


NU GREEN® FR MDF

Uniboard® NU Green® FR MDF is an engineered wood product that uses a special chemical system to achieve a Class A / Class 1 fire rated panel. NU Green® FR MDF is designed for interior use in residential, commercial and institutional applications, where a non-structural panel is required.

VALIDATED ECO-DECLARATION

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PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
References Fired-rated Medium Density Fiberboard (MDF) laminated or not laminated Mont-Laurier, Quebec J9L 3W3 Sayabec, Quebec G0J 3K0 Val-d'Or, Quebec J9P 5G6 CANADA	Life Cycle Assessment - Reference service life - Product's carbon footprint - Environmental Product Declaration Industry-wide (generic) - ISO 14025:2006, Type III	Performance tests ANSI A208.2-2016 /ASTM E84/ASTM 1037
Components Wood fibers, flame retardant, diisocyanate resin, water, wax and melamine-cellulose	INGREDIENTS AND EMISSIONS	MANUFACTURER'S ENVIRONMENTAL MANAGEMENT
ATTRIBUTES	Declaration of chemical ingredients 1,000 ppm Type of declaration HPD® version 2.1.1 Health Product Declaration®	Certification ISO 14001 - Extended Producer Responsibility (Take Back Program) - Corporate Sustainability Report (CSR : GRI, ISO 26000, BNQ 21000 or others) -
Recycled Content Pre-consumer: 74.7% - 76.8% Post-consumer: 0%	Emission test - COV - Formaldehyde ≤ 0.04 ppm	CERTIFICATIONS AND CONFORMITIES
Sourcing of raw materials The origin and extraction location of raw materials have been documented for 74.7% - 76.8% of the final product weight ratio.	Others TSCA Title VI compliant No added Formaldehyde (NAF) Certified	 www.fsc.org FSC® C002807 The mark of responsible forestry
Certified Wood NC-COC-002726		 TSCA TITLE VI COMPLIANT
Rapidly renewable materials -		 SUSTAINABLE USE OF WOOD FIBER (NFA) Composite Panel Association ECO-CERTIFIED Eco-Standard 4-10
Biobased materials -		

Uniboard Canada Inc. is a leading North American manufacturer of engineered wood products, with installed capacity of over 660 million square feet of raw particleboard, high-density and medium-density fiberboard, of which over 50% is converted into value-added TFL.

5555, Ernest Cormier Street, Laval, Quebec H7C 2S9 CANADA
www.uniboard.com

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ENVIRONMENTAL DATA SHEET

NU GREEN® FR MDF



Manufactured from softwoods and hardwoods, this renowned solid wood substitute is well suited to a range of applications, such as commercial and residential furniture, store fixtures, cabinets, millwork, flooring and slotwall. Uniboard's NU Green® FR MDF is available in a wide selection of dimension and thicknesses, as well as with a section of melamine color.

ATTRIBUTES

RECYCLED CONTENT

Components	Weight ratio	Pre-consumer	Post-consumer
Wood fibers	74.7% - 76.8%	100%	0%
Final product	Weight ratio	Pre-consumer	Post-consumer
NU Green® FR MDF	100%	74.7% - 76.8%	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%	Mont-Laurier, Quebec J9L 3W3 CANADA Sayabec, Quebec G0J 3K0 CANADA Val-d'Or, Quebec J9P 5G6 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	Location of suppliers	Extraction location	Transport from suppliers
Wood fibers	74.7% - 76.8%	N/A	QC, ON and North-East of the United-States	Road
Fire-rated	14.1% - 14.5%	N/A	N/A	N/A
Diisocyanate resin	3.7% - 3.8%	N/A	N/A	N/A
Water	4.0% - 4.1%	N/A	N/A	N/A
Wax	0.7% - 0.8%	N/A	N/A	N/A
Melamine-Cellulose	0.0% - 2.8%	N/A	N/A	N/A

The origin and extraction location of raw materials have been documented for 74.7% - 76.8% of the final product 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 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.

