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.

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

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" – 11/2"] 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).