

Composite Products Available from Bondor® Include:



www.bondor.com.au

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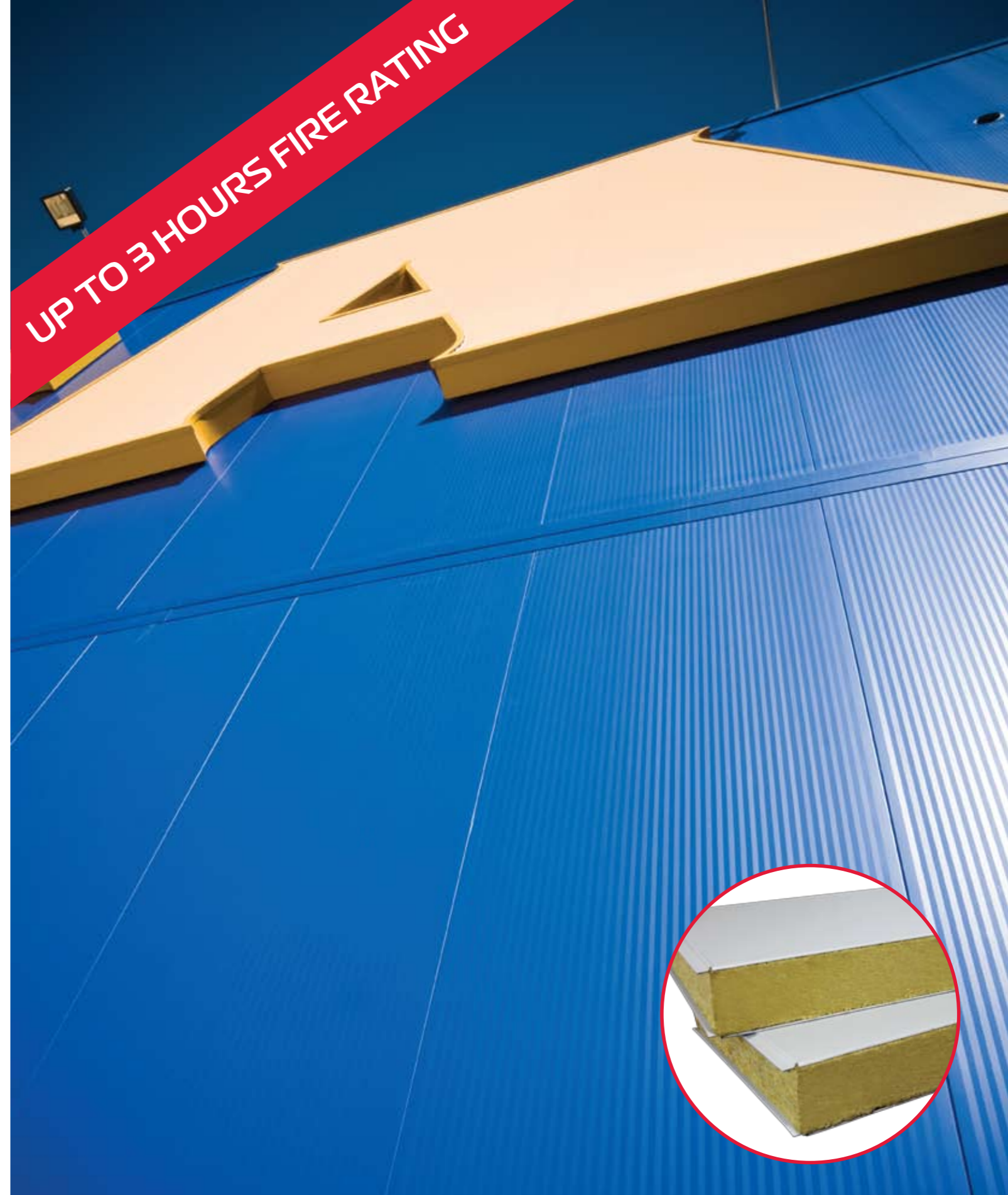
PERTH
17 Gauge Circuit Canning Vale WA 6155
Ph: (08) 9256 0600 Fax: (08) 9256 0620

MELBOURNE
329A St Albans Road Sunshine VIC 3020
Ph: (03) 8326 8000 Fax: (03) 8326 8099

SYDNEY
49-53 Newton Road Wetherill Park NSW 2164
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Fire Rated Panel



