



LOUVER / PANEL (doors and bifold)

- Regular slats
- Large slats

VALIDATED ECO-DECLARATION

PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS
Reference Louver / Panel doors (30 x 80 x 1-3/8)	Life Cycle Assessment -
Manufacturing location Berthierville, Quebec J0K 1A0 CANADA	Product's carbon footprint -
Composition Wood, MDF, HDF and finishes	Environmental Product Declaration - ISO 14025:2006, Type III
ATTRIBUTES	INGREDIENTS AND EMISSIONS
Recycled content Pre-consumer: 31.8% or 33.3% Post-consumer: 0%	Declaration of chemical ingredients 1,000 ppm
Regional content The origin and extraction location of raw materials have been documented for 97.7% of the final product weight ratio.	Type of declaration HPD® version 1.0 Health Product Declaration®
FSC® Certification -	Emission test -
Rapidly renewable materials -	VOCs 1.02 g/L - 27.8 g/L (Factory applied)
Biobased materials -	Formaldehyde CARB 93120 (phase 2) Compliant (Refer to the table on page 5 for further details)
	Others -

Product's contribution to LEED® v4

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TECHNICAL PERFORMANCES
Performance tests -
Expected life -
MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ISO 14001 Certification -
Extended Producer Responsibility (Take back program) -
Corporate Sustainability Reporting (CSR: GRI, ISO 26000, BNQ 21000 or other) -
CERTIFICATIONS AND CONFORMITY REPORTS
-

Portes Berthier Inc. (PBI) is a door manufacturer specialized in producing interior primed louvered doors and offers a complete line of stile and rail, French and Panel doors. Our focus is quality, lead time, service and special orders.

681 Melchers, Berthierville, Quebec J0K 1A0 CANADA
www.pbidoors.com

MasterFormat®: 08 14 10

Validated Eco-Declaration:

VED16-1069-03

Original issue date: **2016/05**

Period of validity: **2016/05 to 2017/05**



ENVIRONMENTAL DATA SHEET

LOUVER / PANEL DOORS



Regular slats

Large slats



Category: Louvered door

Species: Pine (primed)

Profile: Louver

Width: 1/0 - 1/2 - 1/3 - 1/4 - 1/6 - 1/8 - 1/10 - 2/0 - 2/2 - 2/4 - 2/6 - 2/8 - 2/10 - 3/0

Height: 80"

Thickness: 1-3/8 - 13/4

ATTRIBUTES

RECYCLED CONTENT

Louver / Panel doors	Weight ratio	Pre-consumer	Post-consumer
(30 x 80 x 1-3/8)	100%	31.8% or 33.3%*	0%

*The pre-consumer recycled content values may vary depending on the wood supplier. PBI Doors can provide the specific recycled content pourcentage per project.

Validated Eco-Declaration - Recycled Content

Methodology: on-site audit, supply chain evaluation, analysis and validation of the recycled content data according to the weight ratio of each of the components used in manufacturing the final product.

Vertima's procedure: VERT-032008-01, First Edition.

REGIONAL CONTENT

Weight ratio	Final manufacturing location
100%	Berthierville, Quebec J0K 1A0 CANADA

Validated Eco-Declaration - Regional Content

Methodology: on-site audit, supply chain evaluation, analysis and validation of the regional content data according to the weight ratio of each of the components used in manufacturing the final product.

Vertima's procedure: VERT-032008-02, First Edition.

Product components	Weight ratio	Extraction locations	Transportation
Pine wood - supplier 1	61.3%	Brazil	Road / Train / Boat
MDF covering - supplier 1		Brazil	Road / Train / Boat
Pine wood - supplier 2	61.3%	Maine, USA	Road
HDF covering - supplier 2		New-Brunswick, CA	Road
MDF panel	19.9%	Ontario, CA	Road
HDF slats	16.1%	Quebec, CA	Road
Finishes	2.3%	N/A	N/A
Acer Saccharum wood	0.5%	Sheboygan, WI, USA	Road

The extraction location has been documented for 97.7% of materials of the final product components, depending on the supplier, based on weight ratio.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and the 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.

