

TECHNOLOGY DESIGN ENVIRONMENT









5 PLY DOOR EnviroDesign™ Series

5-LSL/SCL45

The 5 ply door SCL, with a structural composite lumber core, is an interior wood door of high-quality and with added value developed and manufactured for the high-end residential, commercial, architectural and institutional markets

## VALIDATED ECO-DECLARATION

#### PRODUCT SPECIFICATIONS

#### References

Structural composite lumber core (SCL): 5-FS/UFLSL-EME/ECE/EBE, 5-FS/UFSCL45-EME/ECE/EBE.

#### **Final manufacturing location**

Lambton, Quebec G0M 1H0 CANADA

#### Composition

Composite core, HDF, SCL, veneer, hardwood edges, adhesives, UV finishes.

## **ATTRIBUTES**

## **Recycled content**

Pre-consumer: 14.3% Post-consumer: 0%

#### Sourcing of raw materials

The origin and extraction locations have been documented for 74.6% of raw materials used in manufacturing in the final product, based on weight ratio.

FSC® Certification (When specified) RA-COC-001082

Rapidly renewable materials

**Biobased materials** 

## **ENVIRONMENTAL IMPACTS**

**Life Cycle Assessment** April 2017

**Product's carbon footprint** April 2017

#### **Environmental Product Declaration**

Product-specific, Type III December 2017 - ISO 14025:2006 December 2022

## **INGREDIENTS AND EMISSIONS**

Declaration of chemical ingredients

1,000 ppm

See page 6

Type of declaration

HDP® version 2.0

Health Product Declaration®

**Emission test** 

**Formaldehyde** 

**VOCs** 

(Factory-applied finishes)

NAF (Crossband HDF)

Others CARB Phase 2

## Product's contribution to LEED® v4

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## TECHNICAL PERFORMANCES

**Performance tests** 

Architectural Woodwork Standards, WDMA Series I.S.1-A, ASTM D5456.

Expected life

40 years

## MANUFACTURER'S ENVIRONMENTAL MANAGEMENT

ISO 14001 Certification

**Extended Producer Responsibility** 

(Take Back Program)

**Corporate Sustainability Report** 

(CSR: GRI, ISO 26000, BNQ 21000 or others)

## **CERTIFICATIONS AND CONFORMITIES**









The FSC® logo enables to indentify products containing wood from forests responsibly managed and certified against the Forest Stewardship Council® standards

The mission of LAMBTON DOORS is to develop and manufacture high-quality, value-added interior wood doors and frames for the North American commercial, architectural and institutional markets.

235, 2<sup>nd</sup> Avenue, Lambton, QC G0M 1H0 CANADA www.lambtondoors.com

MasterFormat®: **08 14 16** Validated Eco-Declaration:

**VED17-1066-03**Original issue date: **2017/08**Period of validity: **2018/01** to **2019/01** 



DOOR 5-LSL/SCL45 ENVIRODESIGN™



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#### **Thicknesses**

44 mm (1-3/4") to 57 mm (2-1/4"); 20 - 45 minutes

#### Sizes

1219 mm x 3048 mm (48"x120"); positive and neutral pressure (20 minutes) 1219 mm x 2438 mm (48"x96"); positive and neutral pressure (45 minutes)

#### **Options**

EDGEFENDER: Impact-resistant door edge protector ASEPTI: Antimicrobial coated surfaces option

Veneer and edges available in various wood species

## **ATTRIBUTES**

## RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
Door 5-LSL/SCL45 EnviroDesign™	100%	14.3%	0%
Component (with recycled content)	Weight ratio	Pre-consumer	Post-consumer
HDF	19.1%	75.0%	0%

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, Second Edition.

#### **SOURCING OF RAW MATERIALS**

Weight ratio	Final manufacturing location
100%	Lambton, Quebec G0M 1H0 CANADA

Validated Eco-Declaration – Sourcing of raw materials

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

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

Components	Weight ratio	Extraction locations	Transportation
Composite core, SCL (wood)	50.9%	United States (OK, AR, TX)	Road
Composite core, SCL (other ingredients)	18.8%	N/A	N/A
HDF (wood)	14.3%	United States (WA, ID, MT)	Train, road
HDF (other ingredients)	4.8%	N/A	N/A
Stiles ans rails, SCL (wood)	5.0%	United States (OK, AR, TX)	Road
Stiles ans rails, SCL (other ingredients)	1.8%	N/A	N/A
Veneer	2.3%	Canada, United States, International	Boat, road
Hardwood edges	2.1%	Canada, United States	Road
Adhesives and UV finishes	Negligible	N/A	N/A

The origin and extraction locations have been documented for 74.6% of raw materials used in manufacturing in the final product, based on weight ratio.

