

CSI/CSC Product Specification
Medium Density Fiberboard

GENERAL NOTES

The following document is provided to assist design professionals with product specifications, general information and language standards for paneling, casework, countertops, cabinetry, interior closets, residential and office furniture, shop and job site application of millwork finishes and similar architectural woodwork.

Appropriate language standards should be formatted and copied from this document into the specification section(s) desired of the project plans and specifications.

Sample language is provided for applicable articles in part 1, General and part 2, Products.

The following section format was jointly published by the Construction Specification Institute («CSI») and Construction Specifications Canada («CSC»). Article and paragraph numbers are used herein for information purposes only and are not relating to any similar articles nor document.

Green text and notes related to LEED® projects can be deleted if the project is not intended to attain LEED certification.

1. PART 1 – GENERAL**1.1. Included section**

- a. Architectural woodwork

1.2. Related Sections

- a. *Section 06410 – Custom casework*
- b. *Section 06100 - Rough Carpentry*
- c. *Section 09900 - Woodwork Finish: Painting*
- d. *Section 12302 - Wood Casework*
- e. *Section 12360 - Library Shelving and Casework:*

1.3. Abbreviation and acronyms

- a. ANSI: American National Standards Institute
- b. ASTM: American Society for Testing Materials
- c. AWMAC: Architectural Woodwork Manufacturers Association of Canada
- d. CARB: California Air Resources Board
- e. CPA: Composite Panel Association
- f. ECC: Eco- Certified Composite
- g. FSC®: Forest Stewardship Council
- h. LEED®: Leadership in Energy and Environmental Design**
- i. USGBC: U.S. Green Building Council**

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1.4. References Standards

- a. ANSI A208.2 - [2009] American Standards for MDF
- b. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building materials – MDF for interior applications
- c. AWMAC - Quality Standards for Architectural woodwork – [1984]
- d. USGBC LEED Green Building Rating System™

1.5. Submittals Procedures

- a. Product Data: Medium Density Fiberboard («MDF»)
- b. Sample size: [8" X 10" / 200mm X 250mm] or as per project specifications;
- c. Informational:
 - i. Material Certificates:
 - a) MDF manufacturer and following product certifications:
 - i. CARB Compliance: Phase 2 formaldehyde emissions certifications;
 - ii. CPA - ECC certification;
 - iii. FSC® certification.
 - ii. Material Safety Data Sheet for MDF.

For LEED project, include the following as applicable

- d. Sustainable Design Submittals - LEED v4 New Construction:
 - i. Materials and Resources Credit 4, Recycled Content: Particleboard manufacturer's product data indicating percent of pre-consumer and postconsumer recycled content;
 - ii. Materials and Resources Credit 5, Regional Materials: Particleboard manufacturer's product data, indicating harvest source location and location of manufacture.

If FSC panels are specified, credit for Materials and Ressources («MR») is available as follow. Refer and coordinate with article 2.1.f.

- iii. MR Credit 7, Certified Wood: MDF manufacturer's product data indicating FSC certificate registration code.

1.6. QUALITY ASSURANCE

- a. Qualifications:
 - i. MDF manufacturer:
 - a) FSC® - Mixed Sources accreditation
 - b) CPA member
 - c) CPA – ECC certification

2. PRODUCTS

2.1. Properties

MDF panels manufactured by Uniboard Canada Inc.

Standard grade used for most commercial and industrial application in North America is Grade 130. If other grades are specified, please contact Uniboard® for more information.

- a. Comply with Lacey Act Requirements [16 U.S.C. 33729F0];
- b. Comply with ANSI A208.2 [2009], Grade 130 [700–745 kg/m³ density], Grade 155 [740–770 kg/m³ density];

- c. Formaldehyde Emission Requirements: ≤ 0.11 ppm (CARB 2) > 8 mm and ≤ 0.13 ppm (CARB 2) ≤ 8 mm
- d. Recycled Content is 100 percent post industrial recovered and recycled wood fiber;
- e. Panel thickness: [6,35mm – 25,4mm] [1/4" – 1"] as per matrix in effect;
- f. Panel length: [4' x 8' - 1245mm X 2464mm] [5' x 9' – 1549mm X 3073mm] as per matrix in effect;
- g. Particleboard panels may be FSC[®] certified if required.

