Medium density fiberboard (MDF) is widely used in the manufacture of furniture, kitchen cabinets, door parts, mouldings, millwork and laminate flooring. MDF panels are manufactured with a variety of physical properties and dimensions, providing the opportunity to design the end product with the specific MDF needed.

The surface of MDF is flat, smooth, uniform, dense, and free of knots and grain patterns. The homogeneous density profile of MDF allows intricate and precise machining and finishing techniques for superior finished products. Trim waste is significantly reduced when using MDF compared to other substrates. Stability and strength are important assets of MDF, which can be machined into complex patterns that require precise tolerances.

PRODUCT STANDARDS, CERTIFICATION AND ENVIRONMENTAL SPECIFICATIONS

The ANSI A208.2 Medium Density Fiberboard (MDF) for Interior Applications is the North American industry voluntary standard. It classifies MDF by physical and mechanical properties and identifies product grades for MDF and thin MDF. Specifications identified in the Standard include physical properties, dimensional tolerances, mechanical properties and formaldehyde emission limits. ANSI A208.2 was developed through the sponsorship of the Composite Panel Association (CPA), in conjunction with producers, users and general interest groups. A summary of the MDF Property Requirements are included in this Guide, and copies of ANSI A208.2 are available from CPA.

MDF CONTINUED ON PAGE 38
MDF IS THE PERFECT SOLID WOOD SUBSTITUTE. THE STABILITY, STRENGTH AND HOMOGENEITY OF MDF ALLOW FOR AN INCREASING NUMBER OF APPLICATIONS. IT IS WIDELY USED IN THE MANUFACTURE OF KITCHEN CABINETS, MOULDING AND TRIM AS IT IS EASILY MACHINED AND LAMINATED OR PAINTED. IT IS OFTEN USED IN THE MANUFACTURE OF OFFICE FURNITURE AND LAMINATE FLOORING. MDF IS THE MANUFACTURING MATERIAL OF CHOICE FOR CUSTOM ARCHITECTURAL AND LARGE-FORMAT DOORS AND PANELING. IT IS MORE STABLE THAN SOLID WOOD, AND IT STANDS UP BETTER TO CHANGES IN HEAT AND HUMIDITY, RESULTING IN A LOWER LEVEL OF REQUIRED CARE AND MAINTENANCE.

Our new all-metal panel mount... …for fire-retardant panels and extreme performance

The latest addition to the Button-fix range is diecast in a durable zinc alloy and designed for demanding applications.

For details of our dealers, visit button-fix.com/where-to-buy

Button-fix is available in the USA through:

- ecosupply
- Häfele
- Lee Valley
- standoffs.com
MDF may be the perfect substrate. It machines like butter, doesn’t warp or split like solid wood and can be laminated or coated with ease.

Environmental Product Declarations (EPDs) are the widely accepted standardized specification format for communicating the environmental footprint and performance of a product. EPDs are the definitive source of environmental technical data that is scientifically based on life cycle analysis and can be used to directly compare alternative product materials. The existing industry-wide EPD for North American MDF was recently updated and is now available. See “Selecting Composite Wood Panels” on pages 8-9 of this Guide for additional information.
FORMALDEHYDE EMISSION LIMITS

All manufacturers of MDF sold in the U.S. must meet the third-party certification and formaldehyde emissions testing requirements under the EPA TSCA Title VI and California Air Resources Board Airborne Toxic Control Measure (CARB ATCM 93120) regulations. In compliance with TSCA Title VI, ANSI A208.2 has a tiered system of emission levels allowing a maximum of 0.11 ppm for MDF panels thicker than 8 mm, and 0.13 ppm maximum limit for thin MDF (< 8 mm). To meet the needs of the market, many MDF manufacturers offer ultra-low emitting formaldehyde (ULEF) and no added formaldehyde (NAF) products. Those companies currently producing ULEF and NAF products are identified in the product listings in this Guide.

In addition, CPA's Eco-Certified Composite (ECC) Grademark Certification Program requires that certified participants meet the stringent emission limits in the EPA TSCA Title VI and CARB ATCM 93120 regulations.

