





ENGINEERED FLOORBOARDS

Composed of a hardwood plywood base and a high-quality hardwood surface, Engineered floorboards have micro-V joints suitable for all types of installation and provide unparalleled stability. Our Engineered floorboards are available in eight wood species with a wide selection of widths, grades, stains and gloss levels. Factory prevarnished with Mercier GÉNÉRATIONS finish, made of pure soybean oil, Mercier floorboards are Greenguard Gold certified and come with a comprehensive warranty of 35 years for residential use and 5 years for light commercial use.

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
Reference Factory prevarnished engineered floorboards 1/2" (4 mm) and 3/4"(4 mm) *Thickness of harwood	Life Cycle Assessment -	Performance tests Tests conducted by Mercier Wood Flooring, Inc. according to applicable ASTM standards.
Final manufacturing location Montmagny, QC G5V 4T1 CANADA	Reference service life -	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
Components Plywood, harwood, adhesive and finish.	Product's carbon footprint -	
ATTRIBUTES	Environmental Product Declaration ISO 14025:2006 -	ISO 14001 Certification -
	INGREDIENTS AND EMISSIONS	Extended Producer Responsibility (Take Back Program) -
Recycled Content Pre-consumer: 0% Post-consumer: 0%	Declaration of chemical ingredients 1,000 ppm	Corporate Sustainability Report (CSR : GRI, ISO 26000, BNQ 21000 or others) -
Sourcing of raw materials The source of extraction or location of raw materials has been documented from 20.4% to 37.6% of final product weight.	Type of declaration HPD® version 2.1 Health Product Declaration®	CERTIFICATIONS AND CONFORMITIES
FSC® Certification RA-COC-003583 (When specified)	Emission test Greenguard Gold Certified	
Rapidly renewable materials -	VOCs -	  
Biobased materials -	Formaldehyde -	The mark of responsible forestry
	Others EPA TSCA Title VI Compliant	

An industry leader in prevarnished hardwood flooring for more than 35 years, Mercier's mission is to fully satisfy its customers by designing high-quality environmentally responsible products through constant innovation.

330, rue des Entrepreneurs, Montmagny, QC G5V 4T1 CANADA
www.mercier-wood-flooring.com

MasterFormat®: **09 64 00**
 Validated Eco-Declaration:

VED18-1032-01

Original issue date: **2012/10**

Last modification: **2019/08**

Period of validity: **2019/02** to **2020/02**



ENVIRONMENTAL DATA SHEET

ENGINEERED FLOORBOARDS

CHARACTERISTICS



- Wood species available: red oak, hard maple, hickory, white oak, American walnut, American cherry
- Available in widths of 3 1/4" (82 mm), 4 1/2" (114 mm), 6 1/2" (165 mm), and 8 1/8" (206 mm), depending on the product
- Profile: micro-V joint on 4 sides

ATTRIBUTES

RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
Engineered floorboards 1/2" (4 mm and 2,5 mm), 3/4" (4 mm)	100%	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 the manufacturing the final product.

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

SOURCING OF RAW MATERIALS

Weight ratio	Final manufacturing location
100%	Montmagny, QC G5V 4T1 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.

Component	Weight ratio			Extraction location	Transportation
	1/2" (4 mm)	1/2" (2,5 mm)	3/4" (4 mm)		
Plywood	61.6% - 66.5%	74.8% - 78.6%	74.2% - 78.2%	N/A	N/A
Hardwood	32.4% - 37.6%	20.4% - 24.3%	21.1% - 25.1%	Canada (Quebec and Ontario) and United States (Connecticut, Maine, Massachusetts, Michigan, Mississippi, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and Vermont)	Road
Adhesive	< 0.1%	< 0.1%	< 0.0%	N/A	N/A
Finish	< 0.1%	< 0.1%	< 0.1%	N/A	N/A

The source of extraction or location of raw materials has been documented from 20.4% to 37.6% of final product weight.

