

EcoPlus MR50 MDF Specifications



MDF Properties (Imperial)	1/4"	1/2"	5/8" - 3/4"
Density (pcf)	55.5	46.5	46.5
Internal Bond (psi)	230	130	130
MOR - Modulus of Rupture (psi)	7,500	5,600	5,600
MOE - Modulus of Elasticity (kpsi)	550	480	480
Face Screw Holding (lbs)	NA	330	330
Edge Screw Holding (lbs)	NA	NA	270
24-Hour Thickness Swell	< 0.0325 in	< 0.0325 in	< 5.5%
Linear Expansion* (%)	< 0.3		
Thickness Tolerance (in)	± 0.005		
Moisture Content (%)	4 - 7		

MDF Properties (Metric)	6.35mm	12mm	15mm - 19mm
Density (kg/m ³)	889	745	745
Internal Bond (N/mm ²)	1.6	0.9	0.9
Modulus of Rupture (N/mm ²)	52	39	39
Modulus of Elasticity (N/mm ²)	3,792	3,310	3,310
Screw Holding-Face (N)	NA	1,468	1,468
Screw Holding-Edge (N)	NA	NA	1,201
24-Hour Thickness Swell	< 0.825 mm	< 0.825 mm	< 5.5%
Linear Expansion* (%)	< 0.3		
Thickness Tolerance (mm)	± 0.125		
Moisture Content (%)	4 - 7		

WestPine MDF Certification:

- Formaldehyde Emissions: No Added Formaldehyde (NAF) manufacturer of MDF (EPA TSCA Title VI, CARB ATCM 93120)
- Composite Panel Association: Eco-Certified Composite Program (ECC 4-19) and Formaldehyde Emissions Grademark Program (NAF)
- Scientific Certification Services: Recycled Content (SCS-MC-01443)
- Forest Stewardship Council: Standard for Chain of Custody Certification (FSC-STD-40-003 v2-1, FSC-STD-40-004 v3-0) and the Standard for Company Evaluation of FSC Controlled Wood (FSC-STD-40-005 v3-1)



Other Characteristics:

- Standard finish on all panels is 150 grit.
- Finished sizes:
Width: 45" to 62" Length: 72" to 205"
- Third party testing:
 - Surface Burning Characteristics: Verification shows that the samples tested being Class III or Class C in accordance with CAN/ULC-S102 and ASTM E-84.
 - Linear Expansion: Verification shows that the samples tested meets the tolerance limits of ≤ 0.33% measured between 50% - 80% RH in accordance to ASTM D1037-12.
 - MR50: Third Party testing shows that the samples tested meet both the the reduced thickness swell criteria and the MOR criteria for advanced bond integrity.
- All physical property values represent the compiled average of quality assurance testing conducted at WestPine.
- WestPine EcoPlus MR50 MDF complies with ANSI A208.2-2016 using the prescribed test methods in ASTM D1037-12.
- WestPine EcoPlus MR50 is manufactured from 100% western white softwoods. Appearance is a consistent light sandy color.

WestPine MDF, a Division of West Fraser Mills Ltd.
 1250 Brownmiller Road, Quesnel, BC, Canada V2J 6P5
 Phone: (250) 992-9254 | E-mail: mdf@westfraser.com
 (2019)

