



Hardwood Floors



ENVIRONMENTAL DATA SHEET



CLASSIC

(SOLID WOOD)

3/4" thick solid hardwood boards with tongue and groove and micro-V beveled on 4 sides.

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
Reference Solid wood (Classic)	Life Cycle Assessment -	Performance tests Relevant performances tests list. Fire reaction available on request.
Final manufacturing location Saint-Georges, QC G5Y 8J5 or Toronto, ON M8Z 1K8 CANADA	Reference service life 25 years	
Components Hardwood and finishes.	Product's carbon footprint 08/2014	
ATTRIBUTES	Environmental Product Declaration Industry-wide (generic) ISO 14025:2006 08/2014 to 08/2019 Type III	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
Recycled Content Pre-consumer: 0% Post-consumer: 0%	INGREDIENTS AND EMISSIONS	ISO 14001 Certification -
Sourcing of raw materials The source of extraction and/or location of raw materials has been documented for 99.0% of final product weight.	Declaration of chemical ingredients 1,000 ppm	Extended Producer Responsibility - (Take Back Program)
Certified Wood PEFC See page 4	Type of declaration HPD® version 2.1 Health Product Declaration®	Corporate Sustainability Report - (CSR : GRI, ISO 26000, BNQ 21000 or others)
Rapidly renewable materials -	Emission tests Complying with the CDPH	CERTIFICATIONS AND CONFORMITIES
Biobased materials -	VOCs CDPH test results $\leq 0.5 \text{ mg/m}^3$	 
	Formaldehyde CDPH test results $\leq 9.0 \text{ ug/m}^3$	
	Others -	

Designed and manufactured in North America, Mirage Floors are synonymous with superior quality, beauty, durability and guarantee product consistency, added value, and lifelong good looks. Mirage epitomizes attention to detail and the desire to create a product in perfect harmony with its environment. For more than 35 years, Mirage has been committed to operating in an environmentally responsible manner in order to ensure sustainable development for current and future generations.

1255, 98th Street, Saint-Georges, QC G5Y 8J5 CANADA
www.miragefloors.com

MasterFormat®: **09 64 00**
Validated Eco-Declaration:
VED15-0501-02
Original issue date: **06/2009**
Period of validity: **02/2018 to 02/2019**



ENVIRONMENTAL DATA SHEET

SOLID WOOD (CLASSIC)



Hardwood Floors



Characteristics

- Boards with uniform thicknesses and widths
- Micro-V joint on all four sides of the board

ATTRIBUTES

RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
Solid wood (Classic)	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 manufacturing the final product.

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

SOURCING OF RAW MATERIALS

Weight ratio	Final manufacturing location
100%	Saint-Georges, QC G5Y 8J5 CANADA or Toronto, ON M8Z 1K8 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
Hardwood	99.0%	Canada and United States	Road
Finishes	<1.0%	N/A	N/A

The source of extraction and/or location of raw materials has been documented for 99.0% of final product weight.