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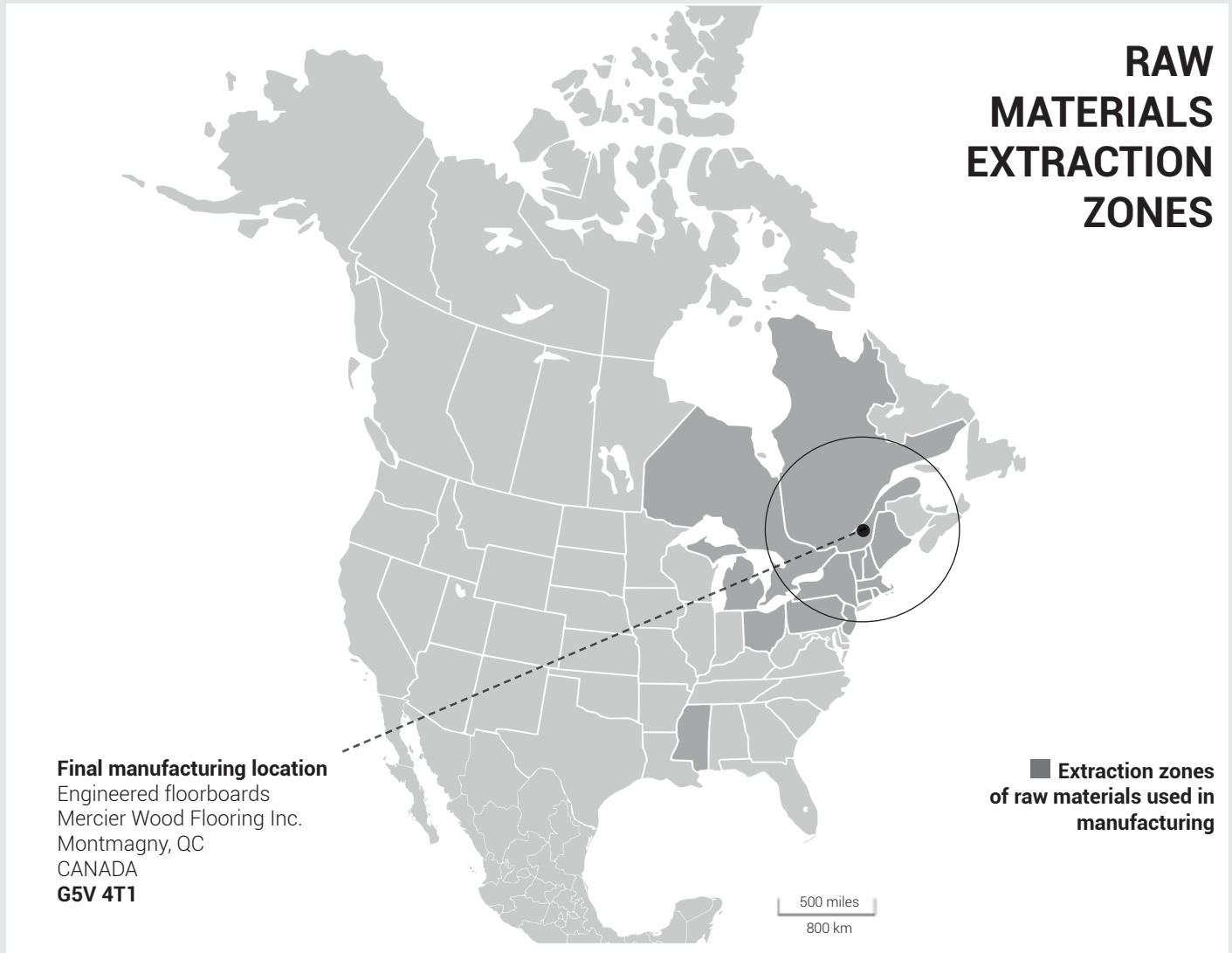


ENVIRONMENTAL DATA SHEET

ENGINEERED FLOORBOARDS

ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)



1. HARDWOOD HARVEST LOCATION (Details available upon request)

Canada: Quebec and Ontario

United States: Connecticut, Maine, Massachusetts, Michigan, Mississippi, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and Vermont.

