

Embassy Ceiling Inc. Specifications

Ranger Premium MDF Specifications

Imperial	7/16" – 1/2"	9/16" – 7/8"	15/16" – 1 1/4"
Density	47.5 pcf	46.5 pcf	45.5 pcf
Internal Bond	110 psi	110 psi	105 psi
Modulus of Rupture	4,750 psi	4,750 psi	4,750 psi
Modulus of Elasticity	475,000 psi	475,000 psi	475,000 psi
Screw Holding Face	325 lbs	325 lbs	315 lbs
Screw Holding Edge	N/A	300 lbs	300 lbs
Thickness Swell	0.040 in.	5 %	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	761 kg/m ³	745 kg/m ³	729 kg/m ³
Internal Bond	0.76 N/mm ²	0.76 N/mm ²	0.72 N/mm ²
Modulus of Rupture	32.8 N/mm ²	32.8 N/mm ²	32.8 N/mm ²
Modulus of Elasticity	3,275 N/mm ²	3,275 N/mm ²	3,275 N/mm ²
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	1.0 mm	5 %	4 %
Maximum Linear Expansion & Contraction	0.3 %	0.3 %	0.3 %
Thickness Tolerance	± 0.125 mm	± 0.125 mm	± 0.125 mm

Other Characteristics

1. Moisture content: Average moisture content of finished panels as shipped is 4 – 6% (depending on thickness).
2. Surface Burning Characteristics: Underwriters' Laboratories of Canada has classified Ranger Premium MDF in accordance with ULC Standard CAN/ULC-S102.2 Class III or C.
3. Formaldehyde emissions: Ranger Premium MDF complies with the CPA (Composite Panel Association) voluntary standard for MDF formaldehyde emissions, in Canada and the United States of America.
4. The Ranger Board MDF facility is certified under the Composite Panel Association (CPA) Environmentally Preferable Product (EPP) Grademark Program. The Ranger Board MDF facility, upon request, can produce Composite Panel Association (CPA) Environmentally Preferable Product (EPP) certified product.
5. Standard finish on all panels is 150 grit.
6. 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 – 2002 using the prescribed test methods in this standard ASTM D-1037.
7. Ranger Premium MDF is manufactured from 100% Western white softwoods. Appearance is a consistent light sandy color.