	----
Pedestrian Signal Housing	SA 320 A	9 x 9	BTP-002P	6/20/2014	----
Pedestrian Signal Housing	SG7SZ10C1YYF	16 x 18	BTP-007P	6/20/2014	----
Pedestrian Signal Housing	SG7SZ20C1YYF	16 x 18	BTP-008P	6/20/2014	----
CHMAI 15 Chapel Hill Manufacturing, 27895 Robinson Road, Suite 200, Conroe, TX 77385 Facility 200 Elder Road Conroe, TX 77385					
Pedestrian Signal Housing	SIG-PAY-315-TCG-EVN-00	12 x 12	CHM-003P	3/28/1994	----
Pedestrian Signal Housing	SIG-PPY-315-TCG-EVN-00	12 x 12	CHM-004P	3/28/1994	----
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/					
Pedestrian Signal Housing	12-inch Aluminum	12 x 12	ECO-119P	1/13/2010	----
Pedestrian Signal Housing	12-inch Polycarbonate	12 x 12	ECO-120P	1/13/2010	----
Pedestrian Signal Housing	16-inch Aluminum	16 x 18	ECO-121P	1/13/2010	----
MCCAN 15 SWARCO McCain, Inc., 2365 Oak Ridge Way, Vista, CA 92081 https://www.swarco.com/mccain					
Pedestrian Signal Housing	1000 Series	16 x 18	MCC-003P	8/20/1991	----
Pedestrian Signal Housing	M31941	16 x 18	MCC-017P	2/2/2012	----
Pedestrian Signal Housing	MPSTA	12 x 12	MCC-009S	7/14/1993	----
Pedestrian Signal Housing	MPSTP	12 x 12	MCC-008S	7/14/1993	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)					
Pedestrian Signal Housing	PHXAXXXX	16 x 18	TFW-014P	5/9/2019	----



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Section 1104: Traffic Signals

1104.06(d) Pedestrian Signal Housings

Last Revised: 5/9/2019

* For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(e) Pedestrian Signal Housing

Product	Name	Size (in.)	COA	COA Date	Ref. No.
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ <i>Formerly known as Peek Traffic</i>					
Pedestrian Signal Housing	4302	16 x 18	PTS-41P	9/21/2009	----
Pedestrian Signal Housing	MP Series	12 x 12	PTS-030S	8/18/1972	----
Pedestrian Signal Housing	MPA Series	12 x 12	PTS-034S	4/12/1978	----
Pedestrian Signal Housing	MPP Series	12 x 12	PTS-037S	10/6/1987	----
Pedestrian Signal Housing	PED-100	12 x 12	PTS-027P	5/4/2001	----

TRAPA 15 Traffic Parts, Inc., P. O. Box 837, Spring, TX 77383 <http://www.trafficparts.com/>

Facility Chapel Hill Manufacturing 27895 Robinson Road Conroe, TX 77385

Pedestrian Signal Housing	SSPED-CNN-P22-N	16 x 18	TPI-009P	1/22/2016	-
Pedestrian Signal Housing	SSPED-CNN-Y22-N	16 x 18	TPI-011P	1/22/2016	-
Pedestrian Signal Housing	SSPED-PNN-P2N-N	16 x 18	TPI-010P	1/22/2016	-
Pedestrian Signal Housing	SSPED-PNN-Y2N-N	16 x 18	TPI-012P	1/22/2016	-

1104.06(e) LED Pedestrian Signal Modules

Last Revised: 6/10/2015

* For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(f) Pedestrian Signal Heads - LED Pedestrian Signal Modules

Product	Name	Size (in.)	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
Pedestrian Signal, LED Module, Dual Unit	430-6450-001X	16 x 18	DIA-040P	6/3/2008	----
Pedestrian Signal, LED Module, Dual Unit	430-6772-001X	12 x 12	DIA-039P	6/3/2008	----
Pedestrian Signal, LED Module, Upraised Hand	430-5570-001X		DIA-059P	2/2/2009	----
Pedestrian Signal, LED Module, Upraised Hand	430-5770-001X	12 x 12	DIA-057P	2/2/2009	----
Pedestrian Signal, LED Module, Walking Person	430-7570-001X		DIA-060P	2/2/2009	----
Pedestrian Signal, LED Module, Walking Person	430-7771-001X	12 x 12	DIA-058P	2/2/2009	----



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Section 1104: Traffic Signals

1104.06(e) LED Pedestrian Signal Modules

Last Revised: 6/10/2015

* For Pub 408/2020 Change No. 3 and later (October 8, 2021), see Section 955.2(f) Pedestrian Signal Heads - LED Pedestrian Signal Modules

Product	Name	Size (in.)	COA	COA Date	Ref. No.
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal					
Pedestrian Signal, LED Module, Dual Unit	TRP-C45DG-W2	16 x 18	EOI-007P	8/6/2009	----
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
Pedestrian Signal, LED Module, Dual Unit	PS6-CFL1-26A	12 x 12	GEL-050P	2/4/2011	----
Pedestrian Signal, LED Module, Dual Unit	PS7-CFC1-26A	16 x 18	GEL-031P	8/20/2008	----
Pedestrian Signal, LED Module, Upraised Hand	PS6-PFH1-26A		GEL-028P	1/4/2008	----
Pedestrian Signal, LED Module, Walking Person	PS6-WFM3-26A		GEL-029P	1/4/2008	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
Pedestrian Signal, LED Module, Dual Unit	TP12H-HM	12 x 12	LEO-062P	6/3/2008	----
Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-DIL	16 x 18	LEO-057P	6/3/2008	----
Pedestrian Signal, LED Module, Upraised Hand	TP09B-EH	9 x 9	LEO-058P	6/3/2008	----
Pedestrian Signal, LED Module, Upraised Hand	TP12B-EH	12 x 12	LEO-060P	6/3/2008	----
Pedestrian Signal, LED Module, Walking Person	TP09B-WM	9 x 9	LEO-059P	6/3/2008	----
Pedestrian Signal, LED Module, Walking Person	TP12H-WM	12 x 12	LEO-061P	6/3/2008	----
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
Pedestrian Signal, LED Module, Upraised Hand	Duralight JXM-09VIH	9 x 9	TRA-015P	1/7/2008	----
Pedestrian Signal, LED Module, Walking Person	Duralight JXM-09VIM	9 x 9	TRA-016P	1/7/2008	----

1104.06(f) LED Countdown Pedestrian Signal Modules

Last Revised: 12/15/2017

* For Pub 408/2020, Change No.3 and later (October 8, 2021), see Section 955.2(g) Pedestrian Signal Heads - LED Countdown Pedestrian Signal Modules



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Section 1104: Traffic Signals

1104.06(f) LED Countdown Pedestrian Signal Modules

Last Revised: 12/15/2017

* For Pub 408/2020, Change No.3 and later (October 8, 2021), see Section 955.2(g) Pedestrian Signal Heads - LED Countdown Pedestrian Signal Modules

Product	Name	Size (in.)	COA	COA Date	Ref. No.
DIACO 15 Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	4430-6479-001X	16 x 18	DIA-041P	6/3/2008	----
Countdown Pedestrian Signal, LED Module, Time Only	430-7773-001X	12 x 12	DIA-042P	6/3/2008	----
EXCOP 15 EOI (Excellence Opto, Inc.), 21858 Garcia Lane, Industry, CA 91789 https://www.eoius.com/traffic-signal					
Countdown Pedestrian Signal, LED Module, Dual Unit	TRP-C45D3154C10	16 x 18	EOI-006P	8/6/2009	----
GELUM 15 GE Lighting, A Savant Company, 2713 N.E. 14th Street, Fort Lauderdale, FL 33304 http://www.gelighting.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-26A	16 x 18	GEL-030P	6/15/2008	----
Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-27A	16 x 18	GEL-076P	3/14/2014	----
Countdown Pedestrian Signal, LED Module, Dual Unit	PS7-CFF1-VLA	16 x 18	GEL-077P	3/30/2016	-
Countdown Pedestrian Signal, LED Module, Time Only	PS6-PFD1-26A	12 x 12	GEL-051P	2/1/2011	----
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-CIL-9	16 x 18	LEO-056P	6/3/2008	----
Countdown Pedestrian Signal, LED Module, Dual Unit	TSL-PED-16-SPC-V1	16 x 18	LEO-125P	12/12/2017	----
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/					
Countdown Pedestrian Signal, LED Module, Dual Unit	JXM-400VIEIL	16 x 18	TRA-029P	11/3/2010	----
Countdown Pedestrian Signal, LED Module, Time Only	Duralight JXM-200VIE	12 x 12	TRA-014P	8/23/2006	----



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1104.06(g) LED Lane Use Traffic Control Signal Heads

Last Revised: 10/4/2021

Product	Name	COA	COA Date	Ref. No.
ORANG 15 Orange Traffic, 18195 Rue J A Bombardier, Mirabel, Quebec J7J 0E7 https://www.orangetraffic.com/				
Lane Use Signal Head, LED Module	LCS2828-18AB, Green Arrow / Yellow X / Red X Indicator	OTR-002P	11/9/2018	2017-027Q
TRAST 15 TraStar, Inc., 860 North Dorothy Drive, Suite 600, Richardson, TX 75081 http://www.trastarusa.com/				
Lane Use Signal Head, LED Module	JXM-LC1818, Green Arrow / Yellow X / Red X Indicator	TRA-031P	10/25/2011	-----

1104.07(a)1 Loop Detector Sealants

Last Revised: 4/8/2024

Product	Name	COA	COA Date	Ref. No.
3M-03 15 3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/				
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000			
Loop Detector Sealant	3M Detector Loop Sealant			1985-136
DURPT 15 Durant Performance Coatings, Inc., 112 Railroad Avenue, Revere, MA 02151 http://www.durantcorp.com/				
Loop Detector Sealant	Stat-A-Flex			1995-275
DYNAT 15 Bondo Traffic, 3M, 3700 Atlanta Ind. Parkway, Atlanta, GA 30331 https://www.3m.com/3M/en_US/bondo-us/				
Loop Detector Sealant	P-606 Flexible Loop Sealer			-----
RAIPR 15 RAI Products, P.O. Box 240772, Charlotte, NC 28224 http://raiproducts.com/				
Loop Detector Sealant	Pro-Seal 6006			1994-261
RUSCE 15 The Ruscoe Company, P. O. Box 3858, Akron, OH 44314 http://www.ruscoec.com/highway-products/				
Loop Detector Sealant	Traffic Detector Loop Sealant 974		8/10/1992	-----

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 10/20/2021



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Section 1104: Traffic Signals

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 10/20/2021

Product	Name	COA	COA Date	Ref. No.
EBERL 15 Eberle Design Inc., 3510 E Atlanta Avenue, Phoenix, AZ 85040 http://www.editraffic.com/				
Loop Amplifier Detection System	LM 622	EBD-018S	10/31/1997	----
Loop Amplifier Detection System	LM222 Series	EBD-021P	6/7/2000	----
Loop Amplifier Detection System	LM602	EBD-014S	10/31/1997	----
Loop Amplifier Detection System	LMD222 Series	EBD-025P	11/18/2008	----
Loop Amplifier Detection System	LMD224 Series	EBD-026P	11/18/2008	----
Loop Amplifier Detection System	LMD301 Series	EBD-027P	11/18/2008	----
Loop Amplifier Detection System	LMD302 Series	EBD-028P	11/18/2008	----
Loop Amplifier Detection System	LMD304 Series	EBD-029P	11/18/2008	----
Loop Amplifier Detection System	LMD602 Series	EBD-030P	11/18/2008	----
Loop Amplifier Detection System	LMD602T Series	EBD-031P	11/18/2008	----
Loop Amplifier Detection System	LMD604 Series	EBD-032P	11/18/2008	----
Loop Amplifier Detection System	LMD604T Series	EBD-033P	11/18/2008	----
Loop Amplifier Detection System	LMD622 Series	EBD-034P	11/18/2008	----
Loop Amplifier Detection System	LMD622T Series	EBD-035P	11/18/2008	----
Loop Amplifier Detection System	LMD624 Series	EBD-036P	11/18/2008	----
Loop Amplifier Detection System	LMD624T Series	EBD-037P	11/18/2008	----
Loop Amplifier Detection System	LMD632T Series	EBD-038P	11/18/2008	----
Loop Amplifier Detection System	LMD642T Series	EBD-039P	11/18/2008	----
Loop Amplifier Detection System	Oracle 2E Enhanced	EBD-040P	11/18/2008	----
Loop Amplifier Detection System	Oracle 2EC Enhanced	EBD-041P	11/18/2008	----
Loop Amplifier Detection System	Oracle 4E Enhanced	EBD-042P	11/18/2008	----
Loop Amplifier Detection System	Oracle 4EC Enhanced	EBD-044P	11/18/2008	----
Loop Amplifier Detection System	Oracle 4H Enhanced	EBD-043P	11/18/2008	----
Loop Amplifier Detection System	Oracle S1E Enhanced	EBD-045P	11/18/2008	----
Loop Amplifier Detection System	Oracle S1EC Enhanced	EBD-046P	11/18/2008	----
Loop Amplifier Detection System	Oracle S2E Enhanced	EBD-047P	11/18/2008	----
Loop Amplifier Detection System	Oracle S2EC Enhanced	EBD-048P	11/18/2008	----



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Section 1104: Traffic Signals

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 10/20/2021

Product	Name	COA	COA Date	Ref. No.
GLOTT 15 Global Traffic Technologies, LLC, 7800 Third Street North, Building 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
Loop Amplifier Detection System	Canoga 9004 Loop Amplifier System	GTT-006P	2/17/2016	2015-167Q
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
Loop Amplifier Detection System	710 TX/I	TFW-002P (NAZ-009P	4/13/2016	----
Loop Amplifier Detection System	722L	TFW-009P (NAZ-017P	4/13/2016	----
Loop Amplifier Detection System	722TXC	TFW-007P (NAZ-015P	4/13/2016	----
Loop Amplifier Detection System	724	TFW-008P (NAZ-016P	4/13/2016	----
Loop Amplifier Detection System	724L	TFW-010P (NAZ-018P	4/13/2016	----
NORCO 15 Northstar Controls, LLC, 6147 Clark Center Avenue, Sarasota, FL 34238 http://www.northstarcontrols.com/				
Loop Amplifier Detection System	N222	NSC-005P	12/15/2008	----
Loop Amplifier Detection System	N222-2	NSC-007P	12/15/2008	----
Loop Amplifier Detection System	N222-2E	NSC-008P	12/15/2008	----
Loop Amplifier Detection System	N222-E	NSC-006P	12/15/2008	----
Loop Amplifier Detection System	N224-2	NSC-009P	12/15/2008	----
Loop Amplifier Detection System	N224-2E	NSC-010P	12/15/2008	----
Loop Amplifier Detection System	NT11	NSC-001P	12/15/2008	----
Loop Amplifier Detection System	NT11-E	NSC-002P	12/15/2008	----
Loop Amplifier Detection System	NT22	NSC-003P	12/15/2008	----
Loop Amplifier Detection System	NT22-E	NSC-004P	12/15/2008	----
Loop Amplifier Detection System	NT44	NSC-011P	12/15/2008	----



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Section 1104: Traffic Signals

1104.07(b)1 Vehicular Detection: Loop Amplifier Systems

Last Revised: 10/20/2021

Product	Name	COA	COA Date	Ref. No.
RENOA 15 Reno A & E, Eberle Design Inc., 3510 E Atlanta Avenue, Phoenix, AZ 85040 https://www.editraffic.com/				
Facility 4655 Aircenter Circle Reno, NV 89502				
Loop Amplifier Detection System	222	RAE-001P	1/6/2000	----
Loop Amplifier Detection System	222 (R)	RAE-002P	1/6/2000	----
Loop Amplifier Detection System	C (R)	RAE-004P	8/11/1998	----
Loop Amplifier Detection System	C-1200-SS	RAE-003P	8/11/1998	----
Loop Amplifier Detection System	E-1200-SS	RAE-005P	2/11/2000	----
Loop Amplifier Detection System	G-200-SS	RAE-019P	11/5/2003	----
Loop Amplifier Detection System	GT-200-R	RAE-010P	6/12/2003	----
Loop Amplifier Detection System	GT-200-SS	RAE-011P	6/12/2003	----
Loop Amplifier Detection System	L-1200-R	RAE-006P	8/11/1998	----
Loop Amplifier Detection System	L-1200-SS	RAE-007P	8/11/1998	----
Loop Amplifier Detection System	S-1200-R	RAE-012P	2/11/2000	----
Loop Amplifier Detection System	S-1200-SS	RAE-013P	2/11/2000	----
Loop Amplifier Detection System	T-100-R	RAE-014P	4/25/2002	----
Loop Amplifier Detection System	T-100-SS	RAE-015P	11/5/2003	----
Loop Amplifier Detection System	T-110-R	RAE-016P	11/5/2003	----
Loop Amplifier Detection System	T-210-R	RAE-017P	11/5/2003	----
Loop Amplifier Detection System	T-400-R	RAE-018P	11/5/2003	----
Loop Amplifier Detection System	Y-200-SS	RAE-008P	6/12/2003	----
Loop Amplifier Detection System	Y-204-SS	RAE-009P	6/12/2003	----

1104.07(b)2 Vehicular Detection: Video Detection Systems

Last Revised: 3/15/2022

Product	Name	COA	COA Date	Ref. No.
ALDIS 15 GRIDSMART Technologies, Inc., 10545 Hardin Valley Road, Knoxville, TN 37932 https://gridsmart.com/				
<i>Formerly Aldis Corporation</i>				
Video Detection System	GridSmart	ALD-001P	9/17/2013	----



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Section 1104: Traffic Signals

1104.07(b)2 Vehicular Detection: Video Detection Systems

Last Revised: 3/15/2022

Product	Name	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
Video Detection System	Autoscope Image Sensor-AIS IV	ECO-124P	2/19/2013	----
Video Detection System	Autoscope Vision Camera	ECO-130P	12/7/2018	2018-129Q
Video Detection System	Encore	ECO-122P	1/7/2011	----
<i>This product is no longer being manufactured. Distributors may supply remaining stock for replacements or add-ons to an existing Encore system.</i>				
FLIRS 15 FLIR Systems, Inc., 6769 Hollister Avenue, Goleta, CA 93117 https://www.flir.com/				
Video Detection System	FC-Series T Thermal	FLI-001P	5/5/2014	----
Video Detection System	TrafiRadar	FLI-003P	7/26/2019	----
Video Detection System	TrafiSense	FLI-002P	12/21/2018	----
ITERS 15 Iteris, Inc, 1700 Carnegie Ave., Suite 100, Santa Ana, CA 92705-5551 http://www.iteris.com/				
Video Detection System	RZ-4 AWDR Advanced Wide Dynamic Range	ITE-001P	8/31/2012	----
Video Detection System	SmartSpan	ITE-006P	4/10/2018	2017-118Q
Video Detection System	Vantage Next	ITE-004P	12/20/2016	2016-211
Video Detection System	Vantage Vector	ITE-003P	2/21/2013	----
Video Detection System	VersiCam	ITE-002P	8/31/2012	----
ITSP1 15 ITS Plus, Inc., 6220 Trailwood Drive, Suite 200, Plano, TX 75024 https://itsplus3.com/ Facility Broach Bilt Manufacturing 2140 Redbud Boulevard McKinney, TX 75069				
Video Detection System	ITSP-PM120C/24C	ITS-001P	3/21/2019	2018-215Q
LEDTI 15 LeddarTech, Inc., 4535, boulevard Wilfrid-Hamel, Suite 240, Quebec (Quebec) G1P 2J7, Canada https://leddartech.com/				
Video Detection System	d-Tec Sensor	LTI-001P	11/2/2012	----



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Section 1104: Traffic Signals

1104.07(b)2 Vehicular Detection: Video Detection Systems

Last Revised: 3/15/2022

Product	Name	COA	COA Date	Ref. No.
MIGMA 15 Migma Systems, Inc., 1600 Providence Highway, Walpole, MA 02081 http://www.migmapd.com				
Video Detection System	MigmaIntersection	MIG-001P	6/17/2016	2014-225
Video Detection System	MigmaMidblock	MIG-002P	6/17/2016	2014-224
MIOV1 15 Miovision Technologies Inc., 137 Glasgow Street, Suite 110, Kitchener, Ontario, Canada N2G 4X8 https://miovision.com/				
Video Detection System	Miovision SmartLink			2020-277Q
Video Detection System	Miovision TrafficLink Camera Detection	MIO-001P	3/24/2020	2019-053Q
NTR-1 15 NoTraffic U.S. Inc., 2345 Yale Street, Palo Alto, CA 94306 https://notraffic.tech/ Facility Amphenol Tel-Ad Electronics Ltd. Kfar Saba, Israel				
Video Detection System	NoTraffic Detection and Analytics App Platform (Model # NT-DET-APP)	NTR-001P	4/28/2021	2020-279Q
PEKTS 15 Oriux, 5825 N Sam Houston Parkway W, Suite 220, Houston, TX 77086 http://www.oriux.com/ <i>Formerly known as Peek Traffic</i>				
Video Detection System	VideoTrak IQ	PTS-043P	10/11/2013	----
RHYEN 15 Rhythm Engineering, LLC, 14019 W 95th Street, Lenexa, KS 66215 https://rhythmtraffic.com/				
Video Detection System	In|Sync Video Vehicle Detection System with Bosch Camera	RHY-001P	4/28/2021	2020-211Q
TRAFI 15 Traficon USA LLC, 10161 Park Run Drive Suite 150, Las Vegas, NV 89145 https://traficon.net/				
Video Detection System	TrafiCam	TUL-001P	10/4/2012	----
Video Detection System	VIP	TUL-002P	10/4/2012	----

1104.07(b)3 Vehicular Detection: Microwave Radar Detection Systems

Last Revised: 10/21/2021



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Section 1104: Traffic Signals

1104.07(b)3 Vehicular Detection: Microwave Radar Detection Systems

Last Revised: 10/21/2021

Product	Name	COA	COA Date	Ref. No.
ECON0 15 Econolite Control Products, 1250 N. Tustin Avenue, Anaheim, CA 92807 http://www.econolite.com/				
Microwave Radar Detection System	RTMS G4	ECO-126P	3/14/2014	----
ISSINC15 Image Sensing Systems, 400 Spruce Tree Centre, 1600 University Avenue West, St. Paul, MN 55104 http://www.imagesensing.com/				
Microwave Radar Detection System	RTMS Echo	IMA-002P	5/26/2021	2020-148Q
Microwave Radar Detection System	RTMS Sx-300	IMA-001P	3/27/2017	----
ITERS 15 Iteris, Inc, 1700 Carnegie Ave., Suite 100, Santa Ana, CA 92705-5551 http://www.iteris.com/				
Microwave Radar Detection System	Vantage Vector	ITE-003P	2/21/2013	----
Microwave Radar Detection System	VantageRadius	ITE-005P	10/4/2018	2018-179Q
MSSD 15 MS Sedco, 7898 Zionsville Road, Indianapolis, IN 46286 http://mssedco.com/				
Microwave Radar Detection System	TC-26-B	MSD-004P	3/27/1991	----
Microwave Radar Detection System	TC-30	MSD-005P	11/13/1989	----
Microwave Radar Detection System	TC-CK1-SBE/TCIB-4	MSD-006P	6/7/2011	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
Microwave Radar Detection System	150 LX	TFW-006P (NAZ-014P	4/13/2016	-
SMS-1 15 s.m.s, smart microwave sensors GmbH, In den Waashainen 1, 38108 Braunschweig, Germany https://www.smartmicro.com/				
Microwave Radar Detection System	TRUGRD (UMRR-12, Type 48)			2020-238Q
Microwave Radar Detection System	TRUGRD Stream			2021-101Q
Microwave Radar Detection System	UMRR-0C, Type 42	SMI-002P	11/6/2020	2020-060Q
Microwave Radar Detection System	UMRR-11, Type 44	SMI-003P	11/6/2020	2020-061Q
Microwave Radar Detection System	UMRR-11, Type 45	SMI-003P	11/6/2020	2020-095Q



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Section 1104: Traffic Signals

1104.07(b)3 Vehicular Detection: Microwave Radar Detection Systems

Last Revised: 10/21/2021

Product	Name	COA	COA Date	Ref. No.
TRACP 15 Traffic Control Products, Inc., 4565 Glenbrook Road, Willoughby, OH 44094 http://www.traffcon.com/				
Microwave Radar Detection System	Pulsar II	TCP-002P	8/20/2008	----
WAVTX 15 Wavetronix, LLC, 1827 West 650 North, Springville, UT 84663 http://www.wavetronix.com/en				
Microwave Radar Detection System	SmartSensor Advance Model 200	WAV-001S	9/14/2009	----
Microwave Radar Detection System	SmartSensor Matrix Radar Detection System	WAV-002S	6/13/2012	----
XTRAL 15 Xtralis, 700 Longwater Drive, Norwell, MA 02061 http://xtralis.com/index.cfm				
Microwave Radar Detection System	MW 232-819/M2	XTR-001P	10/5/2009	----

1104.07(b)6 Vehicular Detection: Magnetic Detection Systems

Last Revised: 5/16/2016

Product	Name	COA	COA Date	Ref. No.
GLOTT 15 Global Traffic Technologies, LLC, 7800 Third Street North, Building 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
Magnetic Detection System	701	MMM-038P	3/29/2002	----
Magnetic Detection System	702	MMM-033P	3/29/2002	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ (Merger with Naztec, Inc.)				
Magnetic Detection System	Valence Pod System	TFW--012P	5/6/2016	-
SENNE 15 Sensys Networks, Inc., 12 Middle Woods Court, Parkton http://www.sensysnetworks.com/				
Magnetic Detection System	Wireless Detection System	SNI-001P	1/7/2008	----

1104.07(c)1 Pedestrian Detection: Pedestrian Pushbuttons

Last Revised: 10/19/2021



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Section 1104: Traffic Signals

1104.07(c)1 Pedestrian Detection: Pedestrian Pushbuttons

Last Revised: 10/19/2021

Product	Name	COA	COA Date	Ref. No.
CAMCO 15 Campbell Company, 450 West McGregor Drive, Boise, ID 83705 http://www.pedsafety.com/				
Pedestrian Pushbutton System	4 EVR C	DCC-008P	5/20/2011	----
Pedestrian Pushbutton System	DCC 200 Series	1562-P001	8/31/2001	----
Pedestrian Pushbutton System	DCC Enlightened PPB	DCC-007P	11/18/2008	----
PELC- 15 Pelco Products, Inc., 320 S.W. 18th Street, Edmond, OK 73013 http://www.pelcoinc.com/				
Pedestrian Pushbutton System	SE-2005-08	PEL-002P	6/2/2010	----
Pedestrian Pushbutton System	SE-2119-P29	PEL-003P	11/28/2011	----
Pedestrian Pushbutton System	SE-2120-P29	PEL-004P	11/28/2011	----
Pedestrian Pushbutton System	SE-2154-P29	PEL-005P	11/28/2011	----
POLEI 15 Polara Enterprises, LLC, 1497 CR 2178, Greenville, TX 75402 http://www.polara.com/ <i>Purchased Polara Engineering (Corona, CA) in January 2019.</i>				
Pedestrian Pushbutton System	BDL3-X	POL-014P	8/2/2013	----

1104.07(c)2 Pedestrian Detection: Accessible Pedestrian Signals (APS)

Last Revised: 10/19/2021

Product	Name	COA	COA Date	Ref. No.
CAMCO 15 Campbell Company, 450 West McGregor Drive, Boise, ID 83705 http://www.pedsafety.com/				
Accessible Pedestrian Signal System	A 915	DCC-010P	5/20/2011	----
Accessible Pedestrian Signal System	AAPS	DCC-012P	5/18/2015	----
Accessible Pedestrian Signal System	Advisor APS A912	DCC-006P	11/18/2008	----
Accessible Pedestrian Signal System	APB 915	DCC-009P	5/20/2011	----
Accessible Pedestrian Signal System	Guardian APS	DCC-015P	4/25/2019	----
Accessible Pedestrian Signal System	Guardian Wave APS			2021-165Q
Accessible Pedestrian Signal System	WiAAPS	DCC-014P	8/14/2018	----



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Section 1104: Traffic Signals

1104.07(c)2 Pedestrian Detection: Accessible Pedestrian Signals (APS)

Last Revised: 10/19/2021

Product	Name	COA	COA Date	Ref. No.
NOVIC 15	Novac Industries Corporation, #202 - 1525 Cliveden Ave., Delta BC Canada, V3M 6L2 http://www.novax.com/			
Accessible Pedestrian Signal System	DS3000	NOV-001P	2/3/2012	----
PELCO- 15	Pelco Products, Inc., 320 S.W. 18th Street, Edmond, OK 73013 http://www.pelcoinc.com/			
Accessible Pedestrian Signal System	Intellicross	PEL-006P	10/4/2016	-
POLEI 15	Polara Enterprises, LLC, 1497 CR 2178, Greenville, TX 75402 http://www.polara.com/ <i>Purchased Polara Engineering (Corona, CA) in January 2019.</i>			
Accessible Pedestrian Signal System	BDLM2-X	POL-013P	9/23/2010	----
Accessible Pedestrian Signal System	iDS2 (iNavigator S 2-Wire APS with iDetect)			2021-018Q
Accessible Pedestrian Signal System	iDS3 (iNavigator S 3-Wire APS with iDetect)			2021-019Q
Accessible Pedestrian Signal System	iN2 (iNavigator 2-Wire APS)	POL-015P	3/16/2018	2017-156Q
Accessible Pedestrian Signal System	iN3 (iNavigator 3-Wire APS)	POL-016P	3/16/2018	2017-155Q
Accessible Pedestrian Signal System	iNS2 (iNavigator Next Generation 2-Wire APS)	POL-017P	10/28/2020	2020-171Q
Accessible Pedestrian Signal System	iNS3 (iNavigator Next Generation 3-Wire APS)	POL-018P	10/28/2020	2020-172Q
Accessible Pedestrian Signal System	Navigator 2-Wire APS	POL-010P	5/11/2004	----
Accessible Pedestrian Signal System	Navigator 4-Wire APS	POL-011P	5/11/2004	----

1104.07(d) LED Preemption Confirmation Lights

Last Revised: 3/16/2016

Product	Name	COA	COA Date	Ref. No.
DIACO 15	Dialight Corporation, 1501 Route 34 South, Farmingdale, NJ 07727 http://www.dialight.com/			
8-inch White, LED Module	433-7170-001	DIA-062P	5/2/2012	----



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Section 1104: Traffic Signals

1104.07(d) LED Preemption Confirmation Lights

Last Revised: 3/16/2016

Product	Name	COA	COA Date	Ref. No.
LEOEC 15 Leotek Electronics USA, LLC, 1955 Lundy Avenue, San Jose, CA 95131 http://www.leotek.com/				
8-inch White, LED Module	TP08B-WS	LEO-114P	3/4/2016	-

1104.07(d) Traffic Signal Preemption Systems

Last Revised: 11/7/2023

Product	Name	COA	COA Date	Ref. No.
AINFO 15 Applied Information, Inc., 4411 Suwanee Dam Road, Suite 510, Suwanee, GA 30024 https://appinfoinc.com/				
GPS (Radio Based) Preemption System	AI-500-085 Glance Preempt	AEA-002P	7/14/2020	2019-198Q

EMTRAC1 STC, Inc., 1201 West Randolph Street, McLeansboro, IL 62859 <https://www.emtracsystems.com/>

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Optical Preemption System	EMTRAC ST-9320 2-Channel Optical Priority Detector	ESI-001P	4/25/2019	----
Optical Preemption System	EMTRAC ST-9340 4-Channel Optical Priority Detector	ESI-001P	4/25/2019	----
Optical Preemption System	EMTRAC ST-9730 Optical Sensor	ESI-001P	4/25/2019	----
Optical Preemption System	EMTRAC ST-9731 Optical Sensor	ESI-001P	4/25/2019	----
Optical Preemption System	EMTRAC ST-9732 Optical Sensor	ESI-001P	4/25/2019	----

ETS-1 15 Emergency Traffic Systems, Inc., 540 West 18th Street, Erie, PA 16502-3716

Radio Preemption System	PR1 Program and Phase	EME-001P	12/3/2018	2018-135Q
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Section 1104: Traffic Signals

1104.07(d) Traffic Signal Preemption Systems

Last Revised: 11/7/2023

Product	Name	COA	COA Date	Ref. No.
GLOTT 15 Global Traffic Technologies, LLC, 7800 Third Street North, Building 100, St. Paul, MN 55128-5441 http://www.gtt.com/				
GPS (Radio Based) Preemption System	OPTICOM GPS System	GTT-001S	11/26/2008	----
Optical Preemption System	452	MMM-029P	3/10/1999	----
Optical Preemption System	454	MMM-028P	3/10/1999	----
Optical Preemption System	462	GTT-004P	11/11/2012	----
Optical Preemption System	464	GTT-005P	11/11/2012	----
Optical Preemption System	752	MMM-030P	3/11/1999	----
Optical Preemption System	754	MMM-031P	3/11/1999	----
Optical Preemption System	762	GTT-002P	2/20/2012	----
Optical Preemption System	764	GTT-003P	2/20/2012	----
Optical Preemption System	OPTICOM	MMM-006S	5/1/1979	----
TOMEI 15 Tomar Electronics, Inc., 2100 West Obispo Avenue, Gilbert, AZ 85233 http://tomar.com/				
Optical Preemption System	Strobecom I	TEL-002S	4/2/1998	----
Optical Preemption System	Strobecom II	TEL-003P	4/27/1998	----
TRASYS 15 Traffic Systems LLC, 18631 North 19th Avenue, Phoenix, AZ 85027-5800 http://www.trafficsystemsllc.com/				
Acoustic Preemption System	SONEM 2000	TSL-001S	6/1/2001	----
WAPEN 15 Wapiti Micro Systems, 4565 Glenbrook Road, Willoughby, OH 44094 https://www.wapitimicrosystems.com/				
Acoustic Preemption System	Right O' Way Emergency Preemption System (R.O.W.-2)	WAP-001S	4/30/2008	----



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Section 1105: Fabricated Structural Steel and Aluminum

Steel Products Procurement Act applies.

1105 Fabricated Structural Steel: Fabricators and Machine Shops

Any manufacturer approved by the American Institute of Steel Construction (AISC) and PennDOT will be qualified for steel fabrication as specified in this Section. For listing of approved fabricators, see Bulletin 15 Section, "AISC - Department Register of Certified Structural Steel Fabricators (AISC)".

For a listing of approved Machine Shops that provide services and materials to structural steel fabricators, see Bulletin 15 Section, "MACH - PennDOT Register of Certified Machine Shops".

1105.02(a) Structural Steel

For Producers of Fabricated Structural Steel, PennDOT accepts material supplied from any Steel Mill as long as the material complies with the requirements of Publication 408, Section 106, "Control of Material".

1105.02(c)1 Bolts, Nuts and Washers for General Application

Last Revised: 10/6/2023

Several ASTM A307 Bolt and Nut manufacturers also are listed in Section 1109 "Guide Rail and Metal Median Barrier".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
AMBBO 15 Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 Nut (ASTM A563)	http://www.ameribolt.com/	2014-176QA
ATLRC 15 Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 Nut (ASTM A563)	http://www.atlrod.com/	2011-091Q
AUTBN 15 Auto Bolt Company, 4740 Manufacturing Avenue, Cleveland, OH 44135 Bolt (ASTM A307, Grade A)	http://autobolt.net	2005-099Q
BIRFM 15 Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 Bolt (ASTM A307, Grade A)		2003-146Q
DYSNC 15 Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 Nut (ASTM A563)	http://www.dysoncorp.com/index.html	2000-211Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)1 Bolts, Nuts and Washers for General Application

Last Revised: 10/6/2023

Several ASTM A307 Bolt and Nut manufacturers also are listed in Section 1109 "Guide Rail and Metal Median Barrier".

