

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).