

## Easycraft Fire Resistant (ECFR)

Profiles include:

easyvj, easygroove, easyregency, easypanel, easybeaded, easyascot, easyscreen, archipanel

**ECFR is a Group 2 Medium Density Fibreboard (MDF) with excellent fire retardant properties. Like other materials in the Easycraft range, Easycraft FR has a stable, homogeneous surface and excellent machining properties. This makes it suitable for many types of finishing – including laminating and veneering.**

### APPLICATIONS

ECFR is suitable for a range of applications where increased fire resistance is required, or where reduced fire reaction, flame spread and smoke development are important. So ECFR is the material of choice for any application requiring a group 2 product.

ECFR is a wood based panel and reacts to changes in moisture like natural timber – it is recommended for dry interior applications only, and should not be exposed to damp conditions or high humidity. Customers must assess and determine the suitability of ECFR to meet their specific project requirements.

**Note:** ECFR is manufactured to meet the Australian/New Zealand Standard for Low Formaldehyde Emission Class E1 (< 1.0 mg/L).

### PROPERTIES

(Typical physical properties when tested to AS/NZS 1859.2)

Specifications	Property Unit	THICKNESS & TYPICAL VALUES	
		12mm	18mm
Thickness Tolerance	mm	+/- 0.2	+/- 0.2
Density	kg/m <sup>3</sup>	750	740
Internal Bond	MPa	0.65	0.6
Modulus of Rupture	MPa	27.0	25.0
Modulus of Elasticity	MPa	2800	2500
Moisture Content	%	6-10	6-10
Thickness Swell (24hr)	%	<15.0	<12.0
Formaldehyde Level (E1 Classification)	mg/L	<0.8	<0.8

### FIRE TEST RESULTS

(Room Fire Test AS/NZS 3837-1998)

Classification	Result
Group Number	1
Average Specific Extinction Area (m <sup>2</sup> /kg)	120.2

\* Note: When a Veneer has been applied to FR MDF it becomes a Group 2

### THERMAL PROPERTIES

The thermal conductivity of MDF varies slightly with thickness with the usual range being 0.05 - 0.08 kcal/mh°C (0.12 - 0.15 W/m<sup>2</sup>K)

Like natural timber, MDF has a low thermal capacity. With the normal range of temperature variation, MDF is dimensionally stable and it's strength unaffected.

Check Easycraft website for the latest information.