See [Hardware Manufacturing Symbols](#)

	Product	Name	Ref. No.
FAST1 15	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Facility Holo-Krome 5800 Industrial Avenue Loves Park, IL 61111 Bolt (ASTM A307, Grade A)	https://www.fastenal.com/	2019-211Q
FAST2 15	Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 Facility Holo-Krome 61 Barnes Industrial Park North Wallingford, CT Bolt (ASTM A307, Grade A)	https://www.fastenal.com/	2019-213Q
FONT1 15	Acument Global Technologies, Fontana Gruppo Company, 6125 18 Mile Road, Sterling Heights, MI 48314 Facility Fontana Fasteners 3595 IN-28 Frankfort, IN 46041 Nut (ASTM A563, Grade C) Nut (ASTM A563, Grade DH)	https://gruppofontana.it/le-usa/?lang=en LE USA LE USA	2020-078QA1 2020-078QA2
GAFBC 15	Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 Bolt (ASTM A307, Grade A)	http://gaffneybolt.com/	1999-025Q
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 Bolt (ASTM A307, Grade A)	http://www.haydonbolts.com/	1990-047A
MNP-C 15	MNP Corporation, 44225 Utica Road, Utica, MI 48318 Bolt (ASTM A307, Grade A)	http://www.mnp.com/	1991-022B
NUCR0 15	Nucor Fastener, 6730 County Rd. 60, St. Joe, IN 46785 Bolt (ASTM A307, Grade A) Nut (ASTM A563)	http://nucor-fastener.com/	1990-197A 1990-197B



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)1 Bolts, Nuts and Washers for General Application

Last Revised: 10/6/2023

Several ASTM A307 Bolt and Nut manufacturers also are listed in Section 1109 "Guide Rail and Metal Median Barrier".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
PORBM 15 Portland Bolt and Manufacturing, Inc., 3441 NW Guam Street, P.O. Box 2866, Portland, OR 97210 Bolt (ASTM A307, Grade A)	http://www.portlandbolt.com/	2008-049QB
PRSTA 15 Prestige Stamping, Inc., 23513 Grosbeck Highway, Warren, MI 48089 Washer (ANSI B18.22M)	https://prestigestamping.com/	2010-151Q
ROCBC 15 Rockford Bolt and Steel Company, 126 Mill Street, Rockford, IL 61101 Bolt (ASTM A307, Grade A)		2003-056Q
SOEBS 15 Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 Bolt (ASTM A307, Grade A) Nut (ASTM A563)	http://www.sebolt.com/	1991-059 1991-059
STLSB 15 St. Louis Screw & Bolt, P.O. Box 260, 2000 Access Blvd., Madison, IL 62060 Bolt (ASTM A307, Grade A)	http://www.stlouisscrewbolt.com/	1998-191
TELF1 15 Telefast Industries, Inc., 777 West Bagley Road, Berea, OH 44017 Nut (ASTM A563)		2004-107Q

1105.02(c)2 Anchor Bolts (AASHTO M270), Nuts, and Washers

Last Revised: 10/6/2023

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
AMBBO 15 Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 Nut (ASTM A563)	http://www.ameribolt.com/	2014-176QB



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)2 Anchor Bolts (AASHTO M270), Nuts, and Washers

Last Revised: 10/6/2023

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
BENNE 15 Bennett Bolt Works, Inc., P. O. Box 922, Jordan, NY 13080 https://www.bennettbolt.com/ Plant 12 Elbridge Street Jordan, NY 13080 Anchor Bolt (AASHTO M270, Grade 36)		1985-135B
BIRFM 15 Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 Anchor Bolt (AASHTO M270, Grade 36)		2006-040Q
FONT1 15 Acument Global Technologies, Fontana Gruppo Company, 6125 18 Mile Road, Sterling Heights, MI 48314 https://gruppofontana.it/le-usa/?lang=en Facility Fontana Fasteners 3595 IN-28 Frankfort, IN 46041 Nut (ASTM A563, Grade DH)	LE USA	2020-078QB
FOST0 15 L.B. Foster Company, 415 Holiday Drive, Pittsburgh, PA 15220 http://www.lbfoster.com/ Anchor Bolt (AASHTO M270, Grade 36)		-----
FOUND 15 Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 http://fsabolt.com/ Anchor Bolt (AASHTO M270, Grade 36)		1990-385B
HAYDN 15 Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/ Anchor Bolt (AASHTO M270, Grade 36)		1990-047B
HERBC 15 Hercules Bolt Company, 1010 River Bluff Drive, Madison, TN 37115 http://herculesbolt.com/ Anchor Bolt (AASHTO M270, Grade 36)		1998-196
PABOL 15 Pennsylvania Bolt Corporation, P.O. Box 256, Manatawny Road, Pine Forge, PA 19548-0256 Anchor Bolt (AASHTO M270, Grade 36) Washer (ASTM F436)		1987-299 1991-115



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)2 Anchor Bolts (AASHTO M270), Nuts, and Washers

Last Revised: 10/6/2023

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
S&SFA 15 S & S Fastners, 2501A Duss Avenue, Ambridge, PA 15003 http://www.ss-fastener.com/ Anchor Bolt (AASHTO M270, Grade 36)		1993-295
TECSI 15 Technical Stamping Inc., 50600 E. Russell Schmidt Blvd., Chesterfield, MI 48051 http://technicalstamping.net/ Washer (ASTM F436)		2006-078Q
UNIQU 15 Unique Industries, P.O. Box 683, Calera, AL 35040 http://www.uiind.com/ Plant 13488 Highway 25 North Calera, AL 35040 Anchor Bolt (AASHTO M270, Grade 36)		1990-260

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 9/22/2021

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
ALPTP 15 All-Pro Threaded Products, Inc, 1915 Peyco Drive North, Arlington, TX 76001 http://www.all-profasteners.com/ Anchor Bolt (ASTM F1554, Grade 105) Anchor Bolt (ASTM F1554, Grade 36) Anchor Bolt (ASTM F1554, Grade 55)		2012-026QB 2012-026QA 2011-141Q
AMBBO 15 Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 http://www.ameribolt.com/ Anchor Bolt (ASTM F1554, Grade 105) Anchor Bolt (ASTM F1554, Grade 36) Anchor Bolt (ASTM F1554, Grade 55) Nut (ASTM A563)		2012-150QD 2012-150QB 2012-150QC 2014-176QC



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 9/22/2021

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
ATLRC 15 Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2011-090Q
Anchor Bolt (ASTM F1554, Grade 36)		2011-090Q
Anchor Bolt (ASTM F1554, Grade 55)		2011-090Q
BENNE 15 Bennett Bolt Works, Inc., P. O. Box 922, Jordan, NY 13080 https://www.bennettbolt.com/ Plant 12 Elbridge Street Jordan, NY 13080		
Anchor Bolt (ASTM F1554, Grade 105)		2015-146Q
Anchor Bolt (ASTM F1554, Grade 36)		2015-146Q
<i>A weldable grade 55 anchor bolt may not be supplied as a substitute when Grade 36 is specified.</i>		
Anchor Bolt (ASTM F1554, Grade 55)		2015-146Q
BIRFM 15 Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234		
Anchor Bolt (ASTM F1554, Grade 105)		2014-004Q
Anchor Bolt (ASTM F1554, Grade 36)		2006-039Q
Anchor Bolt (ASTM F1554, Grade 55)		2006-038Q
CFAST 15 CFAST, LLC, 801 43rd Street North, Birmingham, AL 35212		
Anchor Bolt (ASTM F1554, Grade 105)		2005-123Q
Anchor Bolt (ASTM F1554, Grade 36)		2005-122Q
DECKM 15 Decker Manufacturing Corporation, 703 North Clark Street, Albion, MI 49224 http://www.deckernut.com/		
Nut (ASTM A563)		1989-094
DYSNC 15 Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 http://www.dysoncorp.com/index.html		
Anchor Bolt (ASTM F1554, Grade 55)		2017-030Q
Nut (ASTM A563)		2000-210Q



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1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 9/22/2021

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
EASCT 15 East Coast Threading Company, 1520 Manatawny Road, P.O. Box 347, Pine Forge, PA 19548 http://eastcoastthreading.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2008-089QC
Anchor Bolt (ASTM F1554, Grade 36)		2008-089QA
Anchor Bolt (ASTM F1554, Grade 55)		2008-089QB
FOUND 15 Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 http://fsabolt.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2003-128Q
Anchor Bolt (ASTM F1554, Grade 36)		2003-128Q
Anchor Bolt (ASTM F1554, Grade 55)		2003-128Q
Nut (ASTM A563)		2011-020QA
GAFBC 15 Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 http://gaffneybolt.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2020-168Q
HALL2 15 Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2003-109Q
HAYDN 15 Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2003-117Q
Anchor Bolt (ASTM F1554, Grade 36)		2003-117Q
Anchor Bolt (ASTM F1554, Grade 55)		2003-117Q
HERBC 15 Hercules Bolt Company, 1010 River Bluff Drive, Madison, TN 37115 http://herculesbolt.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2003-114Q
Anchor Bolt (ASTM F1554, Grade 36)		2003-112Q
Anchor Bolt (ASTM F1554, Grade 55)		2003-113Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 9/22/2021

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
JHBTS 15 J. H. Botts, Inc., 253 East Bruce St., Joliet, IL 60432 http://www.jhbotts.com/products.htm		
Anchor Bolt (ASTM F1554, Grade 105)		2001-001Q
Anchor Bolt (ASTM F1554, Grade 36)		2001-001Q
Anchor Bolt (ASTM F1554, Grade 55)		2001-001Q
PORBM 15 Portland Bolt and Manufacturing, Inc., 3441 NW Guam Street, P.O. Box 2866, Portland, OR 97210 http://www.portlandbolt.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2008-049QF
Anchor Bolt (ASTM F1554, Grade 36)		2008-049QD
Anchor Bolt (ASTM F1554, Grade 55)		2008-049QE
PRSTA 15 Prestige Stamping, Inc., 23513 Grosbeck Highway, Warren, MI 48089 https://prestigestamping.com/		
Washer (ASTM F436)		1999-157Q
TECSI 15 Technical Stamping Inc., 50600 E. Russell Schmidt Blvd., Chesterfield, MI 48051 http://technicalstamping.net/		
Washer (ASTM F436)		2006-078Q
TFI-1 15 Threaded Fasteners, Inc., 3200-B Crichton Street, Mobile, AL 36607 https://threadedfasteners.com/ Facility Semmes Manufacturing 2650-B North Schillingers Road Semmes, AL 36575		
Anchor Bolt (ASTM F1554, Grade 105)		2017-001Q
Anchor Bolt (ASTM F1554, Grade 55)		2017-001Q
TRISB 15 Tristate Bolt Company, 1110 Fuller Drive, Garrett, IN 46738 http://www.tristateboltinc.com/		
Anchor Bolt (ASTM F1554, Grade 105)		2008-101Q
Anchor Bolt (ASTM F1554, Grade 36)		2008-101Q
Anchor Bolt (ASTM F1554, Grade 55)		2008-101Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(c)3 Anchor Bolts (ASTM F1554), Nuts, and Washers

Last Revised: 9/22/2021

For Anchoring Adhesives and Mechanical Anchors, see Miscellaneous Section, "Anchoring Devices for Use in Vertical Positions Only".

See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
UNIIS 15 Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 http://www.uisutah.com/uis2011/		
Anchor Bolt (ASTM F1554, Grade 36)		2011-064Q
Anchor Bolt (ASTM F1554, Grade 55)		2011-064Q
UNIQUE 15 Unique Industries, P.O. Box 683, Calera, AL 35040 http://www.uiind.com/ Plant 13488 Highway 25 North Calera, AL 35040		
Anchor Bolt (ASTM F1554, Grade 105)		2003-150Q
Anchor Bolt (ASTM F1554, Grade 36)		2003-150Q
Anchor Bolt (ASTM F1554, Grade 55)		2003-150Q

1105.02(d) High Strength Bolt Assemblies

Last Revised: 10/6/2023

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
ALPHA 15 Alpha Stamping Company, 33375 Glendale, Livonia, MI 48150 http://www.alphausa.com/		
Washer (ASTM F436)		1992-293
AMBBO 15 Ameribolt, Inc., 18060 AL Highway 21, Sycamore, AL 35149 http://www.ameribolt.com/		
Nut, Galvanized (ASTM A563)		2014-177Q
ATLRC 15 Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/		
Nut, Non-Galvanized (plain), (ASTM A194)		2011-093QC
BBC-F 15 BBC Fasteners, Inc., 4210 Shirley Lane, Alsip, IL 60803 http://www.bbcfasteners.com/		
High Strength Bolt (Grade A490, Type 3)		1996-171



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(d) High Strength Bolt Assemblies

Last Revised: 10/6/2023

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
BIRFM 15 Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234 High Strength Bolt (Grade A325)		2011-114Q
CHIFM 15 Chicago Fasteners Manufacturing, 10902 Walnut Lane, Mokena, IL 60448 http://www.chicagofastener.com/ High Strength Bolt (Grade A325)		1997-193
DYSNC 15 Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 http://www.dysoncorp.com/index.html High Strength Bolt (Grade A325) Nut, Galvanized (ASTM A563)		2000-208Q 2000-209Q
FAST2 15 Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 https://www.fastenal.com/ Facility Holo-Krome 61 Barnes Industrial Park North Wallingford, CT Heavy Hex Structural Bolt (Grade A325, Type 1) Heavy Hex Structural Bolt (Grade A325, Type 1)	Mechanically Galvanized Plain (Uncoated)	2019-214Q 2019-214Q
FONT1 15 Acument Global Technologies, Fontana Gruppo Company, 6125 18 Mile Road, Sterling Heights, MI 48314 https://gruppofontana.it/le-usa/?lang=en Facility Fontana Fasteners 3595 IN-28 Frankfort, IN 46041 High Strength Bolt (ASTM A490, Types 1 & 3) High Strength Bolt (Grade A325) Nut, Galvanized (ASTM A563, Grade DH)	LE USA LE USA LE USA	2007-146QB 2007-146QA 2020-078QD2
FOUND 15 Foundation Systems and Anchors, Inc., 2300 Allen Avenue, SE, Canton, OH 44707 http://fsabolt.com/ Nut, Non-Galvanized (plain), (ASTM A194)		2011-020QB
GAFBC 15 Gaffney Bolt Company, Inc., 6100 Material Avenue, Rockford, IL 61111 http://gaffneybolt.com/ High Strength Bolt (Grade A325)		1999-026Q
GRAHM 15 Graham Stamping Company, 1700 Broadway Ave., Wheatland, PA 16161 http://grahamstampingco.com/ Washer (ASTM F436)		1991-166



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(d) High Strength Bolt Assemblies

Last Revised: 10/6/2023

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
HAYDN 15 Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/ High Strength Bolt (Grade A325)		1990-047C
MNP-C 15 MNP Corporation, 44225 Utica Road, Utica, MI 48318 http://www.mnp.com/ High Strength Bolt (Grade A325)		1991-022A
NUCR0 15 Nucor Fastener, 6730 County Rd. 60, St. Joe, IN 46785 http://nucor-fastener.com/ High Strength Bolt (Grade A325) Nut, Galvanized (ASTM A563)		1989-021 1990-198
PRSTA 15 Prestige Stamping, Inc., 23513 Grosbeck Highway, Warren, MI 48089 https://prestigestamping.com/ Washer (ASTM F436)		1999-157Q
ROCBC 15 Rockford Bolt and Steel Company, 126 Mill Street, Rockford, IL 61101 High Strength Bolt (ASTM A490, Types 1 & 3) High Strength Bolt (Grade A325)		2003-055Q 2003-054Q
STLSB 15 St. Louis Screw & Bolt, P.O. Box 260, 2000 Access Blvd., Madison, IL 62060 http://www.stlouisscrewbolt.com/ Heavy Hex Structural Bolt (Grade A490, Types 1 & 3) Heavy Hex Structural Bolt (Grade A490, Types 1 & 3) High Strength Bolt (Grade A325) Nut, Galvanized (ASTM A563) Washer (ASTM F436)		2015-112Q 2015-112Q 1984-194 1984-194 1984-194
TECSI 15 Technical Stamping Inc., 50600 E. Russell Schmidt Blvd., Chesterfield, MI 48051 http://technicalstamping.net/ Washer (ASTM F436)		2006-078Q
TURNA 15 TurnaSure, LLC, 340 East Maple Avenue, Suite 206, Langhorne, PA 19047 http://www.turnasure.com/ Direct Tension Indicator Device (DTI)		2010-256Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(d) High Strength Bolt Assemblies

Last Revised: 10/6/2023

Bolts - ASTM F3125, Grades A325 or A490; Grade A490 bolts must be approved for use by the Chief Bridge Engineer. See [Hardware Manufacturing Symbols](#)

Product	Name	Ref. No.
TXBLT 15 Texas Bolt Company, 3233 West 11th Street, Houston, TX 77008		
	High Strength Bolt (Grade A325)	1989-029
	Nut, Non-Galvanized (plain), (ASTM A194)	1989-031
UNITT 15 Unytite, Inc., One Unytite Drive, Peru, IL 61354 http://www.unytiteusa.com/		
	High Strength Bolt (Grade A325)	1991-117
	Nut, Galvanized (ASTM A563)	1991-117
WWASH 15 Wrought Washer Manufacturing, Inc., 2100 South Bay Street, Milwaukee, WI 53207		
	Washer (ASTM F436)	1993-279

1105.02(e) Welded Stud Shear Connectors

Last Revised: 6/8/2015

AASHTO 10.3.1.9

Product	Name	Size (in.)	Ref. No.
BLUAC 15 Bluearc Stud Welding (Image Industries), 11220 East Main Street, Huntley, IL 60142 http://www.imageindustries.com/			
	Welded Stud Shear Connector	1/2	2011-076Q
	Welded Stud Shear Connector	3/8	2011-076Q
	Welded Stud Shear Connector	5/8	2011-076Q
	Welded Stud Shear Connector	3/4	2011-076Q
	Welded Stud Shear Connector	7/8	2011-076Q
COXND 15 Cox Industries, P. O. Box 366, New Haven, MI 48048 http://cox-industries.com/			
	Welded Stud Shear Connector	3/8	1991-104
	Welded Stud Shear Connector	1/2	1991-104
	Welded Stud Shear Connector	3/4	1991-104
	Welded Stud Shear Connector	5/8	1994-006
	Welded Stud Shear Connector	7/8	1994-006



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(e) Welded Stud Shear Connectors

Last Revised: 6/8/2015

AASHTO 10.3.1.9

Product	Name	Size (in.)	Ref. No.
NELSW 15 Nelson Stud Welding, Inc., 7900 West Ridge Road, Elyria, OH 44035 http://www.nelsonstud.com/ Formerly TRW Nelson Stud Welding Div. (TRWNS)			
	Welded Stud Shear Connector	1/2	1992-290C
	Welded Stud Shear Connector	5/8	1992-290D
	Welded Stud Shear Connector	3/4	1992-290E
	Welded Stud Shear Connector	7/8	1992-290F
	Welded Stud Shear Connector	3/8	2011-274QA
	Welded Stud Shear Connector	1	2011-274QB
STUDW 15 Stud Welding Associates, 41515 Schaden Road, Elyria, OH 44035 http://studwelding.com/			
	Welded Stud Shear Connector	1/4	1992-221
	Welded Stud Shear Connector	3/8	1992-221
	Welded Stud Shear Connector	1/2	1992-221
	Welded Stud Shear Connector	5/8	1992-221
	Welded Stud Shear Connector	3/4	1992-221
	Welded Stud Shear Connector	7/8	1992-221
TRUFT 15 Tru-Fit Products, Tru-Weld Division, 460 Lake Road, Medina, OH 44256 http://tfpcorp.com/			
	Welded Stud Shear Connector	1/4	1993-224
	Welded Stud Shear Connector	3/8	1993-224
	Welded Stud Shear Connector	1/2	1993-224
	Welded Stud Shear Connector	5/8	1993-224
	Welded Stud Shear Connector	3/4	1993-224
	Welded Stud Shear Connector	7/8	1993-224
	Welded Stud Shear Connector	1	1993-224

1105.02(j) Steel Pipe, Couplings, and Fittings



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(j) Steel Pipe, Couplings, and Fittings

For Producers of Fabricated Structural Steel, PennDOT accepts material supplied from any Steel Mill as long as the material complies with the requirements of Publication 408, Section 106, "Control of Material".

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
AMEGV 15	Valmont Coatings, American Galvanizing, 1919 12th Street, Williamstown, NJ 08094 Hot Dip Galvanizer	https://www.valmontcoatings.com/ 55 ft. x 6 ft.-6 in. x 10 ft.	1987-211
AMETG 15	American Tinning and Galvanizing Company, 552 West 12th Street, Erie, PA 16501 Hot Dip Galvanizer	http://www.galvanizeit.com/ 11 ft. x 3 ft. x 4 ft.	1995-104
ARTGV 15	Art Galvanizing Works, Inc., 3935 Valley Road, Cleveland, OH 44109 Hot Dip Galvanizer	http://www.artgalvanizing.com/ 12 ft. x 2 ft.-4 in. x 4 ft.	2002-136Q
AZZ-1 15	AZZ Galvanizing Services, Dixon, 310 East Progress Drive, Dixon, IL 61021 <i>Formerly AAA Galvanizing of Dixon, IL (AAAIL 15)</i> Hot Dip Galvanizer	http://www.azz.com/ 51 ft. x 7 ft. x 10 ft.	2003-059Q
AZZ-1015	AZZ Galvanizing, Inc., 800 6th Street South, Winsted, NM 55395 Hot Dip Galvanizer	http://www.azz.com/ 53' x 10' x 7'	2012-230Q
AZZ-1115	AZZ Galvanizing Services, Muncie, 2415 South Walnut Street, Muncie, IN 47302 <i>Formerly Witt Industries, Inc. (WITT1 15)</i> Hot Dip Galvanizer	http://www.azz.com/ 42' x 5'-6" x 7'	2006-033Q
AZZ-1215	AZZ Galvanizing Services, Plymouth, 2631 Jim Neu Drive, Plymouth, IN 46563 <i>Formerly Witt Industries (WITT2 15)</i> Hot Dip Galvanizer	http://www.azz.com/ 45' x 6' x 8'	2007-035Q
AZZ-1315	AZZ Galvanizing, Inc., 1461 Kin Ark Court, St. Louis, MO 63132 Hot Dip Galvanizer	http://www.azz.com/ 51' x 7'-3" x 10'	2013-060Q
AZZ-1415	AZZ Galvanizing Services, Tulsa, 1800 West 21st Street, Tulsa, OK 74107 Hot Dip Galvanizer	http://www.azz.com/ 56' x 5'-3" x 7'	2014-084Q
AZZ-2 15	AZZ Galvanizing Services, Hamilton, 7825 South Homestead Drive, Hamilton, IN 46724 <i>Formerly AAA Galvanizing of Hamilton, IN. (AAAIN 15)</i> Hot Dip Galvanizer	http://www.azz.com/ 35' x 6' x 12'-6"	2003-060Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
AZZ-3 15	AZZ Galvanizing Services, Joliet, 625 Mills Road, Joliet, IL 60433 http://www.azz.com/ <i>Formerly AAA Galvanizing of Joliet, IL (AAAJO 15)</i> Hot Dip Galvanizer	51' x 6'-6" x 9'-3"	2007-069Q
AZZ-4 15	AZZ Galvanizing Services, Peoria, 6718 West Plank Road, Peoria, IL 61604 http://www.azz.com/ <i>Formerly AAA Galvanizing of Peoria, IL (AAAPE 15)</i> Hot Dip Galvanizer	51' x 8'-6" x 8'-8"	2006-105Q
AZZ-5 15	AZZ Galvanizing Services, Nashville, 200 32nd Avenue, North, Nashville, TN 37209-3901 http://www.azz.com/ <i>Formerly North American Galvanizing Co. (NAMG1 15)</i> Hot Dip Galvanizer	51' x 6'-6" x 8'-6"	2010-108QA
AZZ-6 15	AZZ Galvanizing Services, Kansas City, 770 East 12th Street, Kansas City, MO 64126 http://www.azz.com/ <i>Formerly: North American Galvanizing Co. (NAMG2 15)</i> Hot Dip Galvanizer	30' x 4'-6" x 5'-6"	2002-091Q
AZZ-7 15	AZZ Galvanizing Services, Canton, 1723 Cleveland Avenue SW, Canton, OH 44707 http://www.azz.com/ <i>Formerly: North American Galvanizing Co. (NAMG3)</i> Hot Dip Galvanizer	51' x 6'-6" x 8'-6"	2005-046Q
AZZ-9 15	AZZ Galvanizing Services, Louisville, 6310 Kenloy Drive, Louisville, KY 40214 http://www.azz.com/ <i>Formerly North American Galvanizing Co. (NAMG5 15)</i> Hot Dip Galvanizer	42' x 5' x 6'	2010-108QB
BALGV 15	Baltimore Galvanizing, 7110 Quad Avenue, Baltimore, MD 21237 http://www.baltimoregalv.com/ Hot Dip Galvanizer	13' x 4'-6" x 4'-6"	1995-078
BBGAL 15	Big Bend Galvanizing LLC, 1000 Industrial Park Drive, Trenton, TN 38382 https://bigbendgalvanizing.com/ Hot Dip Galvanizer	33' x 5'-6" x 8'	2017-210Q
CANTG 15	Canton Galvanizing, 1821 Moore Avenue Southeast, Canton, OH 44707 Hot Dip Galvanizer	20 ft. x 6 ft. x 10 ft.	2019-156Q
COLUB 15	V&S Columbus Galvanizing, LLC, 987 Buckeye Park Road, Columbus, OH 43207 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	48' x 6' x 11'	----
CONGV 15	Connecticut Galvanizing, 239 Commerce Street, Glastonbury, CT 06033-0358 http://ctgalv.com/ Hot Dip Galvanizer	30'-6" x 5' x 7'-6"	2004-006Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
DUNGV 15	Duncan Galvanizing, 69 Norman Street, Everatt, MA 02149 http://www.duncangalvanizing.com/ Hot Dip Galvanizer	70' x 5'-2" x 7'	1997-012
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ Hot Dip Galvanizer	38'-6" x 5' x 6'	-----
FRONT 15	Frontier Hot-Dip Galvanizing, Inc., 1740 Elmwood Avenue, Buffalo, NY 14207-0199 http://www.frontiergalvanizing.com/ Hot Dip Galvanizer	27' x 4' x 6'	1988-312
GALVA 15	Galvan Industries, Inc., 7320 Millbrook Road, P.O. Box 369, Harrisburg, NC 28075 http://www.galvanelectrical.com/ Hot Dip Galvanizer	42' x 4'-6" x 7'	1995-177
GLVZR 15	Galvanizers, Incorporated, 714 12th Avenue Northeast, West Fargo, ND 58078 http://www.galvanizersinc.com/ Hot Dip Galvanizer	41' x 4'-6" x 5'	1998-187
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm Hot Dip Galvanizer	16' x 5' x 9'	2011-137Q
HUBBL 15	O. W. Hubbell and Sons, P.O. Box 37, New York Mills, NY 13417 http://www.whyrust.com Hot Dip Galvanizer	46' x 5' x 10'	1995-034
INDGA 15	Indiana Galvanizing, LLC, 51702 Lovejoy Drive, Middlebury, IN 46540 Hot Dip Galvanizer	33' x 5'-4" x 8'	2013-175Q
INGAL 15	Valmont Coatings, Birmingham Galvanizing, 475 Dietrich Road, Steele, AL 35987 http://www.valmontcoatings.com/ Hot Dip Galvanizer	58' x 7'-2" x 9'	2010-160Q
KORNS 15	V&S Korns Galvanizing, LLC, 75 Bridge Street, Johnstown, PA 15902 https://hotdipgalvanizing.com/ <i>Formerly Korns Galvanizing Company</i> Hot Dip Galvanizer	12' x 3'-6" x 5'	1994-101
		Hot Dip Galvanizer	8' x 3'-6" x 4'	1994-101
KTGAL 15	K-T Galvanizing Company, Inc., 2500 Chambers Road, Venus, TX 76084 http://www.ktgalvanizing.com/ Hot Dip Galvanizer	24' x 3'-6" x 6'	2011-218Q
KTGAL115	K-T Galvanizing Company, Inc., 5105 East 3rd Street, P.O. Box 560, Katy, TX 77493 http://www.ktgalvanizing.com/ Hot Dip Galvanizer	16' x 4' x 6'	2011-217Q
MANDR 15	M&R Plating, Inc., 303 Westlink Industrial Dr., Washington, MO 63090 http://www.mrplating.com/ Plant 303 Westlink Industrial Dr. Washington, MO 63090 Mechanical Galvanizer (Not Hot Dip)	N/A	2015-121Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
MECGV 15	Mechanical Galv-Plating Corporation, 933 Oak Avenue, P.O. Box 56, Sidney, OH 45365 Mechanical Galvanizer (Not Hot Dip)	http://www.mechanicalgalv-plating.com/	1994-015
MONNG 15	Monnig Industries, Inc., P.O. Box 98, Glasgow, MO 65254-0098	http://monnigindustries.com/	
	Hot Dip Galvanizer	24' x 4' x 5'-6"	1991-027
	Hot Dip Galvanizer	24' x 5' x 4'-6"	1991-027
	Hot Dip Galvanizer	2 barrels, 10 cu. ft. each	1991-027
MPGV1 15	Metalplate Galvanizing, Inc., 757 44th Street North, Birmingham, AL 35201	http://www.metalplate.com/	
	Hot Dip Galvanizer	22' x 4'-4" x 5'-6"	1984-203
MPGV2 15	Metalplate Galvanizing, Inc., 1120 39th Street North, Birmingham, AL 35201	http://www.metalplate.com/	
	Hot Dip Galvanizer	42' x 5' x 6'	1984-203
MPGV3 15	Metalplate Galvanizing, Inc., 500 Selig Drive, Atlanta, GA 30336	http://www.metalplate.com/	
	Hot Dip Galvanizer	42' x 5' x 6'	1984-203
MPGV4 15	Metalplate Galvanizing, Inc., 7123 Moncrief Road West, Jacksonville, FL 32219	http://www.metalplate.com/	
	Hot Dip Galvanizer	28' x 5' x 6'	1984-203
MPGV5 15	Metalplate Galvanizing, Inc., 10625 Needham Street, Houston, TX 77013	http://www.metalplate.com/	
	Hot Dip Galvanizer	42' x 5' x 6'	1984-203
NEGVV 15	Neville Galvanizing, 3005 Grand Avenue, Neville Island, Pittsburgh, PA 15225		
	Hot Dip Galvanizer	21' x 4'-6" x 3'-2"	----
NICGV 15	Nicholas Galvanizing Company, 120 Duffield Avenue, Jersey City, NJ 07306		
	Hot Dip Galvanizer	21' x 3' x 3'-4"	1989-005
NJG&T 15	New Jersey Galvanizing and Tinning Works, 139 Hayes Avenue, Newark, NJ 07114	http://www.newjerseygalvanizing.com/#/	
	Hot Dip Galvanizer	40'-6" x 4'-4" x 4'-6"	----
OH-GV 15	Ohio Galvanizing Corporation, 467 West Fairground Street, Marion, OH 43302	http://www.ohgalv.com/	
	Hot Dip Galvanizer	30'-6" x 5' x 7'-6"	1996-254
PLTCO 15	Plateco, Inc., 1375 Industrial St., Reedsburg, WI 53959	http://www.platecoinc.com/	
	Mechanical Galvanizer (Not Hot Dip)		2012-078Q
QUAG- 15	Quality Galvanizing, 1110 Fuller Drive, Garrett, IN 46738		
	Hot Dip Galvanizer	6'-7" x 2'-4" x 3"-6"	2014-032Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
RGBGV 15	AZZ Galvanizing - Rockford (Formerly Rogers Brothers Inc.), 1925 Kishwaukee Street, Rockford, IL 61104	https://www.azz.com/	
	Hot Dip Galvanizer	12' x 3' x 4'	1995-214
	Hot Dip Galvanizer	22' x 4' x 5' (2 tanks)	1995-214
SAGV0 15	South Atlantic Galvanizing, P.O. Box 1042, US Highway 276 West, Travelers Rest, SC 29690	http://www.southatlanticllc.com/	
	Hot Dip Galvanizer	28' x 4' x 6'-6"	----
SAGV1 15	South Atlantic Galvanizing, 3025 Steel Way Drive, P.O. Box 1380, Graham, NC 27253	http://www.southatlanticllc.com/	
	Hot Dip Galvanizer	51' x 5' x 10'	1983-142
SAGV2 15	South Atlantic Galvanizing, P.O. Box 876, Highway 280 West, Claxton, GA 30417	http://www.southatlanticllc.com/	
	Hot Dip Galvanizer	28' x 4' x 6'-6"	1983-142
SAGV3 15	South Atlantic Galvanizing, 4186 South Creek Road East, Chattanooga, TN 37406	http://www.southatlanticllc.com/	
	Hot Dip Galvanizer	45' x 5'-6" x 9'	----
SAGV4 15	South Atlantic Galvanizing, 11022 Lewistown Road, Ashland, VA 23005	http://www.southatlanticllc.com/	
	Formerly Virginia Galvanizing (VAGAL)		
	Hot Dip Galvanizer	42' x 6'-6" x 8'-6"	1997-053
SOUGV 15	Southern Galvanizing, Inc., 1620 Bush Street, Baltimore, MD 21230	http://southerngalvanizing.com/	
	Hot Dip Galvanizer	35' x 6'-6" x 8'	----
SWGLV 15	Southwest Galvanizing, Inc., 737 Aleen Street, P.O. Box 24188, Houston, TX 77229-4188	http://www.swgalvanizing.com/	
	Hot Dip Galvanizer	42' x 5' x 5'-6"	1998-210
	Hot Dip Galvanizer	32'-6" x 4'-2" x 5'	1998-210
	Hot Dip Galvanizer	30'-6" x 4' x 5'	1998-210
	Hot Dip Galvanizer	14' x 3' x 4'-2"	1998-210
TENNG 15	Tennessee Galvanizing, Inc., 1535 Industrial Boulevard, P.O. Box 609, Jasper, TN 37347	http://tennesseegalvanizing.com/	
	Hot Dip Galvanizer	42' x 5' x 7'	2001-083Q
	Hot Dip Galvanizer	18' x 2'-2" x 6'-6"	2001-083Q
	Hot Dip Galvanizer	14' x 4' x 5'	2001-083Q
TRIN2 15	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001	https://www.valtir.com/	
Plant	550 East Robb Avenue Lima, OH 45801		
	Formerly Trinity Highway Products, LLC		
	Hot Dip Galvanizer	55' x 6' x 8'-3"	2010-131Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
TRIN3 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 2548 NE 28th Street Ft. Worth, TX 76111 <i>Formerly Trinity Highway Products, LLC</i> Hot Dip Galvanizer	42' x 13' x 9'	2010-271Q
TRIN6 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 600 Prosperity Drive Orangeburg, SC 29115 <i>Formerly Trinity Highway Products, LLC</i> Hot Dip Galvanizer	42 ft. x 12 ft. x 8 ft. - 6 in.	2017-260Q
UNIGI 15	Universal Galvanizing, Inc., 501 SE 1st Street, Wright City, MO 63390 http://ug.monningindustries.com/ Hot Dip Galvanizer	25' x 5' x 7'	2012-254Q
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 http://www.uisutah.com/uis2011/ Hot Dip Galvanizer	45' x 5' x 7'	2011-063QC
VALM0 15	Valmont Industries, Inc., P. O. Box 358, Highway #275, Valley, NE 68064 http://www.valmont.com/ Hot Dip Galvanizer	58' x 6' x 8'-6"	1991-142
VALM3 15	Valmont Coatings, Empire Galvanizing, 10909 Franklin Avenue, Franklin Park, IL 60131 https://www.valmontcoatings.com/ Hot Dip Galvanizer Hot Dip Galvanizer	52' x 4'-8" x 6' 26' x 5' x 7'	2000-152Q 2000-152Q
VALM6 15	Valmont Coatings, Salina Galvanizing, 1100 North Ohio Street, Salina, KS 67401 https://www.valmontcoatings.com/ Hot Dip Galvanizer	55' x 12' x 10'-6"	2013-203Q
VALM7 15	Valmont Coatings Gateway Galvanizing, 1117 Brown Forman Road, Jeffersonville, IN 47130 https://www.valmontcoatings.com/ Hot Dip Galvanizer	44' x 6'-5" x 7'-5"	2000-310Q
VALM8 15	Valmont Coatings, Virginia Galvanizing, 3535 Halifax Road, Petersburg, VA 23805 https://www.valmontcoatings.com/ Hot Dip Galvanizer	49' x 5'-8" x 8'-8"	1998-092
VALM9 15	Valmont Coatings, Pittsburgh Galvanizing, 9 South 12th Street, Midland, PA 15059 https://www.valmontcoatings.com/ Hot Dip Galvanizer Hot Dip Galvanizer	54 ft. x 8 ft. 3 in. x 10 ft. 6 in.	2021-065Q
VICTA 15	Victaulic Company Of America, Apex Facility, 119 Edison Road, Stewartville, NJ 08886 http://www.victaulic.com/ Hot Dip Galvanizer	21' x 3' x 4'-6"	2000-277Q
VOISG 15	V&S Detroit Galvanizing, LLC, 12600 Arnold Street, Redford, MI 48239 http://www.hotdipgalvanizing.com/ Hot Dip Galvanizer	42' x 6' x 8'-6"	2000-311Q



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Section 1105: Fabricated Structural Steel and Aluminum

1105.02(s) Galvanizers

Last Revised: 9/29/2023

Product	Name	Tank Size (L x W x D)	Ref. No.
VSAGV 15 Hot Dip Galvanizer	V&S Amboy Galvanizing, LLC, 1190 Amboy Avenue, Perth Amboy, NJ 08861	http://www.hotdipgalvanizing.com/ 25' x 6' x 10'	2000-278Q
VSDGV 15 Hot Dip Galvanizer	V&S Delaware Galvanizing, LLC, 511 Carroll Drive, New Castle, DE 19720	http://www.hotdipgalvanizing.com/ 29' x 6' x 10'	2010-239Q
VSLGV 15 Hot Dip Galvanizer	V&S Lebanon Galvanizing, LLC, 153 Micro Drive, Jonestown, PA 17038	http://www.hotdipgalvanizing.com/ 56' x 7'-2" x 10'-2"	2002-033Q
VSMGV 15 Hot Dip Galvanizer	V&S Memphis Galvanizing, LLC, 3348 Fite Road, Millington, TN 38053	48' x 6'-4" x 11'	2017-279Q
VSNYGV15 Hot Dip Galvanizer	V&S New York Galvanizing, LLC, 272 Corporate Drive, Owego, NY 13827	https://www.hotdipgalvanizing.com/ 29' x 6' x 10'	2020-043Q
VSTGV 15 Hot Dip Galvanizer	V&S Taunton Galvanizing, LLC, 585 John Hancock Road, Taunton, MA 02780	http://www.hotdipgalvanizing.com/ 29' x 6' x 10'	2007-045Q
YOUNG 15 Hot Dip Galvanizer	Young Galvanizing, Inc., P. O. Box 334, Route 551, Pulaski, PA 16143	http://younggalvanizing.com/ 48' x 5' x 8'-6"	----
		24' x 5' x 6'	----
YSI-1 15 Hot Dip Galvanizer	Yellowstone Industrial, LLC, 1170 North State Street, PO Box 120, Girard, OH 44420	42 ft. x 5 ft.-3 in. x 7 ft.-9 in.	2023-137Q



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Section 1107: Prestressed Concrete Bridge Beams

1107.02 Prestressed Concrete Bridge Beams

Last Revised: 1/5/2018

Note: Applicable Prestressed Concrete Institute (PCI) Plant Certification codes listed after product name. [Approved Bridge and Structure Products](#)

Product	Name	Letter Date	Ref. No.
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/ <i>Previous Supplier Codes: SRST0 15 & ADVPS 15</i>		
	Precast Plank Beam - Post Tensioned		2017-336Q
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) <i>Allowable Bed Moment = 48,114 in-kips</i> <i>Working Load = 3937 kips</i>		2017-162Q
CARRC 15	CARR Concrete, a Division of CXT, Inc., 362 Waverly Rd., Williamstown, WV 26187 http://www.carrconcrete.com/		
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) <i>Allowable Bed Moment = 15,146 in-kips</i> <i>Working Load = 946 kips</i>		2015-045Q
HIGCG 15	High Concrete Group, LLC, 125 Denver Road, Denver, PA 17517 http://www.high.net/		
	Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 12,900,000 pound-inches.</i> <i>Working Load = 2,150,000 pounds.</i>		2011-113Q
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/ <i>Note: Previously assigned J&RS2 15 for same facility</i>		
	Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 34,250,000 pound inches.</i> <i>Working Load = 1,352,000 pounds</i>		2012-016Q
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3)	8/13/1997	1995-044
	Total Precast Bridge Structures		-
J&RS2 15	J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 34,250,000 pound inches.</i> <i>Working Load = 1,352,000 pounds.</i>		2012-016Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 1107: Prestressed Concrete Bridge Beams

1107.02 Prestressed Concrete Bridge Beams

Last Revised: 1/5/2018

Note: Applicable Prestressed Concrete Institute (PCI) Plant Certification codes listed after product name. [Approved Bridge and Structure Products](#)

Product	Name	Letter Date	Ref. No.
JERPC 15	Jersey Precast Corporation, 853 Nottingham Way, Hamilton Township, NJ 08638	http://jerseyprecast.com/	
	Prestressed Straight-Strand Bridge Member Only (PCI Code: B3) <i>Allowable Bed Moment = 232 ft-k.</i> <i>Working Load = 1,548,000 lbs.</i>		2011-200Q
MACIN 15	PennStress, Division of MaInnis Group, LLC, 8180 Woodbury Pike, Roaring Spring, PA 16673	http://www.pennstress.com/	
	Next Beam Producer (SOL 483-13-07)		2011-077Q
	Precast Plank Beam - Post Tensioned		2015-125Q
	Prestressed Deflected and Straight-Strand Bridge Member (PCI Code: B4)		2011-077Q
	Total Precast Bridge Structures		-
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717	http://www.acmiller.com/	
	Precast Plank Beam - Post Tensioned		2017-198Q
NORPP 15	Northeast Prestressed Products LLC, 121 River Street, Cressona, PA 17929-1133	http://www.npp-llc.com/	
	Next Beam Producer (SOL 483-13-07) <i>Allowable Bed Moment = 37,200,000 pound inches.</i> <i>Working Load = 2,480,000 pounds.</i>		2012-015Q
	Prestressed Deflected and Straight-Strand Bridge Member (PCI Code: B4)		2012-015Q
	Total Precast Bridge Structures		-
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895	http://www.lcwhitford.com/	
	Prestressed Deflected and Straight-Strand Bridge Member (PCI Code: B4)		----
	Total Precast Bridge Structures		-

1107.02(m) Box Beam Void Forms

Last Revised: 9/14/2023

Product	Name	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
4/22/2024 8:29:36AM

Section 1107: Prestressed Concrete Bridge Beams

1107.02(m) Box Beam Void Forms

Last Revised: 9/14/2023

Product	Name	Ref. No.
CLFNA 15 Cellofoam North America, Inc., 33 Baron Park Road, Falmouth, VA 22405 http://cellofoam.com/ Box Beam Void Form	Cellofoam EPS	1999-080Q
DOW-3 15 DuPont, 1501 Larkin Center Drive, Midland, MI 48674 https://www.dupont.com/brands/styrofoam.html Box Beam Void Form	Styrofoam XPS	1999-182Q
INSUC 15 Insulation Corporation of America, 2571 Mitchell Avenue, Allentown, PA 18103 http://insulationcorp.com/ Box Beam Void Form	ICA-LITE (EPS)	1993-032
INSUL 15 Insul-Board, Inc., 2120 Colonial Ave., P. O. Box 8103, Erie, PA 16505 http://insulboard.com/ Box Beam Void Form	Insul-Board (EPS)	1988-107
OPC-N 15 Opco, Inc., Harrison Ave. West, P. O. Box 101, Latrobe, PA 15650 http://opcodirect.com/ Box Beam Void Form	Op-Foam (EPS)	1991-276
PACEM 15 Pacemaker Plastics Co., 126 New Pace Rd., Newcomertown, OH 43832 Box Beam Void Form	Chemform Polyvoid (EPS)	1992-149
POLMD 15 Poly Molding LLC, 96 Fourth Avenue, Haskell, NJ 07420 http://polymoldingllc.com/ Box Beam Void Form	Poly Foam	1995-311
SHELE 15 Shelter Enterprises, Inc., 8 Saratoga Street, Cohoes, NY 12047 http://www.shelter-ent.com/ Box Beam Void Form	Shelterfoam	2003-068Q
SPRCC 15 Spring Cove Container, 301 Cove Lane, Roaring Spings, PA 16673 http://www.springcove.com/ Box Beam Void Form	Cardboard	----

1107.02(n)3.b & 3.d Tendons: 7-Wire, Uncoated, Low-Relaxation Strand

Last Revised: 5/30/2018

AASHTO M 203 (ASTM A 416), Grade 270. Steel Products Procurement Act applies.

