

Architectural Glass Products





Our product line

Insulating glass Ceramic frit or silicone spandrel glass Silkscreened glass Laminated glass Privacy glass Bullet-resistant glass Heat-treated glass Heat-soaked test Bent Glass Glass doors and partitions Structural glass systems Integrated blinds Water repellent protective coating Heated Glass

A full line of value-added glass under the same roof

Every project is unique and comes with its own challenges. Whether requiring superior energy performance, meeting sustainable building requirements, providing personal safety and protection or in the interest of innovative design, Prelco has the solution for any design challenge. Our complete product line and technical expertise lets you realize all your projects, from the simplest to the most complex.

A team of qualified experts

At Prelco, we believe that our commitment to glass industry professionals goes far beyond supplying glass. We also believe in providing all the technical support you need in your glazing projects.

Whether you need advice on the kind of glass that best meets your needs, technical support when writing a specification or help developing new products, you can turn to us for innovative solutions.

Put the know-how of our experts to work for you - together we can help make your vision clear.

A company at your service for over 50 years

When Lionel Dubé opened a small glass shop in 1953, he could never have imagined that a half-century later the company would become a leader in the North American glass industry.

Prelco has come a long way. Ongoing investments in Research and Development and the acquisition and development of cutting-edge technology have allowed the company to diversify its product line and to specialize in the production of value-added glass.



1953: Lionel Dubé opened a small glass shop.

The experience gained over the years has given Prelco a solid foundation that enables us to put our tradition, art and high technology at your service.





Visit our website at www.prelco.ca for more information on all of our products, and download our free detailed brochures. Our Thermaspec calculating tool lets you calculate the energy performance of an endless combination of our high-performance insulating glass products.



SUPPLY

Prelco's suppliers are among the world's leading glass manufacturers. These many different sources give you access to hundreds of different products, including the latest products on the market.







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Glass Technology Since 1883

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430 Park Avenue Location : New-York City, NY Architect : Moed De Armas Arch.

visit our web site www.prelco.ca



Las Olas - River House Location: Fort Lauderdale, FL Architect: Sieger Suarez Architectural Partnership

INSULATING GLASS

THERMALITE

Insulating glass is a hermetically sealed assembly of two or three lites of glass separated by a space of dehydrated air. Sealed units can increase the energy performance of a building's windows to reduce heating and cooling costs.

Changing the quantity, type or thickness of the components of an insulating glass unit allows us to design windows that have specific properties. The combination of these various components can enhance the energy or structural performance of a window, meet safety standards or modify its appearance.

CHOICE OF COMPONENTS

Glass:

- Clear
 - Anti-reflective
 - Self-cleaning

• Low-e

• Reflective

• Ultraclear

• Tinted

Production process: • Tempered

- Silkscreened
- Heat-strengthened Bent
- Laminated
- Water repellent protective coating

Primary seal:

• Black or grey polyisobutylene

Secondary seal:

• Urethane • Black or grey silicone

Spacer:

Aluminum
Black or grey warm-edge

Air space:

- Air
- Argon



Visit our website at **www.prelco.ca** for more information on all of our products, and download our free detailed brochures. Our Thermaspec calculating tool lets you calculate the energy performance of an endless combination of our high-performance insulating glass products.

Minimum size *	Maximum size*
6" X 12" (150 X 300 mm)	96" X 144" (2440 X 3660 mm)

*Some conditions may apply. Contact us with inquiries.

OPTIMIZATION OF ENERGY PERFORMANCE

The use of high energy performance glass such as tinted, low-e or reflective glass has a significant impact on a building's energy consumption. In addition to reducing thermal exchange, this glass also helps maintain the comfort level of occupants and controls the formation of condensation on the glass surface.



Low-e coating can be applied to clear, tinted and even silk screened glass * The low-e coating applied to surface 2 gives a higher solar heat gain coefficient.

