



# Hardwood Floors

# ENVIRONMENTAL DATA SHEET






## LOCK (3 PLY HDF CORE)

Real hardwood boards with a high density fiber core and a wood backing. Locking system for glueless floating installation.

## VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
<b>Reference</b> 3 ply HDF core (Lock)	<b>Life Cycle Assessment</b> -	<b>Performance tests</b> Relevant performances tests list. Fire reaction available on request.
<b>Final manufacturing location</b> Saint-Georges, QC G5Y 8J5 or Toronto, ON M8Z 1K8 CANADA	<b>Reference service life</b> -	
<b>Components</b> HDF, hardwood, veneer, adhesives and finishes.	<b>Product's carbon footprint</b> -	<b>MANUFACTURER'S ENVIRONMENTAL MANAGEMENT</b>
<b>ATTRIBUTES</b>	<b>Environmental Product Declaration</b> ISO 14025:2006 -	
<b>Recycled Content</b> Pre-consumer: 58.5% - 59.6% Post-consumer: 0%	<b>INGREDIENTS AND EMISSIONS</b>	<b>ISO 14001 Certification</b> -
<b>Sourcing of raw materials</b> The source of extraction and/or location of raw materials has been documented for 99.0% of final product weight.	<b>Declaration of chemical ingredients</b> 1,000 ppm	<b>Extended Producer Responsibility</b> (Take Back Program) -
<b>Certified Wood</b> PEFC 54327	<b>Type of declaration</b> HPD® version 2.1 Health Product Declaration®	<b>Corporate Sustainability Report</b> (CSR : GRI, ISO 26000, BNQ 21000 or others) -
<b>Rapidly renewable materials</b> -	<b>Emission tests</b> Complying with the CDPH	<b>CERTIFICATIONS AND CONFORMITIES</b>
<b>Biobased materials</b> -	<b>VOCs</b> CDPH test results ≤ 0.5 mg/m <sup>3</sup>	  
	<b>Formaldehyde</b> CDPH test results ≤ 9.0 ug/m <sup>3</sup>	
	<b>Others</b> EPA TSCA title VI compliant	<b>Lacey Act Compliant</b>

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: **VED15-0501-03**  
Original issue date: **06/2009**  
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## 3 PLY HDF CORE (LOCK)



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### Characteristics

- Boards with uniform thicknesses and widths
- Micro-V joint on all four sides of the board
- Radiant heat approved for most species

## ATTRIBUTES

### RECYCLED CONTENT

Final product	Weight ratio	Pre-consumer	Post-consumer
3 ply HDF core (Lock)	100%	58.5% - 59.6%	0%
Component (with recycled content)	Weight ratio	Pre-consumer	Post-consumer
HDF – Supplier #1	76.0%	78.4%	0%
HDF – Supplier #2	76.0%	77.0%	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
HDF	76.0%	Various locations	Road
Hardwood	15.0%	Canada and United States	Road
Veneer	8.0%	Various locations	Road
Adhesives	<1.0%	N/A	N/A
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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# ENVIRONMENTAL DATA SHEET

