



MILTON LIGHTWEIGHT BLOCK (WITH AND WITHOUT GLASS POWDER)

Lightweight block is a masonry element used in any type of building construction and is particularly used indoors as a separating wall between two rooms or as a back-wall for exterior brick masonry or stonework. It is very sturdy, durable, economical and available in different formats. Permacon's concrete block is now offered with glass powder as a supplementary cementing material, which makes it an asset for sustainable development.

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCE
References Milton Lightweight Block Milton Lightweight Block, with glass powder	Life Cycle Assessment November 2017 Product's carbon footprint November 2017	Performance tests CSA A165.1
Final manufacturing location Milton, ON L9T 2X7 CANADA	Environmental Product Declaration Specific November 2017- ISO 14025:2006 November 2021	Expected life -
Composition Aggregate, Type HE cement, Slag cement or glass powder, admixture.	INGREDIENTS AND EMISSIONS	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	Declaration of chemical ingredients 1,000 ppm	ISO 14001 Certification -
Recycled Content Pre-consumer: 65.8% - 69.8% Post-consumer: 0% - 4.0%	Type of declaration HPD® version 2.1.1 <i>In progress</i>	Extended Producer Responsibility (Take Back Program) -
Sourcing of raw materials The extraction locations for raw materials have been documented to 87.6% of the final product components, based on weight ratio.	Emission test -	Corporate Sustainability Report (CSR: GRI, ISO 26000, BNQ 21000 or others) -
FSC® Certification -	VOCs -	CERTIFICATIONS AND CONFORMITIES
Rapidly renewable materials -	Formaldehyde -	
Biobased materials -	Other -	

As a leader in concrete products in Canada, Permacon supports you in all your new construction or renovation projects. Permacon's pavers, sleeper walls, patio block, exterior steps, concrete curbs, stones and bricks are the solution to all your landscaping design ideas and exterior masonry projects.

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Revision date: **2017/11**
Period of validity: **2019/09 to 2020/09**



ENVIRONMENTAL DATA SHEET

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PRODUCT CONTRIBUTION SUMMARY

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

New Construction, Core and Shell, School, 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 Declarations (1 point) Milton lightweight block, with glass powder 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 with ISO 14025:2006.
			ATTRIBUTES Recycled Content Pre-consumer (65.8% - 69.8%) Post-consumer (0% - 4.0%) (see page 2)
MR	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 2: Leadership extraction practices (1 point) May also contribute to the location valuation factor if the product is sourced (extracted, manufactured, purchased) within 160 km of the project site ¹ The pre-consumer recycled content applies to Milton lightweight block, with and without glass powder. Post-consumer recycled content applies to Milton lightweight block, with glass powder only.	Contribute ¹	INGREDIENTS AND EMISSIONS HPD® version 2.1.1 Health Product Declaration® <i>In progress</i>
			ATTRIBUTES Recycled Content Pre-consumer (65.8% - 69.8%) Post-consumer (0% - 4.0%) (see page 2)
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) Milton lightweight block, with and without glass powder contributes to this credit due to the availability of Health Product Declarations® and is valued as 1 whole product out of the 20 needed for the purposes of credit achievement calculation.	Contribute	INGREDIENTS AND EMISSIONS HPD® version 2.1.1 Health Product Declaration® <i>In progress</i>
			ATTRIBUTES Recycled Content Pre-consumer (65.8% - 69.8%) Post-consumer (0% - 4.0%) (see page 2)
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) Number of points is dependent on the LEED® rating system and the number of compliant categories.	Contribute ²	INGREDIENTS AND EMISSIONS ² Concrete is an inherently non-emitting source.
			ATTRIBUTES Recycled Content Pre-consumer (65.8% - 69.8%) Post-consumer (0% - 4.0%) (see page 2)

LEED® v4 requirements for homes

Applies to single family homes, multi-family (one to three stories), or multi-family (four to six stories) homes. Include low-rise and mid-rise homes.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR Credit 2	Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project. Option 1: Local Production ³ Framing, concrete (cement and aggregates) and drywall may contribute to the location valuation factor if the product is sourced (extracted, manufactured, purchased) within 160 km of the project site. AND/OR Option 2: Environmentally Preferable Products The Milton lightweight block, with and without glass powder, does not meet the criteria for this option. Concrete must be composed of at least 30% of fly ash or slag as a substitute for cement and 50% recycled or recovered aggregate. Otherwise the concrete must be composed of 90% of recycled content or recovered aggregate.	Contribute ³	ATTRIBUTES Recycled Content Pre-consumer (65.8% - 69.8%) Post-consumer (0% - 4.0%) (see page 2)
			ATTRIBUTES Recycled Content Pre-consumer (65.8% - 69.8%) Post-consumer (0% - 4.0%) (see page 2)

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 obtain LEED® credits.

The data included in this Environmental Data Sheet has been provided by the client and suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including an on-site audit of the factory, an audit of the manufacturer's supply chain documentation, and 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 or omissions relative to the collection, compilation and/or interpretation of data.
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