Section 1107.02(n)3.b effective with Pub 408/2020 Initial Edition (April 10, 2020).

Section 1107.02(n)3.d for Pub 408/2016 Change No. 7 and earlier



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1107: Prestressed Concrete Bridge Beams

1107.02(n)3.b & 3.d Tendons: 7-Wire, Uncoated, Low-Relaxation Strand

Last Revised: 5/30/2018

AASHTO M 203 (ASTM A 416), Grade 270. Steel Products Procurement Act applies.

Section 1107.02(n)3.b effective with Pub 408/2020 Initial Edition (April 10, 2020).

Section 1107.02(n)3.d for Pub 408/2016 Change No. 7 and earlier

Product	Name	Strength	Ref. No.
BKERT 15 Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067 http://www.bekaert.com/en/ Facility Van Buren, AR	7-Wire, Uncoated, Low-Relaxation Strand 0.500", 0.520", 0.600"		2016-181Q
INST2 15 Insteel Wire Products, 638 Rappahannock Wire Road, Gallatin, TN 37066 http://www.insteel.com/	7-Wire, Uncoated, Low-Relaxation Strand 0.500", 0.520", 0.600" LoLax	270K	1994-081
INST8 15 Insteel Wire Products, 1 Wiremil Road, Sanderson, FL 32087 http://www.insteel.com/	7-Wire, Uncoated, Low-Relaxation Strand 0.500", 0.520", 0.600" LoLax	270K	2012-237Q
SUMWP 15 Sumiden Wire Products Corporation, 710 Marshall Stuart Drive, Dickson, TN 37055 http://www.sumidenwire.com/	7-Wire, Uncoated, Low-Relaxation Strand 0.500", 0.520", 0.600" LoLax	270K	1998-151
WMCSC 15 Wire Mesh Corporation, 25219 Kuykendahl Rd Ste 290, The Woodlands, TX 77375 Facility State Road S-9-205 St. Matthews, SC 29135	7-Wire, Uncoated, Low-Relaxation Strand 0.500", 0.520", 0.600" WMC Strand	270K	2016-176Q

1107.02(p) Neoprene Joint Material

Last Revised: 1/25/2021

Product	Name	Ref. No.
ARMA2 15 Armacell LLC, 1004 Keisler Road NW, Conover, NC 28613 https://www.armacell.us/home/ Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	Armacell (EnsoLite) IG2	2020-269Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1107: Prestressed Concrete Bridge Beams

1107.02(p) Neoprene Joint Material

Last Revised: 1/25/2021

Product	Name	Ref. No.
ARMA2 15 Armacell LLC, 1004 Keisler Road NW, Conover, NC 28613 https://www.armacell.us/home/		
<i>Note: The Armacell (EnsoLite) IG2 product originally approved per PEQ 2019-159Q.</i>		
ARMCL 15 Armacell LLC, 7600 Oakwood Street Extension, P. O. Box 1038, Mebane, NC 27302 https://www.armacell.us/home/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	F-2062	2005-107Q
MONRP 15 Monmouth Rubber and Plastics, 75 Longbranch Avenue, Long Branch, NJ 07740 http://www.monmouthrubber.com/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	DK 2121 PADOT	2005-094Q
RUBAT 15 Rubatex International, LLC, 906 Adams Street, Bedford, VA 24523-2168 http://www.rubatexusa.com/		
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	G-207-N	2006-006Q
Closed-Cell Neoprene Sponge, Type 2, Class C, Grade 2	R-470	2005-116Q



BULLETIN 15 (Publication 35)

Qualified Products List for Construction

Posted:
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Section 1108: Post-Tensioning Operations

1108.03(f) Bonding and Grouting (Admixtures)

Concrete admixtures previously referenced in this section were moved to Section 711.3, Concrete Admixtures, and are listed as Grout Fluidifiers (GF).



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1109: Guide Rail and Metal Median Barrier

Steel Products Procurement Act applies

For Attenuation Devices, see Section 619

1109.01(a), (b) Rail Elements & Rubbing Rails (Guide Rail)

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary) [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Ref. No.
DI-HS 15	Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/	
Rail Element		1991-345
Rubbing Rail		1991-345
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/qccorp.htm	
Rail Element		1994-014
Rubbing Rail		1994-014
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/	
Rail Element		1989-180
Rubbing Rail		1989-180
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/	
Rubbing Rail		2012-194Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/	
Rail Element	RG-400	1996-230
Rubbing Rail		1999-077Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1109: Guide Rail and Metal Median Barrier

1109.01(a), (b) Rail Elements & Rubbing Rails (Guide Rail)

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary) [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

	Product	Name	Ref. No.
TRIN2 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 550 East Robb Avenue Lima, OH 45801 <i>Formerly Trinity Highway Products, LLC</i>	https://www.valtir.com/	
	Rail Element	21G Anchor Post Rail Element (RC-54M)	2010-132QA
	Rail Element	9G (12' 6" p/6' 3" Guide Rail), 11G (12' 6" p/3' 1 1/2" Guide Rail)	2010-132QA
	* Approved MM-USA marking as Identifiable Steel		
	Rail Element	Bridge Barrier Transition Rail Element (RC-50M)	2010-132QA
	Rubbing Rail		----
TRIN6 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 600 Prosperity Drive Orangeburg, SC 29115 <i>Formerly Trinity Highway Products, LLC</i>	https://www.valtir.com/	
	Rail Element	11G (12' 6" p/3' x 1 1/2" Guide Rail)	2018-104Q
V&SSE 15	V & S Schuler Engineering, 2240 Allen Ave. S.E., Canton, OH 44707	http://www.vsschuler.com/	
	Rubbing Rail		1994-046

1109.02(a), (b), (c) Terminal Sections (Guide Rail)

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary).

Terminal Section Bridge Connection: Standard Drawing RC-51M (Sheet 2 of 14) & RC-739M [Type 31 Strong Post Guide Rail to Standard Bridge Barrier]

Flared Terminal Section: Standard Drawing RC-53M (Sheet 2 of 3)

Guide Rail Terminal Section, Single: Standard Drawing RC-51M (Sheet 3 of 14)

Publication 13M, Design Manual, Part 2 Highway Design, Chapter 12, Guide Rail End Treatments and Terminals



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1109: Guide Rail and Metal Median Barrier

1109.02(a), (b), (c) Terminal Sections (Guide Rail)

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary).

Terminal Section Bridge Connection: Standard Drawing RC-51M (Sheet 2 of 14) & RC-739M [Type 31 Strong Post Guide Rail to Standard Bridge Barrier]

Flared Terminal Section: Standard Drawing RC-53M (Sheet 2 of 3)

Guide Rail Terminal Section, Single: Standard Drawing RC-51M (Sheet 3 of 14)

Publication 13M, Design Manual, Part 2 Highway Design, Chapter 12, Guide Rail End Treatments and Terminals

Product	Name	Ref. No.
DI-HS 15	Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/	
Guide Rail Terminal Section		1991-345
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm	
Alternate Terminal Section	W Beam End Section (Buffer)	1994-281B
Alternate Terminal Section	W Beam End Section (Rounded)	1994-281B
Flared Terminal Section	W Beam End Section (Flared)	1994-281A
Guide Rail Terminal Section		1994-281
Terminal Section Bridge Connection	W Beam Terminal Connector	1994-281C
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/	
Alternate Terminal Section		1989-180
Flared Terminal Section		1989-180
Guide Rail Terminal Section		1989-180
Terminal Section Bridge Connection		1989-180
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/	
Alternate Terminal Section	RG-475 Terminal Half Wrap	1996-230
Flared Terminal Section		1996-230
Guide Rail Terminal Section		1996-230
Terminal Section Bridge Connection		1996-230



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Section 1109: Guide Rail and Metal Median Barrier

1109.02(a), (b), (c) Terminal Sections (Guide Rail)

Last Revised: 11/15/2019

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary).

Terminal Section Bridge Connection: Standard Drawing RC-51M (Sheet 2 of 14) & RC-739M [Type 31 Strong Post Guide Rail to Standard Bridge Barrier]

Flared Terminal Section: Standard Drawing RC-53M (Sheet 2 of 3)

Guide Rail Terminal Section, Single: Standard Drawing RC-51M (Sheet 3 of 14)

Publication 13M, Design Manual, Part 2 Highway Design, Chapter 12, Guide Rail End Treatments and Terminals

Product	Name	Ref. No.
TRIN2 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 550 East Robb Avenue Lima, OH 45801 <i>Formerly Trinity Highway Products, LLC</i>	
Alternate Terminal Section	907G Circular Terminal (RC-51M)	2010-132QA
Alternate Terminal Section	974G Guide Rail to Bridge Barrier Transition Section (RC-50M)	2010-132QA
Flared Terminal Section	901G Flared Terminal (RC-53M, Sheet 2, Detail F)	2010-132QA
Guide Rail Terminal Section		2010-132QA
Terminal Section Bridge Connection	926G Terminal Section Bridge Connection - Straight (RC-51M, Sheet 2)	2010-132QA
Terminal Section Bridge Connection	928G Terminal Section Bridge Connection (RC-51M, Sheet 2, Detail A)	2010-132QA

1109.03(a), (b), (c), (d), (e) Posts (Guide Rail)

Last Revised: 3/21/2022

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.03(a), (b), (c), (d), (e) Posts (Guide Rail)

Last Revised: 3/21/2022

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Ref. No.
AMETS 15 American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 http://www.americantimberandsteel.com/		
	Breakaway Terminal Foundation Wood Post	1995-252
	Breakaway Terminal Wood Post	1995-252
	Timber Guide Rail Post	1995-252
BROWD 15 D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
	Welded Steel Post	2008-114Q
CNWPI 15 Central Nebraska Wood Preservers, Inc., P.O. Box 630, Sutton, NE 68979 http://www.nebraskawood.com/		
Facility	105 North Owen Street Sutton, NE 68979	
	Long Breakaway Timber Post	2014-241QD
	Short Breakaway Timber Post	2014-241QC
	Timber Guide Rail Post	2014-241QA
DI-HS 15 Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/		
	Steel I-Beam Post	1991-344
ELDER 15 Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/		
	Steel I-Beam Post	1987-158
	Welded Steel Post	2006-020Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.03(a), (b), (c), (d), (e) Posts (Guide Rail)

Last Revised: 3/21/2022

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

	Product	Name	Ref. No.
GRE-2 15 Plant	Great Southern Wood Preserving, P. O. Box 610, Abbeville, AL 36310 http://greatsouthernwood.com/		
		Rocky Mount, VA	
		Breakaway Terminal Foundation Wood Post	2011-163QABC
		Breakaway Terminal Wood Post	2011-163QABC
		Timber Guide Rail Post	2011-163QABC
GREG2 15 Facility	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
		7320 Galvan Way Harrisburg, NC 28075	
		Steel I-Beam Post	-----
GREGV 15	Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
		Steel I-Beam Post	1995-321
HIGSC 15	Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/		
		Steel C-Post and Channel Post	1989-180
		Steel I-Beam Post	1989-180
		Welded Steel Post	2005-105Q
IAWP1 15	Iowa Wood Preservers, Inc., 2102 South 17th Street, Oskaloosa, IA 52577		
		Long Breakaway Timber Post	2014-047QD
		Short Breakaway Timber Post	2014-047QC
		Timber Guide Rail Post	2014-047QA



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.03(a), (b), (c), (d), (e) Posts (Guide Rail)

Last Revised: 3/21/2022

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Ref. No.
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159	http://www.qualitybridgeandfab.com/
	Steel I-Beam Post	2012-156Q
	Welded Steel Post	2012-245Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143	http://rgsteel.com/
	Steel I-Beam Post	1999-022Q
	Welded Steel Post	2005-134Q
STEJ1 15	Stella-Jones Corporation, 3424 Parkersburg Road, Reedy, WV 25270-9402	http://stella-jones.com/
	<i>Formerly Burke-Parsons Bowlby (BURPB 15)</i>	
	Timber Guide Rail Post	1998-101
STOREY15 S.I.	Storey Lumber Company, 285 Sike Storey Road, Armuchee, GA 30105	http://www.sistoreylumber.com/
	Long Breakaway Timber Post	2016-041QA
	Short Breakaway Timber Post	2016-041QB
	Timber Guide Rail Post	2016-041QC
TRIN2 15	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001	https://www.valtir.com/
Plant	550 East Robb Avenue Lima, OH 45801	
	<i>Formerly Trinity Highway Products, LLC</i>	
	Steel I-Beam Post	2010-132QB
	* Approved MM-USA marking as Identifiable Steel	
	Welded Steel Post	2007-186Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.03(a), (b), (c), (d), (e) Posts (Guide Rail)

Last Revised: 3/21/2022

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

See [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Or [Standard Drawing of Type 2 Weak Post Guide Rail RC-53M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

	Product	Name	Ref. No.
TRIN4 15 Plant	Altir, LLC, 15601 Dallas Parkway, Addison, TX 75001 200 Dynatex Road Sunbright, TN 37872 <i>Formerly Trinity Highway Products, LLC</i> Breakaway Terminal Wood Post	https://www.valtir.com/	2010-224QA
TRIN6 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 600 Prosperity Drive Orangeburg, SC 29115 <i>Formerly Trinity Highway Products, LLC</i> Steel I-Beam Post	https://www.valtir.com/ Models 533 & 014105	2022-045Q
V&SSE 15	V & S Schuler Engineering, 2240 Allen Ave. S.E., Canton, OH 44707 Steel I-Beam Post	http://www.vsschuler.com/	1994-046

1109.04(b), (c) Offset Brackets/Blocks (Guide Rail)

Last Revised: 1/6/2021

See Standard Drawings RC-50M and RC-51M [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

	Product	Name	Ref. No.
AMETS 15	American Timber and Steel Corp., 4832 Plank Road, P. O. Box 767, Norwalk, OH 44857-0767 Wood Offset Bracket (4" x 8" x 14") Wood Offset Bracket (6" x 8" x 14")	http://www.americantimberandsteel.com/	2003-116 1995-185



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.04(b), (c) Offset Brackets/Blocks (Guide Rail)

Last Revised: 1/6/2021

See Standard Drawings RC-50M and RC-51M [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Ref. No.
CNWPI 15 Central Nebraska Wood Preservers, Inc., P.O. Box 630, Sutton, NE 68979 http://www.nebraskawood.com/ Facility 105 North Owen Street Sutton, NE 68979	Wood Offset Bracket - Routed for Steel Posts (6" x 8" x 14")	2014-241QB
CREAT 15 Creative Building Products, 4307 Arden Drive, Fort Wayne, IN 46804-4446 http://creativebuildingproducts.com/	Plastic Offset Block	1996-199
DEKLB 15 DeKALB Molded Plastics, 550 West Main Street, Butler, IN 46721 http://www.dekalbplastics.com/	Composite Offset Block Lightweight	2002-071
IAWP1 15 Iowa Wood Preservers, Inc., 2102 South 17th Street, Oskaloosa, IA 52577	Wood Offset Bracket - Routed for Steel Posts (6" x 8" x 14")	2014-047B
MONDP 15 Mondo Polymer Technologies, State Route 7, P.O. Box 250, Reno, OH 45773 http://www.mondopolymer.com/	Composite Offset Block Plastic Offset Block	GB14SH 2002-062Q 2002-062Q
MONM1 15 Monroeville Industrial Molding, 75 Ontario St., Norwalk, OH 44857 http://www.monroevillemoldings.com/	Plastic Offset Block	2003-017Q
RAMC1 15 Ramco International, 3102 Estate Drive, Bldg. 1, Oakdale, PA 15071	Plastic Offset Block	1999-200Q
STEJ1 15 Stella-Jones Corporation, 3424 Parkersburg Road, Reedy, WV 25270-9402 http://stella-jones.com/ <i>Formerly Burke-Parsons Bowlby (BURPB 15)</i>	Wood Offset Bracket (6" x 8" x 14")	1998-101



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1109: Guide Rail and Metal Median Barrier

1109.04(b), (c) Offset Brackets/Blocks (Guide Rail)

Last Revised: 1/6/2021

See Standard Drawings RC-50M and RC-51M [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Resources: [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Ref. No.
STOREY15 S.I. Storey Lumber Company, 285 Sike Storey Road, Armuchee, GA 30105 http://www.sistoreylumber.com/	Wood Offset Bracket - Non-Routed for Wood Posts (6" x 8" x 14")	2016-232Q
TRIN4 15 Altir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ Plant 200 Dynatex Road Sunbright, TN 37872 <i>Formerly Trinity Highway Products, LLC</i>	Wood Offset Bracket - Routed for Steel Posts (6" x 8" x 14")	2010-224QB
TRIN5B15 Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ Plant DeKALB Molded Plastics 550 W Main Street Butler, IN 46721 <i>Formerly Trinity Highway Products, LLC</i>	Composite Offset Block <i>FHWA Eligibility Letter: B-342; 8" King Block (MASH-16) Approved Drawing</i>	8 in. King MASH16 Composite Block 2020-199Q

1109.05 (a), (b), (c), (d) Miscellaneous Material (Guide Rail)

Last Revised: 6/30/2021

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Product	Name	Ref. No.
ASPEC 15 Assembly Specialty Products, 14700 Brookpark Road, Cleveland, OH 44135 https://www.assembliespecialty.com/	3/4" (6x19) Swaged Galvanized Cable (RC-51M) <i>Actual Dimensions of Threaded Section of Swaged Fitting: 1" diameter x 8 TPI x 7" long, where Standard Drawing RC-51 shows 15/16" diameter x 9 TPI.</i>	BCT Cable Assembly Fabricator 2019-106Q



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Posted:
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Section 1109: Guide Rail and Metal Median Barrier

1109.05 (a), (b), (c), (d) Miscellaneous Material (Guide Rail)

Last Revised: 6/30/2021

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Product	Name	Ref. No.
AUTBN 15 Auto Bolt Company, 4740 Manufacturing Avenue, Cleveland, OH 44135 http://autobolt.net		
Post Bolt (RC-51M)	Post Bolt (ASTM A307, Grade A)	2017-132Q
Splice Bolt (RC-51M)	Splice Bolt (ASTM A307, Grade A)	2017-132Q
BENNE 15 Bennett Bolt Works, Inc., P. O. Box 922, Jordan, NY 13080 https://www.bennettbolt.com/		
Plant 12 Elbridge Street Jordan, NY 13080		
2" x 3/8" x 6" Galvanized Anchor Bar (BC-709M)	PLA 37x200x600H Plate Washer	2015-145Q
Bolt	ASTM A307, Grade A Bolt	1985-135A
BIRFM 15 Birmingham Fastener Manufacturing, 931 Avenue W, P.O. Box 10323, Birmingham, AL 35234		
Nut, Bolt, and Washer	ASTM A307, Grade A Guiderail Bolt, ASTM F436 Washer, and ASTM A-563 Heavy Hex Nut	2011-127Q
CENMC 15 CenMac Metalworks, 1339 E. Fairground Road, Marion, OH 43302 http://cenmacmetalworks.com/		
Base Plate, Post Plate, End Post Support Angle, and Hardware		2014-048Q
CGLP1 15 Commercial Group Lifting Products, 12801 Universal Drive, Taylor, MI 48180 http://www.cglift.com/		
Plant 2427 East Judd Road Burton, MI 48529		
3/4" (6x19) Swaged Galvanized Cable (RC-51M)	BCT Cable Assembly Fabricator	2016-142Q
<i>Actual Dimensions of Threaded Section of Swaged Fitting: 1" diameter x 8 TPI x 7" long, where Standard Drawing RC-51 shows 15/16" diameter x 9 TPI. (Original approval from 1990-078A, former supplier code: CWR&S 15)</i>		
DAYT3 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342 http://www.daytonsuperior.com/		
Plant Tremont, PA 17981		
Anchor Insert Assemblies (A, B, C, and D per BC-734)		2008-070QABCD



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Section 1109: Guide Rail and Metal Median Barrier

1109.05 (a), (b), (c), (d) Miscellaneous Material (Guide Rail)

Last Revised: 6/30/2021

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Product	Name	Ref. No.
DI-HS 15 Di Highway Sign & Structure Corporation, P. O. Box 123, New York Mills, NY 13417-0123 http://dihighway.com/	Base Plate, Post Plate, End Post Support Angle, and Hardware	1991-344
	Nut, Bolt, and Washer	1991-344
	<hr/>	
ELDER 15 Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/	Base Plate, Post Plate, End Post Support Angle, and Hardware	1987-158
	Rotating Bracket	1987-158
	<hr/>	
FAST1 15 Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 https://www.fastenal.com/ Facility Holo-Krome 5800 Industrial Avenue Loves Park, IL 61111	Bolt	ASTM A307, Grade A Bolts 2019-211Q
	Splice Bolt (RC-51M)	Type "H" Splice Bolt (Button Head, ASTM A307) 2019-211Q
	<hr/>	
FAST2 15 Fastenal Company, P.O. Box 978, 2001 Theurer Blvd, Winona, MN 55987 https://www.fastenal.com/ Facility Holo-Krome 61 Barnes Industrial Park North Wallingford, CT	Bolt	ASTM A307, Grade A Bolts 2019-213Q
	Splice Bolt (RC-51M)	Type "G" Splice Bolt (Button Head, ASTM A307) 2019-213Q
	<hr/>	
HAYDN 15 Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/	Bolt	ASTM A307, Grade A Bolts 1990-048



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Section 1109: Guide Rail and Metal Median Barrier

1109.05 (a), (b), (c), (d) Miscellaneous Material (Guide Rail)

Last Revised: 6/30/2021

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Product	Name	Ref. No.
HIGSC 15 Highway Safety Corporation, 239 Commerce Street, P. O. Box 358, Glastonbury, CT 06033-0358 http://www.highwaysafety.net/		
Base Plate, Post Plate, End Post Support Angle, and Hardware		1989-180
Nut, Bolt, and Washer		1989-180
Rotating Bracket		1989-180
Steel Spacer Tube		1989-180
IMHPI 15 IMH Products, Inc, 1929 Columbia Avenue, Indianapolis, IN 46202 http://www.imh.com/		
Anchor Plate with Welded End Plate for Swaged Cable Assemblage (RC-51M) ~ Shop Drawing of IMH Part Number RE-71-187 (16" Anchor Plate with Welded End Plate)	RE-71-187	2021-061Q
MIDW1 15 Mid West Fabricating Company, 313 North Johns Street, Amanda, OH 43102 http://midwestfab.com/		
Bolt	ASTM A307, Grade A Bolts	1999-168Q
MIDW2 15 Mid West Fabricating Company, 3115 West Fair Avenue, Rockmill Division, Lancaster, OH 43130 http://midwestfab.com/		
Nut	ASTM A-563 Heavy Hex Nut	2012-105Q
QUABF 15 Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/		
Base Plate, Post Plate, End Post Support Angle, and Hardware		2012-160Q
Rotating Bracket		2013-096Q
Steel Spacer Tube		2012-171Q



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Section 1109: Guide Rail and Metal Median Barrier

1109.05 (a), (b), (c), (d) Miscellaneous Material (Guide Rail)

Last Revised: 6/30/2021

Impact Attenuating Devices: See Section 619.2 (Permanent) and Section 696.2 (Temporary)

For miscellaneous material, including nuts, bolts, and washers, see [Standard Drawing of Type 31 Strong Post Guide Rail RC-51M \(Publication 72M\)](#)

Product	Name	Ref. No.
RG-ST 15 R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/		
Anchor Plate for Swaged Cable Assemblage (RC-51M)		1994-295Q
Base Plate, Post Plate, End Post Support Angle, and Hardware		1994-293Q
Rotating Bracket		1994-294Q
Steel Spacer Tube		1999-078
SILOF 15 Silo Fasteners - Ohio Rod Products, Elgin Fastener Group, 1415 South Benham Road, Versailles, IN 47042 http://elginfasteners.com/		
Bolt	ASTM A307 Bolt	1999-135Q
* Approved MM-USA marking as Identifiable Steel		
SOEBS 15 Southeastern Bolt and Screw, Inc., 1037 16th Avenue West, Birmingham, AL 35204 http://www.sebolt.com/		
Nut, Bolt, and Washer		1991-059
TRIN2 15 Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ Plant 550 East Robb Avenue Lima, OH 45801 <i>Formerly Trinity Highway Products, LLC</i>		
Base Plate, Post Plate, End Post Support Angle, and Hardware	Excluding Steel Tube	2010-262Q
Bolt and Nut	ASTM A307A Bolt and ASTM A-563 Heavy Hex Nut	2010-137QAB
Rotating Bracket		----
Steel Spacer Tube		----
VAMP- 15 Vamp Company, 28055 Fort Street, Trenton, MI 48133 http://vampcompany.com/		
Nut	ASTM A-563 Heavy Hex Nut	2011-073Q

1109.08 Welded Material (Guide Rail)



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Section 1109: Guide Rail and Metal Median Barrier

1109.08 Welded Material (Guide Rail)

For Welded Steel Posts, see Section 1109.03.



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Section 1110: Right-of-Way Fence

1110.01(a) Wire Fabric, Fasteners, and Tension Wire for Type 1 Right-of-Way Fence

Last Revised: 3/8/2024

AASHTO M 181 Type I, Class D: Zinc-coated, Type II: Aluminum-coated, Type IV, Class A or B: Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric. Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of the wire fabric are also approved to supply the fasteners and tension wire.

Product	Name	Ref. No.
HALCOA15 Master Halco, Inc., 3010 Lyndon B Johnson Fwy, Suite 800, Dallas, TX 75234 https://www.masterhalco.com/		
Facility	Master Halco, West Memphis 304 Wyanoke Road West Memphis, AR <i>Formerly STASW 15</i>	
Aluminum-coated Steel Fabric		2007-149QB
Zinc-coated (Galvanized) Steel Fabric		2007-149QA
<i>Stateside Steel and Wire is approved to galvanize the wire used to manufacture the fence fabric.</i>		
MERME 15 Merchant Metals, 900 Ashwood Parkway, Suite 200, Atlanta, GA 30338 https://www.merchantsmetals.com/		
Aluminum-coated Steel Fabric		2003-191Q
Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric		2003-192Q
Zinc-coated (Galvanized) Steel Fabric		2003-190Q
SHAFC 15 Sharon Fence Company, 1 Miller Court, Sharon, PA 16146 http://www.sharonfence.com/		
Aluminum-coated Steel Fabric		2017-280Q
Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric		2017-281Q
Zinc-coated (Galvanized) Steel Fabric		2017-207Q
SPSKJ 15 Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/		
Facility	SPS Jamestown 2151 N. Main Highway 127 Jamestown, KY 42649	
Aluminum-coated Steel Fabric	OnGuard Aluminum Coated Steel Chain Link Fence Fabric	2016-118Q
Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric	OnGuard SPSV Fused and Bonded Poly (Vinyl Chloride) - PVC Coated Steel Chain Link Fence Fabric	2016-103Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1110: Right-of-Way Fence

1110.01(a) Wire Fabric, Fasteners, and Tension Wire for Type 1 Right-of-Way Fence

Last Revised: 3/8/2024

AASHTO M 181 Type I, Class D: Zinc-coated, Type II: Aluminum-coated, Type IV, Class A or B: Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric. Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of the wire fabric are also approved to supply the fasteners and tension wire.

Product	Name	Ref. No.
SPSMD 15 Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/		
Facility SPS Bladensburg 4301 46th Street Bladensburg, MD 20710		
Aluminum-coated Steel Fabric	OnGuard Aluminum Coated Steel Chain Link Fence Fabric	2016-221Q
Polyvinyl Chloride (PVC) and Other Organic Polymer-coated Steel Fabric	OnGuard SPSV Fused and Bonded Poly (Vinyl Chloride) - PVC Coated Steel Chain Link Fence Fabric	2016-220Q

STEPN 15 Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 <http://www.spsfence.com/>

Facility 10732 Schadel Road SE Mount Sterling, OH 43143-0237

Zinc-coated (Galvanized) Steel Fabric 2000-090Q
Stephens Pipe & Steel is approved to galvanize the wire used to manufacture the fence fabric.

1110.01(b) Wire Fabric and Fasteners, Type 2 and Type 5 Right-of-Way Fence

Last Revised: 10/15/2020

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of the wire fabric are also approved to supply the fasteners.

Product	Name	Ref. No.
BKERT 15 Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067 http://www.bekaert.com/en/		
Facility Van Buren, AR		
Galvanized Steel Fabric		1999-027Q
<i>Bekaert Corporation is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires used to manufacture the fence fabric.</i>		



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Section 1110: Right-of-Way Fence

1110.01(b) Wire Fabric and Fasteners, Type 2 and Type 5 Right-of-Way Fence

Last Revised: 10/15/2020

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of the wire fabric are also approved to supply the fasteners.

Product	Name	Ref. No.
KEYSW 15 Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us Formerly Keystone Steel & Wire Company		
Galvanized Steel Fabric <i>Keystone Steel & Wire Company is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires to manufacturer the fence fabric. The new supplier code is LIBSWP15.</i>	1047-6-11 Hinge Joint Fabric	2007-038Q
LIBSWP15 Liberty Steel & Wire Peoria, 7000 S. W. Adams Street, Peoria, IL 61641 http://www.libertysteel.us Formerly Keystone Steel & Wire Company (KEYSW 15)		
Galvanized Steel Fabric <i>Liberty Steel & Wire Peoria is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires to manufacturer the fence fabric.</i>	1047-6-11 Hinge Joint Fabric	2007-038Q
OKSW1 15 Oklahoma Steel & Wire, P.O. Box 220, Madill, OK 73446 http://www.okbrandwire.com/ Facility Highway 70 South Madil, OK 73446		
Galvanized Steel Fabric <i>Oklahoma Steel & Wire is approved to galvanize (zinc-coat) the top, bottom, intermediate line, and stay wires used to manufacture the fence fabric.</i>	1047-6-11 Class III Galvanized Field Fence Fabric	2018-081Q

1110.02 End Posts, Corner and Pull Posts, Line Posts, Braces, Stretcher Bars, and Truss Rods

Last Revised: 3/8/2024

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of end posts, corner and pull posts, line posts, braces, stretcher bars, and truss rods are approved to supply the related fittings and hardware.

Product	Name	Ref. No.
ALLTC 15 Allied Tube & Conduit Corporation, 16100 South Lathrop Ave., Harvey, IL 60426 http://www.alliedeg.us/		
Fence Posts	SS 40 Fence Posts (2.375" O.D. End Post, 1.90" O.D. Line Post, and 1.66" O.D. Braces)	2000-028Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1110: Right-of-Way Fence

1110.02 End Posts, Corner and Pull Posts, Line Posts, Braces, Stretcher Bars, and Truss Rods

Last Revised: 3/8/2024

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of end posts, corner and pull posts, line posts, braces, stretcher bars, and truss rods are approved to supply the related fittings and hardware.

Product	Name	Ref. No.
BENNE 15 Bennett Bolt Works, Inc., P. O. Box 922, Jordan, NY 13080 https://www.bennettbolt.com/		
Plant	12 Elbridge Street Jordan, NY 13080	
Fence Fittings and Hardware		----
Fence Posts		----
FRANK 15 Franklin Industries, 645 Atlantic Ave., Franklin, PA 16323 http://store.franklinindustriesco.com/		
Fence Fittings and Hardware		----
	<i>Approved to manufacture fence parts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>	
Fence Posts		----
	<i>Approved to manufacture fence posts from recycled train rail per Franklin Industries' Rail Identification & Traceability Procedure, Q113.003. In lieu of mill certifications, a Certificate of Conformance must be included with the 'Unidentified Steel box checked on the CS-4171. Franklin Industries' Certificate of Conformance</i>	
GREGV 15 Gregory Industries, Inc., 4100 13th Street SW, P.O. Box 80508, Canton, OH 44708 http://www.gregorycorp.com/gccorp.htm		
1" C Post (1 1/4" x 1 5/8")		1993-251Q
	<i>Roll-formed C Section fence framework coated with Galvan.</i>	
2 3/8" Heavy C Post (2 5/16" x 1 11/16")		1993-251Q
	<i>Roll-formed C Section fence framework coated with Galvan.</i>	
2" Standard C Post (1 7/8" x 1 5/8")		1993-251Q
	<i>Roll-formed C Section fence framework coated with Galvan.</i>	
Fence Fittings and Hardware		1990-291
H Section Line Post (2.25" x 1.70")		1990-291B
	<i>H Fabric up to 8'</i>	



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Section 1110: Right-of-Way Fence

1110.02 End Posts, Corner and Pull Posts, Line Posts, Braces, Stretcher Bars, and Truss Rods

Last Revised: 3/8/2024

Steel Products Procurement Act applies. See [Standard Drawing RC-60M \(Publication 72M\)](#)

Manufacturers of end posts, corner and pull posts, line posts, braces, stretcher bars, and truss rods are approved to supply the related fittings and hardware.

Product	Name	Ref. No.
LANCC 15 Lancaster Composite, Inc., P.O. Box 27, Millersville, PA 17551-0027 http://lancastercomposite.com/		
Fence Posts <i>Provisional Approval: ECMS Special Provision P-C06241-A.</i>	Composite Post 40	1995-239
SPSKY 15 Stephens Pipe & Steel, LLC, 2224 E. Highway 619, P.O. Box 618, Russell Springs, KY 42642 http://www.spsfence.com/ Facility 5975 South Highway 76 Russell Springs, KY 42642		
Fence Fittings and Hardware	OnGuard SPS40E Tension Band, Dome Cap, Rail End, Brace Band	2016-051Q
Fence Fittings and Hardware	OnGuard SPS40E Top Rail Sleeve, Line Post Eye Cap, Truss Rod Bracket, Line Clamp	2016-051Q
Fence Posts	OnGuard SPS40E (2.375" O.D. End Posts, 1.90" O.D. Line Posts, 1.66" O.D. Braces)	2016-051Q
<i>End posts approved for fabric heights of 4, 5, and 6 feet. Line posts approved for fabric heights of 4 feet.</i>		
USPTM 15 US Premier Tube Mills (USPTM), subsidiary of Master Halco, Inc., 2855 Michigan Road, Madison, IN 47250 http://www.usptmills.com/ Formerly Midwest Tube Mills, Inc. (MTMINC15)		
Fence Posts	PT-40 Fence Tubing (2.375" O.D. End Posts, 1.90" Line Posts, and 1.66" O.D. Braces)	2015-119Q
<i>End posts approved for fabric heights of 4, 5, and 6 feet. Line posts approved for fabric heights of 4 feet. Formerly known as MT-40 Fence Tubing.</i>		
WHETC 15 Wheatland Tube Company, P.O. Box 608, Wheatland, PA 16161 http://www.wheatland.com/ Plant 1 Council Avenue Wheatland, PA 16161		
Fence Posts	WT-40 (2.875" O.D. End Posts, 1.90" Line Posts, and 1.66" O.D. Braces)	1998-110



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1111: High Load Multi-Rotational Bearings

1111.03 High Load Multi-Rotational Bearings

Last Revised: 5/8/2018

Companies not listed must be preapproved by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA before commencing fabrication.