Finally, various overlays and surface treatments have been shown to significantly reduce product emissions. For additional information about emissions, see the CPA Technical Bulletin “VOC Emission Barrier Effects.”

MDF is the perfect solid wood substitute. The stability, strength and homogeneity of MDF allow for an increasing number of applications. Its low surface variance makes it extremely smooth and the perfect substrate for high-gloss finishes popular in modern homes.
## Medium Density Fiberboard

### COMPANY AND MILL LOCATION | BRAND NAMES | WOOD SPECIES | CERTIFIED WOOD | ECC CERTIFIED | PRESS SIZE (FT.) | THICKNESS RANGE (IN.) | DENSITY RANGE (LBS/FT³)
---|---|---|---|---|---|---|---
**ARAUCO NORTH AMERICA**
www.arauco-na.com • (800) 268-9830
Bennettsville, South Carolina
- Trupan®, Trupan®Plus, Trupan® HD, Trupan® MR, Vesta ULEF
- Pine
- FSC
- C-MDF, CS, FR, HD, LD, LF, M, MR
- 5 x 18
- 3/8 - 2
- 39 - 55
Eugene, Oregon
- Trupan®, Trupan®Plus, Trupan® HD, FR, Like, Trupan® Vesta NA 50 M50, Vesta NAF
- Douglas Fir, Hemlock
- FSC
- C-MDF, FR, HD, LD, MR
- 4 x 16
- 1/4 - 1/4
- 34 - 55
Malvern, Arkansas
- Trupan®, Trupan®Plus, Trupan® HD, Vesta ULEF
- Pine
- FSC
- CS, HD, LD, MR, S
- 5 x 24
- 3/8 - 1/2
- 41 - 50
Moncure, North Carolina
- Trupan®, Trupan®Plus, Trupan® MDF, Trupan®Plus MDF, Trupan® SW, Trupan® Lite, Vesta
- Pine/Hardwoods
- FSC
- HD, LF, LD, M
- 10 x Continuous
- 7/32 - 1
- 39 - 58
Sault Ste. Marie, Ontario
- Trupan®, Trupan®Plus, Trupan® SW, Trupan® Lite, Vesta
- Mixed Hardwoods
- FSC
- B, CS, F, FR, FO, HD, LF, M, P, PA, PE, PR
- 5 x Continuous
- 1/16 - 5/16
- 55 - 62
Tupan®, Trupan®Plus, Trupan® HD
- Douglas Fir
- FSC
- CS, HD, LF, MR, S
- 5 x 18
- 3/8 - 2
- 39 - 55
**DURAPLAY DE PARRAL S.A.P.I. DE C.V.**
www.duraplay.com.mx • +52 627 523 98 00
Parral, Chihuahua, Mexico
- Duraplay
- Ponderosa Pine
- FSC
- B, CS, DC, FO, LP, LD, M, MO, P, PE, S, W
- 8 x Continuous
- 1/8 - 1/2
- 38 - 56
**GP WOOD PRODUCTS LLC**
www.buildgp.com • (800) 424-2311
Mt. Jewett, Pennsylvania
- ULTRASTOCK
- Mixed Hardwoods
- FSC
- BE, CS, FR, HD, LD, LF, MO, MR, S
- 9 x 25
- 1/4 - 1/2
- 40 - 55
**KRONOSPAN LLC**
www.kronospan-express.com • (256) 741-8755
Eastaboga, Alabama
- Kronospan MDF
- Southern Pine, Light Hardwood
- FSC
- CS, HD, LF, MR
- 10 x Continuous
- 3/16 - 3/4
- 40 - 55
Shippensburg, Pennsylvania
- Standard Premium, Flooring Premium, Standard Premium High Density
- Hardwoods, Northern Softwoods
- FSC
- HD, LF, MR
- 10 x Continuous
- 3/16 - 1
- 40 - 54
**LANGBOARD, INC.**
www.langboard.com • (912) 534-5959
Willacoochee, Georgia
- Langboard MDF, Elite®
- Southern Yellow Pine
- PEFC
- BE, CS, DC, MO, S, ST, TM
- 5 x 18
- 3/8 - 1/4
- 43 - 52
**MADERAS CONGLOMERADAS S.A. DE C.V.**
www.macosa.com.mx • +52 (55) 5715 5870
Tlalnepantla, Mexico
- MACOCCELL
- Pine
- FSC
- CS, FO, LP, P, PE, W
