equitilt-flameguard® MW

Technical Data Sheet
Version 54
Current as of: 31/05/23

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				
	FlameGuard®		FlameGuard® Plus	
Panel Thickness (mm)	50	75	100	150
Typical Mass (kg/m²) based on 0.6/0.6mm skins	15.6	18.1	20.6	25.6
Declared λ (W/m.K) at 23°C	0.037	0.037	0.037	0.037
Declared R-value (m²K/W) at 23°C	1.36	2.04	2.72	4.09
Total R-value (m²K/W) at 15°C (Winter)	1.58	2.29	3.00	4.41
Total R-value (m²K/W) at 30°C (Summer)	1.48	2.13	2.79	4.11
Note: The Declared R-value is at 23°C in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018.				
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	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)			
	FlameGuard®		FlameGuard® Plus	
	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

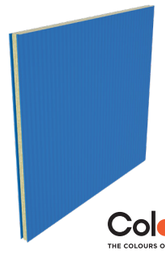
Inside Buildings				
Span (mm)	Panel Thickness (mm)			
	FlameGuard®		FlameGuard® Plus	
	50	75	100	150
Walls (Non-Load Bearing)	6000	7200	8400	10000
Ceilings	2300	3400	4500	4500

* Refer Notes 3 - 9.

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

FlameGuard® Plus 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 maximum span and up-to-date construction details.			

AS1530.1 NON-COMBUSTIBLE
AS1530.4 FRL 180/180/180



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Core	MW (Mineral Wool)
Width (cover mm)	1200, 1140**, 900**
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 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 Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Interior Colour Options	COLORBOND® Intramax™
Paint System	AS/NZS 2728 & AS 1397
Acoustic Properties	Rw 28 - 30 depending on thickness
Material Group Numbers	Group 1 & 2
Bushfire Attack Level	FlameGuard®: BAL-40 FlameGuard® Plus: BAL-FZ (All exposed core to be covered with flashing)
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
$SMOGRA_{RC}$	< 100

** Contact a local Bondor representative to discuss minimum order quantities for non-standard widths.

The technical information contained in this document cover a breadth of applications where Equitilt FlameGuard® may be used, which may be outside the scope of our Codemark certificate. Data specific to CodeMark certification can be found on Equitilt FlameGuard®'s CoC CM40149.

SPAN TABLE NOTES:
1. Extended span tables including wind pressure acting inwards are also available. Refer Bondor®.
2. Fixing with min. 2x 14g tek screws or 1x 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. 4x 14g tek screws or 2x mushroom head bolts at each line of support per panel 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.
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.

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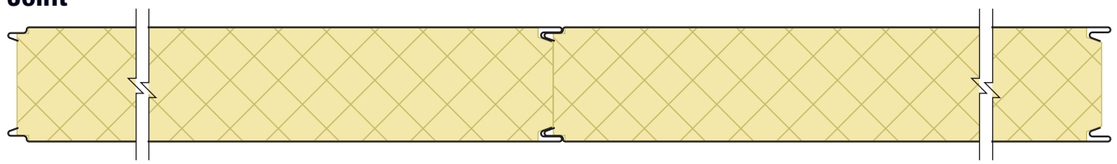
Technical Data Sheet

Joint



Profiles

Dimensions

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