



# RANGER BOARD

## Premium MDF Specification



### Imperial

	7/16" – 1/2"	9/16" – 7/8"	15/16" – 1 1/4"
Density	48 pcf	47 pcf	46 pcf
Internal Bond	110 psi	110 psi	105 psi
Modulus of Rupture	4,500 psi	4,500 psi	4,000 psi
Modulus of Elasticity	450,000 psi	450,000 psi	450,000 psi
Screw Holding Face	325 lbs	325 lbs	315 lbs
Screw Holding Edge	N/A	300 lbs	300 lbs
Thickness Swell	0.045 in.	6 %	4 %
Maximum Linear Expansion & Contraction	0.3 %	0.3 %	0.3 %
Thickness Tolerance	± 0.005 in.	± 0.005 in.	± 0.005 in.

### Metric

	9mm - 12 mm	14 mm – 22 mm	23 mm – 32 mm
Density	769 kg/m <sup>3</sup>	753 kg/m <sup>3</sup>	737 kg/m <sup>3</sup>
Internal Bond	0.76 N/mm <sup>2</sup>	0.76 N/mm <sup>2</sup>	0.72 N/mm <sup>2</sup>
Modulus of Rupture	31.03 N/mm <sup>2</sup>	31.03 N/mm <sup>2</sup>	27.6 N/mm <sup>2</sup>
Modulus of Elasticity	3,103 N/mm <sup>2</sup>	3,103 N/mm <sup>2</sup>	3,103 N/mm <sup>2</sup>
Screw Holding Face	1,445 N	1,445 N	1,400 N
Screw Holding Edge	N/A	1,334 N	1,334 N
Thickness Swell	1.14 mm	6 %	4 %
Maximum Linear Expansion & Contraction	0.3 %	0.3 %	0.3 %
Thickness Tolerance	± 0.127 mm	± 0.127 mm	± 0.127 mm

### Other Characteristics

- Moisture content: Average moisture content of finished panels as shipped is 4 – 6%.
- Surface Burning Characteristics: Underwriters' Laboratories of Canada has classified Ranger Premium MDF as Class III or C in accordance with ULC Standard CAN/ULC-S102.2.
- Formaldehyde emissions: Ranger Board MDF – Certified CARB Phase 2 compliant (CCR 93120 CARB Composite Wood ATCM).
- Ranger Board is certified with:
  - Composite Panel Association Eco-Certified Composite Grademark Program (ECC 4-11) and ANSI A208.2 - 2009
  - Scientific Certification Services (SCS – MS – 01444)
  - Forest Stewardship Council Standard for Chain of Custody Certification (FSC-STD-40-004 v2-0) and the Standard for Company Evaluation of FSC Controlled Wood (FSC-STD-40-005 v2-0)
- Standard finish on all panels is 150 grit.
- Finished sizes available:  
Width 48" to 73"  
Length 48" to 205"  
Other sizes are available upon request.
- All physical property values represent the compiled average of quality assurance testing conducted on Ranger Premium MDF. Ranger Premium MDF complies with ANSI A208.2 – 2009 using the prescribed test methods in ASTM D-1037.
- Ranger Premium MDF is manufactured from 100% Western white softwoods. Appearance is a consistent light sandy color.