INSULTING GLASS UNIT PERFORMANCE DATA¹

Outboard Lite Coating on the #2 surface	% Visible Light Transmittance	% Visible Light Reflectance	U-Value Winter	Solar Heat Gain Coefficient	Light to Solaı Gain
Clear	78	15	0.47	0.70	1.11
Clear Laminated ²	79	14	0.47	0.67	1.17
Standard Low-E	73	16	0.33	0.62	1.18
High Performance Low-E	62	11	0.29	0.28	2.25
Silkscreened Lines 50%	52	22	0.47	0.52	0.99
Standard Tint	45	8	0.47	0.50	0.90
High Performance Tint	38	7	0.47	0.38	1.00
Reflective	19	12	0.47	0.35	0.54

1: Insulating glass unit with 1/4" (6mm) outboard lite / 1/2" (12.7mm) airspace / 1/4" (6mm) inboard clear glass.

2: Laminated glass with 2.7mm clear glass / .030" clear PVB / 2.7mm clear glass.

3: Silkscreened pattern applied on clear glass.

STANDARDS

ASTM E 2190 – Insulating glass unit performance and evaluation

GANA Glazing Manual - Glass Association of North America

IGMA (Insulating Glass Manufacturers Alliance) - Standardization Program



Queens Borough Library

Location: New-York City, NY Architect: Polshek and Partners Arch.

SPANDREL GLASS

Spandrel glass is an opaque panel used in the non-vision sections of a curtain wall. These panels are placed between the transparent window sections and serve to hide structures that could be seen from the outside. Spandrel glass is available in insulating glass units, monolithic or laminated glass. Depending on the colors used, spandrel glass can be chosen to harmonize or contrast with the adjacent vision glass.

CHOICE OF COATING

CERAMIC FRIT: A ceramic coating is applied to the glass by a roller coater process. The glass is then heat treated to fuse the ceramic to the surface of the glass. Ceramic frit is highly resistant to scratching and fading. Prelco uses ceramics that present no danger to the environment.

OPACI-COAT-300®: An environmentally friendly siliconebased coating. Once applied, it forms an elastomeric film that holds glass shards in place in case of breakage. It comes in an unlimited range of custom colors.

PREL-DESIGN

The principle of silkscreened glass is the application of a ceramic frit coating by silkscreen process, making it possible to apply the ceramic to the entire surface of the glass or to create a pattern. Designers can chose from standard or custom patterns. The glass is then heat treated to fuse the ceramic to the surface of the glass. Prelco offers a wide range of environmentally friendly opaque or translucent ceramics.

Colors or patterns can be chosen to vary the level of light transmission and heat gain in a building. Silkscreened glass provides enhanced privacy while adding a decorative effect.

	Minimum size *	Maximum size*
WITHOUT JOINT	13" X 16" (330 X 406 mm)	58 3/4" X 150" (1492 X 3810 mm)
WITH JOINT	13" X 16" (330 X 406 mm)	96" X 156" (2438 X 3962 mm)

*Some conditions may apply. Contact us with inquiries.



Opaci-Coat-300® coating may be specified in most any color found on a color chart.

	Minimum size *	Maximum size*
OPACI-COAT-300®	13" X 16" (330 X 406 mm)	78" X 144" (1981 X 3658 mm)
CERAMIC FRIT	13" X 16" (330 X 406 mm)	96" X 156" (2438 X 3962 mm)

*Some conditions may apply. Contact us with inquiries.

STANDARD PATTERNS

STANDARDS

ASTM C1036 – Flat glass

ASTM C1048 -

CAN/CGSB 12.1 – Tempered or laminated

CAN/CGSB 12.9 – Spandrel glass

STANDARDS

ASTM C1048 -

CAN/CGSB 12.1 – Tempered or laminated

safety glass

ASTM C1036 - Flat glass

Heat-treated flat glass

safety glass

Heat-treated flat glass



Dots: 1/8" (3mm) dots on 1/4" (6mm) centre to centre covering 40% of the glass surface

		/
1		

Lines: 1/8" (3mm) lines on 1/4" (6mm) centre to centre covering 50% of the glass surface



Holes: 1/8" (3mm) holes on 1/4" (6mm) centre to centre covering 60% of the glass surface



Complexe Les Ailes Location · Montréal QC Architect: Lemay & associés

PREL-LAM LAMINATED GLASS

Laminated glass is an assembly of one or more lites of glass and one or more interlayers, usually of polyvinyl butyral (PVB). This glass is treated under high pressure and intense heat. Once treated, these layers are perfectly bonded together to form a single monolithic panel of glass.

