

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. Equitilt® FlameGuard® Plus is FM Approved to FM 4880 & FM 4881 No Height Restriction. These panels are recommended to be used where improved fire performance is required for insurance purposes in walling applications.

Panel Properties				
Panel Thickness (mm)	FlameGuard®		FlameGuard® Plus	
		50	75	100
Typical Mass (kg/m ²)	15.6	18.1	20.6	25.6
Total R-value (m ² K/W)	1.6	2.3	3.0	4.4
Note: The above Total R-values are for insulation average temperature of 15°C. Contact us for other temperatures.				
Max. Lengths for Standard Supply				
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)			
	FlameGuard®		FlameGuard® Plus	
		50	75	100
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)			
	FlameGuard®		FlameGuard® Plus	
		50	75	100
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)	Panel Thickness (mm)			
	FlameGuard®		FlameGuard® Plus	
		50	75	100
Walls (Non-Load Bearing)	6000	7200	8400	10000
Ceilings	2300	3400	4500	4500

* Refer Notes 3 - 9.

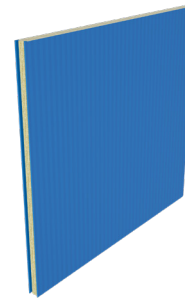
FlameGuard® Plus FRL Systems Vertical Walls					
	Panel Thickness (mm)				
		100	100	100	150
Maximum FRL	-/30/30	-/60/60	-/90/90	-/60/60	-/180/180

FlameGuard® Plus FRL Systems Horizontal Walls			
	Panel Thickness (mm)		
		100	100
Maximum FRL	-/60/60	-/90/90	-/120/120

Bondor® provide a variety of FRL construction and fixing options. Refer to Bondor® for maximum span and up-to-date construction details.



Non-Combustible



Core	MW (Mineral Wool)
Width (cover mm)	1140
Thickness (mm)	FlameGuard®: 50, 75 FlameGuard® Plus: 100, 150
Length	Up to 11m (check for availability)
External Material	0.6mm, 0.7mm G300 Colorbond® steel
External Skin	Colorbond® steel
External Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Exterior Colour Options	Standard & Non-Standard colours. Check for availability.
Internal Material	0.6mm, 0.7mm G300 Colorbond® steel
Internal Skin	Colorbond® steel
Internal Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Interior Colour Options	Permaguard® White
Paint System	AS/NZS 2728 & AS 1397
Accreditations	
Acoustic Properties	Rw 28 - 30 depending on thickness
Material Group Numbers	C1.10 Group 1 & 2
Bushfire Attack Level	BAL-FZ
FM Approval	FlameGuard®: 4880 FlameGuard® Plus: 4880 & 4881
Environmental	Zero Ozone Depleting Potential (ODP)
Combustibility	AS 1530.1 Non-combustible
Fire hazard properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	3

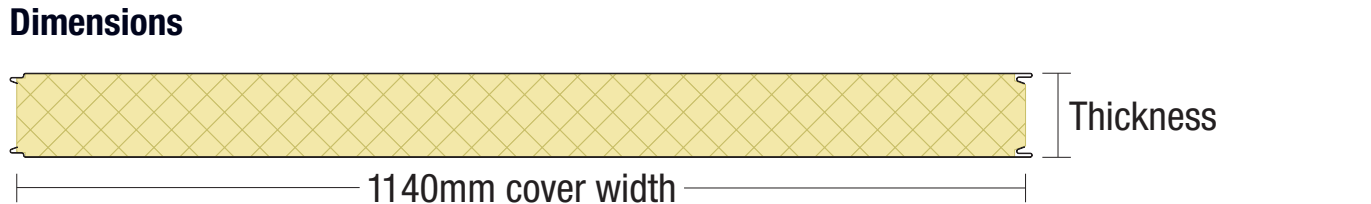
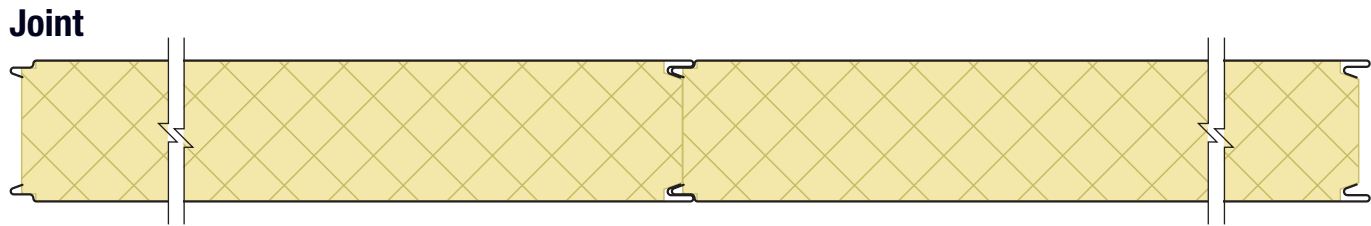
AS/ISO 9705 - BCA Group Number (Spec C1.10)
Equitilt® MW steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 as either Group 2 or Group 1 depending on the thickness and construction detail.

Group 1
Panel up to 150mm thick 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 up to 150mm thick with 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/NZS 1170.2.
4. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS/NZS 1170.0 - TABLE C1.
5. This span table does not apply to cold store enclosure.
6. For ceilings, 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. For ceilings, 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).
9. Distributed live load of 0.25kPa (as per AS/NZS 1170.1) has been allowed for. Bondor® tests comply with details outlined in AS 4040.0, AS 4040.1, AS 4040.2, AS 4040.3, AS 1562.1 and AS/NZS 1170.1.



Bondor® National Network

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To connect to your nearest Bondor® branch simply call 1300 300 099 or visit www.bondor.com.au

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