2. SOURCE OF PLYWOOD (Not shown on the map)

Supplier 1: Russia

Supplier 2: Russia

Supplier 3: Russia

The plywood extraction locations could not be documented.


ENVIRONMENTAL DATA SHEET

ENGINEERED FLOORBOARDS

ATTRIBUTES (CONTINUED)

FSC® CERTIFICATION

The Engineered floorboards FSC®-Certified are available in the following wood species: red oak, hard maple, hickory, white oak, american walnut, american cherry. Contact Mercier Wood Flooring Inc. for more details.

 <p>www.fsc.org FSC® C014285 La marque de la gestion forestière responsable</p>	Engineered floorboards	% Wood component	% FSC®-Certified wood	% FSC® certified wood versus total wood component weight of final product
	Harwood	100%	100%	100%
	Mercier Wood Flooring Inc.	Certification number	Type of certification	Period of validity
	Montmagny, QC CANADA	RA-COC-003583	FSC® Mix	2018/12/04 to 2023/11/04

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.

INGREDIENTS AND EMISSIONS

VOLATILE ORGANIC COMPOUNDS (VOCs)

All finish and adhesive products are applied during the manufacture of Engineered floorboards. For categories of products presented below, value refer to the VOC content in their liquid state.

Adhesive		
Manufacturer	Product	VOC content
Dural	Adhesive for wood substrate	0 g/L - <24 g/L
Finition		
Manufacturer	Product	VOC content
AkzoNobel	Stain and varnish	4 g/L - 79 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.

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INGREDIENTS AND EMISSIONS (CONTINUED)

DECLARATION OF CHEMICAL INGREDIENTS


VERSION 2.1
Type of declaration: Health Product Declaration® (HPD®) version 2.1

Period of validity: January 31, 2018 to January 31, 2021

HPD name: Engineered Wood Flooring

 Summary of product contents and results from screening individual chemical substances against HPD Priority Lists¹ and the GreenScreen for Safer Chemicals®².

HPDC repository 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.

Declaration: Prepared by Vertima inc., third party approved by HPDC

Ingredients inventory threshold: 1,000 ppm

Full disclosure of intentional ingredients: Yes

Full disclosure of known hazards: Yes

Hazard(s) associated with the product ingredients:

This HPD Standard describes a declaration of product content and direct health hazards associated with exposure to its individual contents. The Declaration 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® Benchmark: List Translator Likely Benchmark 1³

- | | | |
|------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|
| <input checked="" type="checkbox"/> PBT (Persistent, Bioaccumulative, Toxic) | <input checked="" type="checkbox"/> Respiratory | <input type="checkbox"/> Physical hazard |
| <input checked="" type="checkbox"/> Cancer | <input type="checkbox"/> Neurotoxicity | <input type="checkbox"/> Global warming |
| <input checked="" type="checkbox"/> Gene mutation | <input checked="" type="checkbox"/> Mammal | <input type="checkbox"/> Ozone depletion |
| <input type="checkbox"/> Development | <input type="checkbox"/> Land toxicity | <input checked="" type="checkbox"/> Multiple |
| <input checked="" type="checkbox"/> Reproductive | <input checked="" type="checkbox"/> Aquatic toxicity | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Endocrine | <input checked="" type="checkbox"/> Skin or eye | |

¹Refer to Annex D of HPD® Open Standard Version 2.1, May 2017: <http://www.hpd-collaborative.org>
²GreenScreen for Safer Chemicals® method: <http://www.greenscreenchemicals.org/>
³GreenScreen (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

Component	Role	Weight ratio	CAS ¹	GreenScreen® ²	Other applicable score (for more details refer to the HPD®)
Plywood	Main component	61.6% - 78.6%	50-00-0	LT-1	LT-P1, BM-3 scores also present
Hardwood	Top layer	20.4% - 37.6%	-	-	-
Adhesive #1	Assembly	0% - 0.1%	64440-88-6 26447-40-5	LT-UNK	-
Natural Finish	Finish	0% - 0.1%	Multiple	LT-P1	LT-UNK score also present
Stain Finish	Finish	0% - 0.1%	14807-96-6	BM-1	LT-1, LT-P1, LT-UNK scores also present

*The results include the Professional Series 3/8 " Engineered Floorboards.

