equitilt® by BONDOR flameguard® by BONDOR **MW**

Technical Data Sheet

BON0126 Bondor Tech Data Sheets - Equitilt Flameguard v41
Current as of: 20/02/17

Product Description

Equitilt® FlameGuard® is a non-combustible architectural walling panel system manufactured with a mineral wool fibre core material. Equitilt® FlameGuard® is FM Approved to FM 4880 - No Height Restriction and is recommended where improved fire performance is required for insurance purposes in walling and ceiling applications.

Panel Properties				
Panel Thickness (mm)	50	75	100	150
Mass (kg/m²)	15.60	18.10	20.60	25.60
Thermal Performance 'R' Value (m²k/w)	1.3	1.9	2.5	3.7

Max. Lengths for Standard Supply				
Panel Thickness (mm)	50	75	100	150
Max Panel Length (m)	5	7	9	11 (Special Order)

Span Table

NON-CYCLONIC REGION A&B (WALL APPLICATIONS ONLY)

Mineral Wool Core / 0.6mm Steel Skins.
Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Single Span, wind pressure acting inwards/outwards				
Span (mm)	Panel Thickness (mm)			
	50	75	100	150
1500	1.88	2.81	3.75	5.63
2700	1.04	1.56	2.08	3.13
3900	0.72	1.08	1.44	2.16
5100	0.49	0.78	1.04	1.56
6300	0.30	0.51	0.68	1.02

Multi-span, wind pressure acting inwards/outwards				
Span (mm)	Panel Thickness (mm)			
	50	75	100	150
1500	1.50	2.25	3.00	4.50
2700	0.83	1.25	1.67	2.50
3900	0.58	0.87	1.15	1.73
5100	0.44	0.66	0.88	1.32
6300	0.34	0.51	0.68	1.02

* Refer Notes 1 - 4.

Span Table

INTERNAL APPLICATIONS

Inside Buildings				
Span (mm)	50	75	100	150
Walls (Non-Load Bearing)	6000	7200	8400	10000
Ceilings	2300	3400	4500	4500

* Refer Notes 3 - 9.

Flameguard FRL Systems Vertical Walls					
	Panel Thickness (mm)				
	100	100	100	150	150
Maximum FRL	-/30/30	-/60/60	-/90/90	-/60/60	-/180/180

Flameguard FRL Systems Horizontal Walls			
	Panel Thickness (mm)		
	100	100	150
Maximum FRL	-/60/60	-/90/90	-/120/120

Bondor® provide a variety of FRL construction and fixing options. Refer to Bondor® for details and updates.

Non-Combustible

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Colorbond® Made for Australia

Core	MW (Mineral Wool)
Width (cover mm)	1140
Thickness (mm)	50, 75, 100, 150
Length	Up to 11m (check for availability)
Exterior Facing Skin	0.6mm, 0.7mm G300 COLORBOND® steel
Interior Facing Skin	0.6mm, 0.7mm G300 COLORBOND® steel
Exterior Facing Colour	Standard & Non-Standard. Check for availability.
Interior Facing Colour	Standard & Non-Standard. Check for availability.
Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Acoustic Properties	R_w 28-30 depending on thickness
Fire Hazard Properties - AS1530.3 indices	
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	3

AS/ISO 9705 - BCA Group Number (Spec C1.10a)

Equitilt® MW steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10a as either Group 2 or Group 1 depending on the thickness and construction detail.

Group 1

Panel up to 150mm or less with steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at 300mm centres is classified as Group 1.

Group 2

Panel 150mm or less with an aluminium 'wall-wall' and 'wall-ceiling' angles fixed with aluminium rivets or screws at 300mm centres is classified as Group 2.

NOTES:

1. Extended span tables including wind pressure acting inwards are also available. Refer Bondor®.
2. Fixing with min. 4x 14g tek screws or 2x mushroom head bolts per panel are required.
3. Pressures specified are for wind gusts only per AS 1170.
4. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1.
5. This span table does not apply to cold store enclosure.
6. Fixing with min. 14g tek screws (x4 off) per fixing point or mushroom head bolts (x1 off at end support and x2 off at intermediate supports) are required.
7. Self weight of the panel has been allowed for, plus an allowance of up to 10kg/m² for light duty fittings (lights, etc.). No other dead loads permitted.
8. Non-trafficable maintenance access (concentrated load) of 110kg on any one panel has been allowed for (as per min. requirements of AS/NZS 1170.1:2002).
9. Distributed live load of 0.25kPa (as per AS/NZS 1170.1:2001) has been allowed for. Bondor® tests comply with details outlined in AS 4040, AS 1562 and as 1170.