Approved Bridge and Structure Products

Product	Name	Ref. No.
BROWD 15D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/		
Disc Bearing		2005-082Q
Pot Bearing		2005-082Q
Spherical Bearing		2005-082Q
CONSV 15 Con-Serv, Inc., 2963 Interstate Parkway, Brunswick, OH 44212 http://www.con-servinc.com/		
Disc Bearing		2003-012Q
Pot Bearing		2003-012Q
Spherical Bearing		2003-012Q
HALL1 15 Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/		
Disc Bearing		2016-031Q
Pot Bearing		2001-022Q
HALL3 15 Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/		
Disc Bearing		2017-029Q
Pot Bearing		2017-029Q
LUBTC 15 Lubrite Technologies, 18649 Brake Shoe Road, Meadville, PA 16335-0458 http://www.usbfmi.com/lube1.htm		
Pot Bearing		1990-309AB
<i>Approved to fabricate non-welded bearings only.</i>		
Spherical Bearing		1990-309AB
<i>Approved to fabricate non-welded bearings only.</i>		
MAGE1 15 mageba USA LLC, 575 Lexington Ave, 4th Floor, New York 10022 http://www.magebausa.com/		
Facility	Pottstown, PA	
Disc Bearing	Reston Disc	2018-016Q



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Section 1111: High Load Multi-Rotational Bearings

1111.03 High Load Multi-Rotational Bearings

Last Revised: 5/8/2018

Companies not listed must be preapproved by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA before commencing fabrication.

[Approved Bridge and Structure Products](#)

Product	Name	Ref. No.
NATBR 15 Disc Bearing	R. J. Watson / National Bridge Company Inc., 11035 Walden Avenue, Alden, NY 14004 http://www.rjwatson.com/	2013-239Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1112: Glued Laminated Hardwood Timber Members

1112 Glued Laminated Hardwood Timber Members

Last Revised: 7/9/2015

Product	Name	Ref. No.
ALAWP 15 Alamco Wood Products, Inc., 1410 West Ninth Street, Albert Lea, MN 56007 http://www.alamcowood.com/ Timber Fabricator		2000-236Q
KOPRS 15 Koppers Industries, Inc., 50 Koppers Lane, Montgomery, PA 17752 http://www.koppers.com/locations/susquehanna-plant Timber Treater		1999-194Q
NORSO 15 North-South Wood Preserving Company, 160 Preserver Road, North, SC 29112 Timber Treater		2012-117Q
RIGID 15 Rigidply Rafters, Inc., 701 East Linden Street, Richland, PA 17087 http://www.rigidply.com/ Timber Fabricator		1999-176Q
STEJ2 15 Stella-Jones Corporation, R.R. 3, P. O. Box 275, Dubois, PA 15801 http://stella-jones.com/ <i>Formerly Burke-Parsons-Bowby Corp. (BURPB 15)</i> Timber Treater		2002-079Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section 1113: Plain and Laminated Neoprene Bearing Pads

1113 Plain and Laminated Neoprene Bearing Pads

Last Revised: 7/18/2017

Product	Name	NTPEP Test Number	Ref. No.
BROWD 15 D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/			
	Plain 50D Neoprene Bearing Pad		1986-117
	Plain 60D Neoprene Bearing Pad		1986-118
	Steel Laminated 50D Neoprene Bearing Pad		1986-119A
	Steel Laminated 60D Neoprene Bearing Pad		1986-119B
BRPMF 15 BRP Manufacturing Company, 637 North Jackson St., P.O. Box 389, Lima, OH 45802-0389 http://www.brpmfg.com/			
	Plain 50D Neoprene Bearing Pad		2016-231Q
	Plain 60D Neoprene Bearing Pad		2001-174Q
MURR1 15 MurRubber Technologies, Inc. (Formerly Bedell-Kraus), 1350 Commerce Drive, Stow, OH 44224 http://murrubber.com/			
	Plain 50D Neoprene Bearing Pad		2012-251Q
SCOUG 15 Scougal Rubber Corporation, 885 Denmark Dr. Ste. 103b, McCarran, NV 89434 http://www.scougalrubber.com/			
	Plain 50D Neoprene Bearing Pad		1998-178
	Plain 60D Neoprene Bearing Pad		1998-178
	Steel Laminated 50D Neoprene Bearing Pad		1998-178
	Steel Laminated 60D Neoprene Bearing Pad		1998-178
SEISM 15 D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ Plant 518 Progress Way Athens, TX 75751 (Formerly Seismic Energy Products, Inc.)			
	Plain 50D Neoprene Bearing Pad		----
	Plain 60D Neoprene Bearing Pad		----
	Steel Laminated 50D Neoprene Bearing Pad		----
	Steel Laminated 60D Neoprene Bearing Pad		----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section 1113: Plain and Laminated Neoprene Bearing Pads

1113 Plain and Laminated Neoprene Bearing Pads

Last Revised: 7/18/2017

Product	Name	NTPEP Test Number	Ref. No.
VOSSE 15 Voss Engineering, Inc., 6965 North Hamlin Ave., Lincolnwood, IL 60712 http://www.vossengineering.com/			
Plain 50D Neoprene Bearing Pad			2000-198Q
Plain 60D Neoprene Bearing Pad			2000-198Q
WSTAR 15 West American Rubber Company, Inc., 750 North Main Street, Orange, CA 92668 http://warco.com/			
Plain 50D Neoprene Bearing Pad			1999-051Q
Plain 60D Neoprene Bearing Pad			1999-051Q

1113.03(h) Bedding Material for Bridge Shoes

Last Revised: 7/9/2015

Product	Name	Ref. No.
FABRK 15 Fabreeka International, Inc., 1023 Turnpike Street, P. O. Box 210, Stroughton, MA 02072 http://www.fabreeka.com/		
Bedding Material for Bridge Shoes	FABCO SA47, Type I	1981-022
Bedding Material for Bridge Shoes	Fabreeka, Type II	-----
HBD-1 15 HBD/Thermoid, Inc., 240 Industrial Lane, P.O. Box 4310, Oneida, TN 37841 http://www.hbdthermoid.com/		
Bedding Material for Bridge Shoes	No. 24-34-5111-72 Type II	2008-096
VOSSE 15 Voss Engineering, Inc., 6965 North Hamlin Ave., Lincolnwood, IL 60712 http://www.vossengineering.com/		
Bedding Material for Bridge Shoes	SORBTEX, Type II	2000-200Q



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Section 1124: Temporary Traffic Control Signals

1124.03 Temporary Traffic Control Signals on Pedestal-Mounted Portable Traffic Control Signal Syst

Last Revised: 2/14/2018

* See Section 958.2 Temporary Traffic Control Signals for a listing of approved products.

Product	Name	Ref. No.
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Section MISC: Miscellaneous

MISC Anchoring Devices for Use in Vertical Positions Only

Last Revised: 1/3/2024

Adhesive anchors are not to be used for permanent installations which have the anchor in tension due to external loading regardless of whether the anchor is in a horizontal or vertical position. External loading can be from moment, moment and shear, or direct tension to cause tension in the anchor. Tension due to a torqued bolt is not an external load. See Section 501.2(p)/516.2(k) for horizontal anchoring applications. Steel Products Procurement Act applies for mechanical anchors and threaded rods. [ICC-ES Evaluation Reports](#)

& [IAPMO- Uniform Evaluation Service \(UES\)](#)

Product	Name	Ref. No.
ADHTC 15 Meridian Adhesives Group, Infrastructure Division, 800 College Avenue, Dalton, GA 30720-1301 http://www.atcepoxy.com/		
Facility Adhesives Technology Corp. 450 East Copans Road Pompano Beach, FL 33064		
Anchoring Adhesive	ULTRABOND HS-200	2002-048Q
ADVAC 15 Advance Coatings, 42 Depot Road, Westminster, MA 01473 http://advancecoatings.com/		
Anchoring Adhesive	KeligROUT 101-P	2004-123QA
Anchoring Adhesive	KeligROUT Polyester Adhesive	2004-132Q
DAYT0 15 Dayton Superior Corporation, 1125 Byers Road, Miamisburg, OH 45342-5765 http://www.daytonsuperior.com/		
Mechanical Anchor	Type A and B Anchors, per BC-734	1997-169
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Anchoring Adhesive	Dural 452 Gel	2003-098Q
Anchoring Adhesive	Dural Fast Set Epoxy LV	1999-183Q
FOGLA 15 Foglia, A & P, Inc., 14 Hickory Drive, East Brunswick, NJ 08816		
Anchoring Adhesive	Magnabond	1991-349
HILT- 15 Hilti, Inc., 5400 South 122nd East Ave., P.O. Box 21148, Tulsa, OK 74121 https://www.hilti.com/		
Anchoring Adhesive	HIT-RE 500 Anchoring Epoxy	2001-101Q
<i>ICC-ES Evaluation Report: ICC-ES Evaluation Report: ESR-3814 (Subject to renewal 1/2021)</i>		
Anchoring Device (Adhesive & Threaded Rod)	HVU Capsule Adhesive Anchoring System	2000-123Q
<i>Approved two-component system consists of a self-contained adhesive capsule (HVU Adhesive Capsule) and a threaded rod with nut and washer (HAS Anchor Rod Assembly). Only approved for threaded rods manufactured in the United States.</i>		



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Section MISC: Miscellaneous

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& [IAPMO- Uniform Evaluation Service \(UES\)](#)

	Product	Name	Ref. No.
HILT1 15 Plant	Hilti, Inc., 7250 Dallas Parkway, Suite 1000, Plano, TX 75024 https://www.hilti.com/ Kaufering, Germany		
	Anchoring Adhesive	HIT-HY 10 PLUS Adhesive Anchor System	2014-106QB
	Anchoring Adhesive	HIT-HY 150 Injection Adhesive	1996-054
ITW-R 15	ITW Commercial Construction North America, 155 Harlem Avenue, Glenview, IL 60025 http://www.itwredhead.com/		
	Anchoring Adhesive	EPCON C6+ High Strength Epoxy	1988-131
	Mechanical Anchor	Trubolt Wedge Anchor, Galvanized	1992-363A
KAUFM 15	Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/		
	Anchoring Adhesive	Sure-Poxy 116	1992-169
	Anchoring Adhesive	Sure-Poxy 117	1990-371
MEDW0 15	W. R. Meadows, Inc., 300 Industrial Drive, P.O. Box 338, Hampshire, IL 60140-0338 http://www.wrmeadows.com/		
	Anchoring Adhesive	Rezi-Weld Gel Paste (Construction Epoxy)	1993-280
MKTFS 15	MKT Fastening, LLC, 1 Gunnebo Drive, Lonoke, AR 72086 http://www.mktfastening.com/		
	Anchoring Adhesive	Liquid Roc 300 Twin Tube	1996-092E
	Anchoring Adhesive	Liquid Roc 500 Low Odor Twin Tube	1996-092F
	Mechanical Anchor	Sup-R-Stud Wedge Anchor	1996-092B
	Mechanical Anchor	Taper Bolt	1996-092A
PLYGM 15	Polygem, Inc., 1105 Carolina Drive, West Chicago, IL 60185 http://www.polygem.com/		
	Anchoring Adhesive	1257 Epoxy Anchoring Adhesive	1993-270



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Section MISC: Miscellaneous

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& [IAPMO- Uniform Evaluation Service \(UES\)](#)

Product	Name	Ref. No.
POWFS 15 Powers Fasteners, Inc., 2 Powers Square, New Rochelle, NY 10801 http://www.powers.com/		
Mechanical Anchor	Power-Bolt	1991-206
Mechanical Anchor	Power-Stud	1991-205
SIKA1 15 Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 1682 Marion Williamsport Road E Marion, OH 43302		
Anchoring Adhesive	Sikadur DOT SP 3/4 DBA (Epoxy as Injection Gel)	1989-236
Anchoring Adhesive	Sikadur Injection Gel	1989-236
SIKA5 15 Sika Corporation / 2K Polymer Systems Limited, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ Plant 2K Polymer Systems Limited 1682 Marion Williamsport Road Venture Crescent, DE55 7RA U.K.		
Anchoring Adhesive	Sikadur Anchor Fix 500	2014-125QB
SIMST 15 Simpson Strong-Tie, Inc., 136 Official Road, Addison, IL 60101 http://www.strongtie.com/		
Anchoring Adhesive (Formerly known as Acrylic-Tie)	AT-XP High-Strength Acrylic Adhesive	1999-223Q
Anchoring Adhesive	ET-HP Epoxy Adhesive	1985-008
ICC-ES Evaluation Reports: ESR-3372 & ESR-3372-SP. (Formerly known as ET Epoxy-Tie) ET-HP Epoxy Adhesive IAPMO-UES Evaluation Report Number: 0241 - Masonry (Valid through 07/31/2021)		



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Section MISC: Miscellaneous

MISC Anchoring Devices for Use in Vertical Positions Only

Last Revised: 1/3/2024

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& [IAPMO- Uniform Evaluation Service \(UES\)](#)

Product	Name	Ref. No.
UNITX 15 Dayton Superior Corporation - UNITEX, 3101 Gardner Ave., Kansas City, MO 64120 http://www.daytonsuperior.com/brands/chemicals/unitex		
Anchoring Adhesive	Pro-Poxy 300	1996-016
Anchoring Adhesive	Pro-Poxy 300 Fast Epoxy	1994-093B
Anchoring Adhesive	Pro-Poxy 400	2001-228Q

MISC Asphalt Paving Course, FB Modified

Last Revised: 9/14/2017

Product	Name	Letter Date	Ref. No.
GORBR 15 Gorman Brother's, Church Street, Port Of Albany, Albany, NY 12202 http://www.gormanroads.com/			
FB Modified			2003-196Q
FB-3 Modified Wearing Course			2003-196Q
HEILM 15 Heilman Pavement Specialties, 290 North Pike Road, Sarver, PA 16055-9735 http://www.hei-way.com/			
FB Modified	HEI-WAY (HGP)	1/7/1992	----
FB-3 Modified Wearing Course	HEI-WAY		1998-134
RUSS6 15 Russell Standard Corporation, P.O. Box 802, Mars, PA 16046 http://www.russellstandard.com/			
Terminal Mars, PA			
FB Modified			1994-054
FB-3 Modified Wearing Course			1996-104



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Section MISC: Miscellaneous

MISC Asphalt Paving Course, FB Modified

Last Revised: 9/14/2017

Product	Name	Letter Date	Ref. No.
SUIT0 15	Suit-Kote Corporation, 1911 Lorings Crossing Rd, Cortland, NY 13045-5160 http://www.suit-kote.com/		
	FB Modified		2003-088Q
	FB-3 Modified Wearing Course		2003-089Q
<i>Provisional Approval - Contact PennDOT Materials Testing Laboratory at 717-787-2707 before using on a Department project.</i>			

MISC Coal Tar Epoxy (RCC Pipe Coating)

Last Revised: 4/7/2015

Product	Name	Ref. No.
CARBL 15	Carboline Company, 2150 Schuetz Road, St. Louis, MO 63146 http://www.carboline.com/	
	Coal Tar Epoxy	Bitumastic No. 300-M

ROYST 15	Chase Corporation, 295 University Avenue, Westwood, MA 02090 http://www.chasecorp.com/	
Facility	Blawnox Facility 128 First Street Pittsburgh, PA 15238	
	Coal Tar Epoxy	Roskote-201
		1970-005

MISC Corrosion Inhibitor

Last Revised: 8/4/2022

Admixtures for inhibiting the corrosion of steel reinforcement in concrete.

ASTM C1582 - Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
CORTEC15	Cortec Corporation, 4119 White Bear Parkway, St Paul, MN 55110 https://www.cortecvci.com/			
	Corrosion Inhibitor [CI]	MCI-2005 NS	1.5 pints per cubic yard	CADD-2017-01-065 2019-234Q



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

Last Revised: 8/4/2022

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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
EUCLD 15	Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/				
	Corrosion Inhibitor [CI]	Eucon CIA	2 to 6 gal/yd ³	CADD-2013-01-025	2015-122QC
GRAC6 15	GCP Applied Technologies Inc., 100 Research Drive, Wilmington, MA 01887 https://gcpat.com/				
Plant	Augusta, GA <i>Formerly: W. R. Grace and Company</i>				
	Corrosion Inhibitor [CI]	DCI			2010-102QB
	Corrosion Inhibitor [CI]	DCI Calcium Nitrite			1980-040
	Corrosion Inhibitor [CI]	DCIS			1997-149
MBS-1 15	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
Plant	Allentown, PA <i>Formerly BASF Construction Chemicals (BAS-1 15)</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
MBS-2 15	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
Plant	Gurnee, IL <i>Formerly BASF Construction Chemicals (BAS-2 15)</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113



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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

Last Revised: 8/4/2022

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	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
MBS-3 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
	Tipp City, OH <i>Formerly BASF Construction Chemicals (BAS-3 15)</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
MBS-8 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
	St. Leonard, Quebec <i>Formerly BASF Construction Chemicals (BAS-8 15)</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
	Corrosion Inhibitor [CI]	MasterLife CI 222 (Rheocrete 222+)	1 gallon per cubic yard		1995-105
MBS-9 15 Plant	Master Builders Solutions Admixtures US, LLC, 23700 Chagrin Blvd., Cleveland, OH 44122 https://www.master-builders-solutions.com/en-us				
	Reynolds, GA <i>Formerly BASF Construction Chemicals (BAS-1215)</i>				
	Corrosion Inhibitor [CI]	MasterLife CI 222 (Rheocrete 222+)	1 gallon per cubic yard		1995-105
	Corrosion Inhibitor [CI]	MasterLife CI 30 (Rheocrete CNI)	1 to 6 gallons per cubic yard	CADD-2016-01-115	1998-113
MINRD 15	Mineral Research & Development, 5910 Pharr Mill Road, Harrisburg, NC 28075-8625 http://www.mrdc.com/				
	Corrosion Inhibitor [CI]	Sika CNI		CADD-2015-01-111	2010-267Q



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Section MISC: Miscellaneous

MISC Corrosion Inhibitor

Last Revised: 8/4/2022

Admixtures for inhibiting the corrosion of steel reinforcement in concrete.

ASTM C1582 - Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete

ASTM G109 - Standard Test Method for Determining Effects of Chemical Admixtures on Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments

	Product	Name	Recommended Dosage	NTPEP Test Number	Ref. No.
SIKA1 15	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 1682 Marion Williamsport Road E Marion, OH 43302	http://usa.sika.com/			
Plant	Corrosion Inhibitor [CI]	FerroGard-901 (formerly Armatec 2000)			1996-264

MISC Crumb Rubber Modifier (CRM) Additive

Last Revised: 4/5/2016

Use in accordance with project specification (CRM requirements for gradation, contaminants, moisture, and specific gravity).

	Product	Name	Ref. No.
LIB-1 15	Liberty Tire Recycling, LLC, 490 Ohio Street, Lockport, NY 14094	http://libertytire.com/Home.aspx	
	Crumb Rubber Modifier (CRM) Additive		2013-098A
LIB-2 15	Liberty Tire Recycling, LLC, 100 Talbot Avenue, Braddock, PA 15104	http://libertytire.com/Home.aspx	
	Crumb Rubber Modifier (CRM) Additive		2013-097A
LTINC 15	Lehigh Technologies, Inc., 120 Royal Woods Court SW, Tucker, GA 30084	http://www.lehightechnologies.com	
	Crumb Rubber Modifier (CRM) Additive	MicroDyne 400-TR (40 Mesh GTR)	2015-179M
MAHAN 15	Mahantango Enterprises, Inc., Rr #2, P. O. Box 680, Liverpool, PA 17045	http://www.mahantango.com/	
	Crumb Rubber Modifier (CRM) Additive		1994-031



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Crumb Rubber Modifier (CRM) Additive

Last Revised: 4/5/2016

Use in accordance with project specification (CRM requirements for gradation, contaminants, moisture, and specific gravity).

Product	Name	Ref. No.
NRIND 15 Plant	Edge Rubber, 1711 Opportunity Avenue, Chambersburg, PA 17201 811 Progress Road Chambersburg, PA 17201 <i>Formerly NRI Industries</i> Crumb Rubber Modifier (CRM) Additive	http://www.edgerubber.com -----
SPART 15	Sparton Enterprises, Inc., 3717 Clark Mill Rd., Barberton, OH 44203 Crumb Rubber Modifier (CRM) Additive	http://spartonenterprises.com/ 1991-072

MISC Crumb Rubber Modifier (CRM), Treated

Last Revised: 2/8/2017

No approved products for treated Crumb Rubber Modifier (CRM)

Product	Name	Ref. No.
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MISC Dust Palliatives

Last Revised: 6/23/2016

Moved to Section 901.3(b)

Product	Name	Ref. No.
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MISC Embedded Galvanic Anodes

Last Revised: 2/15/2019



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Embedded Galvanic Anodes

Last Revised: 2/15/2019

Cathodic Protection (CP) systems are intended to prevent or retard corrosion in concrete structures. There are several key factors that need to be considered and evaluated before CP is deemed a technically acceptable and cost effective solution on an individual project.

Establishing the required electrical continuity in new construction comes only with significant effort and, in rehabilitation work, it is exceedingly difficult. Therefore, the design and use of CP systems for any structure, or part thereof, needs to be approved by the C.O. Bridge Quality Assurance Division (BQAD). Project designers should consider the CP System Guidelines (link below) prior to submitting their project designs to BQAD for review and approval.

Use & Approval Guidelines: [Cathodic Protection \(CP\) Systems](#)

All listings in this section are conditionally approved.

	Product	Name	Ref. No.
EUCLD 15	Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
	Embedded Galvanic Anodes - Point	Sentinel GL	2010-013Q
	<i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>		
JAR-1 15 Plant	ARTAZN LLC (formerly Jarden Zinc Products), 2500 Old Stage Road, Greeneville, TN 37744 https://artazn.com/		
	Embedded Galvanic Anodes - Point	MasterProtect 8065 CP Anodes	2014-117
	<i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>		
	Embedded Galvanic Anodes - Point	MasterProtect 8105 CP Anodes	2014-118
	<i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>		
	Embedded Galvanic Anodes - Point	MasterProtect 8150 CP Anodes	2014-119
	<i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>		



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Section MISC: Miscellaneous

MISC Embedded Galvanic Anodes

Last Revised: 2/15/2019

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Use & Approval Guidelines: [Cathodic Protection \(CP\) Systems](#)

All listings in this section are conditionally approved.

	Product	Name	Ref. No.
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 1682 Marion Williamsport Road E Marion, OH 43302	http://usa.sika.com/	
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sika FerroGard 650	2018-185
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sika FerroGard 670	2018-186
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Sika FerroGard 675	2018-187
VECTR 15	Vector Corrosion Technologies, 13312 North 56th Street, #102, Tampa, FL 33617	http://www.vector-corrosion.com/	
	Embedded Galvanic Anodes - Distributed <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Galvanode DAS	2008-166
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Galvashield XP	2001-145
	Embedded Galvanic Anodes - Point <i>Use & Approval Guidelines: Cathodic Protection (CP) Systems</i>	Galvashield XP4	2011-075

MISC Expanded Foam Backfill For Post Mounted Signs Types B, C and E

Last Revised: 6/25/2019



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Expanded Foam Backfill For Post Mounted Signs Types B, C and E

Last Revised: 6/25/2019

Provisional Specification: ECMS Special Provision P-c09311-A, Type B (Only for use on projects let on or before July 1, 2019)

Provisional Specification: ECMS Special Provision P-c09321-A, Type C (Only for use on projects let on or before July 1, 2019)

Provisional Specification: ECMS Special Provision P-c09341-A, Type E (Only for use on projects let on or before July 1, 2019)

Product	Name	Ref. No.
FOREI 15 Forward Enterprises, Inc., 9430 Telephone Road, Houston, TX 77075		
Expanded Foam Backfill For Post Mounted Signs Types B, C and E <i>Provisionally approved for use on projects let on or before July 1, 2019.</i>	Poly-Set HD-2	2000-089
Expanded Foam Backfill For Post Mounted Signs Types B, C and E <i>Provisionally approved for use on projects let on or before July 1, 2019.</i>	Poly-Set HD-5	2000-089

MISC Flexible Weatherproofing Coating for Concrete

Last Revised: 4/8/2015

Product	Name	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/		
Flexible Weatherproofing Coating for Concrete	Dural 355	1988-351
PDI-N 15 PDI, Inc., P. O. Box 130, Circle Pines, MN 55014 http://www.pdi-inc.com/		
Flexible Weatherproofing Coating for Concrete	Plastic Dip UV 1800	1985-179
WATSB 15 Watson Bowman Acme, a Sika Company, 95 Pineview Drive, Amherst, NY 14228 https://www.watsonbowmanacme.com/		
Flexible Weatherproofing Coating for Concrete	EP Elastic Waterproofing	1987-125

MISC Geosynthetic Clay Liner (GCL)

Last Revised: 12/6/2019

ECMS Special Provision C02121 ITEM 9212-2101 (ITEM 9212-0101) - Geosynthetic Clay Liner

This Provisional Specification or any manufacturer or product may be withdrawn immediately, if experience demonstrates a problem with the use of Geosynthetic Clay Liner.



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC Geosynthetic Clay Liner (GCL)

Last Revised: 12/6/2019

ECMS Special Provision C02121 ITEM 9212-2101 (ITEM 9212-0101) - Geosynthetic Clay Liner

This Provisional Specification or any manufacturer or product may be withdrawn immediately, if experience demonstrates a problem with the use of Geosynthetic Clay Liner.

Product	Name	Ref. No.
BNTFX 15 TAG Environmental, Inc., Division of Terrafix, 23 Truman Road, Barrie, Ontario L4M 6E7 http://terrafixgeo.com/products/geosynthetic-clay-liner-gcl/ <i>Formerly Bentofix Technologies, Inc.</i>		
Geosynthetic Clay Liner (GCL) <i>Provisionally Approved. This approval is only for Bentofix NSL geosynthetic clay liners manufactured at the Barrie, Ontario facility.</i>	Bentofix NSL	1999-109Q
CETCO 15 CETCO, Mineral Technologies Inc., 2870 Forbs Avenue, Hoffman Estates, IL 60192 http://www.cetco.com/en-us/ <i>(Formerly Colloid Environmental Technologies Company)</i>		
Geosynthetic Clay Liner (GCL) <i>Provisionally Approved</i>	Bentomat CL	2011-206Q
Geosynthetic Clay Liner (GCL) <i>Provisionally Approved</i>	Bentomat ST	1999-075Q

MISC Geotextile and Fiberglass Reinforced Paving Fabrics and Grids (Asphalt)

Last Revised: 3/2/2020

See Section 466.2(a) Geotextile Paving Fabric

Product	Name	COA	Ref. No.
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MISC High-Tension Cable Median Barrier Systems

Last Revised: 8/18/2021

Publication 13M, Design Manual Part 2 (DM2), Chapter 12.6.D - High-Tension Cable Median Barrier & Table 12.10 (Design/Location Guidelines for High-Tension Cable Barrier Systems Installed in Medians) [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
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BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous

MISC High-Tension Cable Median Barrier Systems

Last Revised: 8/18/2021

Publication 13M, Design Manual Part 2 (DM2), Chapter 12.6.D - High-Tension Cable Median Barrier & Table 12.10 (Design/Location Guidelines for High-Tension Cable Barrier Systems Installed in Medians) [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
BRIF0 15	Brifen USA, Inc., 12501 North Santa Fe Avenue, Oklahoma City, OK 73114 http://www.brifenusacom/						
High-Tension Barrier System	Brifen TL-4 Wire Rope Safety Fence (WRSF) (4 Cable)	NCHRP 350		TL-4	B-82B	SGR07d	2013-165M
GIBRA 15 Facility	Gibraltar Global LLC, 4303 Innovation Loop, Marble Falls, TX 78654 https://gibraltarglobal.com/ 1208 Houston Clinton Dr. Burnet, TX 78611						
End Anchor Terminal	Gibraltar MASH 2016 TL4 Cable Barrier Terminal (4-Cable)	MASH 2016		TL-3	CC-162		2020-258Q
	~ Gibraltar MASH 2016 TL4 Cable Barrier System Approved Drawing 08/03/21						
High-Tension Barrier System	Gibraltar MASH 2016 TL4 Cable Barrier System (4-Cable)	MASH 2016, Level Terrain		TL-4	B-316A		2020-258Q
	~ Gibraltar MASH16 TL4 Cable Barrier System Installation Manual & Inspection Checklist						
High-Tension Barrier System	Gibraltar MASH 2016 TL4 Cable Barrier System (4-Cable)	MASH 2016, 4H:1V Slopes		TL-3	B-340		2020-258Q
	~ Gibraltar MASH 2016 TL4 Cable Barrier System Approved Drawing 08/03/21						
High-Tension Barrier System	Gibraltar TL-4 Cable Barrier System (4 Cable)	NCHRP 350	Multiple	TL-4	B-137A, B-137A1, B-137B, B-137D	SGM07b	2015-129M
NUCR6 15	Nucor Steel Marion, Inc., 912 Cheney Ave., Marion, OH 43302 http://www.nucor.com/						
High-Tension Barrier System	NU-CABLE TL-4 High Tension Barrier System (4 Cable)	NCHRP 350	Multiple	TL-4	B-167	SGM07f	2010-166MB



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MISC High-Tension Cable Median Barrier Systems

Last Revised: 8/18/2021

Publication 13M, Design Manual Part 2 (DM2), Chapter 12.6.D - High-Tension Cable Median Barrier & Table 12.10 (Design/Location Guidelines for High-Tension Cable Barrier Systems Installed in Medians) [AASHTO MASH Implementation Information Resources with MASH Q&A](#)

Product	Name	Tested Criteria	Tested Height (in)	Tested Level	FHWA Acc. Letter	Designat or	Ref. No.
TRIN2 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 550 East Robb Avenue Lima, OH 45801 Formerly Trinity Highway Products, LLC						
	High-Tension Barrier System	CASS S3 TL4 Cable Barrier System (4-Cable)	MASH 2009, 4H:1V Slopes		TL-3	B-232B	SGM36b 2013-168M
	<i>B-232B: MASH TL-3 on 4H:1V slopes: The as tested condition - 30 foot-wide median on backslope 11 feet from bottom of median and 26 feet from slope break point.</i>						
	<i>B-141F: NCHRP-350 TL-3 on 1:4 slopes or flatter; TL-4 on 1:6 slopes or flatter</i>						
	High-Tension Barrier System	CASS S3 TL4 Cable Barrier System (4-Cable)	MASH 2016, Level Terrain		TL-4	B-232C	SGM36b 2013-168M
	<i>FHWA Eligibility Letters for CASS S3: B-232C: MASH TL-4 on Level Terrain</i>						
TRIN3 15 Plant	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ 2548 NE 28th Street Ft. Worth, TX 76111 Formerly Trinity Highway Products, LLC						
	High-Tension Barrier System	CASS S3 TL4 Cable Barrier System (4-Cable)	MASH 2016, Level Terrain		TL-4	B-232C	SGM36b 2013-168M
	<i>FHWA Eligibility Letters for CASS S3: B-232C: MASH TL-4 on Level Terrain</i>						
	High-Tension Barrier System	CASS S3 TL4 Cable Barrier System (4-Cable)	MASH 2009, 4H:1V Slopes		TL-3	B-232B	SGM36b 2013-168M
	<i>FHWA Eligibility Letters for CASS S3: B-232B: MASH TL-3 on 4H:1V slopes: The as tested condition - 30 foot-wide median on backslope 11 feet from bottom of median and 26 feet from slope break point.</i>						
	<i>B-141F: NCHRP-350 TL-3 on 1:4 slopes or flatter; TL-4 on 1:6 slopes or flatter</i>						



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Section MISC: Miscellaneous

MISC Hot Pour Mastics for Asphalt Pavements

Last Revised: 12/11/2023

Product	Name	Ref. No.
CRAF0 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafcoc.com/ Plant 121 Industrial Park Road Halls, TN 38040	Hot Pour Mastic for Asphalt <i>Conditionally approved to be used per manufacturer's specifications: Mastic One 33339 Product Data Sheet (manufacturer's specifications)</i>	Mastic One Part No. 33339 2014-270
FTECH 15 FPT Infrastructure, 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/	Hot Pour Mastic for Asphalt <i>Conditionally approved to be used per manufacturer's specifications: SAMIscreed Technical Data Sheet (manufacturer's specifications)</i>	SAMIscreed 2019-186
MAXPR 15 Maxwell Products, Inc., 650 South Delong Street, Salt Lake City, UT 84104 http://maxwellproducts.com	Hot Pour Mastic for Asphalt <i>Conditionally approved to be used per manufacturer's specifications: GAP Mastic B Product Data Sheet (manufacturer's specifications)</i>	Gap Mastic B 2018-239
P&TPR 15 P & T Products, Inc., 472 Industrial Parkway, Sandusky, OH 44870 https://pntproducts.com/	Hot Pour Mastic for Asphalt <i>Conditionally approved to be used per manufacturer's specifications: Dura-Fill Mastic T2 Product Data Sheet (manufacturer's specifications)</i>	Dura-Fill Mastic T2 2022-257RP
RTPT2 15 RIGHT/POINTE, LLC, 234 Harvestore Drive, Dekalb, IL 60115 http://www.rightpointe.com/ Facility Sharpsville, PA <i>Effective October 19, 2020, acquired by Crafcoc, Inc.</i>	Hot Pour Mastic for Asphalt <i>Effective March 2021, Crafcoc Inc. will stop using the Right Pointe name. Conditionally approved to be used per manufacturer's specifications: Pave Patch Black Product Data Sheet (manufacturer's specifications)</i>	Pave Patch Black 2018-157

MISC Hot Pour Mastics for Concrete Pavements

Last Revised: 6/29/2023

Product	Name	Ref. No.
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Section MISC: Miscellaneous

MISC Hot Pour Mastics for Concrete Pavements

Last Revised: 6/29/2023

Product	Name	Ref. No.
CRAF0 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ Plant 121 Industrial Park Road Halls, TN 38040		
Hot Pour Mastic for Concrete <i>Conditionally approved to be used per manufacturer's specifications: Crafco TechCrete-R & TechCrete-TBR Product Data Sheet</i>	TechCrete-R (for repairs up to 3/4" deep)	2013-114
Hot Pour Mastic for Concrete <i>Conditionally approved to be used per manufacturer's specifications: Crafco TechCrete-R & TechCrete-TBR Product Data Sheet</i>	TechCrete-TBR (for repairs 3/4" to 8" deep)	2013-114
FTECH 15 FPT Infrastructure, 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/		
Hot Pour Mastic for Concrete	Fibrecrete G	2014-244

MISC Metal Cribbing

Last Revised: 1/27/2016

Steel Products Procurement Act applies.

Product	Name	Ref. No.
CON00 15 Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/		
Metal Cribbing		----
CON06 15 Contech Engineered Solutions LLC, a QUIKRETE Company, 9025 Centre Pointe Drive, West Chester, OH 45069 http://www.conteches.com/ Plant 700 Tech Drive Winchester, KY 40391		
Metal Cribbing		----

MISC Modular Glare Screen

Last Revised: 6/13/2023

Product	Name	Ref. No.
CARST 15 Carsonite International Corporation, Carsonite Composites, 19845 US Highway 76, Newberry, SC 29108 http://www.carsonite.com/		
Modular Glare Screen		1984-159



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Section MISC: Miscellaneous

MISC Modular Glare Screen

Last Revised: 6/13/2023

Product	Name	Ref. No.
PLAPC 15 Plasticade, 100 Howard Avenue, Des Plaines, IL 60018-1958 https://plasticade.com/ Facility 7700 North Austin Avenue Skokie, IL 60077 Modular Glare Screen	Plasticade Modular Glare Screen	2022-131Q
SAFHC 15 Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001 https://www.valtir.com/ Plant 70 West Madison Street Suite 2350 Chicago, IL 60602 <i>Formerly Safe-Hit Corporation</i> Modular Glare Screen	Safe-Hit Glarescreen (Anti-Glare Shield System)	1991-053

MISC PA Structure Mounted Guide Rail Bridge Barrier (BD-609M)

Last Revised: 7/23/2019

Product	Name	Ref. No.
ACKBAY15 Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ PA Structure Mounted Guide Rail Bridge Barrier		2018-282Q
APEX- 15 Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ PA Structure Mounted Guide Rail Bridge Barrier		2014-195QN
BROWD 15 D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ PA Structure Mounted Guide Rail Bridge Barrier		2008-114Q
CIANB 15 Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> PA Structure Mounted Guide Rail Bridge Barrier		2010-246Q
ELDER 15 Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ PA Structure Mounted Guide Rail Bridge Barrier		2009-025Q



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MISC PA Structure Mounted Guide Rail Bridge Barrier (BD-609M)

Last Revised: 7/23/2019

Product	Name	Ref. No.
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/ PA Structure Mounted Guide Rail Bridge Barrier	2010-015Q
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/ PA Structure Mounted Guide Rail Bridge Barrier	2018-218Q
PREC1 15	Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/ PA Structure Mounted Guide Rail Bridge Barrier	2016-204Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 PA Structure Mounted Guide Rail Bridge Barrier	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/ PA Structure Mounted Guide Rail Bridge Barrier	2012-247Q
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/ PA Structure Mounted Guide Rail Bridge Barrier	2007-189Q
SAFGD 15	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ Plant 220 Lincoln Avenue Pittsburgh, PA 15209 PA Structure Mounted Guide Rail Bridge Barrier	2013-133QC
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701 PA Structure Mounted Guide Rail Bridge Barrier	2015-142QF

MISC Photovoltaic Modules

Last Revised: 4/13/2015

Must satisfy requirements of Section 910.3(u)3 and 910.3(v).

Approval for use granted only on a project-by-project basis by Special Provision in the contract.

Use in rural areas where cost-effectiveness can be demonstrated.



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Section MISC: Miscellaneous

MISC Photovoltaic Modules

Last Revised: 4/13/2015

Must satisfy requirements of Section 910.3(u)3 and 910.3(v).

Approval for use granted only on a project-by-project basis by Special Provision in the contract.

Use in rural areas where cost-effectiveness can be demonstrated.

Product	Name	Letter Date	Ref. No.
KYOCE 15	Kyocera International, Inc., 8611 Balboa Ave., San Diego, CA 92123 http://americas.kyocera.com/ Photovoltaic Modules	1/4/1991	----

MISC Pipe Penetrating Sealers to Reduce Chlorine Penetration of Concrete

The products previously listed in this Section have been moved to Section 1019.2(c) Penetrating Sealers (For Reinforced Concrete Substructure Surfaces) and/or Section 1019.2(d) Penetrating Sealers (For Bridge Superstructure).

