





NU GREEN 2® PARTICLEBOARD

NU Green 2® Particleboard is a ULEF (Ultra-Low Emission Formaldehyde) raw particleboard. This new product is FSC® certified (Forest Steward Council®) for its chain of custody by NEPCo and ECC™ certified (Eco-Certifies Composite) by the Composite Panel Association (CPA). It is made using 100% pre-consumer recycled or recovered wood fiber. Uniboard's NU Green 2® Particleboard is available in a collection of melamine colours.

VALIDATED ECO-DECLARATION

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| PRODUCT SPECIFICATIONS | ENVIRONMENTAL IMPACTS | TECHNICAL PERFORMANCES |
|---|---|---|
| References NU Green 2® Particleboard laminated or not laminated | Life Cycle Assessment - | Performance tests ANSI A208.1-2016/ ASTM E84 |
| Final manufacturing location Sayabec, Quebec G0J 3K0 CANADA | Reference service life - | MANUFACTURER'S ENVIRONMENTAL MANAGEMENT |
| Components Wood particles, MUF resin, water, scavenger, catalyst and melamine-cellulose | Product's carbon footprint - | Certification ISO 14001 - |
| ATTRIBUTES | Environmental Product Declaration Industry-wide (generic) - ISO 14025:2006, Type III | Extended Producer Responsibility (Take Back Program) - |
| Recycled Content Pre-consumer: 82.9% - 85.6% Post-consumer: 0% | INGREDIENTS AND EMISSIONS | Corporate Sustainability Report (CSR : GRI, ISO 26000, BNQ 21000 or others) - |
| Sourcing of raw materials The origin and extraction location of raw materials have been documented for 82.9%-85.6% of the final product weight ratio. | Declaration of chemical ingredients 1,000 ppm | CERTIFICATIONS AND CONFORMITIES |
| Certified Wood NC-COC-002726 | Type of declaration HPD® version 2.1.1 Health Product Declaration® |    |
| Rapidly renewable materials - | Emission test - | The mark of responsible forestry |
| Biobased materials - | COV - | |
| | Formaldehyde ≤ 0.04 ppm | |
| | Others TSCA Title VI compliant Ultra-Low Emission Formaldehyde (ULEF) Certified | |

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.

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www.uniboard.com

MasterFormat®: **06 42 00**
 Validated Eco-Declaration:

VED16-1068-02

Original issue date: **05/2016**

Period of validity: **08/2019 to 08/2020**



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NU Green 2® Particleboard, a Ultra-Low Emission Formaldehyde (ULEF) particleboard, uses a fast-curing resin technology resulting in a product that is environmentally friendly, economical and exceeds the standards of CARB Phase 2. Formaldehyde emissions from NU Green 2® Particleboard are less than or equal to 0.04ppm. It is available in the widest selection of sizes and thicknesses.

ATTRIBUTES

RECYCLED CONTENT

| Components | Weight ratio | Pre-consumer | Post-consumer |
|---------------------------|---------------|---------------|---------------|
| Wood particles | 82.9% - 85.6% | 100% | 0% |
| Final product | Weight ratio | Pre-consumer | Post-consumer |
| NU Green 2® Particleboard | 100% | 82.9% - 85.6% | 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% | Sayabec, (Quebec) G0J 3K0 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 particules | 82.9% - 85.6% | N/A | QC, ON and North-East of the United-States | Road |
| MUF resin | 7.3% - 7.6% | N/A | N/A | N/A |
| Water | 5.5% - 5.7% | N/A | N/A | N/A |
| Melamine-Cellulose | 0.0% - 3.2% | N/A | N/A | N/A |
| Others | 1.1% - 1.2% | N/A | N/A | N/A |

The origin and extraction location of raw materials have been documented for 82.9%-85.6% 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)

RAW MATERIALS EXTRACTION ZONES

■ Extraction zones of raw materials used in manufacturing

Final manufacturing location

NU Green 2® Particleboard
Uniboard (Sayabec mill)
Sayabec, Quebec CANADA
G0J 3K0



800 km

HARVEST LOCATION OF WOOD PARTICLES : (Details available upon request)
Canada (Quebec, New-Brunswick and Ontario) and North-East of the United-States.

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ATTRIBUTES (CONTINUED)

FSC® CERTIFICATION

FSC® Certified NU Green 2® Particleboard (When specified)



The mark of responsible forestry

| NU Green 2® Particleboard | % 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 particles | 82.9% - 85.6% | 82.9% - 85.6% | 100% | |
| Uniboard mills | | Certification number | Certification agency | Period of validity |
| Sayabec, (Québec) G0J 3K0 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



VERSION 2.1

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 2® Particleboard 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 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 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).



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INGREDIENTS AND EMISSIONS (CONTINUED)

DECLARATION OF CHEMICAL INGREDIENTS

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 | 82.9% - 85.6% | 9004-34-6 | - | |
| UF Resin | Resin | 7.3% - 7.6% | Undisclosed | LT-1 | LT-UNK, BM-4, LT-P1 |
| Water | Humidity | 5.5% - 5.7% | 7732-15-5 | BM-4 | |
| Urea | Scavenger | 0.7% - 0.8% | 57-13-6 | LT-UNK | NoGS |
| Wax | Repellant | 0.3% | 64742-61-6 | LT-1 | |
| Ammonium Sulfate | Catalyst | 0.1% | 7783-20-2 | LT-P1 | |
| Melamine | Finishing | 0.0% - 3.2% | 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 particleboard product specifications sheet at www.uniboard.com for more information.

- Particleboard Standard ANSI A208.1-2016;
- Flame Spread Index: Class 3 or C ULC 723-10 (ASTM E84);
- Formaldehyde emissions test: Phase 2 of CARB ATCM 93120 and TSCA Title VI compliant.

WARRANTY

Lifetime warranty when NU Green 2® Particleboard 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 (82.9% - 85.6%) and FSC®- Certified (100%) (When specified) |
| | | | INGREDIENTS AND EMISSIONS HPD® version 2.1.1 Health Product Declaration® |
| MR | Building Product Disclosure and Optimization – Material Ingredients Option 1: Material ingredients reporting (1 point) | Contribute | ATTRIBUTES Recycled Content pre-consumer (82.9% - 85.6%) and FSC®- Certified (100%) (When specified) |
| | | | 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 ULEF Certified and CARB Phase 2 |
| | | | INGREDIENTS AND EMISSIONS ULEF 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.

| INDOOR ENVIRONMENTAL QUALITY | | PRODUCT CONTRIBUTIONS | |
|------------------------------|---|-------------------------|--|
| MR Prereq 1 | Certified Tropical Wood | Prerequisite | ATTRIBUTES Uniboard's product do not contain tropical species |
| | | | ATTRIBUTES Recycled Content pre-consumer (82.9% - 85.6%) and FSC®- Certified (100%) (When specified) |
| 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 2® Particleboard contributes to 0.5 point for FSC® -Certified and to 0.5 point for Recycled Content. | Contribute ² | ATTRIBUTES Recycled Content pre-consumer (82.9% - 85.6%) and FSC®- Certified (100%) (When specified) |
| | | | ATTRIBUTES Recycled Content pre-consumer (82.9% - 85.6%) 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 2® Particleboard contributes to 1point for CARB Phase 2 Compliant and ULEF Certified. | Do not contribute ³ | INGREDIENTS AND EMISSIONS ULEF Certified and CARB Phase 2 |
| | | | INGREDIENTS AND EMISSIONS ULEF 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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