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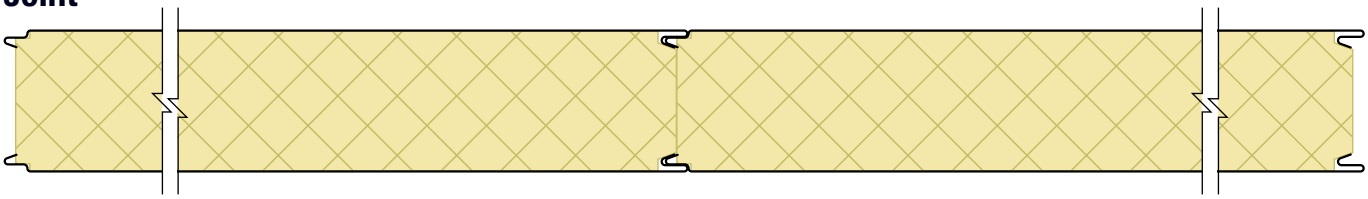
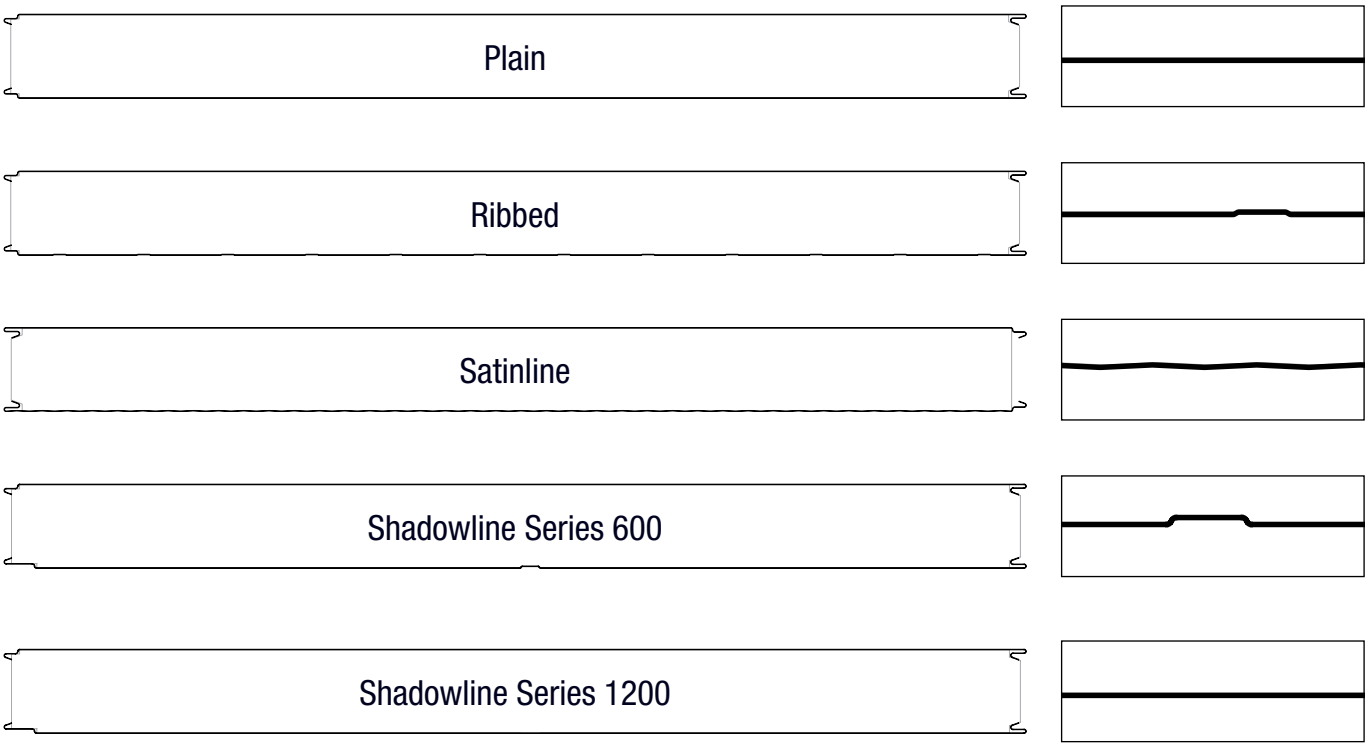
Joint



Profiles



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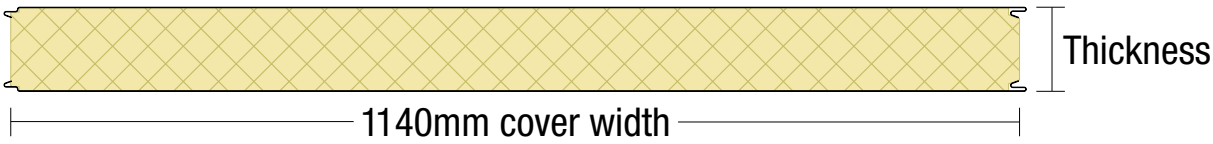

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