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ENVIRONMENTAL DATA SHEET

LOUVER / PANEL DOORS

ATTRIBUTES (CONTINUED)

REGIONAL CONTENT (CONTINUED)



1. HARVEST LOCATIONS OF WOOD:

Pine wood-supplier 1: Brazil (not shown on the map)
Pine wood-supplier 2: Maine, USA: Pine
Wood-supplier: Wisconsin, USA : Acer Saccharum

2. EXTRACTION LOCATIONS OF MDF:

MDF covering-supplier1: Brazil (not shown on the map)
MDF panel: Ontario, CA (within 350 miles (563 km) around Sault Ste-Marie mill)

3. EXTRACTION LOCATIONS OF HDF:

HDF covering-supplier 2: New-Brunswick, CA (within 249 miles (402 km) around St-Stephen mill)
HDF slats: Quebec, CA (within 186 miles (300 km) around Mont-Laurier mill)

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Validated Eco-Declaration:
VED15-1069-03
Period of validity:
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ENVIRONMENTAL DATA SHEET

LOUVER / PANEL DOORS

INGREDIENTS AND EMISSIONS

DECLARATION OF CHEMICAL INGREDIENTS



Health Product
DECLARATION

Type of declaration: Health Product Declaration® (HPD®) version 1.0

Period of validity: April 2016 to April 2019

The content of PBI's Louver Panel doors was assessed for health hazard warnings as required using Pharos¹.

Health Product Declaration® URL: <https://builder.hpd-collaborative.org/uploads/files/hpds/1495/4253-20160420104725.pdf>

The Health Product Declaration® and logo is owned by the Health Product Declaration® Collaborative and is used with permission.

Declaration: ☒ Self-declared ☐ Third Party

Ingredients inventory threshold: 1,000 ppm

Full disclosure of intentional ingredients: Yes

Full disclosure of known hazards: Yes

Hazards associated with the product ingredients

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

Highest concern GreenScreen® scores: List Translator Benchmark 1²

☐ PBT (persistent, bioaccumulative Toxic)

☒ Cancer

☐ Gene Mutation

☒ Development

☒ Reproductive

☒ Endocrine

☒ Respiratory

☐ Neurotoxicity

☒ Mammal

☒ Skin or Eye

☒ Aquatic toxicity

☐ Land toxicity

☒ Physical hazard

☐ Global warming

☐ Ozone depletion

☒ Multiple

☐ Unknown

¹Pharos Project: Database that provides human and environmental health information of chemicals, materials and building products. (<https://www.pharosproject.net>).

²GreenScreen scores (GS) Benchmarks of chemical ingredients: Benchmark 1 (Avoid, chemical of high concern), Benchmark 2 (Use but search for safer substitutes), Benchmark 3 (Use but still opportunity for improvement), Benchmark 4 (Prefer, safer chemical).

TABLE OF INGREDIENTS

Name	Role	CAS	Weight Ratio	GreenScreen	Note(s) (for more details refer to the HPD®)
Pine + MDF	Door leaf, rails	64742-61-6 ¹	61.3%	Highest concern: LT-1 ²	LT-UNK scores also present
MDF	Panel	64742-61-6 ¹	19.9%	Highest concern: LT-1	LT-UNK scores also present
HDF	Slats	7732-18-5 ¹	16.1%	Highest concern: 4	LT-UNK scores also present
Paint	Finish: Layer 1	13463-67-7 ¹	2.0%	Highest concern: LT-1	LT-UNK scores also present
Dowels	Assembly	9003-20-7 ¹	0.5%	Highest concern: LT- UNK	-
Top-coat UV	Finish: Layer 2	42978-66-5 ¹	0.4%	Highest concern: LT- P1	LT-UNK scores also present
Vinyl Acetate	Monomer	108-05-4	Residual	LT-P1	-
Epichlorohydrin	Monomer	106-89-8	Residual	LT-1	-
Silver	Catalyst	7440-22-4	Residual	LT-P1	-
Paraffin oil	Monomer	8012-95-1	Residual	LT-P1	-
Formaldehyde	Monomer	50-00-0	Residual	LT-1	-
Melamine	Monomer	108-78-1	Residual	LT-P1	-

¹Only the CAS numbers with the score of highest concern are listed.

²GS List Translator (LT) scores of chemical ingredients: LT-1, likely GS Benchmark 1; LT-P1, possible GS Benchmark 1; U-LT or LT-UNK, present on a GS Specified Lists but there is insufficient information to classify the hazard as LT-1 or LT-P1 (does not mean the chemical is safe).