Changing the quantity, type or thickness of laminated glass components allows us to design glass products containing specific properties. The combination of these various components can enhance the energy performances or structural properties of a window, meet safety standards or modify its appearance.

Production

• Tempered

Silkscreened

• Water repellent

protective coating

• Heat-strengthened

process:

• Bent

CHOICE OF COMPONENTS

- Glass:
- Clear • Ultraclear /
- Low Iron
- Tinted
- Reflective • Low-e
- Anti-reflective
- Self-cleaning
- **Interlayers:**
- Clear or tinted PVB (polyvinyl butyral)
- Patterned PVB
- Printed PVB
- EVA (ethylene vinyl acetate)
- Urethane

SAFETY

In the case of accidental breakage, the interlayer retains the fragments of glass, minimizing the risk of personal injury or property damage from glass shards. Laminated glass is a highly effective safety glass for use in sloped applications or tall buildings. Prelco has a full range of specialized safety laminated glass such as Prel-Secur[™] – All Glass bulletresistant glass, Prel-Secur[™] – Glass and Polycarbonate and Prel-Lam HRG hurricane-resistant glass.

SOLAR CONTROL

solar heat gain.

Laminated glass can block up to 99% of UV rays that cause fading of furniture,

clothing and other objects. The use of

solar control components (interlayer and/or glass) can significantly reduce

	Minimum size *	Maximum size*
NON HEAT TREATED	4" X 4" (102 X 102 mm)	100" X 165" (2540 X 4191 mm)
HEAT TREATED	4″ X 9″ (102 X 229 mm)	96" X 165" (2438 X 4191 mm)

*Some conditions may apply. Contact us with inquiries.

SOUND CONTROL

The PVB interlayers used in the assembly of laminated glass dissipate sound wave vibrations.

Laminated glass can cut sound transmission, particularly 800 Hz frequencies and higher.

ANTI-REFLECTIVE

Once laminated, Optiview[™] glass reduces the glare of reflected light to less than 2%. This low level of reflection lets you see objects or landscapes through the window with exceptional clarity. This type of laminated glass is perfect for such applications as store windows, museums, showrooms and display cases.

APPEARANCE

The use of decorative interlayers makes it possible to create colorful and innovative glazing. These interlayers can turn any glass surface into a unique work of art while retaining all the advantages of laminated glass.

The Vanceva[™] system offers a wide range of interlayers in many different colors and patterns that can be combined to produce countless different effects. Tones range from the softest pastels to the most vibrant colors.

The SentryGlas[®] Expressions[™] system makes it possible to print digital images on the interlayers. The system can print opaque, translucent or



shaded colors, genuine or imaginary textures and photos. A single image can be printed on one glass panel or sequenced over several panels. This system also lets you chose the level of transparency.

STANDARDS

ASTM C1172 - Laminated architectural flat glass

- CAN/CGSB 12.1 Tempered or laminated safety glass
- CPSC 16 CFR-1201 Safety Standard for Architectural **Glazing Materials**

Interlavers (PVB)





PREL-LAM LC PRIVACY GLASS

Prel-Lam LC privacy glass is composed of a thin film of liquid crystal laminated between two lites of glass. The glass is connected to an electrical circuit and is controlled by a switch. The glass changes its appearance depending on the position of the switch: when switched "off" the glass is opaque; when switched "on", the glass is transparent. Privacy glass can be supplied as monolithic or as part of an insulating glass unit.

PREL-SECUR™ BULLET-RESISTANT GLASS

Prel-Secur bullet-resistant glass is composed of several layers of glass and/or polycarbonate with several interlayers of PVB and/or urethane. These windows are designed to resist firearm projectiles and are tested in compliance with UL 752 standard. Prel-Secur can be used in monolithic glass windows or insulating glass units.

This type of glass is used in buildings having a high risk of armed attack such as banks, detention centres, embassies and courthouses. Prel-Secur can be supplied as an all-glass construction or glass and polycarbonate combination.