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## **ATTRIBUTES (CONTINUED)**

## **SOURCING OF RAW MATERIALS (CONTINUED)**



#### 1. HARVEST LOCATIONS OF WOOD:

- COMPOSITE CORE (SCL) United States: Oklahoma, Arkansas, Texas.
- HDF United States: Idaho, Montana, Washington.
- STILES AND RAILS (SCL) United States: Oklahoma, Arkansas, Texas.
- VENEER (Tropical wood) Africa: Ghana, Cameroon, Gabon, Congo (not shown on map); South America: Brazil (not shown on map).
- VENEER Canada: Ontario, Quebec, British Columbia; United States: NY, MI, PA, OH, WV, IN, KY, MS, TN, IA, VT, WI, IL, MA; Europe: Croatia, Estonia, Romania, Slovenia, Czech Republic (not shown on map).
- HARDWOOD EDGES Canada: Ontario, Quebec, New Brunswick; United States: NY, PA, OH, VT, NH, ME.

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## **ATTRIBUTES (CONTINUED)**

## **FSC® CERTIFICATION**

When specified, the EnviroDesign™ door models 5-UFLSL-EME/ECE/EBE and 5-UFSCL45-EME/ECE/EBE are FSC®-Certified. LAMBTON DOORS then refers to the models 5-FSLSL-EME/ECE/EBE and 5-FSSCL45-EME/ECE/EBE. Contact LAMBTON DOORS for more details.

	Door 5-LSL/SCL45 EnviroDesign™	% Wood components	% FSC®-Certified wood by volume	% calculated according to total volume of wood components used in the product final assembly versus the total volume of FSC®-Certified wood
FSC	Wood	100%	75.2%	75.2%
www.fsc.org FSC® C001968 The mark of	LAMBTON DOORS	Certification number	Type of certification	Period of validity
responsible forestry	Lambton, QC CANADA	RA-COC-001082	FSC® MIX	2013/09/20 to 2018/09/19

Validated Eco-Declaration - FSC® Certification

Methodology: on-site audit, supply chain evaluation and validation of FSC® certification documents confirming the type of certification and calculation, based on FSC®-Certified wood weight ratio in the final product.

Vertima's procedure: VERT-032008-03, Second Edition.

2018/01 to 2019/01

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## **ENVIRONMENTAL IMPACTS**

## **ENVIRONMENTAL PRODUCT DECLARATION (EPD)**

☑ Product-specific EPD, ISO 14025:2006, Type III

The door models 5-FS/UFLSL-EME/ECE/EBE and 5-FS/UFSCL45-EME/ECE/EBE have EPDs that were prepared by Vertima. FPInnovations is the program operator. The life cycle assessment, verified by a third party and on which is based these EPDs, has been done by the Renewable Materials Research Center (CRMR) of Université Laval, Quebec City (Quebec) in 2014 for LAMBTON DOORS.

**Reference PCR** 

FPInnovations. 2013. Product Category Rules. North American structural and architectural wood products. Version 1.1. 22pp.

Functional Unit (FU)	Scope of the LCA	Reference service life	Period of validity
Closure and separation of 2 rooms with a door of 7 ft x 3 ft (thickness: 1-3/4 in)	Cradle-to-grave	60 years (building) 40 years (product)	December 2017 - December 2022

## Table of environmental impacts for the door 5-FS/UFLSL-EME/ECE/EBE and 5-FS/UFSCL45-EME/ECE/EBE (dimensions: 7 ft x 3 ft x 1-3/4 in)

(diffictionolio: 1 tex o tex 1 of 4 iii)			
Impact categories	Unit	Results per FU 5-FS/UFLSL-EME/ECE 5-FS/UFSCL45-EME/ECE	Results per FU 5-FS/UFLSL-EBE 5-FS/UFSCL45-EBE
Global warming potential	kg CO <sub>2</sub> eq	2.44	2.46
Ozone depletion potential	kg CFC-11 eq	1.54.10 <sup>-5</sup>	1.54.10 <sup>-5</sup>
Acidification potential	kg SO <sub>2</sub> eq	0.756	0.756
Smog creation potential	kg O <sub>3</sub> eq	15.6	15.6
Eutrophication potential	kg N eq	1.24	1.24
Consumption of total primary energy	Unit	Results per FU 5-FS/UFLSL-EME/ECE 5-FS/UFSCL45-EME/ECE	Results per FU 5-FS/UFLSL-EBE 5-FS/UFSCL45-EBE
Non-renewable fossil	MJ	2,152	2,152
Non-renewable nuclear	MJ	192.1	192.8
			Source: EPD report

Type III Environmental Product Declaration developed in accordance with ISO 14025:2006

Validated Eco-Declaration – Environmental Product Declaration (EPD)
Methodology: validation of documents and methodology surrounding the product LCA report and EPD.
Vertima's procedure: VERT-032010-03, Second Edition.