Validated Eco-Declaration—Declaration of Chemical ingredients

Methodology: validation of the documentation confirming the methodology and reporting of chemical ingredients.

Vertima's procedure: VERT-032009-01, First Edition.

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LOUVER / PANEL DOORS

INGREDIENTS AND EMISSIONS (CONTINUED)

VOLATILE ORGANIC COMPOUNDS (VOCs)

FINISHES

Manufacturer	Type	VOC content
AkzoNobel®	Paint finishes*	27.8 g/L
AkzoNobel®	UV finishes*	1.02 g/L

* These finishes are used in all final products of PBI Doors and are factory applied. PBI Doors can provide technical data sheet of each product.

Validated Eco-Declaration—Emissions and VOCs

Methodology: validation of the documents attesting the methodology and results of emissions general evaluation and VOCs.

Vertima's procedure: VERT-032009-02, First Edition.

FORMALDEHYDE

Product components	Formaldehyde compliance	Formaldehyde content
MDF covering - supplier 1	CARB phase 2 compliant	<0.1%
HDF covering - supplier 2	CARB phase 2 compliant	<0.1%
MDF panel	CARB phase 2 compliant	<0.1%
HDF slats	NAUF compliant	—

Product components	Adhesives	Manufacturer	Formaldehyde content	COV content
Adhesive for assembly: Pine wood and MDF covering - supplier 1	Multibond X-080	Franklin	NAF	1.84 g/L
	Multibond SK-8	Franklin	NAF	5.6 g/L
Adhesive for assembly: Pine wood and HDF covering - supplier 2	G-2871 LV	Dural	NAF	230 g/L

Validated Eco-Declaration—Emissions and formaldehyde

Methodology: validation of the documents attesting the methodology and results of emissions general evaluation and formaldehyde. Vertima's procedure: VERT-032009-03, First Edition.

TECHNICAL PERFORMANCES

EXPECTED LIFE

Warranty

We guarantee all doors against manufacturing defect for a one-year period, beginning from the delivery date to the distributor. Your PBI DOORS door requires particular attention and specific care. Wood is a natural product, and your door could be subject to contraction and expansion when exposed to varying temperature and humidity fluctuations. For that reason, our warranty is conditional to some condition. (Document available upon request for Warranty specifications).

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PRODUCT CONTRIBUTION SUMMARY

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

New Construction, Core 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		POINTS	PRODUCT CONTRIBUTIONS
MR	Building Product Disclosure and Optimization —Sourcing of Raw Materials Option 2: Leadership extraction practices May also contribute to the location valuation factor if the product is sourced (extracted, manufactured, purchased) within 160 km of the project site.	1 point	ATTRIBUTES
			Recycled Content pre-consumer (31.8% or 33.3%)
MR	Building Product Disclosure and Optimization —Material Ingredients Option 1: Material ingredients reporting	1 point	INGREDIENTS AND EMISSIONS
			HPD® version 1.0 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		POINTS	PRODUCT CONTRIBUTIONS
EQ	Low-Emitting Materials Option 1: Product category calculation Number of points is dependant on the LEED rating system and the number of compliant categories.	Do not contribute ¹	INGREDIENTS AND EMISSIONS
			¹ Must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.1 –2010

LEED® v4 requirements for Homes

Applies to single family homes, low-rise multi-family (one to three stories), or mid-rise multi-family (four to six stories); includes Homes and Multifamily Lowrise and Multifamily Midrise.

MATERIALS AND RESOURCES		POINTS	PRODUCT CONTRIBUTIONS
MR Prereq1	Certified Tropical Wood	Perequisite	ATTRIBUTES
			PBI Door's products do not contain tropical species
MR Credit 2	Environmentally Preferable Products Option2: Environmentally Preferable Products 2At least 90% of all materials in each category must meet credit requirements. Louver / Panel doors contributes 0.5 point for Recycled Content.	0.5 point2	ATTRIBUTES
			Recycled Content pre-consumer (31.8% or 33.3%)
INDOOR ENVIRONMENTAL QUALITY		POINTS	PRODUCT CONTRIBUTIONS
EQ Credit 7	Low-Emitting Products At least 90% of all materials in each category must meet credit requirements.	Do not contribute3	INGREDIENTS AND EMISSIONS
			3Must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.1 –2010

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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