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

²GS 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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TECHNICAL PERFORMANCES

PERFORMANCE TESTS

Tests conducted by Mercier Wood Flooring, Inc. according to applicable ASTM standards.

Source: Mercier Wood Flooring Inc.

WARRANTY

Mercier GENERATIONS

35-year finish wear warranty for residential use

5-year finish wear warranty for light commercial use

Lifetime structural warranty

Mercier Generations Intact 2500

10-year finish wear warranty for light commercial use

3-year finish wear warranty for use with outside access

Source: Mercier Wood Flooring Inc.

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

MANUFACTURER'S COMMITMENT

Our forests and the natural world are at the heart of our mission, and we work every day to ensure that our impact on the environment is minimal. All our packaging is made of 100% recycled and recyclable cardboard and is printed without bleaching agents. All waste material from our factories is reused in various forms: in our factory heating system, as residential heating materials, in pulp and paper mills, or to produce wooden pallets. Maximizing the use of raw materials, recycling renewable energy, reducing air emissions and ensuring that our wood is sourced from certified suppliers are at the heart of our business practices. Mercier floors are easy to maintain and do not require the use of chemical products that may be harmful to the environment. They are Greenguard Gold certified – the highest environmental certification on the market.

Source: Mercier Wood Flooring Inc.

QUALITY MANAGEMENT SYSTEM (ISO 9001:2015)

Certification number	Certification agency	Period of validity
CA09/55166	SGS North America Inc.	Until January, 20 2021

Scope of registration

Development and manufacturing of prefinished floors and moldings

Certified site

330, rue des Entrepreneurs, Montmagny, QC G5V 4T1 Canada

Validated Eco-Declaration – ISO Certification

Methodology: validation of documents attesting the ISO Certification.

Vertima's procedure: VERT-032011, Second Edition.



GREENGUARD GOLD CERTIFICATION

Compliant with the standard method of the California Department of Public Health (CDPH)

Engineered floorboards



Certification agency	Certification number	Specie*
UL Environment	15724-420	Hard maple
UL Environment	15716-420	Red oak
UL Environment	102656-420	Hickory

Certification agency	Certification number	Specie*
UL Environment	15732-420	White oak
UL Environment	15736-420	American walnut
UL Environment	15742-420	American cherry

*Greenguard Gold certification available for all other species and colors.

Validated Eco-Declaration – Greenguard Certification

Methodology: validation of documents attesting the Certification.

Vertima's procedure: VERT-032011, Second Edition.

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PRODUCT CONTRIBUTION SUMMARY

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

New Construction and Major Renovation, 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 – 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
			FSC® Mix Certification (100%)
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) Engineered floorboards contribute to this credit due to the availability of Health Product Declarations® and are 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 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) For the flooring category 100% of flooring must meet the requirements.	Contribute	INGREDIENTS AND EMISSIONS
			Engineered floorboards have been tested according with the standard method of the California Department of Public Health (CDPH) v1.2-2017.

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 Prerequisite	Certified Tropical Wood	Contribute	ATTRIBUTES
			Engineered floorboards are available with non-tropical wood species.
MR	Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project. Option 2: Environmentally Preferable Products Wood products must be FSC®-Certified, or USGBC-approved equivalent. Engineered floorboards meet at least 1 criterion for this option since the product is FSC®-Certified.	Contribute	ATTRIBUTES
			FSC® Mix Certification (100%)
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	Low-Emitting Products (0.5-3 points) At least 90% of all materials in each category must meet credit requirements.	Contribute	INGREDIENTS AND EMISSIONS
			Engineered floorboards have been tested according with the standard method of the California Department of Public Health (CDPH) v1.2-2017.

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.

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