AASHTO T259, AASHTO T260, FHWA RD 78-35, Section 4.B.77

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 4/8/2024

Product	Name	Cement Usage	Ref. No.
AQUAF 15	Aquafin, Inc., 505 Blue Ball Road, #160, Elkton, MD 21921 http://www.aquafin.net/ <i>Formerly Ceratech, Inc. (CETEC 15)</i>		
	Fast-setting, cementitious concrete repair mortar	Pavemend VR	Vertical and Overhead 2007-064Q
	Rapid-setting, semi-leveling, self-consolidating cementitious structural repair concrete	Pavemend SL	2010-276
	<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SL Technical Datasheet</i>		
	Very rapid-setting, self-leveling, structural repair mortar	Pavemend SLQ	2010-277
	<i>Conditionally approved per manufacturer's specifications and usage guidelines. Pavemend SLQ Technical Datasheet</i>		



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Section MISC: Miscellaneous

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 4/8/2024

Product	Name	Cement Usage	Ref. No.
CEMX6 15	Fairborn Cement Company (Eagle Materials, Inc.), 3811 Turtle Creek Blvd, Suite 1100, Dallas, TX 75219	http://www.eaglematerials.com	
Plant	3250 Linebaugh Road Xenia, OH 45385 <i>(Formerly CEMEX, Inc.)</i>		
	Type M Masonry Cement (Mortar)		2010-233QA
	Type S Masonry Cement (Mortar)		2010-233QB
CHEMM 15	ChemMasters, Inc., 300 Edward Street, Madison, OH 44057	http://www.chemmasters.net/	
	Rapid-setting, high early strength, concrete repair mortar	SpeedPatch	1996-135
CRAF0 15	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226	http://www.crafco.com/	
Plant	121 Industrial Park Road Halls, TN 38040		
	Hot Pour Mastic for Concrete <i>Conditionally Approved</i>	TechCrete	2013-114
CTS-1 15	CTS Cement Manufacturing Company, 12442 Knott Street, Garden Grove, CA 92841	http://www.ctscement.com/	
	Microfiber reinforced shrinkage-compensating cement concrete	Komponent System-K / Chem Comp III	1989-085
	Polymer Modified and Special Cements, Mortars, and Concrete <i>Section 624.2(c)</i>	Rapid Set Concrete Mix	1993-092
	Rapid-setting, rapid hardening hydraulic cement	Rapid Set Cement	1986-358
	Type K Cement	Komponent Type K Cement (Pre-Blended Shrinkage-Compensating Cement)	2001-161Q
DAYT1 15	Dayton Superior Corporation, 4226 Kansas Avenue, Kansas City, KS 66106	http://www.daytonsuperior.com/	
	Bonding Agent	Acrylic Bonding Agent J40	1995-161
	High Strength Mortar	HD 25 VO	1999-207Q
		Vertical and Overhead	



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Section MISC: Miscellaneous

MISC Polymer Modified and Special Cements, Mortars, and Concrete

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Product	Name	Cement Usage	Ref. No.
EUCLD 15 Euclid Chemical Company, 19215 Redwood Road, Cleveland, OH 44110-2799 http://www.euclidchemical.com/			
Cementitious Topping & Repair Mortar for Thin Applications	Thin-Top Supreme		2002-158Q
Concrete Repair Mortar	Concrete Top Supreme		2002-159Q
Corrosion inhibitor repair mortar	Eucocrete		2002-154Q
Fast-setting, cementitious concrete repair mortar	Speed Crete Red Line	Vertical and Overhead	2001-143Q
Rapid-setting, high early strength, concrete repair mortar	Dural Top Gel	Vertical and Overhead	1996-224
FLETE 15 FlexKRETE Technologies, 13330 S FM 372, Valley View, TX 76272 http://flexkrete.com/			
Thermoset vinyl polymer for concrete repair	flexKRETE 102		2003-077Q
FTECH 15 FPT Infrastructure, 401 Old 52 South, Mount Airy, NC 27030 https://www.fptinfrastructure.com/			
Hot Pour Mastic for Concrete	Fibrecrete G		2014-244
HBFUL 15 H. B. Fuller Construction Products Inc., 1200 Willow Lake Boulevard, St. Paul, MN 55110-5101 https://prospec.com/rehabilitation/ Plant 59 Brunswick Avenue Edison, NJ 08817			
Fast-setting, cementitious concrete repair mortar	ProSpec BlendCrete	Pre-cast, Prestressed and Dry-Cast Cosmetic Repairs Only	1987-072
~ ProSpec BlendCrete Features & Benefits, Datasheets, and Specs			
IMCTI 15 IMCO Technologies, Inc., 3909 Witmer Road, Suite 1014, Niagara Falls, NY 14305 https://www.imcotechologies.com/			
Rapid-setting, magnesium phosphate cement based patching material	MG-Krete 1260		2008-122Q



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Section MISC: Miscellaneous

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 4/8/2024

Product	Name	Cement Usage	Ref. No.
KAUFM 15 Kaufman Products, Inc., 3811 Curtis Ave., Baltimore, MD 21226-1131 http://www.kaufmanproducts.net/			
Brushable cementitious finishing compound	PipeWipe	Pre-cast, Prestressed and Dry-Cast Cosmetic Repairs Only	2004-033Q
Fast-setting, cementitious concrete repair mortar	Duracrete II VOFT		2016-179Q
<i>Approved per manufacturer's specifications: Duracrete II VOFT Product Datasheet</i>			
Fast-setting, cementitious concrete repair mortar	HiCap (Light Gray, Carvable) Patching Compound		1994-269
Fast-setting, cementitious concrete repair mortar	HiCap (Medium Gray, Carvable) Patching Compound		1992-295
Fast-setting, cementitious concrete repair mortar	HiCap FT (Carvable)		2018-164Q
<i>Approved per manufacturer's specifications: HiCap FT Product Datasheet</i>			
LAFR7 15 Holcim (US) Inc., Northeast Region, 5160 Main Street, Whitehall, PA 18052 https://www.holcim.us/			
Plant	Whitehall Cement Plant 5160 Main Street Whitehall, PA 18052		
Formerly Lafarge North America			
Polymer Modified and Special Cements, Mortars, and Concrete	T-SF Blended	Not Approved for ASR Mitigation	1998-013
Polymer Modified and Special Cements, Mortars, and Concrete	Type I-E (Enhanced)		2008-037Q
LEH-9 15 Lehigh Cement Company, Heidelberg Materials, 3938 Easton Nazareth Highway, Nazareth, PA 18064 https://heidelbergmaterials.us/			
Plant	3938 Easton Nazareth Highway Nazareth, PA 18064		
(Formerly Essroc ESS-7 15)			
Type M Masonry Cement (Mortar)			2002-108Q
Type N Cement			2002-109Q
Type S Masonry Cement (Mortar)			2002-107Q



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Section MISC: Miscellaneous

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 4/8/2024

Product	Name	Cement Usage	Ref. No.
LEH13 15 Plant	Lehigh Cement Company, Heidelberg Materials, Highway 31, Speed, IN 47172 https://heidelbergmaterials.us/		
	Speed, IN (Formerly Essroc ESS13 15)		
	Type M Masonry Cement (Mortar)	Brixment Type M Cement	2012-163QA
	Type N Cement	Brixment Type N Cement	2012-163QB
	Type S Masonry Cement (Mortar)	Brixment Type S Cement	2012-163QC
MAPEIA15 Plant	MAPEI Corporation, 1144 East Newport Center Drive, Deerfield Beach, FL 33442 http://www.mapei.com/US-EN/		
	Fredericksburg, VA		
	Fast-setting, extended working time, repair mortar	Planitop XS	2017-302Q
	ASTM C928, R1 Repair Mortar - Planitop XS Technical Data Sheet		
	Fast-setting, fiber-reinforced, cementitious concrete repair mortar	Planitop X	2017-295Q
	ASTM C928, R2 Repair Mortar - Planitop X Technical Data Sheet		
MBS-7 15 Plant	Sika Corporation, 889 Valley Park Drive, Shakoppe, MN 55379 https://mbcc.sika.com/en-us		
	Newark, CA Formerly Master Builders Solutions		
	Flowable structural repair concrete with corrosion inhibitor	SikaEmaco S 466 (Formerly MasterEmaco S 466 CI)	Vertical and Overhead 1994-284Q
	<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Houston, TX (MBS12 15).</i>		



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

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Product	Name	Cement Usage	Ref. No.
MBS12 15 Sika Corporation, Construction Systems, 889 Valley Park Drive, Shakopee, MN 55379 https://mbcc.sika.com/en-us Plant 7100 Wright Road Houston, TX 77041 <i>Formerly Master Builders Solutions US LLC</i>	Fiber-reinforced, thixotropic structural repair mortar	SikaEmaco 488 CI (previously MasterEmaco S 488 CI)	1992-034Q
<i>Product is also manufactured in Streetsboro, OH (MBS 11 15).</i>			
Flowable structural repair concrete with corrosion inhibitor	SikaEmaco S 466 (Previously MasterEmaco S 466 CI)	Vertical and Overhead	1994-284Q
<i>Product is also manufactured in Streetsboro, OH (MBS 11 15) & Newark, CA (MBS-7 15).</i>			
NATPC 15 National Permacrete Company, 590 North Valley Forge Rd., Devon, PA 19333 Polymer Modified and Special Cements, Mortars, and Concrete	Permacrete	Pre-cast, Prestressed and Dry-Cast Cosmetic Repairs Only	1998-168
QUIK2 15 The QUIKRETE Companies, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.quikrete.com/ Plant 700 Mountain Road Perryville, MD 21903	High strength, high flow, low shrinkage, pumpable material for structural concrete repair	QUIKRETE Form & Pour Concrete Mix MS	2020-085Q



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 4/8/2024

Product	Name	Cement Usage	Ref. No.
QUIKR 15 Plant	The QUIKRETE Companies, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.quikrete.com/ 519 Red Barn Lane Latrobe, PA 15650		
Fast-setting, high early strength concrete for repairs	Commercial Grade QUIKRETE FastSet™ Concrete Mix	Vertical and Overhead	2000-288Q
Fiber-reinforced, rapid-setting material for structural concrete repair	Commercial Grade QUIKRETE FastSet™ DOT Mix	Vertical and Overhead	2003-004Q
High early strength, fast-setting grout and repair mortar	Commercial Grade QUIKRETE FastSet™ Non-Shrink Grout	Vertical and Overhead	2000-292Q
Polymer Modified and Special Cements, Mortars, and Concrete	FastSet™ Cement	Vertical and Overhead	2000-287Q
Rapid-setting material for structural concrete repairs	Commercial Grade QUIKRETE FastSet™ Repair Mortar	Vertical and Overhead	2000-291Q
ROKLIN15 Facility	Roklin Systems Incorporated, 300 East Shell Road, Ventura, CA 93001 300 East Shell Road Ventura, CA 93001		
Concrete Repair System	Roklin Concrete Welder Gray System For Concrete Repair with Pea Gravel Aggregates		2016-217
<p><i>Conditionally approved as a system per manufacturer's specifications. System includes Concrete Welder Gray two component liquid and bags of FairmountSantról's 3/8 inch silica pea gravel & 1/8 inch silica sand (topping). Manufacturer's Specifications: Roklin Concrete Welder System Technical Data Sheet</i></p>			



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MISC Polymer Modified and Special Cements, Mortars, and Concrete

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Product	Name	Cement Usage	Ref. No.
SIKA0 15 Facility	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 201 Polito Avenue Lyndhurst, NJ 07071		
Cementitious, silica fume enhanced mortar	SikaCem 133	Vertical and Overhead	1992-006
Epoxy Baseplate Grouting System	Sikadur 42 Grout Pak (for seating base plates, 3-component)		1992-005
Fast-setting, non-sag mortar	Sikatop Plus 123	Vertical and Overhead	1982-007
Fast-setting, screed mortar	Sikatop Plus 111		1978-043
Fast-setting, trowel-grade mortar	Sikatop Plus 122		1979-036
Leveling and pore sealing mortar	Sikatop Plus 121		1980-016
SIKA1 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/ 1682 Marion Williamsport Road E Marion, OH 43302		
Cementitious, silica fume enhanced mortar	SikaCem 133	Vertical and Overhead	1992-006
Epoxy Baseplate Grouting System	Sikadur 42 Grout Pak (for seating base plates)		1992-005
Fast-setting, non-sag mortar	Sikatop Plus 123	Vertical and Overhead	1982-007
Fast-setting, screed mortar	Sikatop Plus 111		1978-043
Fast-setting, trowel-grade mortar	Sikatop Plus 122		1979-036
Leveling and pore sealing mortar	Sikatop Plus 121		1980-016



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Section MISC: Miscellaneous

MISC Polymer Modified and Special Cements, Mortars, and Concrete

Last Revised: 4/8/2024

Product	Name	Cement Usage	Ref. No.
SIKA2 15 Plant	Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071 http://usa.sika.com/		
	201 Polito Avenue Lyndhurst Lyndhurst, NJ		
	Cementitious, silica fume enhanced mortar	SikaCem 133	Vertical and Overhead
	Epoxy Baseplate Grouting System	Sikadur 42 Grout Pak (for seating base plates, 3-component)	1992-006
	Fast-setting, non-sag mortar	Sikatop Plus 123	Vertical and Overhead
	Fast-setting, screed mortar	Sikatop Plus 111	1992-005
	Fast-setting, trowel-grade mortar	Sikatop Plus 122	1982-007
	Leveling and pore sealing mortar	Sikatop Plus 121	1978-043
			1979-036
			1980-016
USCPR 15 Plant	US Concrete Products, 16 Greenmeadow Drive, Suite 111, Timonium, MD 21093 https://uscproducts.com/products/		
	Baltimore, MD		
	Fast-setting, high early strength, rapid hardening repair mortar	High Power DOT Grade Repair Mortar	2002-140Q
	Polymer Modified and Special Cements, Mortars, and Concrete	High Power Cement	2002-141Q
	Polymer Modified and Special Cements, Mortars, and Concrete	High Power Fast Setting Concrete	2003-147Q

MISC Precast Concrete Products

Last Revised: 3/31/2023

Approval Guidelines: [Design Manual, Part 4 \(Publication 15M\), Part A, Chapter 1, Section 1.14](#)

Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
AAP-1 15 Plant	Atlantic American Precast, Part of the H&K Group, P.O. Box 196, 2052 Lucon Road, Skippack, PA 19474		
	https://www.hkgroup.com/products/construction-materials/precast-concrete		
	1 Quarry Road Douglassville, PA 19518		



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Section MISC: Miscellaneous

MISC Precast Concrete Products

Last Revised: 3/31/2023

Approval Guidelines: [Design Manual, Part 4 \(Publication 15M\), Part A, Chapter 1, Section 1.14](#)

Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
AAP-1 15	Atlantic American Precast, Part of the H&K Group, P.O. Box 196, 2052 Lucon Road, Skippack, PA 19474 https://www.hkgroup.com/products/construction-materials/precast-concrete		
Plant	1 Quarry Road Douglassville, PA 19518		
	Earth Retainment System	Gravix Retaining Wall System (Earth Wall Products, LLC)	2021-011Q
	<i>See Drawing Number 2020-236 on Approved Bridge and Structure Products website for the Gravix Retaining Wall System.</i>		
	Earth Retainment System	Lagging Walls	2021-100Q
ADVIT 15	Advanced Infrastructure Technologies, LLC, 55 Baker Boulevard, Suite 205, Brewer, ME 04412 http://www.aitbridges.com/		
	Alternate Concrete Arch System (Non-Precast)	Composite Arch Bridge System	483-20-01 (Previously 483-14-05) 2019-170Q
	<i>Item Number 9000-7022: Clear Span Length: 20 feet to 65 feet; Skew Angle: 50 degrees to 90 degrees; Structure configuration: Simple Span (Original Product Evaluation Application 2013-236Q)</i> Approved Bridge and Structure Products		
BRAYP 15	Brayman Precast Solutions, LLC, 2900 South Noah Drive, Saxonburg, PA 16056 http://www.braymanprecast.com/ Previous Supplier Codes: SRST0 15 & ADVPS 15		
	Earth Retainment System	Lagging Walls	2012-169Q
CONAW 15	Conewago Precast Building Systems, 576 Edgegrove Road, P.O. Box 461, Hanover, PA 17331 http://www.conewago.com/capabilities/precast-concrete/		
	Earth Retainment System	Lagging Walls	2018-222Q
CONCR 15	Concrete Concepts, Inc., 1095 Thompson Avenue, P.O. Box 272, McKees Rocks, PA 15136 https://bryanmaterialsgroup.com/		
	Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD) ----
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD) ----
	Earth Retainment System	Wall Lagging	----



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MISC Precast Concrete Products

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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
CONSS 15 Concrete Safety Systems, LLC, 9190 Old Route 22, Bethel, PA 19507 http://concretesafety.com/			
Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)	----
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	----
DAILY 15 Dailey, W. E., Inc., RR1A Box 51, Airport Road, Shaftsbury, VT 05262 http://wedailey.com/			
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	1995-070
EAGLE 15 Eagle Concrete Products, 1019 East Bakersville Edie Road, Somerset, PA 15501			
Earth Retainment System	Lagging Walls		2002-135Q
FADD1 15 Faddis Concrete Products, 3515 Kings Highway, Downingtown, PA 19335 http://www.faddis.com/			
Earth Retainment System	Dura-Hold	431-11-10 (95-144R PE)	1999-190Q
Earth Retainment System	Lagging Walls		2007-127Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	2011-214Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)	2011-214Q
Earth Retainment System	SINE WALL (MSE wall)	483-17-4	2017-049Q



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
FADD2 15 Faddis Concrete Products, 205 West Washington Street, New Castle, PA 16101 http://www.faddis.com/			
Earth Retainment System	Lagging Walls		2001-121Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	2011-070Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)	2011-070Q
Earth Retainment System	SINE WALL (MSE Wall)	483-17-4	2018-264Q
Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2003-045Q
FADD3 15 Faddis Concrete Products (Precast), 210 Hinterleiter Road, Kutztown, PA 19530 http://www.faddis.com/			
Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)	2003-075Q
Earth Retainment System	Lagging Walls		2014-267Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	2012-047Q
Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)	2012-047Q
Earth Retainment System	SINE WALL (MSE wall)	483-17-4	2015-110B
Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2005-019Q
Precast Concrete Arch System	ECO-SPAN Precast Arch-Box System	483-18-04 (2014-115A, PreTek Group)	2014-115B



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
FTML1 15	Fort Miller Company, Inc., P.O. Box 98, Schuylerville, NY 12871-0098 http://www.fortmiller.com/		
Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2005-042Q
Precast Bridge Superstructure	Inverset	431-96-49	1990-117
GADSP 15	Garden State Precast, Inc., P. O. Box 702, Farmingdale, NJ 07727 http://gardenstateprecast.com/		
Earth Retainment System	Stone Strong Systems	483-13-04	2009-187
HYDR1 15	Rinker Pipe, a QUIKRETE Company, 19500 State Highway 249, Suite 540, Houston, TX 77070 https://www.rinkerpipe.com/		
Plant	2000 Gregg Station Road Oakdale, PA 15071		
Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)	----
	<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>		
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411		
Earth Retainment System	Lagging Walls		2013-054Q
J&RS1 15	Slaw Precast, J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
	<i>Note: Previously assigned J&RS2 15 for same facility</i>		
Alternate Precast Concrete Parapet	Barlock		----
Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)	----
Earth Retainment System	Lagging Walls		----
Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)	----
Precast Bridge Superstructure	Inverset	431-96-49	2006-202Q
J&RS2 15	J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/		
Earth Retainment System	Rett Wall	483-13-10	2011-203



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
LIND1 15 Plant	Lindsay Precast, 6845 Erie Avenue NW, P.O. Box 578, Canal Fulton, OH 44614 http://www.lindsayprecast.com/		
	6845 Erie Avenue NW P.O. Box 578 Canal Fulton, OH 44614		
	Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)
	<i>Provisional Approval: ECMS Special Provision I-c1084-A.</i>		
	Precast Concrete Arch System	ECO-SPAN Precast Arch-Box System	483-18-04 (2014-115A, PreTek Group)
MACK0 15	Mack Industries of PA, Inc., 2207 Sodom-Hutchings Road, Vienna, OH 44473 http://www.mackconcrete.com/		
	Earth Retainment System	Lagging Walls	2008-093Q
	Earth Retainment System	Stone Strong Systems	483-13-04
MIDAP 15	Mid Atlantic Precast Inc., 401 Railroad Street, Monongahela, PA 15063		
	Earth Retainment System	Dura-Hold	431-11-10
MILL0 15	A. C. Miller Concrete Products, P.O. Box 93, 9588 Route 22, Blairsville, PA 15717 http://www.acmiller.com/		
	Earth Retainment System	Lagging Walls	2018-194Q
	Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)
	<i>Provisional Approval: ECMS Special Provision I-c1084-A.</i>		
	Precast Concrete Arch System	ECO-SPAN Precast Arch-Box System	483-18-04 (2014-115A, PreTek Group)
MILL2 15 Plant	A. C. Miller Concrete Products, Inc., 31 E. Bridge Street, Spring City, PA 19475 http://www.acmiller.com/		
	Royersford Plant Royersford, PA		
	Earth Retainment System	Lagging Walls	2019-073Q
NORPP 15	Northeast Prestressed Products LLC, 121 River Street, Cressona, PA 17929-1133 http://www.npp-llc.com/		
	Earth Retainment System	Evergeen Wall	431-03-09 (92-047PE)
	Earth Retainment System	Universal Wall System (U-Wall)	483-13-11 (2011-221PE)
			2011-221



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
NORPR 15 Northeast Precast, 92 Reese Road, Millville, NJ 08332 http://www.northeastprecast.com/			
Earth Retainment System	Reinforced Earth Company (MSE Wall - Rectangular Panel)	431-04-10 (04-601-BQAD)	2017-220
Earth Retainment System	SINE WALL (MSE Wall)	483-17-04 (Drawing #2015-110 dated 9/21/17)	2017-122Q
OLP-1 15 Oldcastle Infrastructure, Inc., A CRH Company, 7000 Central Parkway, Suite 800, Atlanta, GA 30328 https://oldcastleinfrastructure.com/ Plant 200 Keystone Drive Telford, PA 18969			
Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)	2015-185Q
Precast Concrete Arch System	Bebo Precast Concrete Arch Bridge System	431-00-06 (1998-211)	1998-211Q
Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)	2006-072Q
<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>			
REDRK 15 Redi Rock of Southeastern Pennsylvania, 451 East Reliance Road, Telford, PA 18969-0000 http://jdm-inc.com/			
Earth Retainment System	Redi-Rock Gravity Wall	483-18-02 (2016-030)	2016-030M
Earth Retainment System	Redi-Rock Positive Connection Retaining Wall System	483-18-02 (2015-067)	2015-067A
SIDP1 15 Sidley Precast Division of R.W. Sidley, Inc., 88 East Hillis Street, Youngwood, PA 15697 http://www.sidleyprecast.com/			
Earth Retainment System	Lagging Walls		2010-204Q



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Strike Off Letters (SOL) and Drawings of approved Earth Retainment Systems, Precast and Alternate Concrete Arch Systems, and Precast Bridge Superstructures: [Approved Bridge and Structure Products](#)

Product	Name	SOL Number	Ref. No.
TERH0 15 Plant	Terre Hill Concrete Products, P.O. Box 10, Terre Hill, PA 17581 Plant #2 1232 Precast Road East Earl, PA 17519	http://www.terrehill.com/	
	Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)
	<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>		
TERH1 15 Plant	Terre Hill Concrete Products, Plant #4:, 42 South Butler Road, Lebanon, PA 17042 Plant #4: 42 South Butler Road Lebanon, PA 17042	http://www.terrehill.com/	
	Precast Concrete Arch System	Bebo Precast Concrete Arch Bridge System	431-00-06 (1998-211)
	Precast Concrete Arch System	Con-Span Precast Structure Standard	483-17-4 (86-353PE Change #2)
	<i>Provisional Approval: ECMS Special Provision I-c1084-A</i>		
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895	http://www.lcwhitford.com/	
	Earth Retainment System	Lagging Walls	2007-042Q
WILLA 15 Plant	K. J. Williams Concrete Company, Inc., P.O. Box 5137, Cresaptown, MD 21505-5137 15213 McMullen Highway S.W. Cumberland, MD 21502		
	Earth Retainment System	Foster Geotechnical (MSE wall)	431-01-06 (00-602-BQAD)
	Earth Retainment System	Reinforced Earth Company (MSE Wall - Cross Panel)	431-94-53 (94-603-BQAD)
	Earth Retainment System	SINE WALL (MSE Wall)	483-17-4
	Earth Retainment System	T-Wall Units (Reinforced Earth Company, formerly Neel)	483-17-01 rev. IV (2016-129)

MISC Sediment Filter Bag

Last Revised: 6/7/2018



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Section MISC: Miscellaneous

MISC Sediment Filter Bag

Last Revised: 6/7/2018

For 15' x 15' pumped water filter bags, see Section 855.

ECMS Special Provision I-C08581-A

Product	Name	Ref. No.
ACF-2 15 Ferguson Enterprises LLC dba ACF Environmental, 2831 Cardwell Road, Richmond, VA 23234 https://www.fergusongss.com/ Sediment Filter Bag	Dirt Bag	1995-156
ENVGE 15 Environmental Geosynthetics, 1314 State Road, Coopersburg, PA 18036 http://www.environmentalgeosynthetics.com/ Sediment Filter Bag	The Protector 1515 10 oz Sediment Filter Bag	2005-036Q
INDVA 15 Indian Valley Industries, Inc., 5 Pine Camp Dr., Binghamton, NY 13904 http://www.iviindustries.com/index.html Sediment Filter Bag	IVI 1515 Sediment Filter Bag	2001-020Q
JOHNS 15 Johnston-Morehouse Dickey Company, 5401 Progress Boulevard, P.O. Box 173, Bethel Park, PA 15102 http://www.jmdcompany.com/ Sediment Filter Bag	Enviro-Protection Filter Bag	1997-122
ROBER 15 Frank Roberts and Sons, Inc., 1130 Robertsville Road, Punxsutawney, PA 15767 http://www.frankrobertsandsons.com/ Sediment Filter Bag	FB-3 Filter Bag	1995-019

MISC Special Asphalt Patching Material

Last Revised: 11/13/2023

Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

Product	Name	Ref. No.
COLMM 15 Cold Mix Manufacturing Corporation, 65 Edison Avenue, Mount Vernon, NY 10550 https://www.greenpatch.com Special Asphalt Patching Material <i>Product description, specifications, and manufacturing preparation & operation: ColdTek High Performance Asphalt Repair Product Data Sheet</i>	ColdTek High Performance Asphalt Repair	2021-013Q
Special Asphalt Patching Material	GreenPatch High Performance Cold Mix	2013-034M



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MISC Special Asphalt Patching Material

Last Revised: 11/13/2023

Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

Product	Name	Ref. No.
CRAF0 15 Crafcoc, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafcoc.com/ Plant 121 Industrial Park Road Halls, TN 38040		
Special Asphalt Patching Material <i>Provisionally Approved</i>	Crafcoc HP Cold Patch	2011-136
Special Asphalt Patching Material	Polypatch Type 1, Hot Applied	2000-064
Special Asphalt Patching Material	Polypatch Type 2, Hot Applied	2000-064
Special Asphalt Patching Material	Polypatch Type 3, Hot Applied	2000-064
EZSCO 15 EZ Street Company, 1786 NW 82nd Avenue, Miami, FL 33126 http://www.asphaltrepair.net/		
Special Asphalt Patching Material <i>Provisionally approved per manufacturer's specifications. EZ Street Cold Asphalt Patching Material - Manufacturer's Specifications</i>	EZ Street Cold Asphalt Patching Material	2007-007Q
HEILM 15 Heilman Pavement Specialties, 290 North Pike Road, Sarver, PA 16055-9735 http://www.hei-way.com/		
Special Asphalt Patching Material	HEI-Way General Purpose Permanent Patching Material	1983-128
Special Asphalt Patching Material	HEI-Way Latex Modified Permanent Patching Material	1983-127
Special Asphalt Patching Material	HEI-Way Premium Stockpile Permanent Patching Material	1980-077
INNMU 15 Innovative Municipal U.S., Inc., P.O. Box 712, Niagara Falls, NY 14302		
Special Asphalt Patching Material <i>Provisionally Approved</i>	Propatch High Performance	2008-146Q
PERMA 15 Perma-Patch, Inc., 6123 Oakleaf Avenue, Baltimore, MD 21215 http://permapatch.com/		
Special Asphalt Patching Material	Perma-Patch	86-037



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MISC Special Asphalt Patching Material

Last Revised: 11/13/2023

Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

Product	Name	Ref. No.
QPR-1 15 QPR, Division of the Quikrete Company, 12735 Morris Road, Alpharetta, GA 30004 http://www.quikrete.com/		
Special Asphalt Patching Material <i>Provisionally Approved</i>	QPR High Performance Cold Patch	2004-153Q
RDSOUP15 Road Soup LLC, 1856 Commercial Street, Escondido, CA 92029 https://www.roadsoup.com/		
Special Asphalt Patching Material <i>Conditionally approved per manufacturer's specifications. Note: This product has been packaged and distributed under the following three names: Asphalt Repair, Permanent Asphalt Repair, and Premium Asphalt Repair. All three names represent the same product. Road Soup Asphalt Repair - Manufacturer's Specifications</i>	Road Soup Premium Asphalt Repair	2021-176Q
ROAPR 15 Roadstone Production, LLC, 1230 River Road, Charlottesville, VA 22901 http://aquaphalt.com/		
Special Asphalt Patching Material <i>Conditionally approved per manufacturer's specifications. Aquaphalt Technical Data Sheet - Specifications</i>	Aquaphalt 4.0 Fine	2012-198
Special Asphalt Patching Material <i>Conditionally approved per manufacturer's specifications. Aquaphalt Technical Data Sheet - Specifications</i>	Aquaphalt 6.0 Medium	2012-198
Special Asphalt Patching Material <i>Conditionally approved per manufacturer's specifications. Aquaphalt Technical Data Sheet - Specifications</i>	Aquaphalt 9.0 Coarse	2012-198
RUSS1 15 Russell Standard Corporation, 990 Hazel Street, Akron, OH 44305 http://www.russellstandard.com/		
Special Asphalt Patching Material	Jasa HP Cold Patch	2011-123
RUSS7 15 Russell Standard Corporation / Hammaker East LTD, 285 Kappa Drive, Suite 300, Pittsburgh, PA 15238 http://www.russellstandard.com/ Facility 3450 Asiatic Avenue Baltimore, MD 21226		
Special Asphalt Patching Cutback Asphalt <i>This approval is for the liquid only. The cutback asphalt must be blended with aggregate that meets the quality requirements in Sections 703.1 and 703.2 of Pub 408 to be used as cold patching material. See Bulletin 27, Specifications for Special Bituminous (Asphalt) Mixtures, for composition of mixture requirements: Bulletin 27, Chapter 3, Bituminous Patching Materials</i>	JASA HP-5 Cutback Asphalt	2015-136Q



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MISC Special Asphalt Patching Material

Last Revised: 11/13/2023

Note: Volatile Organic Compound (VOC) Content is not considered in the approval process for products in this section.

Product	Name	Ref. No.
SEABD 15 Seaboard Asphalt Products Company, 3601 Fairfield Road, Baltimore, MD 21226 http://seaboardasphalt.com/		
Special Asphalt Patching Material <i>Product Application Guide: Seaboard BOND-X Green Product Application Guide</i>	BOND-X Green Patching Material	2011-125
Special Asphalt Patching Material <i>Product description and specifications: BOND-X High Performance Cold Patch Product Data Sheet</i>	BOND-X High Performance Cold Patch	1994-280
Special Asphalt Patching Material <i>Technical Data Sheet: SpecChem MAX-A-PATCH ACP Technical Data Sheet</i>	SpecChem MAX-A-PATCH ACP	2020-187Q
SUIT0 15 Suit-Kote Corporation, 1911 Lorings Crossing Rd, Cortland, NY 13045-5160 http://www.suit-kote.com/		
Special Asphalt Patching Material <i>Modified stockpile patching material. Product description, recommended uses, and specifications: SK-MOD Product Data Sheet</i>	SK-MOD	1994-086
SUIT8 15 Suit-Kote Corporation, 1911 Lorings Crossing Road, Cortland, NY 13045-5160 http://www.suit-kote.com/		
Facility 10965 McHenry Street Meadville, PA		
Special Asphalt Patching Material <i>Coarse aggregate modified patch. Product description, recommended uses, and specifications: SK-CAMP Product Data Sheet</i>	SK-CAMP	2007-037Q
UPMCP 15 Unique Paving Materials Corporation, 3993 East 93rd Street, Cleveland, OH 44105-4096 http://www.uniquepavingmaterials.com/		
Special Asphalt Patching Material <i>(product name formerly listed as UPM High Performance Cold Patch) UPM Permanent Pavement Repair Material Usage Guidelines</i>	UPM Permanent Pavement Repair Material	1992-058

MISC Steel Fibers For Fiber-Reinforced Concrete (ASTM A820)

Last Revised: 11/17/2016

ECMS Special Provision c10901 ITEM 3090 Steel Fiber Reinforced Concrete Wearing Surface

Product	Name	Ref. No.
BKERT 15 Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067 http://www.bekaert.com/en/		
Facility Van Buren, AR		



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MISC Steel Fibers For Fiber-Reinforced Concrete (ASTM A820)

Last Revised: 11/17/2016

ECMS Special Provision c10901 ITEM 3090 Steel Fiber Reinforced Concrete Wearing Surface

Product	Name	Ref. No.
BKERT 15 Bekaert Corporation, 1395 South Marietta Parkway, Building 500, Suite 100, Marietta, GA 30067 http://www.bekaert.com/en/ Facility Van Buren, AR	Steel Fibers for Reinforced Concrete, Type 1 Deformed <i>Not for use with Ultra High Performance Concrete.</i>	Dramix 3D 1999-018Q
MFIBR 15 Fibercon, International, 100 South Third Street, Evans City, PA 16033 http://www.fiberconfiber.com/	Steel Fibers for Reinforced Concrete, Type 2 <i>Not for use with Ultra High Performance Concrete.</i>	Fibercon Steel Fibers 1991-133

MISC Subgrade Stabilization Treatment

Last Revised: 6/22/2015

Provisional Specification: ECMS Special Provision I-c02101B

Product	Name	Ref. No.
CARML 15 Carmeuse Lime Company, Inc., Route 422 & Clear Springs Road, Annville, PA 17003 https://www.carmeuse.com/na-en Plant Route 422 & Clear Springs Road Annville, PA 17003	Subgrade Stabilization Treatment	Envirolime, Lime Pozzolan 2006-037QB
	Subgrade Stabilization Treatment	Quicklime 2006-036Q

MISC Temporary Expansion Dam Systems

Last Revised: 11/3/2021

Product	Name	Letter Date	Ref. No.
BROWD 15D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/	Alternate System (Conditionally Approved) <i>Conditionally approved as an alternate. V-300 & V-400 Product Data Sheet</i>	V-300 Temporary Expansion Dam	2011-040A
	Alternate System (Conditionally Approved) <i>Conditionally approved as an alternate. V-300 & V-400 Product Data Sheet</i>	V-400 Temporary Expansion Dam	2011-040B



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Section MISC: Miscellaneous

MISC Temporary Expansion Dam Systems

Last Revised: 11/3/2021

Product	Name	Letter Date	Ref. No.
CRAF0 15 Plant	Crafco, Inc., 6165 W. Detroit Street, Chandler, AZ 85226 http://www.crafco.com/ 121 Industrial Park Road Halls, TN 38040		
Asphaltic Plug	Matrix 501 Asphaltic Plug Bridge Joint System <i>Conditionally approved per manufacturer's specifications: Crafco Matrix 501 Product Data Sheet</i>		2013-017Q
Asphaltic Plug	Matrix 502 Asphaltic Plug Bridge Joint System <i>Conditionally approved per manufacturer's specifications: Crafco Matrix 502 Product Data Sheet</i>		1995-189Q
DSBLT 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ LymTal International, Inc. 4150 South Lapeer Road Lake Orion, MI 48359		
Two-component Urethane Sealant	Delastic-LS Pourable Bridge Seal <i>Conditionally approved. Delastic-LS Pourable Bridge Seal Product Data Sheet</i>		2011-030
DYSAP 15	Dynamic Surface Applications, Ltd., 373 Village Road, Pennsdale, PA 17756 http://dsa-ltd.com/		
Asphaltic Plug	Thorma-Joint <i>Thorma-Joint Product Datasheet with Installation and Material Preparation Guidelines (4 Component System: BJ Super Polymer Modified Asphaltic Binder, 3/4" Granite Aggregate, Steel Plate, and Backer Rod) Thorma-Joint Product Datasheet with Installation and Material Preparation Guidelines</i>	9/3/1997	----
SILSP 15 Facility	SSI, 2367 Glenda Lane, Dallas, TX 75229 http://ssicm.com/ 430 S. Rockford Tulsa, OK 74120 Formerly <i>Silicone Specialties, Inc.</i>		
Two Part Silicone	SILSPEC XJS <i>Recommended for maintenance projects with service life up to five (5) years. Provisionally Approved SSI XJS Expansion Joint System Technical Data Sheet</i>		1993-157
WATRJ 15	R. J. Watson, Inc., 11035 Walden Avenue, Alden, NY 14007 http://www.rjwatson.com/		
Preformed Silicone	Silicoflex SF 150 <i>Provisionally Approved Silicoflex Installation Steps, Material Properties, and Model Dimensions</i>		1996-015
Preformed Silicone	Silicoflex SF 225 <i>Provisionally Approved Silicoflex Installation Steps, Material Properties, and Model Dimensions</i>		1996-015
Preformed Silicone	Silicoflex SF 400 <i>Provisionally Approved Silicoflex Installation Steps, Material Properties, and Model Dimensions</i>		1996-015



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Section MISC: Miscellaneous

MISC Ultra High Performance Concrete (UHPC)

Last Revised: 12/1/2023

Per [Special Provision a10303 Ultra High Performance Concrete](#)

Product	Name	Ref. No.
SLC-1 15 Steelike, Inc., 7631 Fullerton Road, 7G, Springfield, VA 22153 https://steelike.com/		
UHPC	Steelike UHPC	2021-053Q
<i>Provisionally Approved: The provisional approval has been extended until April 1, 2024. The provisional approval will remain in effect until confirmation that the fine aggregates used in the UHPC mix have an average expansion of less than or equal to 0.04% is satisfactorily completed per ASTM C1293.</i>		

MISC Void Reducing Asphalt Membrane (VRAM)

Last Revised: 7/25/2023

Product	Name	Ref. No.
ASSAS 15 Associated Asphalt, 110 Franklin Road SE, 9th Floor, Roanoke, VA 24011 http://associatedasphalt.com/		
Terminal Associated Asphalt Martinsburg, LLC 855 Corning Way Martinsburg, WV 25405		
Void Reducing Asphalt Membrane	J-Band	2018-223RP
<i>Conditionally Approved: Under the conditional approval, the Department will monitor its use, application, and performance for a period of up to two years (8/25/2022 - 8/25/2024). Report any application or performance issues to the Evaluation & Research Unit of the New Products and Innovations Section at (717) 787-3137.</i>		
<i>This product is conditionally approved for use with Standard Special Provision for a Void Reducing Asphalt Membrane (VRAM) Underneath the Longitudinal Joint of an Asphalt Pavement and Publication 242: Pavement Policy Manual, Chapter 5, Section 5.7.</i>		