2.2. Materials

- a. Uniboard[®] MDF is produced using the latest in manufacturing technology. Superior surface quality, uniform density, precisely controlled thicknesses and sanding smoothness, product flexibility and consistent product characteristics.
- b. Options:
 - i. MDF Excel+ – ANSI A208.2 [2009] Grade 155 [740–770 kg/m³ density];
 - ii. MDF Excel – ANSI A208.2 [2009] Grade 130 [700–745 kg/m³ density];
 - iii. NU Green[®] MR-50 NAF MDF– ANSI A208.2 [2009], Grade 155 [730–750 kg/m³ density], with no added formaldehyde (NAF certified) Passes the 6 Cycle Accelerated Aging and the 24-hour Water Submersion Tests (MR50).

Uniboard[®] MDF panels meet the CARB Phase 2 standards and are available as FSC[®] certified. All wood fiber used in Uniboard[®] panels is postindustrial recovered and recycled.

2.3. Delivery, Storage and Handling

- a. Products must be unloaded under shelter. If the unloading is done outdoor, products must be stored under shelter as soon as possible. Avoid unloading when faced with inclement weather;
- b. Always inspect delivered goods upon reception and once unloaded. Verify if products were damaged, soiled or exposed to water;
- c. Never store the products outdoor. Avoid watering;
- d. Store goods in a dry and well ventilated area, away from production lines;
- e. Handle with care to avoid damages;
- f. Do not place panels directly on the floor;
- g. Maintain the storage area clean;
- h. Avoid extreme temperature during the storage and the use of panels;
- i. Control the ambient air at 21°C (70 F) and relative humidity between 35% and 45%;
- j. Allow time for panels to reach site temperature before use (minimum 1 week, 2 weeks ideally).

CSI/CSC Product Specification
NU Green® 2 Particleboard

GENERAL NOTES

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1. PART 1 – GENERAL**1.1. Included section**

- a. Architectural woodwork

1.2. Related Sections

- a. *Section 06410 – Custom casework*
- b. *Section 06100 - Rough Carpentry*
- c. *Section 09900 - Woodwork Finish: Painting*
- d. *Section 12302 - Wood Casework*
- e. *Section 12360 - Library Shelving and Casework:*

1.3. Abbreviation and acronyms

- a. ANSI: American National Standards Institute
- b. ASTM: American Society for Testing Materials
- c. AWMAC: Architectural Woodwork Manufacturers Association of Canada
- d. CARB: California Air Resources Board
- e. CPA: Composite Panel Association
- f. ECC: Eco- Certified Composite
- g. EPD: Environmental Product Declaration
- h. FSC®: Forest Stewardship Council
- i. LEED®: Leadership in Energy and Environmental Design**
- j. ULEF: Ultra Low Emitting Formaldehyde
- k. USGBC: U.S. Green Building Council**

1.4. References Standards

- a. ANSI A208.1 2009/Grade M-2 American Standards for Particleboard

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- b. AWMAC - Quality Standards for Architectural woodwork – [1984]
- c. ULEF – Formaldehyde emission ≤ 0.04 ppm
- d. USGBC LEED Green Building Rating System™.

1.5. Submittals Procedures

- a. Product Data for Particleboard NU Green 2;
- b. Sample size: [8" X 10" / 200mm X 250mm] or as per project specifications;
- c. Informational:
 - i. Material Certificates:
 - a) Particleboard NU Green 2 manufacturer and following product certifications:
 - i. CARB Compliance: meet ULEF requirements;
 - ii. CPA - EPP certification;
 - iii. EPD - Environmental Product Declaration.
 - ii. Material Safety Data Sheet for Particleboard;

For LEED project, include the following as applicable

- d. Sustainable Design Submittals - LEED v4 New Construction:
 - i. Materials and Resources («MR») Credit 4, Recycled Content: Particleboard manufacturer's product data indicating percent of pre-consumer and postconsumer recycled content;
 - ii. MR Credit 5, Regional Materials: Particleboard manufacturer's product data, indicating harvest source location and location of manufacture;
 - iii. Indoor Environmental Quality Credit 4.4, Low Emitting Materials: Particleboard manufacturer's product data, indicating compliance with ULEF formaldehyde emission requirements;

If FSC panels are specified, credit for Materials and Resources («MR») is available as follow. Refer and coordinate with article 2.1.f.