Features and Benefits

- ✓ All in one Fire Rated System – Exterior & Interior Walling, Insulation/Acoustic benefits, Fire Rated
- ✓ Class One material certified as FM Approved 4880 – Unlimited Height
- ✓ Achieve up to a 3 hour Fire Rating
- ✓ Provides a non-combustible building material solution for insulated composite panels.
- ✓ Design flexibility and simple installation
- ✓ Architectural surface finishes and colours available
- ✓ Concealed fixing options available
- ✓ Long lengths available – up to 12 metres*
- ✓ Panel skins manufactured and warranted by BlueScope Steel.
- ✓ No ozone depleting materials used in the panels (CFC and HCFC Free)
- ✓ Installer friendly biosoluble fibres

With its fire resistant Mineral Wool Core, FlameGuard® and Equitilt® Panels provide an FM Approved walling system.



Mineral Wool Fibre

Made from basalt and other naturally occurring rocks which are melted and spun into fibreboard. Mineral wool fibres are orientated perpendicular to the faces of the panel to provide bending strength to the panel and a proportion are cross-interlinked to provide shear strength as well.

- ✓ Non-combustible stone wool insulation with melting point of approx. 1177°C (2150°F)
- ✓ Does not promote smoke or flame spread when exposed to flame
- ✓ Denser composition provides excellent sound control
- ✓ Outstanding thermal resistance
- ✓ Dimensionally stable
- ✓ Does not rot, promote mildew, fungi, or bacteria, or sustain vermin

FlameGuard® Specifications

Panels are 1200mm wide as standard and are made to order in lengths up to 12 metres, depending on handling limitations. Thicknesses available include 50, 75, 100 and 150mm*. Metal faces are 0.6mm thick Colorbond® prepainted steel and bonded to a core made from mineral wool fibreboard of 100kg/m3 density with a two component thermosetting structural adhesive.

Notes

*Care in handling is required to prevent damage to long or heavy panels.



Fire Resistance Level

Wall Panel Thickness (mm)	100	100	100	100	150	150	150 (H)
FRL	30/30/30	-/60/60	60/60/60	-/90/90	-/60/60	-/180/180	-/150/150

H = Horizontal panel orientation

Note: Bondor provide a variety of construction and fixing options for the configurations summarized in the table. Refer to Bondor for details and new developments in FRL systems.



Properties and Spans

Thickness (m)	Mass/m²	Panel Spans inside a building (mm)		Thermal Insulation Value, R (m²K/W)
		Walls (not load bearing)	Ceilings	
50mm	15.6	6000	*3900	1.3
75mm	18.1	7200	*4200	1.9
100mm	20.6	8400	4500	2.5
150mm	25.6	10000	4500	3.7

Note: *50 & 75mm thick panels must not be subjected to any foot traffic i.e. not suitable for 110kg concentrated load.

It is important to read this span table in conjunction with engineering criteria as noted in the FlameGuard® technical data sheet available from www.bondor.com.au.



Non-Cyclonic Region A and B (Wall Applications Only)

Maximum uniformly distributed ULS design wind load (kPa) for the given span:

Single span, wind pressure acting inwards/outwards

Span (m)	1.5	2.4	3.3	4.2	5.1	6.0	6.9
50mm	1.88	1.17	0.80	0.67	0.49	0.34	-
75mm	2.81	1.76	1.28	1.00	0.78	0.56	0.43
100mm	3.75	2.34	1.70	1.34	1.04	0.75	0.57
150mm	2.63	3.52	2.56	2.01	1.56	1.13	0.85

Multi-span, wind pressure acting inwards/outwards

Span (m)	1.5	2.4	3.3	4.2	5.1	6.0	6.9
50mm	1.50	0.94	0.68	0.54	0.44	0.38	0.28
75mm	2.25	1.41	1.02	0.80	0.66	0.56	0.43
100mm	3.00	1.88	1.36	1.07	0.88	0.75	0.57
150mm	4.50	2.81	2.05	1.61	1.32	1.13	0.85

Notes:

1. Pressures specified are for wind gusts only per AS1170.
2. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 – TABLE C1.
3. Fixing with 14g tek screws (x4 off) or mushroom head bolts (x2 off) minimum per fixing point are required.
4. This span table applies to non-cyclonic regions only.