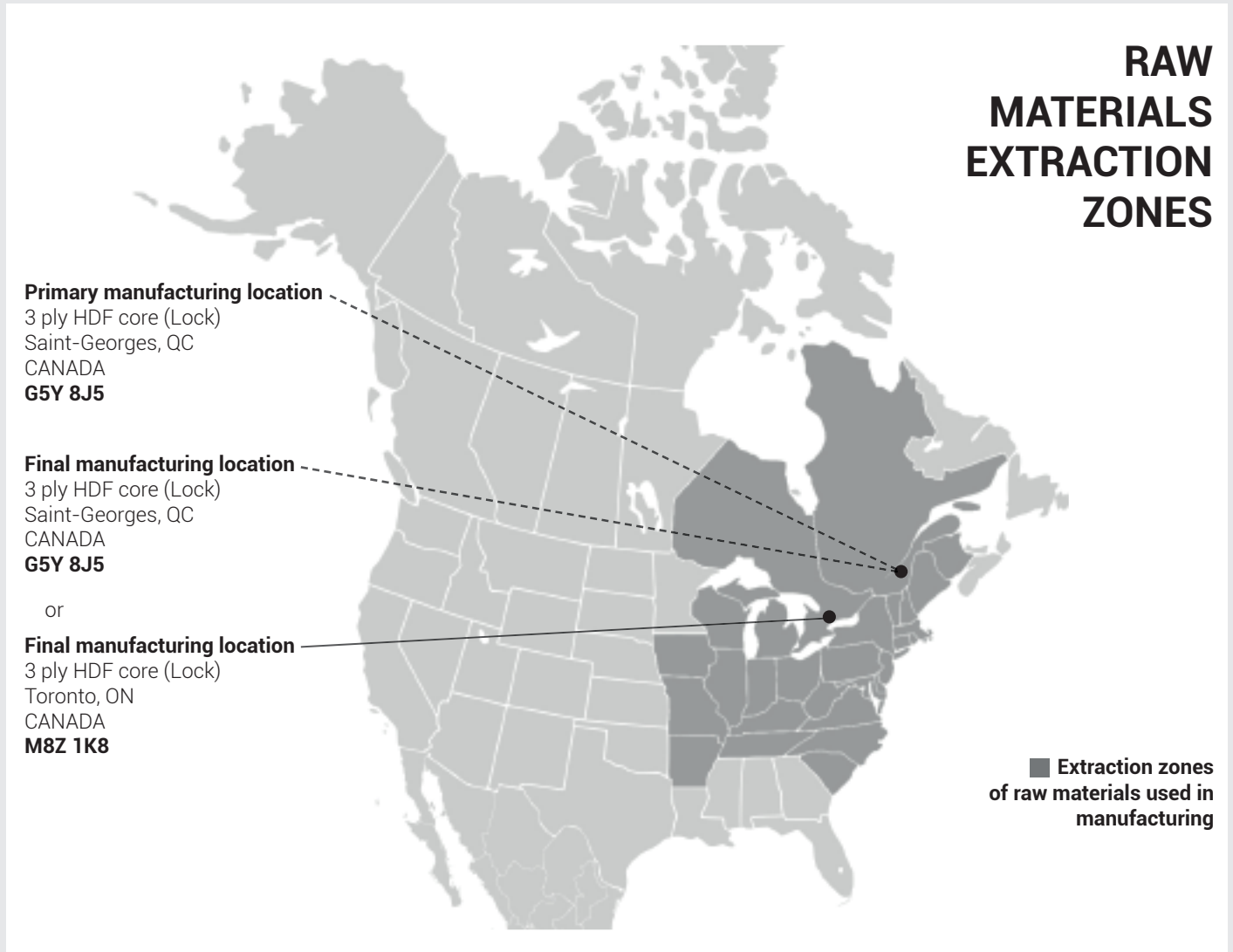
3 PLY HDF CORE (LOCK)



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## ATTRIBUTES (CONTINUED)

### SOURCING OF RAW MATERIALS (CONTINUED)



**1. EXTRACTION LOCATIONS OF HDF** (Details available upon request)

**2. 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.

**3. VENEER HARVEST LOCATION** (Details available upon request)

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## ATTRIBUTES (CONTINUED)

### CERTIFIED WOOD

When specified, PEFC certified 3 ply HDF core (Lock) could be available.  
(Contact Mirage for availability)



Certification agency			Product covered
Bureau de normalisation du Québec (BNQ)			Wooden floor
Certified site	Certification number	Traceability method	Period of validity
BOA-FRANC INC. St-Georges, QC CANADA	54327	Credit system	12/21/2017 to 12/20/2022

Validated Eco-Declaration – Certified Wood  
Methodology: on-site audit, supply chain evaluation and validation of certified wood documents confirming the type of certification.  
Vertima's procedure: VERT-032008-03, Second Edition.

## 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.

## INGREDIENTS AND EMISSIONS

### EPA TSCA TITLE VI COMPLIANT



The product meets EPA TSCA title VI criterias. Contact manufacturer for more details.

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## INGREDIENTS AND EMISSIONS (CONTINUED)

### DECLARATION OF CHEMICAL INGREDIENTS



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

**Period of validity:** May 2018 to February 2021

**HPD name:** 3 ply HDF core – St-Georges

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>.