- 4 x Continuous
- 1/2 - 7/32
- 48 - 51
<table>
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<tr>
<th>COMPANY AND MILL LOCATION BRAND NAMES</th>
<th>WOOD SPECIES</th>
<th>CERTIFIED SPECIAL ITEMS AND TREATMENTS</th>
<th>PRESS SIZE (FT.)</th>
<th>THICKNESS (IN.)</th>
<th>DENSITY RANGE (LBS/FT³)</th>
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<tbody>
<tr>
<td>Bennettville, South Carolina</td>
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<td>ROEBLING</td>
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<td>El Dorado, Arkansas</td>
<td>Southern Pine</td>
<td>FSC</td>
<td>9 x Continuous</td>
<td>3/16 – 1-1/8</td>
<td>40 – 60</td>
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<tr>
<td>Medford, Oregon</td>
<td>Western Softwoods</td>
<td>FSC</td>
<td>5 x 18</td>
<td>1/4 – 1-1/2</td>
<td>40 – 55</td>
</tr>
<tr>
<td>Pembroke, Ontario</td>
<td>Canadian Softwood</td>
<td>FSC</td>
<td>10 x Continuous</td>
<td>1/4 – 1-1/8</td>
<td>40 – 60</td>
</tr>
<tr>
<td>Sault Ste. Marie, Ontario</td>
<td>Spruce, Pine, Fir</td>
<td>FSC</td>
<td>10 x Continuous</td>
<td>1/4 – 1-1/8</td>
<td>40 – 60</td>
</tr>
<tr>
<td>Mt. Gilead, North Carolina</td>
<td>Southern Yellow Pine</td>
<td>FSC</td>
<td>10 x Continuous</td>
<td>1/6 – 3/4</td>
<td>40 – 60</td>
</tr>
<tr>
<td>WEST FRASER</td>
<td>WestPine, EcoGold®, EcoHD Plus</td>
<td>SFI</td>
<td>10 x Continuous</td>
<td>1/0 – 3/4</td>
<td>41 – 60</td>
</tr>
<tr>
<td>Quesnel, British Columbia</td>
<td>Spruce, Pine, Fir</td>
<td>SFI</td>
<td>6 x 24</td>
<td>3/8 – 1-1/2</td>
<td>41 – 60</td>
</tr>
<tr>
<td>Blue Ridge, Alberta</td>
<td>Spruce, Pine, Fir</td>
<td>SFI</td>
<td>10 x Continuous</td>
<td>1/6 – 1-1/2</td>
<td>40 – 60</td>
</tr>
<tr>
<td>SPECIAL ITEMS AND TREATMENTS:</td>
<td>Base Coat (B), Bullnose Edge (BE), Countertop (C), Concrete Form (CF), Colored MDF (C-MDF), Cut to Size (CS), Door Core (DC), Door Stiles and Rails (SR), Edge Fill (EF), Edge Tape (ET), Fill (IF), Fire Retardant (FR), Flush Door Skins (FD), Foil (FO), High Density (HD), Hot Melt Wax (HM), Laminate Flooring Substrate (LF), Laminated Products (LP), LockBlocks (LB), Low Density (LD), Thermally Fused Laminate (TFL), Mende (MN), Moisture Resistant (MR), Moulding (MO), Moulded Door Skins (MDS), Paint (P), Paper (PA), Perforated (PE), Prefinished (PF), Print (PR), Shelving (S), Smooth Siding (SS), Stair Tread (ST), Textured Siding (TS), Topcoat (T), Tongue and Groove (TG), Turning and Moulding (TM), Vinyl (V), Wood Veneer (W)</td>
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ADDITIONAL COMPANY CONTACT INFORMATION CAN BE FOUND ON PAGES 98–100.
Information about company products offered by category can be found on pages 84-97.
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Information about company products offered by category can be found on pages 84-97.