PREL-SECUR™ ALL GLASS

Prel-Secur - All-Glass is composed of several layers of glass and PVB. These windows are economical, low maintenance and highly scratch resistant. They are designed to reduce spall from ballistic impacts.

PREL-SECUR™ GLASS AND POLYCARBONATE

Prel-Secur - Glass and Polycarbonate is composed of several layers of glass and polycarbonate with several interlayers of PVB and/or urethane. Polycarbonate is a lightweight plastic having 200 times more impact resistance than tempered glass. Prel-Secur - Glass and Polycarbonate windows are on average 40% thinner and 50% lighter than all-glass equivalents. They are designed to eliminate spall from ballistic impacts.



Prel-Lam LC ensures the privacy of occupants without the need for curtains or other window treatments. It also reduces glare while blocking UV rays.

Glass thicknesses	Lam. 1/4" (6 mm): 1/8 / .060 / 1/8 (3 mm / .060 / 3 mm) Lam. 1/2" (12 mm): 1/4 / .060 / 1/4 (6 mm / .060 / 6 mm)
Minimum size*	4" X 4" (102 X 102 mm)
Maximum size*	39" X 106" (990 X 2692 mm)

*Some conditions may apply. Contact us with inquiries.



The Courts at Brickell Location: Miami, FL

Architect: J. Scott Architecture

PREL-SECUR - ALL GLASS							
Durdent UL 752		Wagner	Nominal	Weight	Maximum	Tolerance	
FIOUUCI	Level ¹	weapon	thickness	lbs/sq ft	size ²	Dimensional	Thickness
PS1188V	1	9 mm	1 3/16″	14.95	60″ X 96″	±1/4"	+1/16" -1/8"
PS1500V	2	.357 Magnum	1 1/2″	18.30	60″ X 96″	±1/4"	+3/16" -0"
PS2430V	3	.44 Magnum	2 7/16″	30	60″ X 96″	±1/4"	+3/16" -0"
PS2000V	4	.30.06	2″	25.20	60″ X 96″	±1/4"	+3/16" -0"
PS2125V	5	7.62 mm	2 1/8″	26.20	60″ X 96″	±1/4"	+3/16" -0"
PS1840V	6	9 mm	1 27/32″	23	60″ X 96″	±1/4"	+3/16" -0"

PREL-SECUR - GLASS AND POLYCARBONATE

Duaduat	UL 752	Wennen	Nominal Weight Maximum		Maximum	Tolerance	
Product	Level ¹	vveapon	thickness	lbs/sq ft	lbs/sq ft size²	Dimensional	Thickness
PS750P-NS	1	9 mm	11/16″	7.15	60″ X 96″	±3/16″	±1/16″
PS938P-NS	2	.357 Magnum	15/16″	10.15	60″ X 96″	±3/16″	±3/32″
PS1188P-NS	3	.44 Magnum	1″	10.70	60″ X 96″	±3/16″	±3/32″
PS1250P-NS	4	.30.06	1 1/4″	13.60	60″ X 96″	±3/16″	±3/32″
PS1500P-NS	5	7.62 mm	1 1/2″	16.70	60″ X 96″	±3/16″	±3/32″
PS900P-NS	6	9 mm	29/32″	9.40	60″ X 96″	±3/16″	±3/32″
PS2000P-NS	7	5.56 mm	2″	24	60″ X 96″	±3/16″	±3/32″
PS2060P-NS	8	7.62 mm	2 1/16″	24	60″ X 96″	±3/16"	±3/32″

1: Tested to the UL 752 Ballistic Rating

2: Panel weight should not exceed 700 lbs



Great Library of Québec Location: Montréal, QC Architect: Menkès Shooner Dagenais Letourneux Arch.

PREL-GARD HEAT-TREATED GLASS

The heat-treating process consists of heating glass in a high-temperature furnace (1150°F /621°C) then rapidly cooling it by blowing air on both surfaces. This cooling process locks the surfaces of the glass in a state of compression and the central core in compensating tension. Depending on the treatment cycle, the glass is heat-strengthened or fully tempered. Heat-treated glass retains its color, chemical and light transmission properties after treatment.

