



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	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
References Prel-Gard	Life Cycle Assessment June 2021	Performances test ANSI Z97.1 ASTM - C1048 CAN/CGSB 12.1 class 1 and 2 CPSC 16 CFR 1201 class 1 and 2
Final manufacturing location St-Jacques, N-B E7B 1Y4 Rivière-du-Loup, QC G5R 2M9 CANADA	Reference service life -	
Composition Glass and optional ceramic coating.	Product's carbon footprint -	
	Environmental Product Declaration Product-specific (EPD) Type III ISO 14025:2006 November 2023 to November 2028	
ATTRIBUTES	INGREDIENTS AND EMISSIONS	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
Recycled content Pre-consumer: 0% Post-consumer: 0%	Declaration of chemical ingredients -	ISO 14001 Certification -
Sourcing of raw materials Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.	Type of declaration -	Extended Product Responsibility - (Take Back Program)
Certified Wood -	Emissions test -	Corporate Sustainability Report - (CSR: GRI, ISO 26000, BNQ 21000 or others)
Rapidly renewable materials -	VOC -	CERTIFICATIONS AND CONFORMITIES
Biobased materials -	Formaldehyde -	
	Others -	

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 70 years in the business, in the quality of its highly skilled workforce and on its high-tech production equipment.

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ENVIRONMENTAL DATA SHEET

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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 is valued as 1 whole product out of the 20 needed for the purposes of credit achievement calculation.	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, at least 75% by cost or surface area of all products must meet the requirements.	Does not contribute	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.
INNOVATION		PRODUCT CONTRIBUTIONS	
IN	Bird Collision Deterrence (1 point) For all exterior lighting, meet uplight and light trespass requirements in the LEED SS credit Light Pollution Reduction. AND Reduce bird injury and mortality from in-flight collisions with buildings. (LEED v4.1 only)	Contribute	Within an assembly, Prel-Gard Tempered Glass with bird-safe design may contribute to this credit, provided that the design choices are consistent with the credit requirements.

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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