- iv. MR Credit 7, Certified Wood: Particleboard manufacturer's product data indicating FSC certificate registration code.

1.6. QUALITY ASSURANCE

- a. Qualifications:
 - i. Particleboard manufacturer:
 - a) FSC® - Mixed Sources Accreditation
 - b) CPA member
 - c) CPA – ECC Downstream licensed facility

2. PRODUCTS

2.1. Materials

NU Green® 2 ULEF Particleboard manufactured by Uniboard Canada Inc.

Standard grade used for most commercial and industrial application in North America is Grade M-2. If other grades are specified, please contact Uniboard for more information.

- a. Comply with ANSI A208.1, Grade M-2 [620-670 kg/m³ density];
- b. Comply with Lacey Act Requirements [16 U.S.C.3372(f)];
- c. ULEF Formaldehyde Emission Requirements: ≤ 0.04 ppm;
- d. Recycled Content is 100 percent postindustrial recovered wood fiber;
- e. Panel thickness: [11,11mm – 28,58mm] [7/16" – 11/8"] as per matrix in effect;

- f. Panel length: [4' x 8'- 1245mm X 2464mm] [5' x 8' – 1549mm X 2464mm] as per matrix in effect.

Clarification: All wood fiber used in Uniboard panels is postindustrial recovered.

2.2. Delivery, Storage and Handling

- a. Products must be unloaded under shelter. If the unloading is done outdoor, products must be stored under shelter as soon as possible. Avoid unloading when faced with inclement weather;
- b. Always inspect delivered goods upon reception and once unloaded. Verify if products were damaged, soiled or exposed to water;
- c. Never store the products outdoor. Avoid watering;
- d. Store goods in a dry and well ventilated area, away from production lines;
- e. Handle with care to avoid damages;
- f. Do not place panels directly on the floor;
- g. Maintain the storage area clean;
- h. Avoid extreme temperature during the storage and the use of panels;
- i. Control the ambient air at 21°C (70 F) and relative humidity between 35% and 45%;
- j. Allow time for panels to reach site temperature before use (minimum 1 week, 2 weeks ideally).

CSI/CSC Product Specification
Regular Particleboard

GENERAL NOTES

The following document is provided to assist design professionals with product specifications, general information and language standards for paneling, casework, countertops, cabinetry, interior closets, residential and office furniture, shop and job site application of millwork finishes and similar architectural woodwork.

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Green text and notes related to LEED® projects can be deleted if the project is not intended to attain LEED certification.

1. PART 1 – GENERAL**1.1. Included section**

- a. Architectural woodwork

1.2. Related Sections

- a. *Section 06410 – Custom casework*
- b. *Section 06100 - Rough Carpentry*
- c. *Section 09900 - Woodwork Finish: Painting*
- d. *Section 12302 - Wood Casework*
- e. *Section 12360 - Library Shelving and Casework:*

1.3. Abbreviation and acronyms

- a. ANSI: American National Standards Institute
- b. ASTM: American Society for Testing Materials
- c. AWMAC: Architectural Woodwork Manufacturers Association of Canada
- d. CARB: California Air Resources Board
- e. CPA: Composite Panel Association
- f. ECC: Eco- Certified Composite
- g. FSC®: Forest Stewardship Council
- h. LEED®: Leadership in Energy and Environmental Design**
- i. USGBC: U.S. Green Building Council**

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1.4. References Standards

- a. ANSI A208.1 - American Standards for Particleboard
- b. ASTM E 1333-[90] - Standard Test Method indicating the level of formaldehyde for wood products under defined conditions and using a large chamber
- c. AWMAC - Quality Standards for Architectural woodwork – [1984]
- d. USGBC LEED Green Building Rating System™.