MISC Waterproofing Fabric (Asphalt)

Last Revised: 4/14/2015

Product	Name	Ref. No.
BREWR 15 Brewer Company, 30060 Lakeland Boulevard, Wickliffe, OH 44092 http://www.thebrewerco.com/		
Waterproofing Fabric (Asphalt)	9400 Cotton Fabric (Asphalt Saturated)	-----



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Section MISC: Miscellaneous Traffic

MISC Automated Red Light Enforcement Systems (ARLE)

Last Revised: 5/5/2022

Product	Name	COA	Ref. No.
AMERT 15 Verra Mobility, 1150 North Alma School Road, Mesa, AZ 85201 https://www.verramobility.com/ <i>Formerly American Traffic Solutions</i>			
Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	RLSC-3D (ARLE)	AMT-001P	----
GATSO 15 Gatso USA, Inc., 900 Cummings Center, Suite 321U, Beverly, MA 01915 http://www.gatso-usa.com/			
Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	T-Series (ARLE)	GAT-001P	----
REDTS 15 Redflex Traffic Systems, Inc., 23751 North 23rd Avenue, Phoenix, AZ 85085 http://www.redflex.com/index.php/en/			
Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	RFR2012 (ARLE)	RTS-001P	----
XERSL 15 Conduent State and Local Solutions, Inc., 100 Campus Drive, Suite 200, Florham Park, NJ 07932-1020 https://transportation.conduent.com/photo-enforcement-solutions/ <i>Formerly Xerox State and Local Solutions, Inc.</i>			
Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	DriveSafe, Gen 2 (ARLE)	XSL-001P	----
Automated Red Light Enforcement System (ARLE) <i>Provisionally Approved</i>	DriveSafe, Gen 3 (ARLE)		2022-070Q

MISC In Road Warning Lights

Last Revised: 11/5/2021

Department approval is required before purchase of in-roadway warning lights. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

Product	Name	COA	COA Date	Ref. No.
ASTUL 15 Astucia (UK), Ltd., 42 Eldon Way, Tonbridge, Kent https://www.astucia.co.uk/				
In Road Warning Light	IRS-XW-2001	AST-001E	8/29/2002	----



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Section MISC: Miscellaneous Traffic

MISC In Road Warning Lights

Last Revised: 11/5/2021

Department approval is required before purchase of in-roadway warning lights. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

Product	Name	COA	COA Date	Ref. No.
LIGSY 15 LightGuard Systems, Inc., 2292 Airport Boulevard, Santa Rosa, CA 95403-1003 http://www.lightguardsystems.com/				
In Road Warning Light	Type 6B (SP) - LED (Endurolight)	1544-X001	4/11/2001	----
SWAR2 15 Swarco Futurit America, 900 North Denton, Mexia, TX 76667 https://www.swarco.com/northamerica				
In Road Warning Light	MLK 150	SFA-001E	10/15/2003	----
TRASC 15 Traffic Safety Corporation, 2708 47th Avenue, Sacramento, CA 95822 http://www.xwalk.com/				
In Road Warning Light	TS-500	TSC-002E	5/1/2003	----
In Road Warning Light	TS-600YYL4	TSC-003E	9/26/2012	----

MISC Pavement Marking Systems, Integrated Multi-Polymer

Last Revised: 12/6/2023

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Marking	Illuminatio	Marking Surface	Primer	Beads	Application Uses	Ref. No.
ENN-1 15 Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/									
Plant	1509 South Kaufman Street	Ennis, TX 75120	<i>Acquired by PPG in December 2020.</i>						
Integrated Multi-Polymer Pavement Marking	HPS-8 White		White	Lighted and Unlighted Roadways	Asphalt and Concrete		AASHTO M247, Type 4 beads flooded and AASHTO M247, Type 1 beads flooded	Long lines and other uses on asphalt and concrete	2017-24 0Q



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Integrated Multi-Polymer

Last Revised: 12/6/2023

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Marking	Illuminatio	Marking Surface	Primer	Beads	Application Uses	Ref. No.
ENN-1 15 Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ Plant 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>									
	Integrated Multi-Polymer Pavement Marking		HPS-8 Yellow	Yellow	Lighted and Unlighted Roadways	Asphalt and Concrete		AASHTO M247, Type 4 beads at 10 lbs/gallon and Type 1 beads at 6 lbs/gallon	Other uses on asphalt and concrete, but not for long lines 2017-21 7Q

MISC Pavement Marking Systems, Methyl Methacrylate

Last Revised: 12/6/2023

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking	Illuminati on	Marking Surface	Primer	Beads	Othe r	Ref. No.
ENN-7 15 Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ Plant 1675 Commercial Street, NE Salem, OR									
	Methyl Methacrylate Pavement Marking		MMAX EF Bike Lane Green with Corundum (999660G-KIT)	Green	Lighted and Unlighted Roadways	Asphalt and Concrete		Bike Lane s Only	2019-219Q
<i>Approval is for bike lanes only.</i>									

MISC Pavement Marking Systems, Modified Polyacrylate

Last Revised: 7/14/2016



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Modified Polyacrylate

Last Revised: 7/14/2016

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking	Illuminati on	Marking Surface	Primer	Beads	Othe r	Ref. No.
SWAR3 15 Colorado Paint Company, the SWARCO Group, 4747 Holly Street, Denver, CO 80216 https://www.swarco.com/cpc									
Modified Polyacrylate Pavement Marking	MFUA-10	MPPM-I	White		Asphalt and Concrete	No	12/12 (See note)	No	2014-065M
<i>This material can only be installed with the glass bead type and quantity indicated on the Certificate of Approval (12 lbs/gal each of AASHTO M247, type 1 and 12 lbs/gal each of AASHTO M247, type 4, for a total of 24 lbs/gal of Modified Polyacrylate. NTPEP Test # PMM-2011-01-083</i>									
Modified Polyacrylate Pavement Marking	MFUA-10	MPPM-I	Yellow		Asphalt and Concrete	No	12/12 (See note)	No	2014-066M
<i>This material can only be installed with the glass bead type and quantity indicated on the Certificate of Approval (12 lbs/gal each of AASHTO M247, type 1 and 12 lbs/gal each of AASHTO M247, type 4, for a total of 24 lbs/gal of Modified Polyacrylate. NTPEP Test # PMM-2011-01-084</i>									

MISC Pavement Marking Systems, Polyester

Last Revised: 4/20/2023

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking	Illuminati on	Marking Surface	Primer	Beads	Othe r	Ref. No.
AEXCE 15 Aexcel Coatings, 7373 Production Drive, Mentor, OH 44061-0780 http://www.aexcelcoatings.com/index.html									
Polyester Pavement Marking	75W-DO12	PPM-01	White	Lighted and Unlighted Roadways	Asphalt	No	M247	No	-----

MISC Pavement Marking Systems, Polyurea

Last Revised: 6/23/2015

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Polyurea

Last Revised: 6/23/2015

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking	Color	Illumination	Marking Surface	Primer	Beads	Other	Ref. No.
ENN-1 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 1509 South Kaufman Street Ennis, TX 75120 <i>Acquired by PPG in December 2020.</i>									
Polyurea Pavement Marking	HPS-5	PUPM-(	White		Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
Polyurea Pavement Marking	HPS-5	PUPM-(	Yellow		Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
ENN-3 15 Plant	Ennis-Flint, PPG Traffic Solutions, 4161 Piedmont Parkway, Suite 370, Greensboro, NC 27410 http://www.ennisflintamericas.com/ 4400 Vawter Avenue Richmond, VA 23222 <i>Acquired by PPG in December 2020.</i>									
Polyurea Pavement Marking	HPS-5	PUPM-(	White		Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
Polyurea Pavement Marking	HPS-5	PUPM-(	Yellow		Lighted and Unlighted Roadways	Asphalt and Concrete		M247	Yes	----
EPOPX 15	Epoplex, 1000 East Park Avenue, Maple Shade, NJ 08052 http://www.epoplex.com/									
Polyurea Pavement Marking	LS90	PM-05-(	White			Asphalt and Concrete		See COA	No	----
Polyurea Pavement Marking	LS90	PM-05-(	Yellow			Asphalt and Concrete		See COA	No	----

MISC Pavement Marking Systems, Preformed Wet Reflective Striping Tape

Last Revised: 3/17/2017



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Preformed Wet Reflective Striping Tape

Last Revised: 3/17/2017

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking	Color	Illumination	Marking Surface	Primer	Beads	Other Uses?	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000									
	http://www.3m.com/3M/en_US/company-us/									
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000									
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 380AW	WRST-(	White		Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		Yes	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval. Provisionally Approved</i>										
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 380IES	WRST-(	White		Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		Yes	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval.</i>										
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 380WR	WRST-(	White		Lighted and Unlighted Roadways	Asphalt and Concrete	P-50		Yes	----
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 381AW	WRST-(	Yellow		Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		Yes	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval. Provisionally Approved</i>										



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Section MISC: Miscellaneous Traffic

MISC Pavement Marking Systems, Preformed Wet Reflective Striping Tape

Last Revised: 3/17/2017

Lines: Center, Lane and Edge Lines

Other Uses: Crosshatching, Crosswalks, Legends and Stop Lines

Product	Name	COA	Pavement Marking	Color	Illumination	Marking Surface	Primer	Beads	Other Uses?	Ref. No.
3M-03 15	3M Company, Traffic Control Devices Department, 3M Center, Building 582-1-15, St. Paul, MN 55144-1000 http://www.3m.com/3M/en_US/company-us/									
Plant	Traffic Control Devices Department 3M Center, Building 582-1-15 St. Paul, MN 55144-1000									
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 381IES	WRST-(	Yellow		Lighted and Unlighted Roadways	Asphalt and Concrete	Yes		No	----
<i>Apply primer per manufacturer recommendation. Refer to Certificate of Approval.</i>										
Preformed Wet Reflective Striping Tape Pavement Marking	Stamark™ Series 381WR	WRST-(	Yellow		Lighted and Unlighted Roadways	Asphalt and Concrete	P-50		No	----

MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2

Last Revised: 11/12/2020

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

For contracts let on or after October 8, 2021 (Pub 408/2020, Change No. 3 or later), see Section 1103.03(o) Rectangular Rapid Flashing Beacon Assembly.

Product	Name	COA	COA Date	Ref. No.
CARMH 15 Facility	Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 https://carmanah.com/ Star Precision Houston, TX Formerly Spot Devices, Inc. (SPODE 15)			
Rectangular Rapid Flashing Beacon (RRFB) Systems	R920 Series	CTC-004X	8/2/2013	----



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Section MISC: Miscellaneous Traffic

MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2

Last Revised: 11/12/2020

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

For contracts let on or after October 8, 2021 (Pub 408/2020, Change No. 3 or later), see Section 1103.03(o) Rectangular Rapid Flashing Beacon Assembly.

Product	Name	COA	COA Date	Ref. No.
CARMH 15 Carmanah Technologies Corporation, 250 Bay Street, Victoria, BC V9A 3K5 https://carmanah.com/				
Facility Star Precision Houston, TX				
Formerly Spot Devices, Inc. (SPODE 15)				
Rectangular Rapid Flashing Beacon (RRFB) Systems	R920-E	CTC-008P	7/10/2020	2019-177Q
Rectangular Rapid Flashing Beacon (RRFB) Systems	RRFB	CTC-005X	7/25/2013	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	SB435HP	CTC-006X	7/25/2013	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	SC315-G	CTC-009P	7/10/2020	2019-178Q
ELECT 15 Electrotechnics Corporation, 1310 Commerce Street, Marshall, TX 75672 http://www.elteccorp.com/				
Rectangular Rapid Flashing Beacon (RRFB) Systems	AC890371-X	ETC-001X	5/14/2010	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	AC890372	ETC-002X	5/14/2010	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	S891070-X	ETC-003X	5/14/2010	----
Rectangular Rapid Flashing Beacon (RRFB) Systems	S891071	ETC-004X	5/14/2010	----
ITEM1 15 LaneLight Traffic Technologies, Inc., 16-17 755 Vanalman Avenue, Victoria, BC V8Z 3B8 https://lanelight.com/contact/				
Rectangular Rapid Flashing Beacon (RRFB) Systems	LaneLight RRFB	ITM-001P	11/3/2020	2020-170Q



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Section MISC: Miscellaneous Traffic

MISC Rectangular Rapid Flashing Beacon (RRFB) Systems 2

Last Revised: 11/12/2020

Department approval is required before purchasing Rectangular Rapid Flashing Beacons. Contact the Bureau of Maintenance and Operations for approval requirements at (717) 787-9787.

For contracts let on or after October 8, 2021 (Pub 408/2020, Change No. 3 or later), see Section 1103.03(o) Rectangular Rapid Flashing Beacon Assembly.

Product	Name	COA	COA Date	Ref. No.
RDJSE 15 R.D. Jones, Stop Experts, Inc., 723 Commerce Drive, Venice, FL 34962 http://stopexperts.com/				
Rectangular Rapid Flashing Beacon (RRFB) Systems	Enhancer	RDO-001X	11/19/2015	-
RTC-M 15 RTC Manufacturing Inc., 1016 Enterprise Plc, Arlington, TX 76001 http://www.rtc-traffic.com/				
Rectangular Rapid Flashing Beacon (RRFB) Systems	RFB-2	RTC-007X	9/30/2013	-----
TAPCO 15 TAPCO - Traffic & Parking Control Company, Inc., 5100 West Brown Deer Road, Brown Deer, WI 53223 http://www.tapconet.com/				
Rectangular Rapid Flashing Beacon (RRFB) Systems	RRFB-XL	TCO-001X	4/29/2014	2014-010
Rectangular Rapid Flashing Beacon (RRFB) Systems	TOP RRFB-XL2	TCO-004X	1/27/2020	2018-272Q
TRAFF 15 TrafficCalm Systems, 5676 East Seltice Way, Post Falls, ID 83854 http://trafficalm.com/				
Rectangular Rapid Flashing Beacon (RRFB) Systems	PUSH-2-CROSS	TAC-002P	7/7/2020	2019-251Q

MISC Traffic Operations, Auxiliary

Last Revised: 7/21/2020

Product	Name	COA	COA Date	Ref. No.
CCABH 15 Cambria Company Association for the Blind and Handicapped, 175 Industrial Park Road, RD 3 Box 164, Ebensburg, PA 15931-1813 http://www.cabproducts.com/				
Auxilliary Traffic Operations Item	CAB Cable Rings and Saddles	1520-0000	10/22/1999	-----



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Section MISC: Miscellaneous Traffic

MISC Traffic Operations, Auxiliary

Last Revised: 7/21/2020

Product	Name	COA	COA Date	Ref. No.
IBITK 15 Penn Global Signs & Graphics, LLC, 496 Pittsburgh Road, Butler, PA 16002 <i>Formerly Ibis Signs, LLC</i>				
Auxilliary Traffic Operations Item	Traffic Signal Police Control, Wireless	IBS-001P	1/11/2013	----
LINCO 15 Nortek Security & Control, LLC (Linear), 5919 Sea Otter Place, Carlsbad, CA 92010 https://www.linearproaccess.com/radio-controls/xtended-range-wireless-radio-controls/ <i>Formerly Linear Corporation</i>				
Auxilliary Traffic Operations Item	Mid Range Receiver XR-1	LIN-001P	7/10/1997	----
Auxilliary Traffic Operations Item	Mid Range Transmitter XT-1	LIN-002P	7/10/1997	----
NAZTC 15 Trafficware, Inc., a Cubic Company, 522 Gillingham Lane, Sugar Land, TX 77478 http://www.trafficware.com/ <i>(Merger with Naztec, Inc.)</i>				
Auxilliary Traffic Operations Item	Cabinet Interface Panel, 150 LX Interface	TFW-005P (NAZ-013P)	4/13/2016	----

MISC Yield to Pedestrian (YTP) Channelizing Devices

Last Revised: 2/19/2020

Product	Name	COA	Yield Type	Size (in.)	Yield Mount	Ref. No.
CONSF 15 Continental Safety Supply Company, Inc., 790 Bloomfield Avenue, Clifton, NJ 07012						
Yield To Pedestrian (YTP) Channelizing Device	Soft Sandwich		Cone with Sign	18" x 36"	Surface (unfastened)	1998-011
DICKE 15 Dicke Tool Company, 1201 Warren Avenue, Downers Grove, IL 60515 http://dicketool.com/						
Yield To Pedestrian (YTP) Channelizing Device	SBL1236-Y	PED-07	Vertical Panel	12" x 36" (one-sided)	Surface (unfastened)	----
Yield To Pedestrian (YTP) Channelizing Device	SBL1236D-Y	PED-07	Vertical Panel	12" x 36" (two-sided)	Surface (unfastened)	----



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Section MISC: Miscellaneous Traffic

MISC Yield to Pedestrian (YTP) Channelizing Devices

Last Revised: 2/19/2020

Product	Name	COA	Yield Type	Size (in.)	Yield Mount	Ref. No.
EASTM 15	Eastern Metal of Elmira, 1430 Sullivan Street, Elmira, NY 14901		https://easternmetalsignsandsafety.com/			
Yield To Pedestrian (YTP) Channelizing Device	Big Foot		Vertical Panel	12" x 36"	Surface (unfastened)	2000-161Q
GARDS 15	National Highway Products, Inc., 301 Riverside Drive, Millville, NJ 08332		https://nationalhighway.com/			
<i>Formerly Garden State Highway Products, Inc.</i>						
Yield To Pedestrian (YTP) Channelizing Device	Ped Barricade		Vertical Panel	12" x 36"	Surface (unfastened)	2002-042Q
IMPRS 15	Impact Recovery Systems, Inc., 4955 Stout Drive, San Antonio, TX 78219		http://www.impactrecovery.com/			
Yield To Pedestrian (YTP) Channelizing Device	254-R-1-6 Crossing Sign	PED-3	Vertical Panel	12" x 42"	Surface (unfastened)	2000-323Q
PEXCO 15	PEXCO, Davidson Traffic Control Products, 6470 East Johns Crossing, Suite 430, Johns Creek, GA 30079		http://www.pexco.com/traffic			
Plant	3110 70th Avenue East Tacoma, WA 98424					
Yield To Pedestrian (YTP) Channelizing Device	8FG342FLGEFX613	PED-08	Vertical Panel	12" x 42"	Surface (unfastened)	-----
PROTE 15	Protection Services, Inc., 1000 E Ashland Avenue, Folcroft, PA 19032					
Yield To Pedestrian (YTP) Channelizing Device	Big Foot		Vertical Panel	12" x 36"	Surface (unfastened)	2000-161Q
SAFHC 15	Valtir, LLC, 15601 Dallas Parkway, Addison, TX 75001		https://www.valtir.com/			
Plant	70 West Madison Street Suite 2350 Chicago, IL 60602					
<i>Formerly Safe-Hit Corporation</i>						
Yield To Pedestrian (YTP) Channelizing Device	RT 360 VP	PED-4	Vertical Panel	12" x 43"	Surface (unfastened)	-----
THDTW 15	Three D Traffic Works, Inc., 430 North Varney Street, Burbank, CA 91502		http://www.trafficwks.com/			
Yield To Pedestrian (YTP) Channelizing Device	TD5275	PED-9	Vertical Panel	12" x 36"	Surface (unfastened)	-----



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section MISC: Miscellaneous Traffic

MISC Yield to Pedestrian (YTP) Channelizing Devices

Last Revised: 2/19/2020

Product	Name	COA	Yield Type	Size (in.)	Yield Mount	Ref. No.
UNISO 15	UniqueSource, 500 Bent Creek Boulevard, Mechanicsburg, PA 17050-1876 https://www.uniquesource.com/ <i>Formerly PIBH- 15</i>					
	Yield To Pedestrian (YTP) Channelizing Device <i>NCHRP-350 Test Level: TL-2</i>	R1-6 Pedestrian Sign	PED-10	Vertical Panel	12" x 42"	Surface (unfastened)



BULLETIN 15 (Publication 35) Qualified Products List for Construction

Posted:
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Section MISC: Winter Road Maintenance

MISC Snow and Ice Control Chemical Products

Last Revised: 11/5/2021

The exact product names listed have been accepted for listing in PA Bulletin 15 based upon the specific approval and listing on the Clear Roads Qualified Products List [formerly maintained by the Pacific Northwest SnowFighters (PNS)]. All specific compositional, usage approvals & restrictions, and other noted criteria listed on the Clear Roads Qualified Product List will also apply to this product's use in Pennsylvania. If this product is removed from the Clear Roads QPL, or fails to meet the minimum standards required for listing on the Clear Roads QPL, it may be removed from the PA Bulletin 15. Refer to the manufacturer's website for product data sheet. Refer to the Clear Roads website for approval information and resources including the Clear Roads QPL: [Clear Roads Qualified Products List](#)

Product	Name	COA	Ref. No.
CARGO 15 Cargill, Inc., 24950 Country Club Blvd., Suite 450, North Olmsted, OH 44070 http://www.cargill.com/			
Salt Mine Salt Mines: Avery Island, LA; Cleveland, OH; Lansing, NY			
Category 4C - Corrosion Inhibited Solid Sodium Chloride - Standard Gradation (Corrosion Percent Effectiveness 31% to 85%) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Liquid pre-wetting facility located in Newark, CA. Manufacturer's specifications for ClearLane enhanced deicer</i>	Clear Lane Enhanced Deicer		2018-107
ETECH 15 EnviroTech Services, Inc., 4676 284th Street East, Randolph, MN 55065-0000			
INHIBITORS: Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved for addition to concentrated sodium chloride (salt) brine.</i>	AMP		2016-075
ISS-1 15 Innovative Municipal Products US Inc. (dba Innovative Surface Solutions), 454 River Road, Glenmont, NY 12077 http://www.innovativecompany.com			
Category 1 - Corrosion Inhibited Liquid Magnesium Chloride <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Manufacturer's specifications for ProMelt Ultra 1000</i>	ProMelt Ultra 1000 INH		2018-109Q
Experimental Category for Liquid Products (Category L) <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved as a pre-wet material to solid salt. Not for direct application. Manufacturer's specifications for ProMelt Ultra 2000</i>	ProMelt Ultra 2000 INH		2018-108Q
INHIBITORS: Category A4 - Additive for Liquid Deicing Products and Pre-Wet Materials <i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved as a pre-wet material to solid salt. Not for direct application.</i>	Magic Minus Zero (MAGIC-0) Concentrate		2014-007



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Product	Name	COA	Ref. No.
KTECH 15 K-Tech Specialty Coatings, Inc., P.O. Box 428, Ashley, IN 46705-0000			
INHIBITORS: Category A4 - Additive for Liquid Deicing Products and Pre-Wet Materials	Beet Heet Concentrate		2013-117
<i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved as a pre-wet material to solid salt. Not for direct applications as a liquid deicer.</i>			
NATOS 15 NATURES OWN SOURCE LLC, 7033 Mill Road, Becksville, OH 44141-0000			
Category 14 - Liquid Salt Blends	AquaSalina+		2014-043
<i>Conditionally approved per manufacturer's specifications for winter road maintenance.</i>			
SNIS1 15 SNI SOLUTIONS, 205 North Stewart Street, Geneseo, IL 61254-0000			
INHIBITORS: Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl)	Biomelt AG		2016-024
<i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved for addition to concentrated sodium chloride (salt) brine.</i>			
INHIBITORS: Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl)	Geomelt 55		2011-042
<i>Conditionally approved per manufacturer's specifications for winter road maintenance. Material approved for addition to concentrated sodium chloride (salt) brine.</i>			



BULLETIN 15 (Publication 35) Qualified Products List for Construction

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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 11/29/2022

In accordance with Section 1105, the listed companies have been preapproved to fabricate items for PennDOT. Company approval to fabricate Penn DOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

ABR: Certified Bridge Fabricator - Advanced (Major) | CPT: Certified Component Manufacturer - Bridge | FCE: Fracture Critical Endorsement

IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | (<https://www.aisc.org/certification/>)

Product	Name	AISC Category	Ref. No.
ACKBAY15	Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/ Certified Structural Steel Fabricator	SBR	2018-282Q
ACROW 15	Acrow Corporation of America, 6 Canal Street, Milton, PA 17847 http://acrow.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	Major Steel Bridges (CBR)	2014-168
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/ Certified Structural Steel Fabricator <i>Approved to perform heat-cambering and heat curving of rolled beams.</i>	ABR, FCE	2015-021Q
AMTHR 15	Amthor Steel, 1717 Gaskell Ave., Erie, PA 16503 Certified Structural Steel Fabricator	SBR	2013-121
ANDBR 15	Anderson Bridges, LLC, 111 Willow Street, Colfax, WI 54730 http://www.andersonbridges.com/ Certified Structural Steel Fabricator <i>Approved to fabricate pedestrian bridge only.</i>	Simple Steel Bridges (SBR)	2013-192
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/ Certified Structural Steel Fabricator	SBR	----
ATFAB 15	American Tank & Fabricating Co. (AT&F), 12314 Elmwood Avenue, Cleveland, OH 44111 http://www.atfco.com Certified Structural Steel Fabricator	SBR	2015-152Q
AUCEL 15	Auciello Iron Works, Inc., 560 Main St., Hudson, MA 01749 http://aucielloironworks.com/ Certified Structural Steel Fabricator	SBR	----



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Product	Name	AISC Category	Ref. No.
BBI-1 15	Bridge Brothers Inc, 255 Pumpkintown Highway, Pickens, SC 29671 https://bridgebrothers.com/ Certified Structural Steel Fabricator	IBR	2020-064Q
BIGRB 15 Plant	Contech Engineered Solutions, A QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 https://www.conteches.com/ 25581 Hillman Highway Abingdon, VA 24210 <i>Formerly Big R Bridge</i> Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
BRFAB 15	Brookfield Fabricating Corporation, P. O. Box 406, Brookfield, MO 64628 http://www.brookfieldfabricating.com/ Certified Structural Steel Fabricator	SBR	----
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ Certified Structural Steel Fabricator <i>Approved to fabricate modular bridge expansion dams.</i>	Simple Steel Bridges (SBR)	----
CANAM 15	Canam Steel Corporation, 4010 Clay Street, P.O. Box 285, Point of Rocks, MD 21777 http://www.canam-construction.com/en/ Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2013-223
CAPST 15	Capital Steel Service, LLC, 82 Stokes Avenue, Trenton, NJ 08638 http://www.capitalsteel.org/ Certified Structural Steel Fabricator	SBR	2010-087



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Product	Name	AISC Category	Ref. No.
CBSSI 15	Casco Bay Steel Structures, Inc., One Wallace Avenue, South Portland, ME 04106 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2016-131Q
	<i>Casco Bay Steel Structures, Inc. has Fracture Critical Endorsement (CBR/F) for the following three facilities: 1st Facility: One Wallace Avenue, South Portland, ME 04106 2nd Facility: 1156 Broadway, South Portland, ME 04106 3rd Facility: 75 Spring Hill Road, Saco, ME 04072</i>		
CIAFC 15	Cianbro Fabrication & Coating Corporation, 605 Pittman Road, Baltimore, MD 21226 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2010-214
CIANB 15	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx <i>Formerly Foster Precise Structural Products (FOSPR).</i> Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2007-202
CON13 15 Plant	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Fort Payne, AL Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2017-113



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Product	Name	AISC Category	Ref. No.
CORNL 15	Cornell & Company, Inc., P. O. Box 807, Woodbury, NJ 08096 http://www.cornellcraneandsteel.com/ Certified Structural Steel Fabricator	IBR, FCE	----
DURAB 15	Dura-Bond Steel Corporation, 2658 Puckety Drive, Export, PA 15632 http://www.dura-bond.com/ Certified Structural Steel Fabricator <i>Approved to perform heat-cambering and heat curving of rolled beams.</i>	SBR	----
DURBD 15	Dura-Bond Pipe, LLC, 2716 South Front Street, Steelton, PA 17113 http://www.dura-bond.com/ Certified Structural Steel Fabricator	SBR	2014-178
EAGMC 15	Eagle Manufacturing Company, Inc., 13 Homonick Road, Colchester, CT 06415 http://eagle-mfg.com/Default.aspx Certified Structural Steel Fabricator	SBR	2014-120
ELDER 15	Elderlee, Inc., 729 Cross Road, Oaks Corners, NY 14518 http://www.elderlee.com/ Certified Structural Steel Fabricator	SBR	2009-027
FABCR 15	Fabcor, Inc., 1205 Mid Valley Drive, Jessup, PA 18434 http://www.fabcorinc.com/ Certified Structural Steel Fabricator	SBR	----
FGRAT 15 Facility	Frontier Gratings, 201 63rd Street NE, Fort Payne, AL 35967 http://frontiergratings.com/ 201 63rd Street NE Fort Payne, AL 35967 Certified Structural Steel Fabricator	SBR	2010-215Q
FOST2 15	L.B. Foster Company, 202 Weber Lane, Bedford, PA 15522 http://www.lbfoster.com/ Certified Structural Steel Fabricator	SBR	----
GOODS 15	Goodhart Sons, Inc., 2515 Horeshoe Road, P. O. Box 10308, Lancaster, PA 17605-0308 http://www.goodhartsons.com/ Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2004-118



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Product	Name	AISC Category	Ref. No.
GRENR 15	Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2008-047
HABSI 15	Haberle Steel, Inc., 1946 East Cherry Lane, Souderton, PA 18964 http://haberlesteel.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2011-097
HALL1 15	Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/ Certified Structural Steel Fabricator	SBR	----
HALL2 15	Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/ Certified Structural Steel Fabricator <i>Not approved to perform welding.</i>	SBR	----
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/ Certified Structural Steel Fabricator	SBR	2017-029Q
HASSC 15	Harris Structural Steel Company, Inc., 1640 New Market Ave., South Plainfield, NJ 07080 http://www.harrissteelco.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----



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Product	Name	AISC Category	Ref. No.
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 <i>Formerly Brownsville Marine Products</i> Certified Structural Steel Fabricator <i>(Original product evaluation - 2015-137Q)</i>	https://www.hl-fabrication.com/ IBR, FCE	2018-220Q
HIGH1 15	High Steel Structures, Inc., 1915 Old Philadelphia Pike,, P.O. Box 10008, Lancaster, PA 17605-0008 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	http://www.highsteel.com/ Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIGH2 15	High Steel Structures, Inc., 3501 W 4th Street, Williamsport, PA 17701 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	http://www.highsteel.com/ Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIR01 15	W&W | AFCO STEEL Hirschfeld Division, 9035 West Market Street, Colfax, NC 27235 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	http://hirschfeld.wwafcosteel.com/ Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
HIR02 15	W&W AFCO STEEL Hirschfeld Division, Nash County Plant,, 241 Corbett Road, Nashville, NC 27856 Certified Structural Steel Fabricator	http://hirschfeld.wwafcosteel.com/ Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----



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Product	Name	AISC Category	Ref. No.
HIR03 15	W&W AFCO STEEL Hirschfeld Division, Abingdon Plant, 15083 Industrial Park Road, Bristol, VA 24201 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	-----
INDS1 15	Industrial Steel Construction, Inc., 86 North Bridge Street, Gary, IN 46404 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	-----
INDS2 15	Industrial Steel Construction, Inc., 6120 River Road, Hodgkins, IL 60525 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2008-094
JGM-1 15	JGM, 1201 Valley Road, Coatesville, PA 19320 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2017-128
KARDW 15	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865 Certified Structural Steel Fabricator	Major Steel Bridges (CBR)	2010-227



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Product	Name	AISC Category	Ref. No.
KIN-1 15	Kinsley Steel, Inc., 1100 East Princess Street, York, PA 17403 https://kinsleysteel.com/ <i>Formerly Kinsley Manufacturing</i> Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	Major Steel Bridges (CBR)	-----
KIN-2 15	Kinsley Steel, Inc., 3900 E. Market Street, York, PA 17402 https://kinsleysteel.com/ <i>Formerly Kinsley Manufacturing</i> Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	Major Steel Bridges (CBR)	-----
L&MF2 15 Facility	L&M Fabrication and Machine, Inc., 6814 Chrisphalt Drive, Bath, PA 18014 http://www.lmfab.com/ 7230 Beth-Bath Pike Bath, PA 18014 Certified Structural Steel Fabricator	IBR, FCE	2017-347Q
L&MFM 15 Facility	L&M Fabrication & Machine, Inc., 6814 Chrisphalt Drive, P. O. Box 124, Bath, PA 18014 http://www.lmfab.com/ 6814 Chrisphalt Dr. Bath, PA 18014 Certified Structural Steel Fabricator	IBR, FCE	2006-001
LEHUA 15	Lehigh Utility Associates, Inc., 1300 New Market Ave., South Plainfield, NJ 07080 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	-----
LEVAN 15	Levan Associates, Inc., 4870 Raymond Court, Emmaus, PA 18049 http://levanfab.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	SBR	2010-310
LITEL 15	Littell Steel Company, 100 Fallston Street, New Brighton, PA 15066 https://www.littellsteel.com/ Certified Structural Steel Fabricator	IBR, FCE	-----



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Product	Name	AISC Category	Ref. No.
LMCIC 15	LMC Industrial Contractors, Inc., 9431 Foster Wheeler Road, Dansville, NY 14437 https://www.lmcic.com Certified Structural Steel Fabricator	IBR, FCE	2018-192Q
MACIND15	Maccabee Industrial, Inc., 113 Water Street, Belle Vernon, PA 15012 http://www.maccabeeindustrial.com/ Certified Structural Steel Fabricator	SBR	2015-180Q
MCIWK 15	MC Ironworks, Inc., P.O. Box 20431, Lehigh Valley, PA 18002-0431 http://www.mcironworks.com/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2006-023
MCMAN 15	J. A. McMahon, Inc., 649 Grant Street, Niles, OH 44446 http://www.jamcmahon.com/home.htm Certified Structural Steel Fabricator	SBR	----
MCS-1 15 Facility	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221 https://www.missioncriticalsolutions.com/ 271 Industrial Lane Alum Bank, PA 15221 Certified Structural Steel Fabricator	SBR	2019-131Q
MICSE 15	Michelman Steel Enterprises, 3135 Schonersville Road, Bethlehem, PA 18017 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2012-239
MISUF 15	Missouri Fabricators, 3226 County Road 257, Fulton, MO 65251-3101 http://www.occimofab.com/ Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2000-191
OAKIW 15	Oakdale Iron Works, Inc., 1 Oakdale Industrial Park Dr., P.O. Box 240, Oakdale, PA 15071 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2002-082



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Product	Name	AISC Category	Ref. No.
OHSTR 15 Plant	Ohio Structures, Inc., 4030 Boardman Canfield Road, Suite 200 D, Canfield, OH 44406 6120 Pricetown Road Berlin Center, OH 44401 Certified Structural Steel Fabricator	https://www.ohiostructures.com/ IBR, FCE	2018-043Q
PELET 15	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 Certified Structural Steel Fabricator	http://peletwelding.com/ ABR, FCE	2001-094
PENNF 15	PennFab, Inc., 1431 Ford Rd., Bensalem, PA 19020 2nd Facility: 20 Steel Rd., Morrisville, PA 19067 Certified Structural Steel Fabricator	http://www.pennfab.com/ SBR	2015-154Q
PIOBR 15	Pioneer Bridges, Division of Bailey Bridges, Inc., 119 40th. Street N.E., Fort Payne, AL 35967 Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	http://pioneerbridges.com/ IBR	2010-215
PMWI1 15	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 Certified Structural Steel Fabricator	https://www.pmwi.net/ IBR, FCE	2018-218Q
PSFAB 15	Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2016-281
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 Certified Structural Steel Fabricator <i>Approved to perform heat cambering and heat curving of rolled beams.</i>	http://www.qualitybridgeandfab.com/ SBR	2012-248
RCCFI 15	RCC Fabricators, Inc., 2035 Route 206 South, Southampton, NJ 18434 Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2015-078Q



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 11/29/2022

In accordance with Section 1105, the listed companies have been preapproved to fabricate items for PennDOT. Company approval to fabricate Penn DOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

ABR: Certified Bridge Fabricator - Advanced (Major) | CPT: Certified Component Manufacturer - Bridge | FCE: Fracture Critical Endorsement

IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | (<https://www.aisc.org/certification/>)

Product	Name	AISC Category	Ref. No.
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/ Certified Structural Steel Fabricator <i>Approved to Perform Heat-Cambering and Heat Curving of Rolled Beams. Not approved to perform submerged arc welding. (Initial Approval Ref. No. 2011-045Q)</i>	SBR	2015-130Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/ Certified Structural Steel Fabricator <i>Approved to perform heat cambering and heat curving of rolled beams.</i>	IBR	2015-031Q
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 http://www.safetyguardsteel.com/ 220 Lincoln Avenue Pittsburgh, PA 15209 Certified Structural Steel Fabricator <i>Approved to perform heat cambering and heat curving of rolled beams.</i>	SBR	2013-074
SCOUG 15	Scougal Rubber Corporation, 885 Denmark Dr. Ste. 103b, McCarran, NV 89434 http://www.scougalrubber.com/ Certified Structural Steel Fabricator	SBR	2016-125
SEISM 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ 518 Progress Way Athens, TX 75751 (Formerly Seismic Energy Products, Inc.) Certified Structural Steel Fabricator	SBR	2010-197
SELMC 15 Facility	Selco Manufacturing Corp., 3 Fairfield Crescent, West Caldwell, NJ 07006 3 Fairfield Crescent West Caldwell, NJ 07006 Certified Structural Steel Fabricator	SBR	2017-139



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 11/29/2022

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ABR: Certified Bridge Fabricator - Advanced (Major) | CPT: Certified Component Manufacturer - Bridge | FCE: Fracture Critical Endorsement

IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | (<https://www.aisc.org/certification/>)

Product	Name	AISC Category	Ref. No.
SEMMW 15	Seibel Modern Manufacturing & Welding Corporation, 38 Palmer Place, Lancaster, NY 14086 http://www.seibelmodern.com/		
	Certified Structural Steel Fabricator	SBR	2000-155
SHANE 15	Shane Felter Industries, P. O. Box 2022, Rt. 51, Uniontown, PA 15401 http://www.shanefelterindustries.com/		
	Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	-----
SPECF 15	Specialty Fab, Inc., 11950 South Avenue, North Lima, OH 44452 http://www.specialtyfab.com/		
	Certified Structural Steel Fabricator	Simple Steel Bridges (SBR)	2005-003
STRBR 15	Canam Bridges US, Inc., a Canam Group Business, 386 River Road, Claremont, NH 03743 https://www.canambridges.com/ Formerly Structal Bridges, Div. of Canam Steel Corporation		
	Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2014-202
	<i>Approved to fabricate high performance steel.</i>		
STRUS 15	Structures, USA, 333 Peterson Drive, P. O. Box 2281, Elizabethtown, KY 42701		
	Certified Structural Steel Fabricator	SBR	2014-110
STSSI 15	STS Steel, Inc., 301 Nott Street, Building 304, Schenectady, NY 12305 http://stssteel.com/		
	Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2010-161QB



