



## Alpine MDF

{Reduced formaldehyde emissions}

Premium EO

**Alpine Premium E0 MDF** has excellent strength quality, surface smoothness and stability and superior edge profile, with reduced formaldehyde emissions. Surfaces can be painted to achieve a high quality finish and provides a uniform substrate for overlaying. **Alpine Premium E0** can be worked easily with all conventional woodworking machines and hand tools. Tungsten carbide cutters and saws are recommended.

| SPECIFICATIONS         | UNITS             | < THICKNESS RANGE & TYPICAL VALUES > |          |           |          |
|------------------------|-------------------|--------------------------------------|----------|-----------|----------|
|                        |                   | <8mm                                 | 8 - 11mm | 12 - 22mm | 23- 32mm |
| Thickness Tolerance    | mm                | +/-0.2                               | +/-0.2   | +/-0.2    | +/-0.2   |
| Density                | Kg/m <sup>3</sup> | 790                                  | 750      | 740       | 710      |
| Internal Bond          | N/mm <sup>2</sup> | 0.800                                | 0.800    | 0.800     | 0.700    |
| Modulus of Rupture     | N/mm <sup>2</sup> | 40                                   | 40       | 35        | 34       |
| Modulus of Elasticity  | N/mm <sup>2</sup> | 3200                                 | 3000     | 3000      | 3000     |
| Screw Holding, Face    | N                 | N.A.                                 | N.A.     | ≥500      | ≥500     |
| Screw Holding, Edge    | N                 | N.A.                                 | N.A.     | ≥500      | ≥500     |
| Thickness Swell (24hr) | %                 | N.A.                                 | <10      | <8        | <7       |

### Product Performance:

**Alpine Premium EO MDF** should not be used in exterior applications, nor exposed to water or high humidity situations (saunas, shower cabinets); and should be kept clear of nearby heat sources such as solid fuel heaters and free-standing fireplaces. **Alpine Premium EO** is manufactured specifically for applications such as high quality furniture and joinery, using urea formaldehyde resin manufactured expressly to comply with the joint Australian New Zealand standards (JAS-ANZ), for formaldehyde emissions from finished MDF panels. Formaldehyde concentrations in areas without proper ventilation are significantly reduced by sealing all exposed surfaces and edges with two coats of paint or polyurethane. **Alpine Premium EO** is resistant to fungal decay provided that the board does not exceed 20% moisture content for extended periods. They are also resistant to attack by common household wood borer. There are no additives such as insecticides or fungicides.

### Longevity – Durability – Usage:

**Alpine Premium EO** is durable for **15 years** when used for non-bracing and non-structural interior applications in houses and used for the construction of fixtures such as benches or basin supports where:

- the top surface is covered with a tough impermeable covering such as melamine laminate, stainless steel or a polyester vanity unit
- the sides and edges are coated with a sealer and exposed faces and edges with two top coats of impervious coating
- damage to coatings is repaired

**Alpine Premium EO** is durable for **50 years** when used in dry interior environments. The bottom of Alpine MDF linings and floor level trim will swell and eventually deteriorate if exposed to persistent or cyclic wetting (e.g. saunas, spa rooms, shower rooms).

**Further uses:** Shelving, skirting trim, furniture, door jambs, stair treads and non-bracing linings.

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