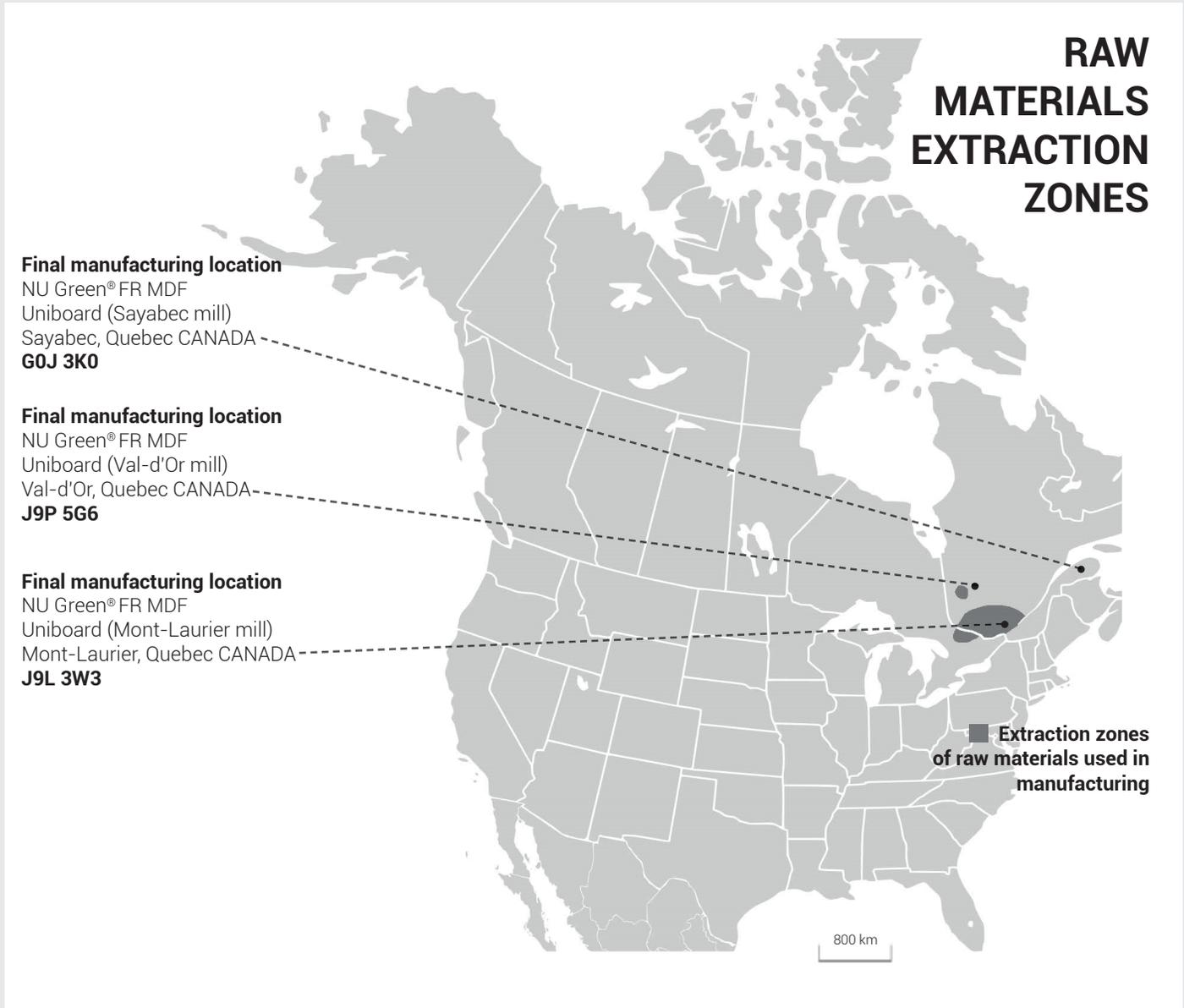
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ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)



HARVEST LOCATIONS OF WOOD FIBERS: (Details available upon request)

Canada (Quebec, New Brunswick and Ontario) and North East of the United States

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ENVIRONMENTAL DATA SHEET

NU GREEN® FR MDF



ATTRIBUTES (CONTINUED)

FSC® CERTIFICATION

FSC® Certified NU Green® FR MDF (When specified)



NU Green® FR MDF	% Wood component	% FSC® - certified Wood	Total % FSC® - Certified wood used in the final assembly of the product versus the total weight of the wood components (based on weight ratio)	
Wood fibers	74.7% - 76.8%	74.7% - 76.8%	100%	
Uniboard mills		Certification number	Certification agency	Period of validity
Mont-Laurier, Quebec J9L 3W3 Sayabec, Quebec G0J 3K0 Val-d'Or, Quebec J9P 5G6 CANADA		NC-COC-002726	FSC controlled wood, FSC Mix	11/6/2017 to 11/05/2022

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

DECLARATION OF CHEMICAL INGREDIENTS



Type of declaration: Health Product Declaration® (HPD®) version 2.1.1

Period of validity: July 15, 2019 to July 15, 2022

The content of Uniboard NU Green® FR MDF was assessed for health hazard warnings as required using Pharos¹.