1.5. Submittals Procedures

- a. Product Data for Particleboard;
- b. Sample size: [8" X 10" / 200mm X 250mm] or as per project specifications;
- c. Informational:
 - i. Material Certificates:
 - a) Particleboard manufacturer and following product certifications:
 - i. CARB Compliance: Phase 2 formaldehyde emissions certifications;
 - ii. CPA - ECC certification;
 - iii. FSC® certification.
 - ii. Material Safety Data Sheet for Particleboard;

For LEED project, include the following as applicable

- d. Sustainable Design Submittals - LEED v4 New Construction:
 - i. Materials and Resources Credit 4, Recycled Content: Particleboard manufacturer's product data indicating percent of pre-consumer and postconsumer recycled content;
 - ii. Materials and Resources Credit 5, Regional Materials: Particleboard manufacturer's product data, indicating harvest source location and location of manufacture;

If FSC panels are specified, credit for Materials and Ressources («MR») is available as follow. Refer and coordinate with article 2.1.f.

- iii. MR Credit 7, Certified Wood: Particleboard manufacturer's product data indicating FSC certificate registration code.

1.6. QUALITY ASSURANCE

- a. Qualifications:
 - i. Particleboard manufacturer:
 - a) FSC® - Mixed Sources accreditation
 - b) CPA member
 - c) CPA – ECC Downstream licensed facility

2. PART 2 - PRODUCTS

2.1. Properties

Particleboard: Particleboard manufactured by Uniboard Canada Inc.

Standard grade used for most commercial and industrial application in North America is Grade M-2. If other grades are specified, please contact Uniboard® for more information.

- a. Comply with ANSI A208.1, Grade M-S [600-650 kg/m³ density], Grade M-2 [620-670 kg/m³ density], Grade M-3 [650-690 kg/m³ density];
- b. Comply with Lacey Act Requirements [16 U.S.C.3372(f)];
- c. Formaldehyde Emission Requirements: ≤ 0.09 ppm (CARB Phase 2);
- d. Recycled Content is 100 percent post industrial recovered and recycled wood fiber;
- e. Panel thickness: [9,525mm – 38,1mm] [3/8" – 1 1/2"] as per on matrix in effect;

- f. Panel length: [4' x 8'- 1245mm X 2464mm] [5' x 12' – 1549mm X 3073mm] as per on matrix in effect.
- g. Particleboard panels may be FSC® certified if required.

2.2. Materials

- a. Uniboard® particleboards uses top-quality wood fibers bonded with a proprietary resin formulation developed and produced at its Unires facility in Val-d'Or, Quebec (not applicable for the Sayabec mill). Its smooth, dense and non-porous surface for laminating and machining. Uniboard® particleboard cuts easily and cleanly without chipping to optimize production time and minimizes waste.
- b. Options:
 - i. Particleboard ANSI A208.1 – [2009], Grade M–S [600-650 kg/m³ density] and Grade M–2 [620-670 kg/m³ density];
 - ii. NU Green Soya™ Particleboard ANSI A208.1 – [2009], Grade M–2 [620-670 kg/m³ density] Soya based adhesive technology [Eco-Certified Composite™ (ECC)];
 - iii. NU Green® 2 Particleboard ANSI A208.1 – [2009], Grade M–2 [620-670 kg/m³ density], A ULEF «Ultra Low Emission Formaldehyde» raw particleboard».

Uniboard® Particleboards meet the requirements of ANSI A208.1 as well as CARB Phase 2 standards and are available as FSC® certified. All wood fiber used in Uniboard® panels is postindustrial recovered and recycled.

2.3. Delivery, Storage and Handling

- a. Products must be unloaded under shelter. If the unloading is done outdoor, products must be stored under shelter as soon as possible. Avoid unloading when faced with inclement weather;
- b. Always inspect delivered goods upon reception and once unloaded. Verify if products were damaged, soiled or exposed to water;
- c. Never store the products outdoor. Avoid watering;
- d. Store goods in a dry and well ventilated area, away from production lines;
- e. Handle with care to avoid damages;
- f. Do not place panels directly on the floor;
- g. Maintain the storage area clean;
- h. Avoid extreme temperature during the storage and the use of panels;
- i. Control the ambient air at 21°C (70 F) and relative humidity between 35% and 45%;
- j. Allow time for panels to reach site temperature before use (minimum 1 week, 2 weeks ideally).