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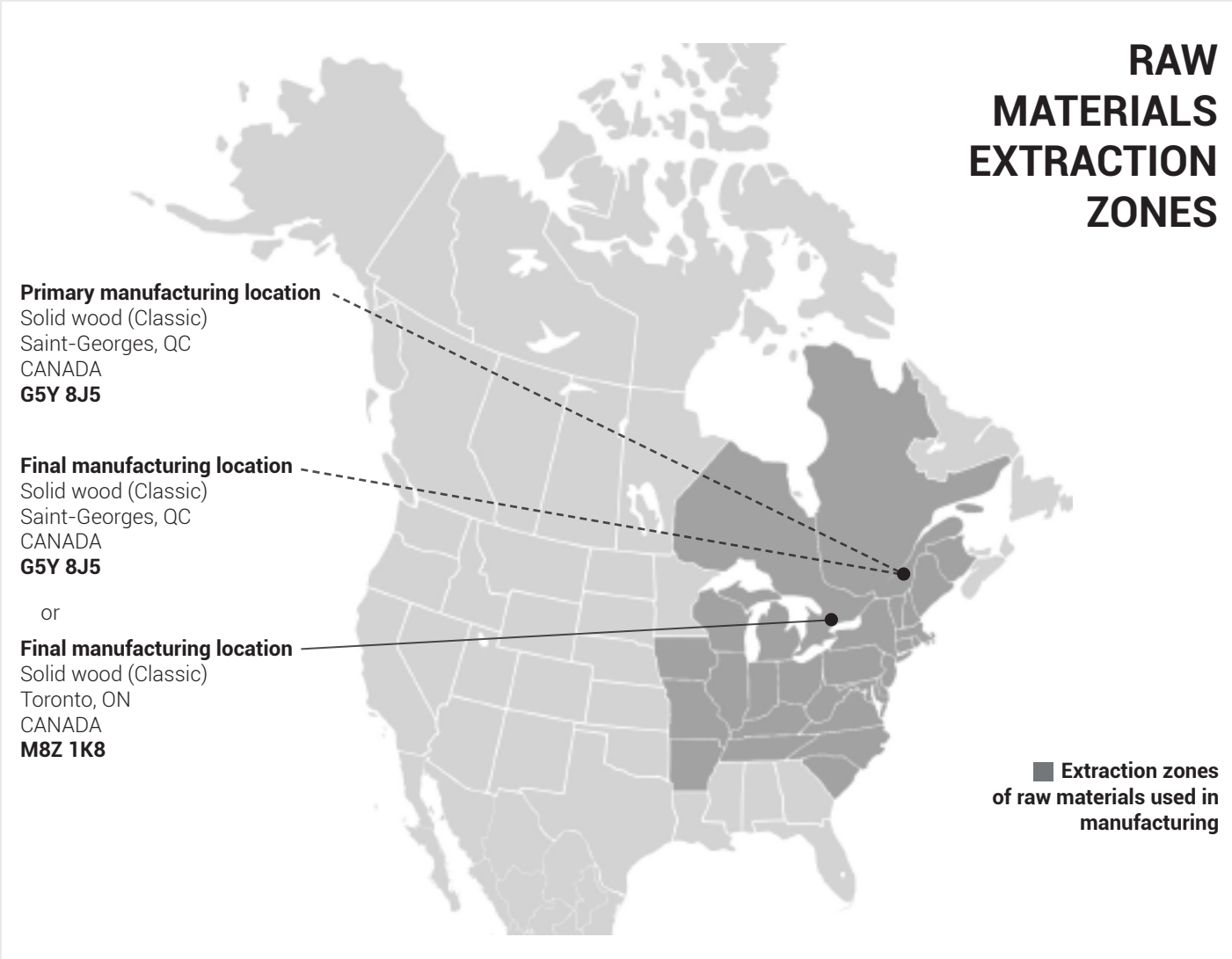


Hardwood Floors

ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)

RAW MATERIALS EXTRACTION ZONES



WOOD HARVEST LOCATION (Details available upon request)

Canada: Quebec, New Brunswick, Ontario.
United States: Arkansas, Connecticut, Delaware, Illinois, Indiana, Iowa, Kentucky, Maine, Maryland, Massachusetts, Michigan, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, Wisconsin.

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

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Hardwood Floors

ATTRIBUTES (CONTINUED)

CERTIFIED WOOD

Hardwood is currently excluded in PEFC certificate, however contact Mirage for options of Certification PEFC.

ENVIRONMENTAL IMPACTS

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

☒ Industry-wide (generic), ISO 14025:2006, Type III

In 2011, Mirage (Boa-Franc) collaborated to a life-cycle analysis to implement a generic Environmental Product Declaration for all production of hardwood floors in Eastern Canada. This approach was carried out by the owner of the Quebec Wood Export Bureau (QWEB) and audited by the FPInnovations program operator.

Reference PCR

FPInnovations for "North American Structural and Architectural Wood Products" Version 1.1, May 2013
NSF National Center for Sustainability Standards for "Flooring: Resilient, Laminate, Ceramic, Wood"

Declared Unit	Scope of the LCA	Reference service life	Period of validity
1 sq meter of installed flooring or 1m ² of installed flooring	Cradle-to-grave	25 years	08/2014 to 08/2019

Table - Life cycle environmental performance calculated using TRACI v2.1

Impact categories	Unit	Per 10 sq.ft. of flooring	Per 1m ² of flooring
Global warming potential*	kg CO ₂ eq	-2.13	-2.29
Acidification potential	kg SO ₂ eq	0.07	0.08
Eutrophication potential	Kg N eq	4.90.10 ⁻³	5.27.10 ⁻³
Smog creation potential	kg O ₃ eq	1.42	1.53
Ozone depletion potential	kg CFC-11 eq	4.34.10 ⁻⁸	4.67.10 ⁻⁸
Total consumption primary energy	Unit	Per 10 sq.ft. of flooring	Per 1m ² of flooring
Non-renewable fossil	MJ	149.09	160.48
Non-renewable nuclear	MJ	17.88	19.25

This EPD encompasses products from multiple manufacturers and represents an average of pre-finished hardwood strip flooring produced in Eastern Canada. This average is based on a sample that included five Eastern Canadian flooring mills and three finishing plants. This data represents about 10% of total Canadian hardwood flooring production in the year 2004.

* GWP includes all biogenic carbon sinks and sources throughout the product system boundary.