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

Last Revised: 11/29/2022

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IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | (<https://www.aisc.org/certification/>)

Product	Name	AISC Category	Ref. No.
STUPP 15	Stupp Bridge Company, 445 Century Street, Bowling Green, KY 42101 http://www.stuppbridge.com/ Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	2000-050
TSEC1 15	Tampa Steel Erecting Company, 5127 Bloomingdale Avenue, Tampa, FL 33619 https://tampasteelereciting.com/ Certified Structural Steel Fabricator	ABR, FCE	2021-206Q
UMIC1 15	Union Metal Industries Corporation, 1432 Maple Avenue NE Canton, Ohio 44705, Canton, OH 44705 Certified Structural Steel Fabricator	SBR	2018-177Q
USBRG 15	U.S. Bridge, 201 Wheeling Avenue, P.O. Box 757, Cambridge, OH 43725 http://www.usbridge.com/ Certified Structural Steel Fabricator <i>Not approved to perform submerged arc welding.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
VAL-4 15	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154 http://www.valmont.com/ Plant 1950 Industrial Boulevard Jasper, TN 37347 Certified Structural Steel Fabricator	IBR	2020-083Q
VALM1 15	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/ Plant Valley, NE 68064 Certified Structural Steel Fabricator	SBR	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

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IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | (<https://www.aisc.org/certification/>)

Product	Name	AISC Category	Ref. No.
VALM2 15 Plant	Valmont Industries, Inc., 58027 Charlotte Ave., Elkhart, IN 46517 http://www.valmont.com/ Elkhart, IN 46517 Certified Structural Steel Fabricator	CPT	----
VETS1 15 Plant	Veritas Steel, 2800 Melby Street, Eau Claire, WI 54703 http://www.veritassteel.com/ 2800 Melby Street Eau Claire, WI 54703 Certified Structural Steel Fabricator <i>Approved to fabricate high performance steel.</i>	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
VETS2 15 Plant	Veritas Steel, 3526 W. Sherman Street, Wausau, WI 54401 http://www.veritassteel.com/ 3526 W. Sherman Street Wausau, WI 54401 Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
WABST 15	Wabash Steel Company, LLC, 2007 Oliphant Drive, P.O. Box 117, Vincennes, IN 47591 http://www.wabashsteel.biz/ Certified Structural Steel Fabricator	Major Steel Bridges with Fracture Critical Endorsement (CBR/F)	----
WALPR 15	Walpar, Inc., 4200 Jefferson Ave., S.W., Birmingham, AL 35228 http://walpar.com/ Certified Structural Steel Fabricator	SBR	----
WATSB 15	Watson Bowman Acme, a Sika Company, 95 Pineview Drive, Amherst, NY 14228 https://www.watsonbowmanacme.com/ Certified Structural Steel Fabricator	SBR	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Structural Steel Fabricators (AISC)

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IBR: Certified Bridge Fabricator - Intermediate (Major) | SBR: Certified Bridge Fabricator - Simple | (<https://www.aisc.org/certification/>)

Product	Name	AISC Category	Ref. No.
WHELU 15	Wheeler Lumber, LLC, Steel Fabrication, 1151 Chaparral Ave., Shakopee, MN 55379	http://www.wheeler-con.com/	
	Certified Structural Steel Fabricator <i>Approved to fabricate pedestrian bridge only.</i>	Major Steel Bridges (CBR)	2006-217
WHICO 15	L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895	http://www.lcwhitford.com/	
	Certified Structural Steel Fabricator	SBR	2017-121

AISC Department Register of Certified Paint Shops (AISC or SSPC)

Last Revised: 2/28/2024

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Product	Name	Ref. No.
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056	http://www.advsteel.com/
	Certified Paint Shop	2014-132Q
AIS-1 15 Plant	Avalotis Industrial Services LLC, 400 Jones Street, Verona, PA 15147	https://www.avalotis.com/
	Aliquippa, PA Certified Paint Shop	2023-178Q



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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Product	Name	Ref. No.
BCIND 15 Plant	B-C Industries, 12 Hawksley Rd., Oxford, MA 01540 12 Hawksley Rd. Oxford, MA 01540 Certified Paint Shop	2009-172Q
BIGRB 15 Plant	Contech Engineered Solutions, A QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 https://www.conteches.com/ 25581 Hillman Highway Abingdon, VA 24210 <i>Formerly Big R Bridge</i> Certified Paint Shop	----
BROWD 15	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ Certified Paint Shop	----
CANAM 15	Canam Steel Corporation, 4010 Clay Street, P.O. Box 285, Point of Rocks, MD 21777 http://www.canam-construction.com/en/ Certified Paint Shop	2013-228
CBSSI 15	Casco Bay Steel Structures, Inc., One Wallace Avenue, South Portland, ME 04106 Certified Paint Shop <i>Casco Bay Steel Structures, Inc. is approved for the following two paint shop facilities:</i> <i>1st Facility: One Wallace Avenue, South Portland, ME 04106</i> <i>2nd Facility: 1156 Broadway, South Portland, ME 04106</i>	2016-209Q
CIAFC 15	Cianbro Fabrication & Coating Corporation, 605 Pittman Road, Baltimore, MD 21226 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx Certified Paint Shop	2010-213



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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Product	Name	Ref. No.
CIANB 15 Certified Paint Shop	Cianbro Fabrication & Coating Corporation, 3 Farm Lane, Georgetown, MA 01833 http://www.cianbro.com/ProjectsMarkets/FabricationCoating.aspx Formerly Foster Precise Structural Products (FOSPR).	----
COLOR 15 Certified Paint Shop	Color Works Painting, Inc., 251 Edward Avenue, New Castle, DE 19720 http://www.colorworkspainting.com/	2007-176Q
CON13 15 Plant Certified Paint Shop	Contech Engineered Solutions, a QUIKRETE Company, 5 Concourse Parkway, Suite 1900, Atlanta, GA 30328 http://www.conteches.com/ Fort Payne, AL	2001-154
CONSV 15 Certified Paint Shop	Con-Serv, Inc., 2963 Interstate Parkway, Brunswick, OH 44212 http://www.con-servinc.com/	----
CORNL 15 Certified Paint Shop	Cornell & Company, Inc., P. O. Box 807, Woodbury, NJ 08096 http://www.cornellcraneandsteel.com/	----
CPMP1 15 Certified Paint Shop	Carney's Point Metal Processing, Inc., 351 North Virginia Avenue, Carneys Point, NJ 08069	2016-102Q
DUNGV 15 Certified Paint Shop	Duncan Galvanizing, 69 Norman Street, Everatt, MA 02149 http://www.duncangalvanizing.com/	2017-243Q
DURAB 15 Certified Paint Shop	Dura-Bond Steel Corporation, 2658 Puckety Drive, Export, PA 15632 http://www.dura-bond.com/	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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Product	Name	Ref. No.
DURBD 15 Dura-Bond Pipe, LLC, 2716 South Front Street, Steelton, PA 17113 http://www.dura-bond.com/		
Certified Paint Shop		2014-179
<i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings.</i>		
EAGMC 15 Eagle Manufacturing Company, Inc., 13 Homonick Road, Colchester, CT 06415 http://eagle-mfg.com/Default.aspx		
Certified Paint Shop		-----
EPACI 15 EPAcoat, Inc, 4500 Oakleys Lane, Richmond, VA 23231		
Plant 4500 Oakleys Lane Richmond, VA 23231		
Certified Paint Shop		2012-004Q
ESAFE 15 Envirosafe Stripping, Inc., 785 Arch Street, Carnegie, PA 15106 https://envirosafeindustrial.com/		
Plant 785 Arch Street Carnegie, PA 15106		
Certified Paint Shop		2009-130Q
FUTFAB15 Future Fabricating, 23450 Regency Park Drive, Warren, MI 48089 http://futurefabricating.com/		
Certified Paint Shop		2018-273Q
GATEW 15 Gateway Industrial Services, 805 Harrison Street, Allentown, PA 18103 http://www.gatewayis.com/index1.htm		
Plant 805 Harrison Street Allentown, PA 18103		
Certified Paint Shop		2013-139Q
GRENR 15 Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/		
Certified Paint Shop		-----



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Section AISC: Certified Facilities

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Product	Name	Ref. No.
HABSI 15 Certified Paint Shop	Haberle Steel, Inc., 1946 East Cherry Lane, Souderton, PA 18964 http://haberlesteel.com/	2011-096
HASSC 15 Certified Paint Shop	Harris Structural Steel Company, Inc., 1640 New Market Ave., South Plainfield, NJ 07080 http://www.harrissteelco.com/	----
HEART 15 Certified Paint Shop	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i>	2018-220Q
HIGH1 15 Certified Paint Shop	High Steel Structures, Inc., 1915 Old Philadelphia Pike,, P.O. Box 10008, Lancaster, PA 17605-0008 http://www.highsteel.com/	----
HIGH2 15 Certified Paint Shop	High Steel Structures, Inc., 3501 W 4th Street, Williamsport, PA 17701 http://www.highsteel.com/	----
HIR01 15 Certified Paint Shop	W&W | AFCO STEEL Hirschfeld Division, 9035 West Market Street, Colfax, NC 27235 http://hirschfeld.wwafcosteel.com/	----
HIR02 15 Certified Paint Shop	W&W | AFCO STEEL Hirschfeld Division, Nash County Plant,, 241 Corbett Road, Nashville, NC 27856 http://hirschfeld.wwafcosteel.com/	----
HIR03 15 Certified Paint Shop	W&W AFCO STEEL Hirschfeld Division, Abingdon Plant, 15083 Industrial Park Road, Bristol, VA 24201 http://hirschfeld.wwafcosteel.com/	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

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	Product	Name	Ref. No.
INDPS 15 Plant	Industrial Painting Specialists, 5858 152nd Street North, Hugo, MN 55038 5858 152nd Street North Hugo, MN 55038 Certified Paint Shop		2012-007Q
INDS1 15	Industrial Steel Construction, Inc., 86 North Bridge Street, Gary, IN 46404 Certified Paint Shop	http://www.iscbridge.com/	-----
INDS2 15	Industrial Steel Construction, Inc., 6120 River Road, Hodgkins, IL 60525 Certified Paint Shop	http://www.iscbridge.com/	2008-094
KARDW 15	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865 Certified Paint Shop		2010-228Q
KIN-1 15	Kinsley Steel, Inc., 1100 East Princess Street, York, PA 17403 <i>Formerly Kinsley Manufacturing</i> Certified Paint Shop	https://kinsleysteel.com/	-----
KIN-2 15	Kinsley Steel, Inc., 3900 E. Market Street, York, PA 17402 <i>Formerly Kinsley Manufacturing</i> Certified Paint Shop	https://kinsleysteel.com/	-----
L&MF2 15 Facility	L&M Fabrication and Machine, Inc., 6814 Chrisphalt Drive, Bath, PA 18014 7230 Beth-Bath Pike Bath, PA 18014 Certified Paint Shop	http://www.lmfab.com/	2017-347Q



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Section AISC: Certified Facilities

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	Product	Name	Ref. No.
LITEL 15	Littell Steel Company, 100 Fallston Street, New Brighton, PA 15066 Certified Paint Shop	https://www.littellsteel.com/	-----
MCIWK 15	MC Ironworks, Inc., P.O. Box 20431, Lehigh Valley, PA 18002-0431 Certified Paint Shop	http://www.mcironworks.com/	2006-022
MISUF 15	Missouri Fabricators, 3226 County Road 257, Fulton, MO 65251-3101 Certified Paint Shop	http://www.occimofab.com/	-----
NIAGC 15	Niagara Coatings Services, Inc., 8025 Quarry Road, Niagara Falls, NY 14304 Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings.</i>	http://niagaracoatings.com/	-----
OESTE 15 Plant	Oesterling's Sandblasting & Painting, 686 Glenwood Way, Butler, PA 16001 686 Glenwood Way Butler, PA 16001 Certified Paint Shop	http://www.oesterlingssandblasting.com/	-
OHSTR 15 Plant	Ohio Structures, Inc., 4030 Boardman Canfield Road, Suite 200 D, Canfield, OH 44406 6120 Pricetown Road Berlin Center, OH 44401 Certified Paint Shop <i>Approved for Shop Application Metalizing.</i>	https://www.ohiostructures.com/	2001-168Q
PDMB1 15	Veritas Steel, 2800 Melby Street, Eau Claire, WI 54703 Certified Paint Shop	http://www.veritassteel.com/	-----



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Section AISC: Certified Facilities

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Product	Name	Ref. No.
PELET 15 Certified Paint Shop	Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/	2012-029Q
PIOBR 15 Certified Paint Shop	Pioneer Bridges, Division of Bailey Bridges, Inc., 119 40th. Street N.E., Fort Payne, AL 35967 http://pioneerbridges.com/	2010-215
PMWI1 15 Certified Paint Shop	Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/	2018-218Q
POWSC 15 Certified Paint Shop	Powell Steel Corporation, 625 Baumgardner Road, Lancaster, PA 17603	----
REGIC 15 Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings. Approved for shop application of metalizing.</i>	Regal Industrial Corporation, 98 1st Street, Donora, PA 15033 http://regalindustrial.com/	----
REGICB15 Plant Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings.</i>	Regal Industrial Corporation, 98 1st Street, Donora, PA 15033 https://regalindustrial.com/ 6338 Farm Bureau Road Allentown, PA 18106	2022-081Q
RP-MA 15 Certified Paint Shop	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/	----



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Product	Name	Ref. No.
SAFGD 15 Plant	Safety Guard Steel Fabricating Company, 113 Lincoln Avenue, Pittsburgh, PA 15209 220 Lincoln Avenue Pittsburgh, PA 15209	http://www.safetyguardsteel.com/
	Certified Paint Shop	-----
SCOUG 15	Scougal Rubber Corporation, 885 Denmark Dr. Ste. 103b, McCarran, NV 89434	http://www.scougalrubber.com/
	Certified Paint Shop	2016-104
SECON 15 Plant	Secondary Service, 757 East Ferry, Buffalo, NY 14211 757 East Ferry Buffalo, NY 14211	
	Certified Paint Shop <i>Shop has SSPC-QP3 required for removal and disposal of hazardous coatings. Approved for shop application of metalizing.</i>	2012-207Q
SEISM 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 518 Progress Way Athens, TX 75751 (Formerly Seismic Energy Products, Inc.)	http://www.dsbrown.com/
	Certified Paint Shop	2010-199
SHANE 15	Shane Felter Industries, P. O. Box 2022, Rt. 51, Uniontown, PA 15401	http://www.shanefelterindustries.com/
	Certified Paint Shop	-----
SRTSS 15	SRT Sales and Services, LLC, 4936 Southway Street SW, Canton, OH 44706	http://www.srtsands.com/
	Certified Paint Shop	-----



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Posted:
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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

Last Revised: 2/28/2024

The listed companies have been preapproved to paint items for PennDOT. Company approval to paint PennDOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

These plants have been pre-approved to paint items for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA. The Paint Shops listed below are approved by either the AISC Sophisticated Paint Endorsement (SPE), Category P1 (enclosed shop category) Program or the Society For Protective Coatings (SSPC) QP3 Certification Program enclosed shop category.

Product	Name	Ref. No.
STRBR 15	Canam Bridges US, Inc., a Canam Group Business, 386 River Road, Claremont, NH 03743 https://www.canambridges.com/ <i>Formerly Structal Bridges, Div. of Canam Steel Corporation</i>	
	Certified Paint Shop	2014-015
STSSI 15	STS Steel, Inc., 301 Nott Street, Building 304, Schenectady, NY 12305 http://stssteel.com/	
	Certified Paint Shop	2010-161QB
STUPP 15	Stupp Bridge Company, 445 Century Street, Bowling Green, KY 42101 http://www.stuppbridge.com/	
	Certified Paint Shop	----
TSEC1 15	Tampa Steel Erecting Company, 5127 Bloomingdale Avenue, Tampa, FL 33619 https://tampasteelerecting.com/	
	Certified Paint Shop	2021-206Q
TSFAB 15	Tuckerman Steel Fabricators, Inc., 256 Marginal St., East Boston, MA 02128	
Plant	256 Marginal St. East Boston, MA 02128	
	Certified Paint Shop	-
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 http://www.uisutah.com/uis2011/	
	Certified Paint Shop	2011-063QB
USBRG 15	U.S. Bridge, 201 Wheeling Avenue, P.O. Box 757, Cambridge, OH 43725 http://www.usbridge.com/	
	Certified Paint Shop	----
VALM1 15	Valmont Industries, Inc., 7002 N 288th Street, Valley, NE 68064 http://www.valmont.com/	
Plant	Valley, NE 68064	
	Certified Paint Shop	----



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Section AISC: Certified Facilities

AISC Department Register of Certified Paint Shops (AISC or SSPC)

Last Revised: 2/28/2024

The listed companies have been preapproved to paint items for PennDOT. Company approval to paint PennDOT projects must be received before commencement of any work, from the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA.

These plants have been pre-approved to paint items for PennDOT by the Structural Materials Engineer, Materials Testing Laboratory, Harrisburg, PA. The Paint Shops listed below are approved by either the AISC Sophisticated Paint Endorsement (SPE), Category P1 (enclosed shop category) Program or the Society For Protective Coatings (SSPC) QP3 Certification Program enclosed shop category.

Product	Name	Ref. No.
VETS1 15 Plant	Veritas Steel, 2800 Melby Street, Eau Claire, WI 54703 http://www.veritassteel.com/ 2800 Melby Street Eau Claire, WI 54703 Certified Paint Shop	-----
VETS2 15 Plant	Veritas Steel, 3526 W. Sherman Street, Wausau, WI 54401 http://www.veritassteel.com/ 3526 W. Sherman Street Wausau, WI 54401 Certified Paint Shop	-----
WABST 15	Wabash Steel Company, LLC, 2007 Oliphant Drive, P.O. Box 117, Vincennes, IN 47591 http://www.wabashsteel.biz/ Certified Paint Shop	2008-079Q
WALPR 15	Walpar, Inc., 4200 Jefferson Ave., S.W., Birmingham, AL 35228 http://walpar.com/ Certified Paint Shop	-----



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

Last Revised: 9/28/2023

In accordance with Section 1105, listed shops are eligible to manufacturer and furnish indicated machining operations on products for the Department. All products must conform to PennDOT Specifications in Publication 408 and approved shop drawings.

Product	Name	Ref. No.
AASCO 15 A588 & A572 Steel Company, 785 Arch Street, Carnegie, PA 15106 http://www.a588a572steel.com/		
Cutting Operation		2010-192Q
ACCPR 15 AccuTrex Products, Inc., 112 Southpointe Blvd., Canonsburg, PA 15317 http://www.accutrex.com/		
Bending Operation		2012-241Q
Cutting Operation		2003-178Q
Drilling or Punching Operation		2003-178Q
Grinding Operation		2012-241Q
Laser Cutting Operation		2012-241Q
<i>Project by project approval by Chief Structural Materials Engineer. The Water Jet Cutting Operation approval is listed under the Washington, PA facility with a Supplier Code of ACCPS 15.</i>		
ACCPS 15 AccuTrex Products, Inc., 112 Southpointe Blvd., Canonsburg, PA 15317 http://www.accutrex.com/		
Facility 75 Museum Road Washington, PA 15301		
Water Jet Cutting Operation		2012-240Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
ACKBAY15 Ackerman & Baynes, LLC, 4211 Erdman Ave., Baltimore, MD 21213 http://www.ackbay.com/		
Bending Operation		2018-282Q
Cutting Operation		2018-282Q
Drilling or Punching Operation		2018-282Q
Grinding Operation		2018-282Q
ACMGS 15 Acme Grinding Services, Inc., 126 East Niagara St., Tonawanda, NY 14150		
Cutting Operation		2015-198Q
Drilling or Punching Operation		2015-198Q
Grinding Operation		2001-049Q



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

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In accordance with Section 1105, listed shops are eligible to manufacturer and furnish indicated machining operations on products for the Department. All products must conform to PennDOT Specifications in Publication 408 and approved shop drawings.

Product	Name	Ref. No.
ACMMW 15	Acme Machine & Welding Company, 46 Anchor Inn Road, P.O. Box 1099, Punxsutawney, PA 15767 http://www.acmemw.com/	
	Cutting Operation	2009-168Q
	Drilling or Punching Operation	2009-168Q
	Grinding Operation	2009-168Q
ACRMI 15	ACR Machine, Inc., 21 N. 10th Ave., Coatesville, PA 19320-3382 http://www.acrmachine.com/	
	Cutting Operation	----
	Drilling or Punching Operation	----
ADGFAB15ADG	ADG Fabrication, 540 Sampson Street, New Castle, PA 16101	
	Bending Operation	2019-091Q
	Cutting Operation	2019-091Q
	Drilling or Punching Operation	2019-091Q
	Grinding Operation	2019-091Q
	Laser Cutting Operation	2019-091Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>	
ADVSC 15	Advantage Steel & Construction, LLC, 2300 South Noah Drive, Saxonburg, PA 16056 http://www.advsteel.com/	
	Bending Operation	2015-024Q
	Cutting Operation	2015-024Q
	Drilling or Punching Operation	2015-024Q
	Grinding Operation	2015-024Q



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

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Product	Name	Ref. No.
AEMCNC1	Auglaize Erie Machine, 07148 Quellhorst Road, New Bremen, OH 45869 https://aemcnc.com/	
5		
Cutting Operation		2022-133Q
Drilling or Punching Operation		2022-133Q
Grinding Operation		2022-133Q
ALTPS 15	Pechter, Inc. DBA Altoona Pipe and Steel, 1128 Ninth Ave., P.O. Box 112, Altoona, PA 16603 http://www.altoonapipeandsteel.com/	
Bending Operation		2012-051Q
Cutting Operation		2012-051Q
Drilling or Punching Operation		2012-051Q
Grinding Operation		2012-051Q
AMCTC 15	A.M. Castle & Company, 26800 Miles Road, Bedford Heights, OH 44146 http://www.amcastle.com/	
Bending Operation		2002-089Q
Cutting Operation		2002-089Q
Drilling or Punching Operation		2002-089Q
Grinding Operation		2002-089Q
AMEPB 15	American Pipe Bending, Inc., Dawson Road, Tulsa, OK 74110 http://americanpipebending.co/	
Cutting Operation		2011-157Q
Induction Bending Operation		2011-157Q
APEX- 15	Apex Fabrication & Design, Inc., 7938 Boyertown Pike, Boyertown, PA 19512-8144 http://www.apexfab.com/	
Bending Operation		2014-195QM
Cutting Operation		2014-195QM
Drilling or Punching Operation		2014-195QM
Grinding Operation		2014-195QM



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Product	Name	Ref. No.
ASC-1 15 Alro Steel Corporation, 1800 W. Willow Road, Lansing, MI 48915 http://www.alro.com/		
Bending Operation		2007-123Q
Cutting Operation		2007-123Q
Drilling or Punching Operation		2007-123Q
Grinding Operation		2007-123Q
ASC-2 15 Alro Steel Corporation, 50 Ensminger Road, Tonawanda, NY 14150-6718 http://www.alro.com/		
Cutting Operation		2007-197Q
Grinding Operation		2007-197Q
ASC-3 15 Alro Steel Corporation, 4787 State Road, Cuyahoga Falls, OH 44223-3555 http://www.alro.com/		
Cutting Operation		2007-199Q
Drilling or Punching Operation		2007-199Q
Grinding Operation		2007-199Q
ASC-4 15 Alro Steel Corporation, 3003 Airport Highway, Toledo, OH 43609 http://www.alro.com/		
Bending Operation		2007-124Q
Cutting Operation		2007-124Q
Drilling or Punching Operation		2007-124Q
Grinding Operation		2007-124Q
ASC-5 15 Alro Steel Corporation, 140 Solar Drive, Imperial, PA 15126 http://www.alro.com/		
Cutting Operation		2007-198Q
ASC-6 15 Alro Steel Corporation, 5859 Alro Park Dr, Pottersville, MI 48876-8795 http://www.alro.com/		
Cutting Operation		2011-115Q
Laser Cutting Operation		2015-076Q



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

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Product	Name	Ref. No.
ASC-7 15	Alro Steel Corporation, 130 Keeney Lane, York, PA 17406 http://www.alro.com/ Cutting Operation	2013-196Q
ASC-8 15	Alro Steel Corporation, 18881 Sherwood Avenue, Detroit, MI 48234 http://www.alro.com/ Water Jet Cutting Operation <i>Project by project approval by Chief Structural Materials Engineer.</i>	2013-240Q
ATFAB 15	American Tank & Fabricating Co. (AT&F), 12314 Elmwood Avenue, Cleveland, OH 44111 http://www.atfco.com Bending Operation Cutting Operation Drilling or Punching Operation Grinding Operation Laser Cutting Operation <i>Project by project approval by Chief Structural Materials Engineer.</i> Press Brake (Tubular) Water Jet Cutting Operation <i>Project by project approval by Chief Structural Materials Engineer.</i>	2015-152Q 2015-152Q 2015-152Q 2015-152Q 2015-152Q 2015-152Q 2015-152Q
ATLMW 15	Atlas Machining & Welding, Inc, 777 Smith Lane, Northampton, PA 18067 http://www.atlasmw.com/ Bending Operation Cutting Operation Drilling or Punching Operation Grinding Operation	2010-292Q 2010-292Q 2010-292Q 2010-292Q
ATLRC 15	Atlanta Rod and Manufacturing Company, Inc., 144 Schokbeton Street, Lavonia, GA 30553 http://www.atlrod.com/ Cutting Operation	2015-002Q
AXSAC 15	A & X Steel and Aluminum Company, 2825 Annapolis Road, Baltimore, MD 21230 Bending Operation	2013-155Q



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Product	Name	Ref. No.
BACWM 15 Bachle Welding & Machine, Inc., 1685 Turkey Bottom Road, Muncy, PA 17756 http://www.bachlewelding.com/		
Cutting Operation		2007-145Q
Drilling or Punching Operation		2007-145Q
BARMM 15 Bartley Machine & Manufacturing Company, Inc., 35 Water Street, Amesbury, MA 01913 http://www.bartleymachine.com/		
Bending Operation		2014-172Q
Cutting Operation		2014-172Q
Drilling or Punching Operation		2014-172Q
Grinding Operation		2014-172Q
Press Brake (Tubular)		2014-172Q
Water Jet Cutting Operation		2014-172Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
BEAES 15 Bearing Engineered Solutions, 430 Morgan Ave., Akron, OH 44311 http://bearingengineeredolutions.com/		
Drilling or Punching Operation		2011-131Q
BENNE 15 Bennett Bolt Works, Inc., P. O. Box 922, Jordan, NY 13080 https://www.bennettbolt.com/		
Plant 12 Elbridge Street Jordan, NY 13080		
Bending Operation		2015-144Q
Cutting Operation		2015-144Q
Drilling or Punching Operation		2015-144Q
Grinding Operation		2015-144Q
Laser Cutting Operation		2015-144Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
BENS1 15 Benjamin Steel Company, Inc., 777 Benjamin Dr., Springfield, OH 45502 http://www.benjaminsteel.com/		
Cutting Operation		2010-189Q
Drilling or Punching Operation		2010-189Q



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Section MACH: PennDOT Register of Certified Machine Shops

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Product	Name	Ref. No.
BENS2 15 Benjamin Steel Company, Inc., 15 Mansfield Ind. Pkwy., Mansfield, OH 44903 http://www.benjaminsteel.com/ Cutting Operation		2010-279Q
BENS3 15 Benjamin Steel Company, Inc., 1825 Kuntz Road, Dayton, OH 45404 http://www.benjaminsteel.com/ Bending Operation Cutting Operation Grinding Operation		2010-298Q 2010-298Q 2010-298Q
BENS4 15 Benjamin Steel Company, Inc., 3111 St. Johns Road, Lima, OH 45804 http://www.benjaminsteel.com/ Bending Operation Cutting Operation Drilling or Punching Operation Grinding Operation		2010-280Q 2010-280Q 2010-280Q 2010-280Q
BENTC 15 BendTec, Inc., 366 Garfield Avenue, Duluth, MN 55802 http://www.bendtec.com/ Bending Operation Cutting Operation Drilling or Punching Operation Grinding Operation Induction Bending Operation		2013-087QA 2013-087QA 2013-087QA 2013-087QA 2013-087QA



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Product	Name	Ref. No.
BERMF 15 Bear Ridge Machine & Fabrication, Inc., 10 Eleanor Avenue, Frackville, PA 17931 http://brmf.net/		
Bending Operation		2002-113Q
Cutting Operation		2002-113Q
Drilling or Punching Operation		2002-113Q
Grinding Operation		2002-113Q
Stud Welding of Embed Plates Only		2015-181Q
Water Jet Cutting Operation		2015-177Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
BLALP 15 Black Lion Products, LLC, 3710 Henricks Road, Youngstown, OH 44515		
Bending Operation		2014-213Q
Cutting Operation		2014-213Q
Drilling or Punching Operation		2014-213Q
Grinding Operation		2014-213Q
BREWF 15 S. R. Bressler Welding & Fabrication, 558 Lake Drive, Curwensville, PA 16833 http://www.srbressler.com/		
Bending Operation		2013-119Q
Cutting Operation		2013-119Q
Drilling or Punching Operation		2013-119Q
Grinding Operation		2013-119Q
BRINK 15 Brink's Welding, 1050 Broad Street, Suite 1, Montoursville, PA 17754 http://www.brinkswelding.com/		
Bending Operation		2021-104Q
Cutting Operation		2021-104Q
Drilling or Punching Operation		2021-104Q
Grinding Operation		2021-104Q



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

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Product	Name	Ref. No.
CBSSI 15	Casco Bay Steel Structures, Inc., One Wallace Avenue, South Portland, ME 04106	
Bending Operation		2016-210
Cutting Operation		2016-210
Drilling or Punching Operation		2016-210
Grinding Operation		2016-210
<i>The following Casco Bay Steel Structures, Inc. facilities are approved for bending, cutting, drilling/punching, and grinding operations:</i>		
<i>1st Facility: One Wallace Avenue, South Portland, ME 04106</i>		
<i>2nd Facility: 1156 Broadway, South Portland, ME 04106</i>		
<i>3rd Facility: 75 Spring Hill Road, Saco, ME 04072</i>		
CEDLLC15	Cutting Edge Design, LLC, 46861 McDonald Street, East Liverpool, OH 43920 http://cuttingedgedesignllc.com/	
Cutting Operation		2019-176Q
Drilling or Punching Operation		2019-176Q
Grinding Operation		2019-176Q
CHASC 15	Chapel Steel Company, 191 South Keim Street, Pottstown, PA 19464 http://chapelsteel.com/	
Cutting Operation		2001-196Q
Drilling or Punching Operation		2001-196Q
CLINT 15	Clinton Aluminum Distribution, Inc, 2811 Eastern Road, Norton, OH 44203 https://www.clintonaluminum.com/	
Cutting Operation		2022-041Q
Grinding Operation		2022-041Q
Water Jet Cutting Operation		2022-041Q
<i>Project by project approval by Chief Structural Materials Engineer</i>		
CONS0 15	Consolidated Steel Services, Inc., 632 Glendale Valley Blvd., Fallentimber, PA 16639 http://csteel.com/	
Cutting Operation		2003-093Q
Drilling or Punching Operation		2003-093Q



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Section MACH: PennDOT Register of Certified Machine Shops

MACH Certified Machine Shops

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Product	Name	Ref. No.
CONSV 15 Con-Serv, Inc., 2963 Interstate Parkway, Brunswick, OH 44212 http://www.con-servinc.com/		
Bending Operation		2006-060Q
Cutting Operation		2006-060Q
Drilling or Punching Operation		2006-060Q
Grinding Operation		2006-060Q
CUMPS 15 Pechter Inc. DBA Cumberland Pipe & Steel Supply, 11901 Upper Potomac Ind. Park, P.O. Box 1320, Cumberland, MD 21501		
Bending Operation		2012-052Q
Cutting Operation		2012-052Q
Drilling or Punching Operation		2012-052Q
Grinding Operation		2012-052Q
CUSMC 15 Custom Manufacturing Company, 5501 S. Lamar Street, Dallas, TX 75215 http://custommfgco.com/		
Bending Operation		2010-328Q
Cutting Operation		2010-328Q
Drilling or Punching Operation		2010-328Q
Grinding Operation		2010-328Q
DAVMC 15 Davis Machine Company, 180 Front Street, Leetonia, OH 44431 http://www.davismachineco.com/		
Bending Operation		2001-118Q
Cutting Operation		2001-118Q
Drilling or Punching Operation		2001-118Q
Grinding Operation		2001-118Q



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Product	Name	Ref. No.
DELT1 15	Delta Steel, Inc., 1585 Edgefield Way, Cedar Hill, TX 75104	https://www.deltasteel.com/
Facility	1585 Edgefield Way Cedar Hill, TX 75104	
	Cutting Operation	----
	Drilling or Punching Operation	----
	Grinding Operation	----
DIVMA 15	Diversified Manufacturing, Inc, 410 Ohio St., Lockport, NY 14094	http://www.dmimfg.com/
	Bending Operation	----
	Cutting Operation	----
	Drilling or Punching Operation	----
	Grinding Operation	----
DMSMF 15	DMS Machining and Fabrication, P.O. Box 477, 10 Transport Drive, Barre, VT 05641	http://www.dmsmachine.com/
	Bending Operation	2015-047Q
	Cutting Operation	2015-047Q
	Drilling or Punching Operation	2015-047Q
	Grinding Operation	2015-047Q
DOLAN 15	Dolan's Welding & Steel Fabricating, 118 Venture Street, Johnstown, PA 15909-4224	
	Bending Operation	2017-167Q
	Cutting Operation	2017-167Q
	Drilling or Punching Operation	2017-167Q
	Grinding Operation	2017-167Q
	Laser Cutting Operation	2017-167Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>	



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Product	Name	Ref. No.
DSPSS 15 Facility	DS Pipe & Steel Supply LLC, P.O. Box 6367, 1301 Wicomico Street, Baltimore, MD 21230 http://www.dspipeandsteel.com	
	P.O. Box 6367 1301 Wicomico Street Baltimore, MD 21230	
	Cutting Operation	2016-067Q
	Drilling or Punching Operation	2016-067Q
	Grinding Operation	2016-067Q
	Laser Cutting Operation	2016-067Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>	
DVS-1 15	Delaware Valley Steel, 2249 Manor Ave, Upper Darby, PA 19082 http://www.delawarevalleysteel.com/	
	Cutting Operation	2017-355Q
	Drilling or Punching Operation	2017-355Q
DYNFC 15	Dyna-Fab Corporation, 3893 South S.R. 263, West Lebanon, IN 47991 http://dyna-fab.org/	
	Bending Operation	2008-105Q
	Cutting Operation	2008-105Q
	Drilling or Punching Operation	2008-105Q
	Grinding Operation	2008-105Q
DYSNC 15	Dyson Corporation, 53 Freedom Road, Painesville, OH 44077 http://www.dysoncorp.com/index.html	
	Bending Operation	----
	Cutting Operation	----
	Drilling or Punching Operation	----
	Grinding Operation	----
EASCT 15	East Coast Threading Company, 1520 Manatawny Road, P.O. Box 347, Pine Forge, PA 19548 http://eastcoastthreading.com/	
	Cutting Operation	2016-271Q
	Drilling or Punching Operation	2016-271Q
	Grinding Operation	2016-271Q



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Product	Name	Ref. No.
EASSM 15 Eastern Shaft & Manufacturing, 160 Court St., Lancaster, NY 14086		
Bending Operation		2000-330Q
Cutting Operation		2000-330Q
Drilling or Punching Operation		2000-330Q
Grinding Operation		2000-330Q
EKS-1 15 Eddie Kane Steel, P.O. Box 133, Spring Lake, NJ 07762 https://www.eddiekanesteel.com/		
Facility 1400 Standard Avenue Masury, OH 44438		
Bending Operation		2020-197Q
Cutting Operation		2020-197Q
Drilling or Punching Operation		2020-197Q
Grinding Operation		2020-197Q
EXC-0 15 Excalibur Machine, LLC, 9723 Hwy 322, P.O. Box 605, Conneaut Lake, PA 16316 http://www.excaliburmachine.com/		
Bending Operation		2013-122Q
Cutting Operation		2013-122Q
Drilling or Punching Operation		2013-122Q
Grinding Operation		2013-122Q
EXC-1 15 Excalibur Machine, LLC, 9723 Hwy 322, P.O. Box 605, Conneaut Lake, PA 16316 http://www.excaliburmachine.com/		
Plant 9723 Hwy 322 P.O. Box 605 Conneaut Lake, PA 16316		
Bending Operation		2013-170Q
Cutting Operation		2013-170Q
Drilling or Punching Operation		2013-170Q
Grinding Operation		2013-170Q



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MACH Certified Machine Shops

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Product	Name	Ref. No.
EXC-2 15	Excalibur Machine, LLC, 9723 Hwy 322, P.O. Box 605, Conneaut Lake, PA 16316 http://www.excaliburmachine.com/	
Plant	9723 Hwy 322 P.O. Box 605 Conneaut Lake, PA 16316	
	Bending Operation	2013-171Q
	Cutting Operation	2013-171Q
	Drilling or Punching Operation	2013-171Q
	Grinding Operation	2013-171Q
EXTMF 15	Extreme Machine & Fabricating, Inc., 2340 Quality Lane, West Middlesex, PA 16159 http://extrememachine.net/	
Plant	Hermitage, PA 16148	
	Bending Operation	2000-265Q
	Cutting Operation	2000-265Q
	Drilling or Punching Operation	2000-265Q
	Grinding Operation	2000-265Q
FAMCO 15	FAMCO Service & Machine, 754 South Main Street Ext., Punxsutawney, PA 15767 https://famcoservice.com/ <i>Formerly FEMCO Holdings LLC (FEMCO 15)</i>	
	Bending Operation	2019-141Q
	Cutting Operation	2019-141Q
	Drilling or Punching Operation	2019-141Q
	Grinding Operation	2019-141Q
FASCM 15	Fastenal Company Manufacturing Division, 1801 Theurer Blvd., Winona, MN 55987 https://www.fastenal.com/home.ex	
	Bending Operation	2000-342Q
	Cutting Operation	2000-342Q
	Drilling or Punching Operation	2000-342Q
	Grinding Operation	2000-342Q