CSI/CSC Product Specification
Thermally fused Melamine Decorative Panels

GENERAL NOTES

The following document is provided to assist design professionals with product specifications, general information and language standards for paneling, casework, countertops, cabinetry, interior closets, residential and office furniture, shop and job site application of millwork finishes and similar architectural woodwork.

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1. PART 1 – GENERAL**1.1. Included section**

- a. Architectural woodwork

1.2. Related Sections

- a. Section 06410 – Custom casework
- b. *Section 06100 - Rough Carpentry*
- c. *Section 12302 - Wood Casework*
- d. *Section 12360 - Library Shelving and Casework:*

1.3. Abbreviation and acronyms

- a. ANSI: American National Standards Institute
- b. ASTM: American Society for Testing Materials
- c. AWMAC: Architectural Woodwork Manufacturers Association of Canada
- d. CARB: California Air Resources Board
- e. CPA: Composite Panel Association
- f. EN: European Norms
- g. EPP: Environmental Preferable Product
- h. FSC®: Forest Stewardship Council
- i. ISO: International Organization for Standardization
- j. LEED®: Leadership in Energy and Environmental Design**

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- k. NEMA: National Electrical Manufacturer's Association
- l. USGBC: U.S. Green Building Council**

1.4. References Standards

- a. ANSI A208.1-[1999] – Grade M2. Raw Particleboard for indoor application.
- b. ANSI A208.2-[2002] – Grade 130. Medium Density Fiberboard for indoor application.
- c. ASTM E 1333-[96] – Standard Test Method to determine the level of formaldehyde of wood products under specific conditions and using a large chamber.
- d. AWMAC – Quality Standards for Architectural woodwork – [last edition]
- e. CPA Appendix D – From the tree to the finished product – [MDF 1991 / Particles 1996] (Physical and Mechanical Properties Grademark Program and Quality control Manual)
- f. EN 438 2.14 High Pressure Decorative Laminates (HPL). Sheets based on thermally setting resins (usually called laminates. Determination of properties
- g. NEMA LD3-95 – Grade VGL-HGJ, Thermally fused Melamine. Performance, Application, Fabrication and Installation of High Pressure Decorative Laminates.
- h. USGBC LEED – Green Building Rating System™

1.5. Submittals Procedures

- a. Product Data : Thermally fused Melamine Particleboard
- b. Sample size: [12" X 12" / 300mm X 300mm] or as per project specifications;
- c. Informational:
 - i. Material Certificates:
 - a) Thermally fused Melamine Particleboard manufacturer and following product certifications:
 - i. CARB Compliance: Phase 2 formaldehyde emissions certifications;
 - ii. CPA - ECC certification;
 - iii. FSC® certification.
 - ii. Material Safety Data Sheet for Thermally fused Melamine Particleboard.

For LEED project, include the following as applicable

- d. Sustainable Design Submittals - LEED v4 New Construction:
 - i. Materials and Resources Credit 4, Recycled Content: Thermally fused Melamine Particleboard manufacturer's product data indicating percent of pre-consumer and postconsumer recycled content;
 - ii. Materials and Resources Credit 5, Regional Materials: Thermally fused Melamine Particleboard manufacturer's product data, indicating harvest source location and location of manufacture;
 - iii. Indoor Environmental Quality Credit 4.4, Low Emitting Materials: Thermally fused Melamine Particleboard manufacturer's product data, indicating compliance with CARB Phase 2 formaldehyde emission requirements;

If FSC panels are specified, credit for Materials and Ressources («MR») is available as follow. Refer and coordinate with article 2.1.e

- iv. MR Credit 7, Certified Wood: Particleboard manufacturer's product data indicating FSC certificate registration code.