Source: EPD report

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



VERSION 2.1

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

Period of validity: February 2018 to February 2021

HPD name: Solid wood - St-Georges

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 presented results are specific to Solid wood prefinished at St-Georges plant. For more details about the HPD® related to Solid wood prefinished at Toronto plant and entitled "Solid wood - Toronto", please consult the 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: (Not associated with actual use of finished product)

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: Benchmark 1³

☐ PBT (Persistent, Bioaccumulative, Toxic)

☒ Cancer

☐ Gene mutation

☒ Development

☒ Reproductive

☒ Endocrine

☒ Respiratory

☐ Neurotoxicity

☐ Mammal

☐ Land toxicity

☒ Aquatic toxicity

☒ Skin or eye

☒ Physical hazard

☐ Global warming

☐ Ozone depletion

☒ Multiple

☐ Unknown

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®)
Hardwood	Main material	99.0%	-	-	-
Finishes	Finishes	<1.0%	14807-96-6 1330-20-7	BM-1	LT-1, LT-P1, LT-UNK, BM-2 and BM-4 scores also present

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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INGREDIENTS AND EMISSIONS (CONTINUED)

EMISSION TESTS

Reference Standard



California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010
(Emission testing method for CA Specification 01350)

Certificate number: 150224-01

Issue Date: February 24, 2015

Final manufacturing location: St-Georges, QC

Analytical Lab: Berkeley Analytical

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario ¹	Individual VOCs of Concern ²		Formaldehyde ³		TVOC ⁴
	Criterion	Compliant	Criterion	Compliant	
School Classroom	≤½ Chronic REL	Yes	≤9.0 µg/m ³	Yes	≤0.5 mg/m ³
Private Office	≤½ Chronic REL	Yes	≤9.0 µg/m ³	Yes	≤0.5 mg/m ³
Single Family Residence (if applicable)	≤½ Chronic REL	Yes	≤9.0 µg/m ³	Yes	≤0.5 mg/m ³

Product Coverage⁵: Not applicable

Source: Berkeley Analytical - VOC Emission Test Certificate

Reference Standard



California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017
(Emission testing method for CA Specification 01350)

Certificate number: 171017-03

Issue Date: October 17, 2017

Final manufacturing location: Toronto, ON

Analytical Lab: Berkeley Analytical

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario ¹	Individual VOCs of Concern ²		Formaldehyde ³		TVOC ⁴
	Criterion	Compliant	Criterion	Compliant	
School Classroom	≤½ Chronic REL	Yes	≤9.0 µg/m ³	Yes	≤0.5 mg/m ³
Private Office	≤½ Chronic REL	Yes	≤9.0 µg/m ³	Yes	≤0.5 mg/m ³

Product Coverage⁵: Not applicable

Source: Berkeley Analytical - VOC Emission Test Certificate

¹Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.1-2010 or V1.2-2017).

²Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (ibid).

³Maximum allowable formaldehyde concentration is ≤9 µg/m³, effective Jan 1, 2012; previous limit was ≤16.5 µg/m³ (ibid).

⁴Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 – 4.9 mg/m³, and ≥5.0 mg/m³.

⁵Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate.

Validated Eco-Declaration—Emissions testing

Methodology: validation of documents certifying the test results.

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

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TECHNICAL PERFORMANCES

PERFORMANCE TESTS

Contact manufacturer for more details.

WARRANTY

See product detailed description.

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

RESPONSIBLE RAW MATERIALS PROCUREMENT REPORT

Report name	Date
Controlled Wood Risk Evaluation	Updated annually

Lacey Act
Compliant

Validated Eco-Declaration - Supply Chain Management Report
Methodology: validation of documents attesting the supply chain management report.
Vertima's procedure: VERT-032009-04, First Edition.

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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.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	Building Product Disclosure and Optimization – Environmental Product Declaration (EPD) Option 1: Environmental Product Declaration (1 point) The Solid wood (Classic) contributes to this credit due to the availability of a industry-wide (generic) EPD (Type III) and is valued as 0.5 whole product out of the 20 needed for the purposes of credit achievement calculation.	Contribute	ENVIRONMENTAL IMPACTS
			Industry-wide (generic) EPD (Type III) compliant with ISO 14025:2006.
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) The Solid wood (Classic) 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	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) Number of points is dependent on the LEED rating system and the number of compliant categories. For the flooring category 100% of flooring must meet the requirements.	Contribute	INGREDIENTS AND EMISSIONS
			The Solid wood (Classic) has been tested according with the standard method of the California Department of Public Health (CDPH).
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	–	ATTRIBUTES
			To meet the prerequisite, don't select tropical species of Mirage.
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
			The Solid wood (Classic) has been tested according with the standard method of the California Department of Public Health (CDPH).

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.