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Product	Name	Ref. No.
FILCD 15	Dennis Filges Company, Inc., 238 Center Drive, Chicora, PA 16025 http://www.filgesco.com/	
	Bending Operation	2012-060Q
	Cutting Operation	2012-060Q
	Drilling or Punching Operation	2012-060Q
FLEMI 15 Facility	Premier Industrial Machine, LLC, 1498 Perrysburg Road, Fostoria, OH 44830 http://www.premierindustrialmachine.com/ 19537 U.S. Route 6 Weston, OH 43569 <i>Formerly Fletcher Machine, Inc.</i>	
	Bending Operation	2000-267Q
	Cutting Operation	2000-267Q
	Drilling or Punching Operation	2000-267Q
	Grinding Operation	2000-267Q
FLORJ 15	R/J Florig Industrial Company, Inc., 910 Brook Road, Conshohocken, PA 19428 http://www.rjflorig.com/	
	Bending Operation	----
	Cutting Operation	----
	Drilling or Punching Operation	----
FROST 15	Samuel Frontier Steel, A Division of Samuel, Son & Co., 4990 Grand Avenue, Neville Island, PA 15225 https://www.samuel.com/ <i>Formerly Frontier Steel Company</i>	
	Bending Operation	2009-183Q
	Cutting Operation	2006-085Q
	Drilling or Punching Operation	2009-183Q
GILCR 15	Gilcher Machine LLC, 65671 Rabbit Road, Cambridge, OH 43725	
	Cutting Operation	2013-208Q
	Drilling or Punching Operation	2013-208Q
	Grinding Operation	2013-208Q



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Product	Name	Ref. No.
GLOFA 15 Gortech Global Fabrication, 215 Beaver Drive, Dubois, PA 15801		
Bending Operation		2009-015Q
Cutting Operation		2009-015Q
Drilling or Punching Operation		2009-015Q
Grinding Operation		2009-015Q
GRENR 15 Greiner Industries, Inc., 1650 Steel Way, Mount Joy, PA 17552 http://greinerindustries.com/		
Bending Operation		2009-060Q
Cutting Operation		2009-060Q
Drilling or Punching Operation		2009-060Q
Grinding Operation		2009-060Q
Induction Bending Operation		2017-278Q
HABSI 15 Haberle Steel, Inc., 1946 East Cherry Lane, Souderton, PA 18964 http://haberlesteel.com/		
Bending Operation		2010-211Q
Cutting Operation		2010-211Q
Drilling or Punching Operation		2010-211Q
Grinding Operation		2010-211Q
HALL1 15 Hall Industries, Inc., Hall Equipment Division, 1 USS Industrial Park, Ellwood City, PA 16117 http://hallindustries.com/		
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----



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Product	Name	Ref. No.
HALL2 15	Hall Industries, Inc., 514 Mecklem Lane, Ellwood City, PA 16117 http://hallindustries.com/	
Bending Operation		2002-011Q
Cutting Operation		2002-011Q
Drilling or Punching Operation		2002-011Q
Grinding Operation		2002-011Q
HALL3 15	Hall Industries, Inc., 186 Lincoln Avenue, Grove City, PA 16127 http://hallindustries.com/	
Bending Operation		2017-029Q
Cutting Operation		2017-029Q
Drilling or Punching Operation		2017-029Q
Grinding Operation		2017-029Q
HAYDN 15	Haydon Bolts, Inc., 1181 Unity Street, Philadelphia, PA 19124 http://www.haydonbolts.com/	
Bending Operation		2011-262Q
Cutting Operation		2011-262Q
Drilling or Punching Operation		2011-262Q
Grinding Operation		2011-262Q
HEART 15	Heartland Fabrication, LLC, 1800 Paul Thomas Boulevard, Brownsville, PA 15417 https://www.hl-fabrication.com/ <i>Formerly Brownsville Marine Products</i>	
Bending Operation		2013-095Q
Cutting Operation		2013-095Q
Drilling or Punching Operation		2013-095Q
Grinding Operation		2013-095Q
Press Brake (Tubular)		2013-095Q



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Product	Name	Ref. No.
HERSA 15	Herr and Sacco, Incorporated, 1831 Auction Road, Manheim, PA 17545 http://www.herrandsacco.com/index.html	
Bending Operation		2014-192Q
Cutting Operation		2014-192Q
Drilling or Punching Operation		2014-192Q
Grinding Operation		2014-192Q
Laser Cutting Operation		2014-192Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Water Jet Cutting Operation		2014-192Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
HIGH1 15	High Steel Structures, Inc., 1915 Old Philadelphia Pike,, P.O. Box 10008, Lancaster, PA 17605-0008 http://www.highsteel.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
HMSI1 15	HMS Industries, Inc., 1256 Route 22 Highway West, Blairsville, PA 15717 http://hmsindustries.com/	
Bending Operation		2018-141Q
Cutting Operation		2018-141Q
Drilling or Punching Operation		2018-141Q
Grinding Operation		2018-141Q
HREVA 15	HR Evans Steel Company, 193 N. James Street, East Palestine, OH 44413 http://www.hrevans.com/	
Cutting Operation		2014-003Q
Drilling or Punching Operation		2014-003Q
Grinding Operation		2014-003Q



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Product	Name	Ref. No.
HWN-1 15	H. W. Nicholson Welding and Manufacturing Inc., 3899 Route 66, Apollo, PA 15613	
Bending Operation		2016-270Q
Cutting Operation		2016-270Q
Drilling or Punching Operation		2016-270Q
Grinding Operation		2016-270Q
IMHPI 15	IMH Products, Inc, 1929 Columbia Avenue, Indianapolis, IN 46202 http://www.imh.com/	
Bending Operation		2013-113Q
Cutting Operation		2013-113Q
Drilling or Punching Operation		2013-113Q
Grinding Operation		2013-113Q
INDGS 15	Industrial Gasket & Shim Company, Inc., 200 Country Club Rd., P.O. Box 368, Meadow Lands, PA 15347 http://www.igsind.com/	
Bending Operation		2011-148Q
Drilling or Punching Operation		2011-148Q
INFR2 15	Infra-Metals Company, 1 Sturgills Way, New Boston, OH 45662	
Cutting Operation		2016-150Q
Drilling or Punching Operation		2016-150Q
INFRA 15	Infra-Metals Company, 1900 Bessemer Road, Petersburg, VA 23805 http://www.infra-metals.com/	
Bending Operation		2012-190Q
Cutting Operation		2012-190Q
Drilling or Punching Operation		2012-190Q
Grinding Operation		2012-190Q
Press Brake (Tubular)		2012-190Q



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Product	Name	Ref. No.
INTSF 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411 https://interstatesafetyservice.com/	
Bending Operation		2015-006Q
Cutting Operation		2015-006Q
INTSS 15	Interstate Safety Service, Inc., 1301 Winola Road, Clarks Summit, PA 18411	
Bending Operation		2015-006Q
Cutting Operation		2015-006Q
J&RS2 15	J & R Slaw, Inc., 438 Riverview Road, Lehighton, PA 18235 http://www.slawprecast.com/	
Cutting Operation		----
Drilling or Punching Operation		----
JERMA 15	Jerl Machine, Inc., 11140 Avenue Road, Perrysburg, OH 43551 http://jerl.com/	
Bending Operation		2000-266Q
Cutting Operation		2000-266Q
Drilling or Punching Operation		2000-266Q
Grinding Operation		2000-266Q
JHBTS 15	J. H. Botts, Inc., 253 East Bruce St., Joliet, IL 60432 http://www.jhbotts.com/products.htm	
Bending Operation		2010-109Q
Cutting Operation		2010-109Q
Drilling or Punching Operation		2010-109Q
Grinding Operation		2010-109Q
KARDW 15	Kard Welding, Inc., 480 Osterloh Road, P. O. Box 124, Minster, OH 45865	
Bending Operation		2010-228Q
Cutting Operation		2010-228Q
Drilling or Punching Operation		2010-228Q
Grinding Operation		2010-228Q



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Product	Name	Ref. No.
KDM-1 15 K.D.M. Die Company, Inc., 620 Elk Street, Buffalo, NY 14210-2237 http://www.kdmdie.com/		
Cutting Operation		2019-020Q
Drilling or Punching Operation		2019-020Q
Grinding Operation		2019-020Q
KELBR 15 Kellner Brothers, Inc., 222 Chicago St., Buffalo, NY 14204-2249 http://kellnerbrosinc.com/		
Cutting Operation		2003-115Q
Drilling or Punching Operation		2003-115Q
KERMA 15 Kercher Machine Works, 920 Mechanic St., Lebanon, PA 17042 http://www.kercherindustries.com/		
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
KEYSN 15 Keystone North, Inc., 310 South Main Street, Mansfield, PA 16933 http://keystonewelding.com/		
Bending Operation		2015-190Q
Cutting Operation		2015-190Q
Drilling or Punching Operation		2015-190Q
Grinding Operation		2015-190Q
KLENY 15 Klein Steel of Western New York, 1050 Military Road, Buffalo, NY 14217		
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----



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Product	Name	Ref. No.
KLESS 15 Klein Steel Service, Inc., 105 Vanguard Parkway, Rochester, NY 14606 http://www.kleinsteel.com/		
Cutting Operation		----
Drilling or Punching Operation		----
KLOMC 15 Kloeckner Metals Corporation, 2005 Grassland Parkway, Alpharetta, GA 30004 http://www.kloecknermetals.com/Home.aspx		
Cutting Operation		2001-126Q
Drilling or Punching Operation		2001-126Q
KLOMT 15 Kloeckner Metals - Temtco Steel Division, 500 Manchester Court, York, PA 17408 http://www.kloecknermetals.com/		
Bending Operation		2014-226Q
Cutting Operation		2014-226Q
Drilling or Punching Operation		2014-226Q
Grinding Operation		2014-226Q
Laser Cutting Operation		2014-226Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
KOTMP 15 Kottler Metal Products, 1595 Lost Nation Road, Willoughby, OH 44094-4633 http://www.kottlermetal.com/		
Bending Operation		----
Cutting Operation		----
LAMTC 15 Lawruk Machine & Tool Company, 302 East 6th Ave., Altoona, PA 16602 http://lawrukmachine.com/		
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----



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Product	Name	Ref. No.
LOGII 15	Logue Industries, Inc., 120 South Arch St., Montoursville, PA 17754 http://logueind.com/	
Bending Operation		2000-334Q
Cutting Operation		2000-334Q
Drilling or Punching Operation		2000-334Q
Grinding Operation		2000-334Q
LPRPR 15	LPR Precision, 108 Rome Street, Farmingdale, NY 11735 http://lprprecision.com/	
Bending Operation		2014-034Q
Drilling or Punching Operation		2014-034Q
Grinding Operation		2014-034Q
Laser Cutting Operation		2014-034Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Water Jet Cutting Operation		2014-034Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
LUBTC 15	Lubrite Technologies, 18649 Brake Shoe Road, Meadville, PA 16335-0458 http://www.usbfmi.com/lube1.htm	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
MADDEN1	Madden Bolt Corporation, 13420 Hempstead Road, Houston, TX 77040 https://maddenbolt.com/	
Bending Operation		2019-104Q
Cutting Operation		2019-104Q
Drilling or Punching Operation		2019-104Q
Grinding Operation		2019-104Q



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Product	Name	Ref. No.
MAFES 15 The Machine Fabricating and Weight Equipment Shop, 267 Coolspring Street, Uniontown, PA 15401 http://machfabshop.com/		
Bending Operation		2000-231Q
Cutting Operation		2000-231Q
Drilling or Punching Operation		2000-231Q
Grinding Operation		2000-231Q
MARII 15 Marstrand Industries, Inc., 12 Rutgers Road, P.O. Box 44089, Pittsburgh, PA 15205 http://www.marstrand.us/		
Bending Operation		2001-214Q
Cutting Operation		2001-214Q
Drilling or Punching Operation		2001-214Q
Grinding Operation		2001-214Q
MARKL 15 Marmon/Keystone, LLC, 4521 Willow Parkway, Cleveland, OH 44125 https://www.marmonkeystone.com/ecom/servlet/HomepageServlet		
Bending Operation		2010-195Q
Cutting Operation		2010-195Q
Grinding Operation		2010-195Q
MARMF 15 Martelli's Metal Fabrication, 4 Louise Drive, Ivyland, PA 18974 http://martellismetalfab.com/		
Bending Operation		2015-001Q
Cutting Operation		2015-001Q
Drilling or Punching Operation		2015-001Q
Grinding Operation		2015-001Q



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Product	Name	Ref. No.
MCS-1 15	Mission Critical Solutions, LLC, 271 Industrial Lane, Alum Bank, PA 15221	https://www.missioncriticalsolutions.com/
Facility	271 Industrial Lane Alum Bank, PA 15221	
	Bending Operation	2019-132Q
	Cutting Operation	2019-132Q
	Drilling or Punching Operation	2019-132Q
	Grinding Operation	2019-132Q
MDLM- 15	MDL Manufacturing Industries, Inc., 15 Commerce Court, Bedford, PA 15522	http://www.mdlmanufacturing.com/
	Bending Operation	2014-059Q
	Cutting Operation	2014-059Q
	Drilling or Punching Operation	2014-059Q
	Grinding Operation	2014-059Q
	Laser Cutting Operation	2014-059Q
	<i>Project by project approval by Chief Structural Materials Engineer.</i>	
	Press Brake (Tubular)	2014-059Q
MET-1 15	Metals USA, 50 Cabot Blvd., Langhorne, PA 19047	http://www.metalsusa.com/
	Cutting Operation	----
	Drilling or Punching Operation	----
MET-2 15	Metals USA, 81 Century Drive, Ambridge, PA 15003	http://www.metalsusa.com/
	Bending Operation	2002-077Q
	Cutting Operation	2002-077Q
	Drilling or Punching Operation	2002-077Q
MET-3 15	Metals USA, 6991 Freedom Avenue, N.W., North Canton, OH 44720	http://www.metalsusa.com/
	Cutting Operation	2003-103Q
	Drilling or Punching Operation	2003-103Q



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Product	Name	Ref. No.
MET-4 15 Metals USA, 10 Tower Road, Seekonk, MA 02771 http://www.metalsusa.com/ Cutting Operation		----
MET-5 15 Metals USA, 1900 Kittyhawk Avenue, Building 57, Philadelphia, PA 19112 http://www.metalsusa.com/ Bending Operation Cutting Operation Press Brake (Tubular)		2001-026Q 2001-026Q 2001-026Q
MET-6 15 Metals USA, 75 Stonewood Road, York, PA 17402 http://www.metalsusa.com/ Cutting Operation		2010-247Q
MET-7 15 Metals USA, 201 South Washington Street, Pottstown, PA 19047 http://www.metalsusa.com/ Cutting Operation Drilling or Punching Operation		2015-040Q 2015-040Q
MGLOS 15 M. Glosser & Sons, Inc., 72 Messenger Street, Johnstown, PA 15902 https://www.glossersteel.com/ Facility Glosser Steel 347 Pomroys Drive Windber, PA 15963 Cutting Operation		2012-219Q
MGLOSB1 5 M. Glosser & Sons, Inc., 72 Messenger Street, Johnstown, PA 15902 https://www.glossersteel.com/ Facility Glosser Steel 3802 Industrial Park Road Camp Hill, PA 17011 Cutting Operation		2020-030Q
MGLOSC1 5 M. Glosser & Sons, Inc., 72 Messenger Street, Johnstown, PA 15902 https://www.glossersteel.com/ Facility Glosser Steel Service Center 300 Halstead Boulevard, Building 3, Suite 1 Zelienople, PA 16063 Cutting Operation		2023-037Q



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Product	Name	Ref. No.
MIDATL15 Mid-Atlantic Steel, LLC, 1144 River Road, New Castle, DE 19720		
Bending Operation		2017-327Q
Cutting Operation		2017-327Q
Drilling or Punching Operation		2017-327Q
Grinding Operation		2017-327Q
MILMF 15 Miller Metal Fabrication, Inc., 16356 Sussex Hwy, P.O. Box 249, Bridgeville, DE 19933 http://www.millermetal.com/		
Bending Operation		2007-096Q
Cutting Operation		2007-096Q
Drilling or Punching Operation		2007-096Q
Grinding Operation		2007-096Q
MINERD15 MinerD & Sons, Inc., 101 Red Nine Lane, Lawrence, PA 15055 http://www.minerdandsons.com/		
Bending Operation		2019-139Q
Cutting Operation		2019-139Q
Drilling or Punching Operation		2019-139Q
Grinding Operation		2019-139Q
MORGA 15 Morgan's Welding LLC, 1941 Camp Swatara Road, Myerstown, PA 17067		
Bending Operation		2018-005Q
Cutting Operation		2018-005Q
Drilling or Punching Operation		2018-005Q



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Product	Name	Ref. No.
MTGFAB15 Manufacturing Technology Group, Inc., 85 Servistar Industrial Way, Westfield, MA 01085 http://www.mtgfab.com		
Bending Operation		2016-001Q
Cutting Operation		2015-170Q
Drilling or Punching Operation		2016-001Q
Grinding Operation		2015-170Q
Laser Cutting Operation		2015-170Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
Water Jet Cutting Operation		2016-001Q
<i>Project by project approval by Chief Structural Materials Engineer</i>		
MUNMT 15 Muncy Machine & Tool Company, Inc., P. O. Box 205, Muncy, PA 17756 http://www.muncyindustries.com/		
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
NAMCO 15 Namasco Corporation, 3835 Singleton Blvd., Dallas, TX 75212		
Cutting Operation		2011-140Q
Drilling or Punching Operation		2011-140Q
Grinding Operation		2011-140Q
NIABR 15 Niagara Bridge & Rail, 2212 Cory Drive, Sanborn, NY 14132 http://nbrfab.com/		
Bending Operation		2009-076Q
Cutting Operation		2009-076Q
Drilling or Punching Operation		2009-076Q
Grinding Operation		2009-076Q



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Product	Name	Ref. No.
NIAMC 15	Niagara Manufacturing Company, 2725 West 17th St., Erie, PA 16505 http://niagaramfg.com/	
Bending Operation		1999-169Q
Cutting Operation		1999-169Q
Drilling or Punching Operation		1999-169Q
Grinding Operation		1999-169Q
NIVERT15 Facility	Pennsylvania Steel Company, Inc., 1620 Woodhaven Drive, Bensalem, PA 19020 https://www.pasteel.com/ 1100 Marshwood Road Throop, PA 18512 <i>Formerly Nivert Metal Supply, Inc.</i>	
Cutting Operation		2017-273Q
OLYCD 15	Olympic Steel, Cleveland Division, 5080 Richmond Road, Bedford Heights, OH 44146 http://www.olysteel.com/	
Cutting Operation		2003-057Q
Drilling or Punching Operation		2003-057Q
ONL-1 15	O'Neal Steel LLC, 2975 Duss Ave., Ambridge, PA 15003 https://www.onealsteel.com/locations/pittsburgh-pa/	
Bending Operation		2000-309Q
Cutting Operation		2000-309Q
Drilling or Punching Operation		2000-309Q
Grinding Operation		2000-309Q
ONL-2 15	O'Neal Steel LLC, 11228 Hwy 14 East, New Haven, IN 46774 https://www.onealsteel.com/locations/fort-wayne-in/	
Cutting Operation		2011-109Q
Grinding Operation		2011-109Q
ONL-5 15	O'Neal Steel LLC, 4005 East I-30, Grand Prairie, TX 75050 https://www.onealsteel.com/locations/dallas-tx/	
Cutting Operation		2011-199
Grinding Operation		2011-199



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Product	Name	Ref. No.
ONL-6 15 O'Neal Steel LLC, 841 N Michigan Road, Shelbyville, IN 46176 https://www.onealsteel.com/locations/shelbyville-in/		
Bending Operation		2019-201Q
Cutting Operation		2019-201Q
Laser Cutting Operation		2019-201Q
<i>Project by project approval by Chief Structural Materials Engineer.</i>		
PARTD 15 Paragon Tool & Die, 15439 Akron-Canfield Road, P.O. Box 102, Berlin Ctr., OH 44401 https://www.paragontd.com/		
Drilling or Punching Operation		2009-005Q
Grinding Operation		2009-005Q
PEIWF 15 Peirce Welding & Fabricating, 170 Airport Rd., P.O. Box 369, Bethel, PA 19507		
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
PELET 15 Pelet Welding, Inc., 19 North 12th Avenue, Coatesville, PA 19320 http://peletwelding.com/		
Bending Operation		2012-109Q
Cutting Operation		2012-109Q
Drilling or Punching Operation		2012-109Q
Grinding Operation		2012-109Q
Water Jet Cutting Operation		2012-109QB
PERPV 15 Performance Processing Venture, LLC, 660 Martin Luther King Jr. Blvd., Farrell, PA 16121		
Cutting Operation		2009-136Q
Drilling or Punching Operation		2009-136Q



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Product	Name	Ref. No.
PKMAC 15 P. K. Machine, 9 Brooks Ave., Willow Street, PA 17584 https://www.pkmachine.com/		
Bending Operation		2001-165Q
Cutting Operation		2001-165Q
Drilling or Punching Operation		2001-165Q
Grinding Operation		2001-165Q
PKMSS 15 PKM Steel Service, 228 East Avenue A, Salina, KS 67401 https://www.pkmsteel.com/		
Bending Operation		2022-044Q
Cutting Operation		2022-044Q
Drilling or Punching Operation		2022-044Q
Grinding Operation		2022-044Q
PMWI1 15 Pleasant Mount Welding, Inc., 45 Dundaff Street, Carbondale, PA 18407 https://www.pmwi.net/		
Bending Operation		2018-218Q
Cutting Operation		2018-218Q
Drilling or Punching Operation		2018-218Q
Grinding Operation		2018-218Q
PREC1 15 Precision International, 435 Burt Street, Sistersville, WV 26175 http://precisioninc.net/		
Bending Operation		2016-204Q
Cutting Operation		2016-204Q
Drilling or Punching Operation		2016-204Q
Grinding Operation		2016-204Q
PRESS 15 Precision Steel Services Inc., 31 E. Sylvania Ave., Toledo, OH 43616 http://precision-steel.com/		
Cutting Operation		----



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Product	Name	Ref. No.
PRETC 15 Premium Tool Company, Inc., 1082 Penn Avenue, Jersey Shore, PA 17740		
Cutting Operation		2002-043Q
Drilling or Punching Operation		2002-043Q
PROMA 15 Professional Machine, 518 Maple Street, Holyoke, MA 01040 http://www.promach.biz/		
Drilling or Punching Operation		2013-015Q
Grinding Operation		2013-015Q
PRSNY 15 Cataract Steel Industries, 3774 Lakeshore Rd., Blasdell, NY 14219 http://www.cataractsteel.com (Formerly: Private Systems of WNY, Inc.)		
Drilling or Punching Operation		2010-177Q
Grinding Operation		2010-177Q
PSFAB 15 Penn Steel Fabrication, Inc., 805 N. Wilson Ave, Unit 206, Bristol, PA 19007		
Bending Operation		2016-281
Cutting Operation		2016-281
Drilling or Punching Operation		2016-281
Grinding Operation		2016-281
PSP-1 15 Pittsburgh Steel Processing, 785 Arch Street, Carnegie, PA 15106		
Bending Operation		2020-111Q
Cutting Operation		2020-111Q
Drilling or Punching Operation		2020-111Q
Grinding Operation		2020-111Q



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Product	Name	Ref. No.
PTP-1 15	Pro Tech Precision LLC, 11 Saint Joseph Street, Lancaster, NY 14086 https://www.protechprecisionllc.com/	
Bending Operation		2019-196Q
Cutting Operation		2019-196Q
Drilling or Punching Operation		2019-196Q
Grinding Operation		2019-196Q
QUABF 15	Quality Bridge and Fab, Inc., 3608 Sharon Road, West Middlesex, PA 16159 http://www.qualitybridgeandfab.com/	
Bending Operation		2013-049Q
Cutting Operation		2013-049Q
Drilling or Punching Operation		2013-049Q
Grinding Operation		2013-049Q
QUAFC 15	Quality Flame Cutting, Inc., 828 Main St., Fremont, NH 03841 http://www.qfcflame.com/	
Cutting Operation		2008-179Q
Grinding Operation		2008-179Q
RANIN 15	Ranor, Inc., 1 Bella Drive, Westminster, MA 01473 http://www.ranor.com/	
Bending Operation		2001-151Q
Cutting Operation		2001-151Q
Drilling or Punching Operation		2001-151Q
Grinding Operation		2001-151Q
REYMC 15	Reynolds Manufacturing Company, Inc., 621 Railroad Ave., Avonmore, PA 15618 http://www.reynoldsmfg.com/	
Bending Operation		2013-084Q
Cutting Operation		2013-084Q
Drilling or Punching Operation		2013-084Q
Grinding Operation		2013-084Q



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Product	Name	Ref. No.
RG-ST 15	R. G. Steel Corporation, P. O. Box 356, Route 551, Pulaski, PA 16143 http://rgsteel.com/	
Bending Operation		2008-002Q
Cutting Operation		2008-002Q
Drilling or Punching Operation		2008-002Q
Grinding Operation		2008-002Q
RICMT 15	Richard's Machine Tool Company, Inc., 3753 Walden Ave., Lancaster, NY 14086 http://richardscnc.com/	
Bending Operation		2000-312Q
Cutting Operation		2000-312Q
Drilling or Punching Operation		2000-312Q
Grinding Operation		2000-312Q
RP-MA 15	RPS Machinery Sales, Inc., 175 Old Route 220 Highway, P. O. Box 507, Jersey Shore, PA 17740 http://www.rpsmachinery.com/	
Bending Operation		----
Cutting Operation		----
Drilling or Punching Operation		----
Grinding Operation		----
RYER1 15	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com/	
Facility	43 Century Drive Ambridge, PA 15003	
Cutting Operation		----
Drilling or Punching Operation		----
RYER2 15	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606 http://www.ryerson.com/	
Facility	3915 Walden Avenue Lancaster, NY 14086	
Cutting Operation		2000-233Q
Drilling or Punching Operation		2000-233Q



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Product	Name	Ref. No.
RYER3 15	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606	http://www.ryerson.com/
Facility	555 North Yearling Road Columbus, OH 43213	
	Cutting Operation	2015-052
	Drilling or Punching Operation	2015-052
	Grinding Operation	2015-052
RYER4 15	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606	http://www.ryerson.com
Facility	Ryerson Philadelphia, 20 Steel Road South Morrisville, PA 19067	
	Cutting Operation	2016-050Q
	Grinding Operation	2016-050Q
RYER5 15	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606	http://www.ryerson.com
Facility	920 Old Brunerstown Road Shelbyville, KY 40065-9132	
	Cutting Operation	2016-133Q
	Grinding Operation	2016-133Q
RYER6 15	Ryerson Inc. (Joseph T Ryerson & Son), 227 West Monroe Street, 27th Floor, Chicago, IL 60606	https://www.ryerson.com/
Facility	1605 Highway 169 North Plymouth, MN 55441	
	Bending Operation	2023-110Q
	Cutting Operation	2023-110Q
	Drilling or Punching Operation	2023-110Q
	Grinding Operation	2023-110Q
SABAL 15	Sabre Alloys, 6039 Thomas Road, Building B, Houston, TX 77041	http://www.sabrealloys.com/Index.htm
	Bending Operation	2012-117Q
	Cutting Operation	2012-117Q
	Drilling or Punching Operation	2012-117Q
	Grinding Operation	2012-117Q



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Product	Name	Ref. No.
SALFL 15	Salescorp of Florida, Inc., 3402C N.E. 37th Place, Wildwood, FL 34785 http://salescorpusa.com/	
	Fabrication of bearing and beveled plates only	2011-204Q
	Fabrication of JJ-Hooks connector plate assembly only	2011-204Q
SAMPS 15	Samuel Plate Sales, 250 Lake Ave., Blasdell, NY 14219	
	Cutting Operation	2000-318Q
	Drilling or Punching Operation	2000-318Q
SCHMC 15	Scheirer Machine Company, Inc., 3200 Industrial Blvd., Bethel Park, PA 15120-0670 http://scheirer.com/	
	Bending Operation	2000-192Q
	Cutting Operation	2000-192Q
	Drilling or Punching Operation	2000-192Q
	Grinding Operation	2000-192Q
SCHMI 15	Schaefer Machine, Inc., 727 Robinson Hwy, Route 980, McDonald, PA 15071 http://www.schaeferco.com/	
	Bending Operation	2000-154Q
	Cutting Operation	2000-154Q
	Drilling or Punching Operation	2000-154Q
	Grinding Operation	2000-154Q
SEISM 15 Plant	D.S. Brown Company, 300 East Cherry Street, North Baltimore, OH 45872 http://www.dsbrown.com/ 518 Progress Way Athens, TX 75751 (Formerly Seismic Energy Products, Inc.)	
	Bending Operation	2010-198Q
	Cutting Operation	2010-198Q
	Drilling or Punching Operation	2010-198Q
	Grinding Operation	2010-198Q



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Product	Name	Ref. No.
SOMERA1	Somerville Industries, Inc., 336 South Meadow Drive, Mineral Wells, WV 26150	https://www.somervilleindustries.com/contact
5		
Facility	Somerville Fabricators 336 South Meadow Drive Mineral Wells, WV 26150	
	Bending Operation	2020-151Q
	Cutting Operation	2020-151Q
	Drilling or Punching Operation	2020-151Q
	Grinding Operation	2020-151Q
SOMERB1	Somerville Industries, Inc., 336 South Meadow Drive, Mineral Wells, WV 26150	https://www.somervilleindustries.com/contact
5		
Facility	Somerville Manufacturing 15 Townhall Road Marietta, OH 45750	
	Bending Operation	2020-150Q
	Cutting Operation	2020-150Q
	Drilling or Punching Operation	2020-150Q
	Grinding Operation	2020-150Q
SPESS 15	Specialty Steel Supply Company, Inc., 225 Lincoln Hwy, Fairless Hills, PA 19030	https://225steel.com/
	Cutting Operation	2009-158Q
	Drilling or Punching Operation	2009-158Q



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Product	Name	Ref. No.
STAAR 15	STAAR Distributing, LLC, 560 Myrtle Street, Reynoldsville, PA 15851	http://www.staardistributing.com/
Facility	130A Satterlee Road DuBois, PA 15801	
Bending Operation	<i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
Cutting Operation	<i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
Drilling or Punching Operation	<i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
Grinding Operation	<i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
Press Brake (Tubular)	<i>DuBois, PA and Reynoldsville, PA</i>	2016-119Q
STAMS 15	Pennsylvania Steel Company, Inc., 1620 Woodhaven Drive, Bensalem, PA 19020	https://www.pasteel.com/
Facility	432 E. Keystone Street Alliance, OH 44601 Formerly Stark Metal Sales, Inc.	
Bending Operation		2011-126Q
Cutting Operation		2011-126Q
Drilling or Punching Operation		2011-126Q
Grinding Operation		2011-126Q
STESE 15	Steel Services, Inc., 835 Boundary St., Salisbury, MD 21801	http://www.steelservicesinc.com/
Cutting Operation		----
STESH 15	Steel Shearing, Inc., 5300 Lakeside Ave East Suite 2, Cleveland, OH 44114	
Cutting Operation		2003-104Q
Drilling or Punching Operation		2003-104Q



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Product	Name	Ref. No.
STEWK 15 Steelworks, Inc., P.O. Box 390, 2335 Toledo Ave., Trenton, MI 48183		
Bending Operation		2001-071Q
Cutting Operation		2001-071Q
Drilling or Punching Operation		2001-071Q
Grinding Operation		2001-071Q
STRMS 15 Struthers Metal Service, Inc., 2800 Intertech Drive, Youngstown, OH 44509 http://struthersmetalserviceinc.com/		
Cutting Operation		2014-242Q
SUMSM 15 Summit Steel & Manufacturing Company, 1005 Patriot Parkway, Reading, PA 19605 http://summitsteelinc.com/		
Fabrication of JJ-Hooks connector plate assembly only		2011-049Q
SUSTR 15 Summit Utility Structures, 2027 South 12th Street, Bldg 504, Allentown, PA 18103 http://summitutilitystructures.com/		
Bending Operation		2015-123Q
Cutting Operation		2015-123Q
Drilling or Punching Operation		2015-123Q
Grinding Operation		2015-123Q
Press Brake (Tubular)		2015-123Q
SVPRO 15 Steel Valley Processing, LLC, 3710 Hendricks Road, Youngstown, OH 44515		
Bending Operation		2016-032Q
Cutting Operation		2016-032Q
Drilling or Punching Operation		2016-032Q
Grinding Operation		2016-032Q
TBRSA 15 T. Bruce Sales, 9 Carbaugh Street, West Middlesex, PA 16159 http://tbrucesales.com/tbrucesales_3_010.htm		
Bending Operation		----
Cutting Operation		----



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Product	Name	Ref. No.
TEKT1 15	Tektonics Design Group, LLC, 702 East 4th Street, Richmond, VA 23224	
Facility	702 East 4th Street Richmond, VA 23224	
	Cutting Operation	2015-114Q
	Drilling or Punching Operation	2015-114Q
	Grinding Operation	2015-114Q
THOMC 15	Thompson Machine Company, 1128 N. Fourth Ave., Altoona, PA 16601	
	Bending Operation	----
	Cutting Operation	----
	Drilling or Punching Operation	----
	Grinding Operation	----
TIMMA 15	Time Machine, Inc., 1746 Pittsburgh Road, Polk, PA 16432 http://www.timemachinepa.com/	
	Bending Operation	2000-329Q
	Cutting Operation	2000-329Q
	Drilling or Punching Operation	2000-329Q
	Grinding Operation	2000-329Q
TOLSS 15	Toledo Steel Supply, Inc., 222 LaVoy Road, Erie, MI 48133 http://toledosteel.net/	
	Cutting Operation	2014-131Q
	Grinding Operation	2014-131Q
TRIM1 15	Metal Traders, Inc. DBA Triad Metals International, 1951 Bessemer Rd., Petersburg, VA 23805 http://metaltrader.com/	
	Cutting Operation	2009-062Q



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Product	Name	Ref. No.
TRIM2 15	Metal Traders, Inc. DBA Triad Metals International, 3480 Grand Avenue, Pittsburgh, PA 15225-1508 http://triadmetals.com/triad-locations/pittsburgh-pa-campus/	
Cutting Operation		----
Drilling or Punching Operation		-
Grinding Operation		-
TRISB 15	Tristate Bolt Company, 1110 Fuller Drive, Garrett, IN 46738 http://www.tristateboltinc.com/	
Bending Operation		2012-249Q
Cutting Operation		2012-249Q
Drilling or Punching Operation		2012-249Q
Grinding Operation		2012-249Q
TULSA 15	Tulsa Tube Bending, 4192 S Galveston Avenue, Tulsa, OK 74107 https://ttb.com/	
Induction Bending Operation		2022-269Q
UMCI1 15	Unverferth Manufacturing Co., Inc., P.O. Box 357, 601 S. Broad Street, Kalida, OH 45853 https://www.unverferth.com/	
Cutting Operation		2018-245Q
Drilling or Punching Operation		2018-245Q
UNIIS 15	Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062 http://www.uisutah.com/uis2011/	
Bending Operation		2011-063Q
Cutting Operation		2011-063Q
Drilling or Punching Operation		2011-063Q
Grinding Operation		2011-063Q



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	Product	Name	Ref. No.
VAL-2 15 Facility	Valmont Industries, Inc., 15000 Valmont Plaza, Omaha, NE 68154	http://www.valmont.com/	
	Bending Operation		2008-197Q
	Cutting Operation		2008-197Q
	Drilling or Punching Operation		2008-197Q
	Grinding Operation		2008-197Q
VERIN 15	Vertech International, Inc., 420 Station Road, Quakertown, PA 18951	http://www.vertechinternational.com/	
	Bending Operation		2011-248Q
	Cutting Operation		2011-248Q
	Drilling or Punching Operation		2011-248Q
	Grinding Operation		2011-248Q
VICFC 15	Vicon Fabricating Company, 7200 Justin Way, Mentor, OH 44060	http://viconfab.com/	
	Bending Operation		2009-008Q
	Cutting Operation		2009-008Q
	Drilling or Punching Operation		2009-008Q
	Grinding Operation		2009-008Q
VOSMA 15	Voss Manufacturing, Inc., 2345 Lockport Road, Sanborn, NY 14132	http://vossmfg.com/	
	Bending Operation		----
	Cutting Operation		----
	Drilling or Punching Operation		----
	Grinding Operation		----



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Product	Name	Ref. No.
WALLO 15 Walter Long Manufacturing Company, Inc., 86 Walter Long Road, Finleyville, PA 15332 http://www.walterlongmanufacturing.com/index.html		
Bending Operation		2003-010Q
Cutting Operation		2003-010Q
Drilling or Punching Operation		2003-010Q
Grinding Operation		2003-010Q
WATSP 15 Watson Steel Products, Inc., 264 Mystic Ave., Buffalo, NY 14206 http://www.watsonsteelproducts.com/		
Cutting Operation		2006-004Q
Drilling or Punching Operation		2006-004Q
WECAL 15 Wecall, Inc., 64 Penniman Road, Orwell, OH 44076 http://www.wecallinc.com/		
Cutting Operation		2011-154Q
Drilling or Punching Operation		2011-154Q
Grinding Operation		2011-154Q
WHICO 15 L. C. Whitford Company, 164 North Main Street, P.O. Box 663, Wellsville, NY 14895 http://www.lcwhitford.com/		
Cutting Operation		2017-120Q
Drilling or Punching Operation		2017-120Q
Grinding Operation		2017-120Q
WHIFB 15 White Fabrication, Inc., 724 Avenue W, Birmingham, AL 35214 http://whitefab.com/		
Cutting Operation		----
Drilling or Punching Operation		----
WILMI 15 Willbanks Metals, Inc., 1155 N. E. 28th Street, Fort Worth, TX 76106 http://www.willbanksmetals.com/ Facility 2678 Harvard Avenue Tulsa, OK 74115		
Bending Operation		2014-170Q
Cutting Operation		2014-170Q
Press Brake (Tubular)		2014-170Q



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Product	Name	Ref. No.
WINME 15	Winchester Metals, Inc., 195 Ebert Road, Winchester, VA 22603 http://winchestermetals.com/	
Fabrication of JJ-Hooks connector plate assembly only		2010-309Q
Fabrication of JJ-Hooks connector plate assembly with attached welded reinforcement, including Deflection Limiter and Bolt Down Bar		2015-054Q
YOU-1 15	Youngstown Pipe & Steel, LLC, 4100 Lake Park Road, Youngstown, OH 44513 http://yopipe.com/	
Cutting Operation		2002-114Q
Drilling or Punching Operation		2002-114Q
YOU-2 15	Youngstown Pipe & Steel, LLC, 45 S Montgomery Ave., P.O. Box 3467, Youngstown, OH 44506 http://yopipe.com/	
Cutting Operation		2012-111Q
Drilling or Punching Operation		2012-111Q
Grinding Operation		2012-111Q