



NOBLE ARCHITECTURAL BLOCK (WITH AND WITHOUT GLASS POWDER)

Noble architectural block series are masonry units used in all types of building construction, such as exterior siding or interior partition walls (partition walls or load-bearing walls). They are very resistant, durable, economical and readily available in a multitude of formats, finishes and colors. Permacon's Noble architectural block is now offered with glass powder as 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 Noble Architectural Block Noble Architectural Block, with glass powder	Life Cycle Assessment November 2017 Product's carbon footprint November 2017	Performance tests CSA A165.1
Final manufacturing location Anjou, QC H1J 1A5 CANADA	Environmental Product Declaration Specific November 2017 - November 2021 ISO 14025:2006	Expected life -
Composition Aggregate, cement (Portland white or type HE), admixture, pigments, glass powder.	INGREDIENTS AND EMISSIONS	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	Declaration of chemical ingredients 1,000 ppm	ISO 14001 Certification -
Recycled Content Pre-consumer: 0% - 44.0% Post-consumer: 0% - 1.5%	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 99.0% 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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VED17-1076-04
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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, 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 Declarations (EPD) Option 1: Environmental Product Declarations (1 point) Noble architectural 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
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 charcoal-colored Noble architectural block. Post-consumer recycled content applies to Noble architectural block, with glass powder for all colors.	Contribute ¹	ATTRIBUTES
			Recycled Content Post-consumer (0% - 44.0%) Post-consumer (0% - 1.5%) (see page 2)
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) Noble architectural 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>

LEED® v4 requirements for homes

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

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project. Option 1: Local Production ² 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 Noble architectural bloc, with and without glass powder does not meet the criteria of 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 ²	ATTRIBUTES
			Recycled Content Post-consumer (0% - 44.0%) Post-consumer (0% - 1.5%) (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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