TEMPERED GLASS

Tempered glass is approximately four times stronger than annealed glass of the same thickness. Under impact, it shatters into small fragments that are not sharp, minimizing the risk of serious injury. Tempered glass meets safety glazing standards.

HEAT-STRENGTHENED GLASS

Heat-strengthened glass is approximately twice as strong as annealed glass of the same thickness. Heat-strengthened glass has greater resistance to wind loads and thermal stress but should not be considered as a safety glass.

Note: Some degree of bow, warp, roller wave distortion and strain pattern are inherent characteristics of heat-treated glass. Industry fabrication requirements, product tolerances and testing procedures for heat-treated glass are defined in the ASTM C1048 and the CAN/CGSB 12.1 standards.

Minimum size *	Maximum size*
4" X 9" (102 X 229mm)	96" X 196" (2438 X 4978mm)

*Some conditions may apply. Contact us with inquiries.

STANDARDS

ANSI Z97.1 - Safety glazing materials used in buildings

ASTM C1036 – Flat Glass

ASTM C1048 – Heat-treated flat glass

CAN/CGSB 12.1 - Tempered or laminated safety glass

CPSC 16 CFR-1201 – Safety Standard for Architectural Glazing Materials



Spontaneous breakage in thermally tempered glass due to nickel sulfide inclusion

PREL-GARD HST HEAT-SOAKED TEST

During the manufacturing of glass, impurities that are difficult to detect may be introduced into the raw material. One of these substances is nickel sulfide. In this case, stress due to the tempering process will cause the nickel sulfide inclusions to expand. This expansion can cause the spontaneous breakage of tempered glass.

The heat-soaked test involves heating the glass to 554 ± 18 °F (290 ± 10 °C) for a given period of time, then slowly cooling it. This process accelerates the expansion of nickel sulfide inclusions. The purpose of this test is to identify glass which may contain a high incidence of inclusions, thus reducing the incidence of spontaneous breakage when installed.





PREL-FORM BENT GLASS

Glass is bent by placing a lite of flat glass on a convex or concave mold and heating it to its deformation point. Under the effect of gravity, the lite of glass gradually takes the shape of the mold until the desired bend radius is reached. Prel-Form comes in thickness of 1/4" to 5/8" (6 to 15mm). Prel-Form bent glass can be annealed, tempered or laminated. It can also be silkscreened and/or assembled in an insulating glass unit.



A: Outside girth C: Outside chord F: Inside depth L: Lenght R: Outside radius T: Glass thickness

Bent glass is an excellent alternative to conventional flat glass. It has multiple interior or exterior applications. Its versatility and graceful curves let designers turn any structure into a work of art.

APPLICATIONS

- Guardrails
- Skylights
- Interior partitions
- Curtain walls
- Glass elevators
- Works of art

STANDARDS

ASTM C 1464 – Standard Specification for Bent Glass



PREL-GARD SYSTEMS GLASS DOORS AND PARTITIONS

Prel-Gard systems by Prelco make it possible to create glass doors and partitions having no frames and a minimum of hardware. These doors and partitions can be made of clear, ultraclear or tinted glass in 3/8", 1/2" or 5/8" (10,12 or 15mm) thicknesses, supported by patches, continuous rails or a combination of systems. A wide selection of hardware is offered in a choice of brushed or polished finishes.









TYPES OF DOORS AND SIDELITES

Prel-Gard systems let you design unobtrusive glass

doors and partitions suitable for traditional or

- Swinging doors
- Folding doorsSliding doors

contemporary decor.

- Shower doors
- and enclosures

FINISHES AVAILABLE

- Clear anodized
- Light bronze anodized
- Medium bronze anodized
- Black anodized

APPLICATIONS

- Stores
- Hotels
- Office buildings
- Museums

- Stackable doorsSidelights and
- fixed partitions

Multimedia City, Phase 8 Location: Montréal, QC Architect: Menkès Shooner Dagenais Letourneux Arch.