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## **INGREDIENTS AND EMISSIONS**

## **DECLARATION OF CHEMICAL INGREDIENTS**



Type of declaration: Health Product Declaration® (HPD®) version 2.0

Period of validity: November 1st 2016 to November 1st 2019

Summary of product contents and results from screening individual chemical substances against HPD Priority Lists<sup>1</sup> and the GreenScreen for Safer Chemicals<sup>®,2</sup>.

Health Product Declaration® URL: http://www.hpd-collaborative.org/hpd-public-repository/

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

<b>Declaration:</b> Prepared by Vertim	a ■ Self-declared	☐ Third party				
Ingredients inventory threshold: 1,000 ppm						
Full disclosure of intentional ing	gredients: Yes					
Full disclosure of known hazard	s: Yes					
Hazards associated with the pro	oduct ingredients:					
		iated with exposure to its individual contents. The Declaration is not an assessment of risks associated with or created during manufacture that do not appear in the final product as residuals, nor substances created				
Highest concern GreenScreen® Benchm	ark: List Translator Likely Bend	chmark 1 <sup>3</sup>				
PBT (Persitent, Bioaccumulative, Toxic)	Respiratory	Physical hazard				
Cancer	Neurotoxicity	☐ Global warming				
☐ Gene Mutation ☐ Mammal ☐ Ozone depletion						
☐ Development	Skin or eye	Multiple				
Reproductive	Aquatic toxicity	Unknown				
■ Endocrine	Land toxicity					

<sup>3</sup>GreenScreen (GS) Benchmark scores 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	Weight ratio	CAS <sup>1</sup>	GreenScreen <sup>®,2</sup>	<b>Note(s)</b> (for more details refer to the HPD®)
Composite panel	Core	69.7%	9016-87-9 8002-74-2	LT-UNK	-
HDF	Crossband	19.1%	64742-61-6	LT-1	LT-UNK scores also present
SCL	Stiles and rails	6.8%	9016-87-9 8002-74-2	LT-UNK	-
Veneer	Finishing	2.3%	-	-	-
Hardwood edges	Finishing	2.1%	-	-	-
Adhesives	Assembly	0.1% - 1.0%	108-05-4	LT-P1	LT-UNK scores also present
UV finishes	Finishing	0.1% - 1.0%	14808-60-7	LT-1	LT-P1 and LT-UNK scores also present

<sup>1</sup>Only the CAS numbers with the score of highest concern are listed. The complete list of substances can be found in the HPD®.

<sup>2</sup>GS List Translator (LT) scores of chemical ingredients: LT-1, likely GS Benchmark 1; LT-P1, possible GS Benchmark 1; LT-U or LT-UNK, present on GS Specified Lists but there is insufficient information to classify the hazards 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, Second Edition.

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<sup>&</sup>lt;sup>1</sup>Please refer to Annex D of HPD® Open Standard Version 2.0, September 10th 2015. http://www.hpd-collaborative.org

<sup>&</sup>lt;sup>2</sup>GreenScreen for Safer Chemicals® method: http://www.greenscreenchemicals.org/

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## **INGREDIENTS AND EMISSIONS**

## **VOLATILE ORGANIC COMPOUNDS (VOCs)**

All adhesives and finishes are applied during the manufacturing of the 5-LSL/SCL45 EnviroDesign™ Series. In each category of products presented below, the value refers to the VOC content of adhesives and finishes in their liquid state.

ADHESIVES					
Manufacturer	Products	VOC content			
Dural Division of Multibond Inc.	Different Polyvinyl Acetate (PVAc) based adhesives	1.5 g/L - 24.0 g/L			
FINISHES					
Manufacturer	Products	VOC content			
Can-Lak Inc.	Different UV curable finishes, 100% solid	6.1 g/L - 20.8 g/L			

Validated Eco-Declaration – Emissions and Volatile Organic Compounds (VOCs) Methodology: validation of documents attesting VOCs emissions. Vertima's procedure: VERT-032009-02, Second Edition.

#### **FORMALDEHYDE**

Product Components	Conformity
Composite core	CARB Exempt
Crossband HDF	NAF
Stiles and rails, SCL	CARB Exempt

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-032009-02, Second Edition.

