



PREL-GARD TEMPERED GLASS

The heat tempering process consists of heating a glass and then rapidly cooling it by blowing air onto its two surfaces. The cooling process locks the surfaces into a state of compression and the central core into compensating tension.

Tempered glass is four times stronger than annealed glass. In case of breakage, tempered glass shatters safely into small, blunt fragments, minimizing the risk of personal injury.

VALIDATED ECO-DECLARATION

PRODUCT SPECIFICATIONS

References
Prel-Gard

Final manufacturing location
St-Jacques, N-B E7B 1Y4
Rivière-du-Loup, QC G5R 2M9
CANADA

Composition
Glass and optional ceramic coating.

ATTRIBUTES

Recycled content
Pre-consumer: 0%
Post-consumer: 0%

Sourcing of raw materials
Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.

Certified Wood -

Rapidly renewable materials -

Biobased materials -

ENVIRONMENTAL IMPACTS

Life Cycle Assessment June 2021

Reference service life -

Product's carbon footprint -

Environmental Product Declaration
Product-specific (EPD) Type III
ISO 14025:2006
November 2023 to November 2028

INGREDIENTS AND EMISSIONS

Declaration of chemical ingredients -

Type of declaration -

Emissions test -

VOC -

Formaldehyde -

Others -

TECHNICAL PERFORMANCES

Performances test

ANSI Z97.1 - Safety glazing materials used in buildings
ASTM - C1048 - Heat-treated flat glass
CAN/CGSB 12.1 class 1 and 2 - Tempered or laminated safety glass
CPSC 16 CFR 1201 class 1 and 2 - Safety Standard for Architectural Glazing Materials.

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT

ISO 14001 Certification -

Extended Product Responsibility -
(Take Back Program)

Corporate Sustainability Report -
(CSR: GRI, ISO 26000, BNQ 21000 or others)

CERTIFICATIONS AND CONFORMITIES



Prelco is a specialist in the manufacturing of complex and innovative glass solutions enabling us to meet our customers requirements in the architectural, transportation and recreational boating markets. Prelco relies on its expertise of more than 65 years in the business, in the quality of its highly skilled workforce and on its high-tech production equipment.

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Master Format: **08 80 50**
Validated Eco-Declaration: **VED18-1034-01**
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Period of validity: **2023/06 to 2024/06**

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ENVIRONMENTAL DATA SHEET

PREL-GARD TEMPERED GLASS



PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction, Core and Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	Building Product Disclosure and Optimization – Environmental Product Declaration (EPD) Option 1: Environmental Product Declaration (1 point) The product contributes to this credit due to the availability of a product specific EPD (Type III) and are valued as 1 whole product out of the 20 needed for the purposes of credit achievement.	Contribute	ENVIRONMENTAL IMPACTS Product-specific (EPD) Type III Compliant to ISO 14025:2006
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) For the product category, walls, thermal and acoustical insulation, 100% of all products must meet the requirements.	-	INGREDIENTS AND EMISSIONS Glass is excluded from the scope of this credit. Moreover, glass is an inherently non-emitting source.
EQ	Daylight Design to maximize daylight (1-3 points) Consider how best to allocate interior space to ensure that daylight is available in all regularly occupied spaces. Enclosure design and furniture selection will affect daylight penetration. Possible design strategies include the following: Use transparent partitions or interior glazing to provide daylight to enclosed spaces. Unlike the BD+C rating system, ID+C rating system includes any permanent interior obstructions as well as moveable furniture and partitions.	Contribute	TECHNICAL PERFORMANCES Within an assembly, Prel-Gard Tempered Glass may contribute to this credit if design choices are coherent with the credit.
PILOT CREDIT		PRODUCT CONTRIBUTIONS	
PC	Pilot Credit 55- Bird Collision Deterrence (1 point) Reduce bird injury and mortality from in-flight collisions with buildings.	Contribute	Within an assembly, Prel-Gard Tempered Glass with bird-safe design may contribute to this pilot credit.

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED® credits.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including a desktop audit of the factory data, also an audit of the manufacturer's supply chain documentation, the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, compilation and/or interpretation of data.

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