1.6. Quality Assurance

- a. Qualifications:
 - i. Thermally fused Melamine Particleboard manufacturer:
 - a) FSC® - Mixed Sources accreditation
 - b) CPA member
 - c) CPA – ECC

2. PRODUCT

2.1. Properties

Thermally fused Melamine Particleboard manufactured by Uniboard® Canada Inc.

Standard grade used for most commercial and industrial application in North America is Grade M2. If other grades are specified, please contact Uniboard® for more information.

- a. Comply with ANSI A208.1, Grade [M-2];
- b. Formaldehyde Emission Requirements: Less than 0.09 ppm (CARB Phase 2);
- c. Recycled Content is 100 percent post industrial recovered Wood fiber.
- d. Physical characteristics:
 - i. Wear Resistance NEMA LD 3–2005:
 - a) Solid Colors: 400 cycles
 - b) Print: 125 cycles
 - ii. Stain Resistance:
 - a) Solid Colors: 1-10 no effect
 - b) Print: 11-15 moderate
 - iii. Impact Resistance: NEMA LD-3, 15 inches (381 mm per linear m)
 - iv. Fire Resistance: ASTM E-84, Class C or III
 - v. Warping: CPA Appendix D, 3 mm per linear m
 - vi. Color (Pattern) and texture:
 - a) Color: [As shown on drawings] [_____]
 - b) Texture: [as shown on drawings] Aura, Bistro®, Dolomite®, High Gloss, Rio®, Suede, Supermat®, Woodprint™
- e. Complementary products: [High pressure laminates, edge banding, mouldings, cabinet doors] refer to Melamine Brochures at www.uniboard.com.
- f. Particleboard panels may be FSC® certified if required.

2.2. Materials

- a. The Thermally fused Melamine panel: Uniboard® melamine is a composite wood-based panel onto which a decorative paper layer is thermally fused (heat and pressure) to the top and bottom surface in order to create a durable and decorative panel. The melamine resins used to bond the decorative paper and panel together are renowned for their unique physical properties including: durability; hardness; scratch and stain resistance as well as color stability.
- b. Edgebanding: exposed edges can be finished with different products including Polyester, thin PVC or 3mm PVC glued and shaped mechanically, solid wood, wood veneer or moulding (plastic, wood or metal).
- c. Options:
 - i. Melamine Particleboard ANSI A208.1 – [2009], Grade M–S [600-650 kg/m³ density] and Grade M–2 [620-670 kg/m³ density];
 - ii. MDF Excel+ Melamine ANSI A208.2 – [2009], Grade 155, 740–770 kg/m³ density (available as FSC® certified)
 - iii. NU Green Soya™ Melamine particleboard ANSI A208.1 – [2009], Grade M–2 [620-670 kg/m³ density] Soya based adhesive technology [Eco-Certified Composite™ (ECC)], NAF (No Added Formaldehyde);
 - iv. NU Green® 2 Melamine Particleboard ANSI A208.1 – [2009], Grade M–2 [620-670 kg/m³ density], A ULEF «Ultra Low Emission Formaldehyde» raw particleboard;

Uniboard® Particleboards meet the requirements of ANSI A208.1-2009 as well as CARB Phase 2 standards and are available as FSC® certified. All wood fiber used in Uniboard® panels is postindustrial recovered and recycled.

2.3. Fabrication

The melamine panels should not be exposed to any clamps or assembly methods. The melamine panels should be glued and assembled with mounting dowels method or screwed with plated finish.

2.4. Delivery, Storage and Handling

- a. Products must be unloaded under shelter. If the unloading process is performed outdoors, products must be stored under shelter as soon as possible. Avoid unloading when faced with inclement weather;
- b. Always inspect delivered goods upon reception and once unloaded. Verify if products were damaged, soiled or exposed to water;
- c. Never store the products outdoors. Avoid watering;
- d. Store panels in a dry and well ventilated area, away from production lines;
- e. Handle with care to avoid damages;
- f. Do not place panels directly on the floor;
- g. Maintain the storage area clean;
- h. Avoid extreme temperature during the storage and at the time of use of panels;
- i. Control the ambient air at 21°C (70 F) and relative humidity between 35% and 45%;
- j. Allow time for panels to reach site temperature before use (minimum 1 week, 2 weeks ideally).