## **TECHNICAL PERFORMANCES**

#### **PERFORMANCE TESTS**

LAMBTON DOORS' products are made in conformance with industrial standards:

- Architectural Woodwork Standards: Standards for fabrication, finishing and installation of architectural woodwork;
- WDMA Series I.S. 1-A: Standard for Windows and Doors Manufacturers;
- ASTM D5456: Standard Specification for Evaluation of Structural Composite Lumber Products;

#### Fire resistance:

- Up to 45 minutes neutral or positive pressure;
- CAN/ULC S104: Standard Method for Fire Tests of Door Assemblies;
- NFPA 252: Standard Method of Fire Tests of Door Assemblies:
- UL 10B: Standard for Fire Tests of Door Assemblies;
- UL 10C: Standard for Positive Pressure Fire Tests of Door Assemblies (Category B, Category A optional).

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## **TECHNICAL PERFORMANCES (CONTINUED)**

## **WARRANTY**

All LAMBTON DOORS wood doors and frames carry a lifetime warranty against warp and show-through.

## MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

## MANUFACTURER'S COMMITMENT

Since the late 1990s, LAMBTON DOORS has been committed to the environmental movement. We are compelled to act in an eco-friendly way because we believe in a transformed construction industry environment that contributes to a sustainable future. Today, the company's sound environmental management dictates our choice of suppliers, manufacturing process development and equipment acquisition, as well as the treatment of our plant residue. It also explains our use of a sophisticated eco-friendly finishing system that supports the vitality of the environment.

Each of our actions is aimed at preserving the health of our planet and that of our plant workers, field workers and end users. Several of our products, including those in our EnviroDesign™Series with Ultra-Low Emitting Formaldehyde Resins (ULEF) or No-Added Formaldehyde (NAF), contribute to the points score in various product categories leading to LEED® certification.

DOOR 5-LSL/SCL45 ENVIRODESIGN™



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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.

MATE	RIALS AND RESOURCES		PRODUCT CONTRIBUTIONS
MR	Building Product Disclosure and Optimization  – Environmental Product Declaration (EPD)  Option 1: Environmental Product Declaration (1 point)  The door 5-LSL/SCL45 EnviroDesign™ 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 to ISO 14025:2006.  The EPD is based on a cradle-to-grave LCA for a building service life of 60 years. Therefore, it could be used in the calculations for the obtention of credit «MR - Building Life-Cycle Impact Reduction» with Option 4 «Whole-Building Life-Cycle Assessment».
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	Recycled Content Pre-consumer (14.3%) Post-consumer (0%) FSC® Certification (75.2%) by volume (when specified)
MR	Building Product Disclosure and Optimization  — Material Ingredients  Option 1: Material ingredients reporting (1 point)  The door 5-LSL/SCL45 EnviroDesign™ 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	HPD® version 2.0 Health Product Declaration®
INDOC	DR 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.	Do not contribute <sup>1</sup>	INGREDIENTS AND EMISSIONS  ¹Must be tested and determined compliant to the standard method of the California Department of Public Health (CDPH) v1.1-2010.  LAMBTON DOORS provides ULEF and/or NAF composite wood panels for EnviroDesign™ doors depending on model.

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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## PRODUCT CONTRIBUTION SUMMARY (CONTINUED)

## 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	
			ATTRIBUTES
MR Prereq 1	Contribute		The door 5-LSL/SCL45 EnviroDesign™ is available with non-tropical wood species.
	Environmentally Preferable Products		ATTRIBUTES
	Maximum of 4 points depending on both options in the context of each project.		
MR Credit 2	Option 2: Environmentally Preferable Products <sup>2</sup> The door 5-LSL/SCL45 EnviroDesign™ meets 1 criterion for this option since the product is FSC®-Certified when specified.	Contribute <sup>2</sup>	Recycled Content Pre-consumer (14.3%) Post-consumer (0%)
	The final product should contain at least 25% of post-consumer recycled content or 50% of pre-consumer recycled content.  Wood products must be FSC®-Certified, or USGBC-approved equivalent.		FSC® Certification (75.2%) by volume (when specified)
INDOO	R ENVIRONMENTAL QUALITY	PF	RODUCT CONTRIBUTIONS
			INGREDIENTS AND EMISSIONS
EQ Credit 7	<b>Low-Emitting Products</b> (0.5 - 3 points) At least 90% of all materials in each category must meet credit requirements.	Do not contribute <sup>3</sup>	<sup>3</sup> Must be tested and determined compliant to the standard method of the California Department of Public Health (CDPH) v1.1-2010.  LAMBTON DOORS provides ULEF and/ or NAF composite wood panels for EnviroDesign™ doors depending on model.

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