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: Benchmark 1²

- | | | |
|---|---|---|
| <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 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 type="checkbox"/> Aquatic toxicity | <input type="checkbox"/> Unknown |
| <input checked="" type="checkbox"/> Endocrine | <input checked="" type="checkbox"/> Skin or eye | |

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

²GreenScreen (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).



ENVIRONMENTAL DATA SHEET

NU GREEN® FR MDF



INGREDIENTS AND EMISSIONS (CONTINUED)

DECLARATION OF CHEMICAL INGREDIENTS (CONTINUED)

TABLE OF INGREDIENTS

Composant	Rôle	Rapport massique	CAS ¹	GreenScreen ^{®.2}	Autre pointage applicable (pour plus de détails se référer à la HPD [®])
Particles wood	Main component	74.7 % - 76.8 %	9004-34-6	-	
Fire-rated	Fire-rated	14.1 % - 14.5 %	Undisclosed	LT-UNK	BM-4
Water	Humidity	4.0 % - 4.1 %	7732-15-5	BM-4	
Diisocyanate Resin	Resin	3.7 % - 3.8 %	Multiple	LT-UNK	
Wax	Repellant	0.7 % - 0.8 %	64742-61-6	LT-1	
Melamine-cellulose	Finishing	0.0 % - 2.8 %	Undisclosed	BM-1	LT-1, LT-P1. LT-UNK

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.

TECHNICAL PERFORMANCES

PERFORMANCE TESTS

Non-exhaustive list. See NU Green® FR MDF technical sheet at www.uniboard.com for more details.

- Medium Density Fiberboard (MDF) for Interior Applications Standard ANSI A208.2-2016;
- Flame Spread Index: Class 1 or A ASTM E84;
- 24-hour water submersion test from ASTM D1037, complies with ANSI A208.2 MR10 requirements and TSCA Title VI compliant;

WARRANTY

Lifetime warranty when NU Green® FR MDF are used for the purpose for which they have been designed, that is to say for indoor use.

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT PROGRAM

MANUFACTURER'S COMMITMENT

Respect for the environment underlines Uniboard®'s entire manufacturing process. Our environmental policy is based on the sustainable use of natural resources and was implemented with the health and well-being of our employees, customers and the community in mind.

Our environmental audit program helps us stay abreast of changing rules and regulations while identifying potential risks in our operations. Long before environmental concerns became mainstream, Uniboard was in the forefront by recycling post-industrial wood waste otherwise destined to be burnt or sent to land fill.

Today, we continue to ensure the proper use of wood fiber waste into value-added and environmental friendly products. Uniboard recuperates and reuses post-industrial and urban wood waste to reduce wood fiber consumption and land filling.

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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 – Sourcing or Raw Materials Option2: 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
			Recycled Content pre-consumer (74.7% - 76.8%) and FSC®- Certified (100%) (When specified)
MR	Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point)	Contribute	INGREDIENTS AND EMISSIONS
			HPD® version 2.1.1 Health Product Declaration®

INDOOR ENVIRONMENTAL QUALITY

PRODUCT CONTRIBUTIONS

EQ	Low-Emitting Materials Option 1: Product category calculation (1-3 points) ¹ Number of points is dependant on the LEED rating system and the number of compliant categories. For the Composite Wood category 100% of composite wood not covered by other categories must meet the requirements.	Contribute ¹	INGREDIENTS AND EMISSIONS
			NAF Certified and CARB Phase 2

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

PRODUCT CONTRIBUTIONS

MR Prereq 1	Certified Tropical Wood	Prerequisite	ATTRIBUTES
			Uniboard's product do not contain tropical species
MR Credit 2	Environmentally Preferable Products Option 2: Environmentally Preferable Products ² At least 90% of all materials in each category must meet credit requirements. Nu Green® FR MDF contributes to 0.5 point for FSC® - Certified and to 0.5 point for Recycled Content.	Contribute ²	ATTRIBUTES
			Recycled Content pre-consumer (74.7% - 76.8%) and FSC®- Certified (100%) (When specified)

INDOOR ENVIRONMENTAL QUALITY

PRODUCT CONTRIBUTIONS

EQ Credit 7	Low-Emitting Products ³ At least 90% of all materials in each category must meet credit requirements. Nu Green® FR MDF contributes to 1point for CARB Phase 2 Compliant and ULEF Certified.	Contribute ³	INGREDIENTS AND EMISSIONS
			NAF Certified and CARB Phase 2

It is important to note that the points identified above are linked with each of the credits where the product contributes as part of a LEED® v4 certification process. The product itself is only one element among others to reach the target score.

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