



PANEL WITH POLYURETHANE CORE



The Norbec panel is a High-efficiency insulated panel Intended for the manufacture of walk-in coolers or and freezers. The Norbec panels offers many different applications such as cold storage, processing plants, labs, controlled atmosphere rooms and more.

All combinations are possible.

VALIDATED ECO-DECLARATION

Product's contribution to LEED® v4

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	PRODUCT SPECIFICATIONS
Reference Norbec® panel	Life Cycle Assessment March 2020	Performance tests CAN/ULC S102-M07, S138, ASTM E84
Final manufacturing location Boucherville (Québec) J4B 1K7 CANADA	Product's carbon footprint -	Expected life -
Composition Pre-painted galvanized steel, polyurethane foam, sealants.	Environmental Product Declaration Product specific, Type III April 2020- ISO 14025:2006 April 2025	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	INGREDIENTS AND EMISSIONS	ISO 14001 Certification -
Recycled Content Pre-consumer: 20.5% Post-consumer: 28.9%	Declaration of chemical ingredients 1,000 ppm	Extended Producer Responsibility - (Take Back Program)
Sourcing of raw materials The extraction locations of raw materials have been documented for 49.4% of the final product components, based on weight ratio.	Type of declaration HPD® version 2.0 Health Product Declaration®	Corporate Sustainability Report - (CSR : GRI, ISO 26000, BNQ 21000 or other)
FSC® Certification N/A	Test d'émission -	CERTIFICATIONS AND CONFORMITIES
Rapidly renewable materials N/A	VOCs 49 g/L (Sealant applied in-house or on-site)	
Biobased materials N/A	Formaldehyde None	
	Others -	

Founded in 1982, NORBEC has continued to grow and develop year after year. Specialist in the manufacture of Modular insulated panels, NORBEC has earned an enviable reputation In many sectors: supermarkets, restaurants, Food processing, refrigerated warehouses, hospitals and Research centers.

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and **13 21 13/26**

Validated Eco-Declaration:
EDV17-1061-04

Original issue date: **2012/11**

Period of validity: **2019/09** to **2020/09**

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.

ENERGY AND ATMOSPHERE		PRODUCT CONTRIBUTIONS	
EA Prerequisite 2	Minimum Energy Performance Option 1: Whole-building energy simulation or at the scale of the rental space, according to the system Option 2: Prescriptive compliance: ASHRAE 50% Advanced Energy Design Guide Option 3: Prescriptive compliance: Advanced Buildings™ Core Performance™ Guide	Contribute	TECHNICAL PERFORMANCES The Norbec® panel contributes to this prerequisite. Its polyurethane insulation has a thermal insulation factor of R-6,75 per inch of thickness.
			TECHNICAL PERFORMANCES The Norbec® panel contributes to this credit. Its polyurethane insulation has a thermal insulation factor of R-6,75 per inch of thickness.
EA	Optimize Energy Performance Option 1: Whole-building energy simulation or at the scale of the rental space, according to the system BD+C (1-20 points) and ID+C (1-25 points) Option 2: Prescriptive compliance: ASHRAE Advanced Energy Design Guide BD+C (1-6 points) and ID+C (1-16 points)	Contribute	TECHNICAL PERFORMANCES The Norbec® panel contributes to this credit. Its polyurethane insulation has a thermal insulation factor of R-6,75 per inch of thickness.
			TECHNICAL PERFORMANCES The Norbec® panel contributes to this credit. Its polyurethane insulation has a thermal insulation factor of R-6,75 per inch of thickness.
MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
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 extracted, manufactured and purchased within 160 km of the project site.	Contribute	ATTRIBUTES Recycled Content Pre-consumer (20.5%) Post-consumer (28.9%)
			INGREDIENTS AND EMISSIONS HPD® version 2.0 Health Product Declaration®
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) The Norbec® panel contributes with his Health Product Declarations® 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
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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, in all or in part, caused by errors and omissions relative to the data collection, compilation and/or interpretation. The analysis protocol used by Vertima is available on request.



ENVIRONMENTAL DATA SHEET

NORBEC® PANEL



PRODUCT CONTRIBUTION SUMMARY

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INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculations (1-3 points) Additional conditions apply for healthcare and schools. Batt insulation products may contain no added formaldehyde, including urea formaldehyde, phenol formaldehyde, and urea-extended phenol formaldehyde.	Do not contribute ¹	INGREDIENTS AND EMISSIONS
			¹ Must be tested and determined compliant to the California Department of Public Health (CDPH) Standard Method v1.1-2010. (The Norbec® panel does not contain any added formaldehyde, including urea formaldehyde, phenol formaldehyde, and urea-extended phenol formaldehyde.)

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.

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