- · Brushed stainless steel
- · Polished stainless steel
- Polished chrome
- Polished brass
- Private homes
- Convention Centers
- Restaurants
- Schools



Caisse de Dépôt et de Placement du Québec Location: Montréal, QC Architect: Gauthier Daoust Lestage / Faucher Aubertin / Brodeur Gauthier / Lemay et associés

PREL-POINT STRUCTURAL GLASS SYSTEM

The Prel-Point system makes it possible to create façades without mullions. The system consists of an assembly of glass panels with holes drilled into the glass and anchors using bolts, screws and spider fittings. These anchors fasten the glass panels to the back-up structure. Facades can be made of monolithic, laminated glass or insulating glass units. The load bearing structure can be made of glass fins, steel tubes or trusses, or a net cable system.

Prel-Point facades are designed according to plans by qualified engineers. They have the resistance and structural integrity required to resist permanent loads as well as additional loads caused by climatic and seismic conditions.

The airy and expansive glass surfaces created with the Prel-Point system let you make the most of the transparency of glass.

VENILITE INTEGRATED BLINDS

The Venilite system consists of a horizontal blind hermetically sealed between two lites of glass. The blind is controlled by a pair of rotational magnets. By using this system, the unit's seal in not compromised, and its integrity is fully maintained. The use of slats that are 1/2" (12.7 mm) wide makes it possible to assemble sealed units having an internal air space as thin as 25/32" (19.8 mm). These thin sealed units can be installed in most standard frames.

Venilite blocks sunlight and limits heat gain while protecting the privacy of occupants.

COLORS OF SLATS :

Tan #69





Due to reproduction and printing limitations, colors above may vary. Contact us for actual color samples.





	Minimum size *	Maximum size*
TILT SLATS	14" X 20" (356 X 508 mm)	80" X 106" (2032 X 2692 mm)
TILT AND LIFT SLATS	14" X 20" (356 X 508 mm)	See note ²

*1: Some conditions may apply. Contact us with inquiries.

**?: The maximum size for insulating glass unit with tilt and lift slats are determined by the total weight of the slats to be lifted. Contact us with inquiries.



NANO-FUSION[™] WATER REPELLENT PROTECTIVE COATING

Nano-Fusion is a patented protective coating that fills in and covers the microscopic craters on the outer layers of glass, giving it long-lasting resistance to water buildup and increased scratch resistance. Water drops in contact with glass protected by Nano-Fusion bead up and run off, leaving the surface easier to clean. Nano-Fusion is factory-applied

in a chamber using a chemical vapour process. Nano-Fusion can be applied to most types of monolithic glass or insulating glass units.



Glass protected by Nano-Fusion is easy to clean and reduces maintenance time. It also reduces the use of harmful cleaning products.



Prel-Therm heated glass consists of a double glazed unit of which one pane has a thin metal oxide coating connected to an electrical power source using electrodes. When switched off, it acts like regular insulating glass. When switched on, the conductive coating converts electric energy into heat.

COMFORT

Prel-Therm heated glass eliminates the discomfort often felt near cold glass. Prel-Therm also eliminates the thermal radiation and convection that creates the sensation of a cold draft.



APPLICATIONS

- Curtain walls on commercial and institutional buildings
- · Solariums, greenhouses and skylights
- Shower enclosures
- Guardrails
- Canopies
- Glassed-in porches
- · Glass tabletops and countertops

Maximum size*	
Monolithic glass	96" X 196" (2438 X 4978 mm)
Insulating glass	96" X 144" (2438 X 3658 mm)

*Some conditions may apply. Contact us with inquiries

CONDENSATION AND FROST CONTROL

Condensation on the inside of windows occurs when the temperature is below the dew point of the air indoors. By keeping the surface temperature above this dew point, Prel-Therm heated glass completely eliminates condensation and frost on inside panes.

APPLICATIONS

- Curtain walls on commercial and institutional buildings
- · Solariums, greenhouses and skylights
- Store and restaurant windows
- Indoor pools and hot tubs
- · Commercial and residential doors and windows
- Medical and other health care facilities

Minimum size *	Maximum size*
14" X 20" (356 X 508 mm)	60" X 120" (1524 X 3048 mm)

*Some conditions may apply. Contact us with inquiries.



National Circus School Location: Montréal, QC Architect: Lapointe, Magne et Associés



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www.prelco.ca

CAN: 1 800 463-1325 US: 1 888 277-3526

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