**HPDC repository URL:** <http://www.hpd-collaborative.org/hpd-public-repository/>

The presented results are specific to 3 ply HDF core prefinished at St-Georges plant. For more details about the HPD® related to 3 ply HDF core prefinished at Toronto plant and entitled "3 ply HDF core - 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 1<sup>3</sup>

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> PBT (Persistent, Bioaccumulative, Toxic) | <input checked="" type="checkbox"/> Respiratory      | <input checked="" 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 checked="" 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      |   |

<sup>1</sup>Refer to Annex D of HPD® Open Standard Version 2.1, May 2017: <http://www.hpd-collaborative.org>

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

<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

Component	Role	Weight ratio	CAS <sup>1</sup>	GreenScreen® <sup>2</sup>	Other applicable score (for more details refer to the HPD®)
HDF	Main element	76.0%	64742-61-6 50-00-0	LT-1	LT-P1, LT-UNK and BM-4 scores also present
Hardwood	Main element	15.0%	-	-	-
Veneer	Back veneer	8.0%	-	-	-
Adhesives	Assembly	<1.0%	Undisclosed	LT-1	LT-P1, LT-UNK, BM-3 and BM-4 scores also present
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

<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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## 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:** 141106-02 (Maple) & 141106-03 (Oak)

**Issue Date:** November 6, 2014

**Final manufacturing location:** St-Georges, QC

**Analytical Lab:** Berkeley Analytical

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

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

**Product Coverage<sup>5</sup>:** 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:** 171017-01

**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 <sup>1</sup>	Individual VOCs of Concern <sup>2</sup>		Formaldehyde <sup>3</sup>		TVOC <sup>4</sup>
	Criterion	Compliant	Criterion	Compliant	Range
School Classroom	≤½ Chronic REL	Yes	≤9.0 µg/m <sup>3</sup>	Yes	≤0.5 mg/m <sup>3</sup>
Private Office	≤½ Chronic REL	Yes	≤9.0 µg/m <sup>3</sup>	Yes	≤0.5 mg/m <sup>3</sup>

**Product Coverage<sup>5</sup>:** Not applicable

Source: Berkeley Analytical - VOC Emission Test Certificate

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

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

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

<sup>4</sup>Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m<sup>3</sup>, >0.5 – 4.9 mg/m<sup>3</sup>, and ≥5.0 mg/m<sup>3</sup>.

<sup>5</sup>Informative 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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## 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	<b>Building Product Disclosure and Optimization – Sourcing of Raw Materials</b> Option 2: Leadership extraction practices (1 point) Recycled Content and see Pilot-Credits MRpc102: Legal Wood	Contribute (pilot-credits)	<b>ATTRIBUTES</b> Recycled Content Pre-consumer (58.5% - 59.6%) PEFC Certification (when specified)
			<b>INGREDIENTS AND EMISSIONS</b> HPD® version 2.1 Health Product Declaration®
MR	<b>Building Product Disclosure and Optimization – Material Ingredients</b> Option 1: Material ingredients reporting (1 point) The 3 ply HDF core (Lock) 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	<b>ATTRIBUTES</b> Recycled Content Pre-consumer (58.5% - 59.6%) PEFC Certification (when specified)
			<b>INGREDIENTS AND EMISSIONS</b> HPD® version 2.1 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	<b>Low-Emitting Materials</b> 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	<b>INGREDIENTS AND EMISSIONS</b> The 3 ply HDF core (Lock) 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	<b>Certified Tropical Wood</b>	-	<b>ATTRIBUTES</b> To meet the prerequisite, don't select tropical species of Mirage.
MR	<b>Environmentally Preferable Products</b> Maximum of 4 points depending on both options in the context of each project. Option 2: Environmentally Preferable Products 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. See Pilot-Credits MRpc102: Legal Wood The 3 ply HDF core (Lock) meets at least 2 criterions for this option since contain at least 50% of pre-consumer recycled and the product is PEFC Certified when specified.	Contribute (pilot-credits)	<b>ATTRIBUTES</b> Recycled Content Pre-consumer (58.5% - 59.6%) PEFC Certification (when specified)
			<b>INGREDIENTS AND EMISSIONS</b> The 3 ply HDF core (Lock) has been tested according with the standard method of the California Department of Public Health (CDPH).
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	<b>Low-Emitting Products (0.5-3 points)</b> At least 90% of all materials in each category must meet credit requirements.	Contribute	<b>INGREDIENTS AND EMISSIONS</b> The 3 ply HDF core (Lock) 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.

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