

# MOISTURE RESISTANT MDF



*New From*



## **ECO** **PLUS** MR50™

## A New Standard in the Fight Against Moisture

EcoPlus MR50 Moisture Resistant MDF meets or exceeds the requirements defined in ANSI MR50, and is specifically designed to perform in non-structural interior applications where humidity may be a concern.

### EcoPlus MR50 Provides:

- Made from 100% no added formaldehyde resin (NAF)
- FSC® C010784
- Ultra-low Emissions - CARB exempt
- ECC 4.11 Certified Panels
- 100% Recycled Fiber
- LEED POINTS POSSIBLE. 4.1, 4.2, 5.1, 5.2, 7, 4.4
- Ideal for high humidity installations:

KITCHENS  
BATHROOMS  
RESTAURANTS  
HEALTH/CHILD CARE FACILITIES  
COMMERCIAL BUILDINGS



Imperial	1/2"	5/8"	3/4"
Density	46.5 pcf	46.5 pcf	46.5 pcf
Internal Bond	130 psi	130 psi	130 psi
Modulus of Rupture	4,500 psi	4,500 psi	4,500 psi
Modulus of Elasticity	400,000 psi	400,000 psi	400,000 psi
Screw Holding Face	350 lbs	325 lbs	325 lbs
Screw Holding Edge	n/a	300 lbs	300 lbs
Thickness Swell*	<0.0325 in	<5.5 %	<5.5 %
Linear Expansion	<0.3 %	<0.3 %	<0.3 %
Thickness Tolerance	±0.005 in	±0.005 in	±0.005 in

  

Metric	12.7mm	15.9mm	19.1mm
Density	745 kg/m <sup>3</sup>	745 kg/m <sup>3</sup>	745 kg/m <sup>3</sup>
Internal Bond	0.90 N/mm <sup>2</sup>	0.90 N/mm <sup>2</sup>	0.90 N/mm <sup>2</sup>
Modulus of Rupture	31.0 N/mm <sup>2</sup>	31.0 N/mm <sup>2</sup>	31.0 N/mm <sup>2</sup>
Modulus of Elasticity	2758 N/mm <sup>2</sup>	2758 N/mm <sup>2</sup>	2758 N/mm <sup>2</sup>
Screw Holding Face	1557 N	1446 N	1446 N
Screw Holding Edge	n/a	1334 N	1334 N
Thickness Swell*	<0.825 mm	<5.5%	<5.5%
Linear Expansion	<0.3 %	<0.3 %	<0.3 %
Thickness Tolerance	±0.127 mm	±0.127 mm	±0.127 mm

## Characteristics

- \*EcoPlus MR50 meets or exceeds the reduced thickness swell and advanced bond integrity requirements for MR50
- Moisture content: Average moisture content of finished panels as shipped is 4 – 7%
- Formaldehyde emissions: WestPine EcoPlus MR50 is CARB compliant for NAF (complies with CCR 93120)
- Surface Burning Characteristics: Testing done on WestPine MDF show material being Class 3 or C in accordance with ULC Standard CAN/ULC-S102 and ASTM E-84
- WestPine MDF is certified with:
  - 1) Composite Panel Association's Eco-Certified Composite Grademark Program (ECC 4-11)
- Standard finish on all panels is 150 grit
- Finished sizes available:
  - Width 45" to 62"
  - Length 72" to 205"
- All physical property values represent the compiled average of quality assurance testing conducted on WestPine EcoPlus MR50. WestPine EcoPlus MR50 complies with ANSI A208.2 – 2009 using the prescribed test methods in ASTM D-1037.
- WestPine EcoPlus MR50 is manufactured from 100% western white softwoods. Appearance is a consistent light sandy color.

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