



SMARTCAST REFLECT SLAB

As new construction increasingly builds skyward, it is becoming more important to provide thoughtful outdoor spaces for those who live in condominiums and high rises. Permacon has a variety of rooftop paving products to create elegant, environmental and functional rooftop patios and terraces. SmartCast Clean is the most advanced sustainable rooftop paving solution available.

- 12050108 - Smartcast Reflect Slab 50mm 600x600 White

VALIDATED ECO-DECLARATION

PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
Reference 12050108 - Smartcast Reflect Slab 50mm 600x600 White	Life Cycle Assessment -	Performance tests CSA A231.1, ASTM E1980-11(2019)
Final manufacturing location Cambridge, Ontario N1R 5S3 CANADA	Reference service life -	Expected life -
Composition Aggregates, sand, cement, water, slag cement, pigment and admixture.	Product's carbon footprint -	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	Environmental Product Declaration Specific, Type III ISO 14025:2006 -	ISO 14001 Certification -
Recycled content Pre-consumer: 1.9% Post-consumer: 0%	INGREDIENTS AND EMISSIONS	Extended Product Responsibility - (Take Back Program)
Sourcing of raw materials Data collection from suppliers has been conducted for 100% of product's components.	Declaration of chemical ingredients 1,000 ppm	Corporate Sustainability Report - (CSR: GRI, ISO 26000, BNQ 21000 or others)
Certified Wood -	Type of declaration Health Product Declaration® HPD® version 2.1.1	CERTIFICATION(S) & CONFORMITIES
Rapidly renewable materials -	Emission test -	
Biobased materials -	VOCs -	
	Formaldehyde -	
	Others -	

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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<http://permacon.ca>

Master Format: **32 14 13**
Validated Eco-Declaration: **VED18-1086-03**
Original issue date: **2018/09**
Period of validity: **2019/09 to 2020/09**

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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 – Material Ingredients Option 1: Material ingredients reporting (1 point) The Smartcast Reflect Slab contributes to this credit due to the availability of a Health Product Declaration® and is valued as 1 whole product out of 20 needed for the purposes of credit achievement calculation.	Contribute	INGREDIENTS AND EMISSIONS HPD® version 2.1.1 Health Product Declaration®
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.	Contribute	ATTRIBUTES Recycled Content Pre-consumer: 1.9% Post-consumer: 0%
SUSTAINABLE SITES		PRODUCT CONTRIBUTIONS	
SS	Heat Island Reduction Option 1: Nonroof and roof (1 - 2 points) Use paving materials with a three-year aged solar reflectance (SR) value of at least 0.28. If three-year aged value information is not available, use materials with an initial SR of at least 0.33 at installation. If the percentage area of non-absorptive materials ranges between 50% and 75%, a value of 1 point is assigned. If it represents more than 75%, a value of 2 points is awarded.	Contribute	TECHNICAL PERFORMANCES The white color of the Smartcast Reflect Slab allows to reach an initial solar reflectance (SR*) of 0.719 in laboratory.

*SR = Solar reflectance. Is a measure of the constructed surface's ability to stay cool in the sun by reflecting solar radiation and emitting thermal radiation. The more the color of the material is pale, the higher the solar reflectance. In order words, a material with a pale color reflects better the solar radiation allowing it to stay cooler. A surface covered with white Smartcast Reflect slabs contributes in reducing heat island.

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 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 and omissions relative to the collection, compilation and/or interpretation of data.

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