

AS1530.1

NON-COMBUSTIBLE

AS1530.4

FRL 90/90/90









Core	MW (Mineral Wool)
Width (cover mm)	1200, 900^
Thickness (mm)	50, 75 (other thicknesses available on request)
Length	Up to 6.5m (check for availability)
External Material	BlueScope® COLORBOND® Steel 0.6mm G300
External Finishes	Plain (other options available)^
Exterior Colour Options	Standard, Matt & Metallic options available
Internal Material	BlueScope® COLORBOND® Steel 0.6mm G300 with HygienePlus®
Internal Finishes	Plain
Interior Colour Options	Surfmist®
Paint System	AS/NZS 2728 & AS 1397
Acoustic Properties	Rw 40, 45* depending on construction
Material Group Numbers	Group 1
Bushfire Attack Level	BAL-FZ (All exposed core to be covered with flashing)
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	2-3
Fire Resistance	AS 1530.4 FRL 90/90/90

Product Description

LuxeWall FlameGuard™ is an exceptional fire-rated architectural wall cladding and boundary wall system crafted with Mineral Wool core for unparallel safety and performance. LuxeWall FlameGuard™ is the perfect choice for residential application requiring superior fire protection or zero lot line houses, knockdown-rebuilds and renovation. LuxeWall FlameGuard™ isn't just limited to residential use, it's suitable for multi-residential and commercial application that demand a higher level of fire resistance, achieving an impressive 90-minute fire rating (FRL 90/90/90).

LuxeWall FlameGuard™ (MW) Thermal Performance Total R-Value (m²K/W)								
Framing	Timber Framing				Steel Framing			
LuxeWall FlameGuard™ Panel Thickness	50mm		75mm		50mm		75mm	
	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
System 1	1.80	1.91	2.42	2.55	1.75	1.85	2.35	2.49
System 2	2.91	3.11	3.53	3.76	2.80	3.00	3.44	3.67
System 3	3.34	3.57	3.96	4.22	3.16	3.39	3.82	4.08

Notes:
System 1: LuxeWall FlameGuard™ & 10mm Plasterboard
System 2: LuxeWall FlameGuard™ with R1.5 Batts & 10mm Plasterboard
System 3: LuxeWall FlameGuard™ with R2.0 Batts & 10mm Plasterboard

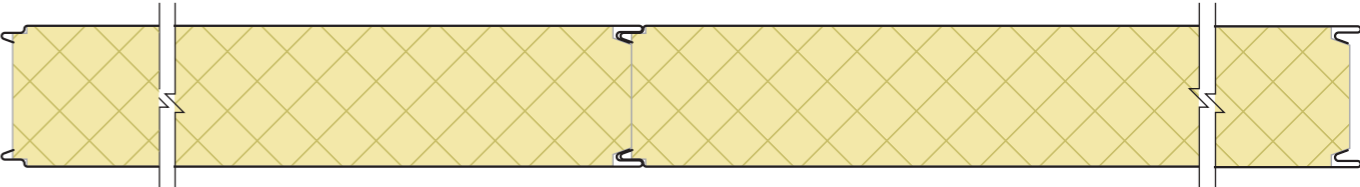
For 13mm Plasterboard add 0.02 to above Total R-value.
For 16mm Plasterboard add 0.04 to above Total R-value.
Calculations based on AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018.
Mean temperatures: Summer: 30°C, Winter: 15°C.

Standard Span Table												
Wind Classification	Ultimate Wind Pressure (kPa)		Number of Top Hats Battens per Panel									
	Away from corners	Within 1200mm of corners	Wall Height (Panel length in vertical orientation) (mm)									
			≤2400		≤2700		≤3000		≤3300		≤6500	
			Panel Location		Panel Location		Panel Location		Panel Location		Panel Location	
			Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner
N1	+0.62, -0.53	-0.94	2	2	2	2	2	2	2	3	3	4
N2	+0.86, -0.74	-1.30	2	2	2	3	2	3	2	3	4	5
N3	+1.35, -1.16	-2.03	3	3	3	4	3	4	3	4	5	7
N4	+2.01, -1.72	-3.01	3	4	4	5	4	5	4	6	7	10


Span Table (FRL Applications)												
Wind Classification	Ultimate Wind Pressure (kPa)		Number of Top Hats Battens per Panel									
	Away from corners	Within 1200mm of corners	Wall Height (Panel length in vertical orientation) (mm)									
			≤2400		≤2700		≤3000		≤3300		≤6500	
			Panel Location		Panel Location		Panel Location		Panel Location		Panel Location	
			Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner
N1	+0.62, -0.53	-0.94	3	3	3	3	4	4	4	4	6	6
N2	+0.86, -0.74	-1.30	3	3	3	3	4	4	4	4	6	6
N3	+1.35, -1.16	-2.03	3	3	3	4	4	4	4	4	6	7
N4	+2.01, -1.72	-3.01	3	4	4	5	4	5	4	6	7	10

^ Available on request.
* Contact Bondor® for construction details required.
The technical information contained in this document cover a breadth of applications where LuxeWall FlameGuard™ may be used, which may be outside the scope of our CodeMark certificate. Data specific to CodeMark certification can be found on LuxeWall FlameGuard's CoC CM40239.
SPAN TABLE NOTES:
1. Batten spacing based on fixing strength, LuxeWall FlameGuard™ span and FRL requirement for span to be < 1250mm.
2. Batten must be checked separately for spans.
3. Wind speeds and coefficients based on AS 4055 - Wind Loads for Housing.
4. Wall pressure coefficients based on following assumptions:
a) External Pressure Cpe = +0.7, -0.65
b) Internal Pressure - Building has no dominant openings and more than one permeable wall or is effectively sealed. Cpi = +0.2, -0.3
c) Local Pressure - Kl = 2.0 for negative wall pressure within 1200mm of corners
d) Combination Factor Kc = 0.9
e) Wall away from corner - Clig = +0.9, -0.765, Wall within 1200mm of corner Clig = -1.35
5. Serviceability deflection limit of span/150 has been allowed for.
6. Top Hat Battens require 2 fixings per stud and LuxeWall FlameGuard™ fixed at 300mm centres.
7. M6 RoofZips to be used to fix battens into LuxeWall FlameGuard™ modules.
8. Maximum span between fixing points is 1250mm.
9. Maximum span at panel edge is 250mm.

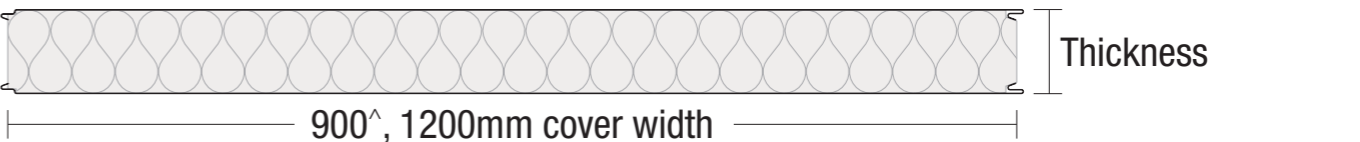
Joint

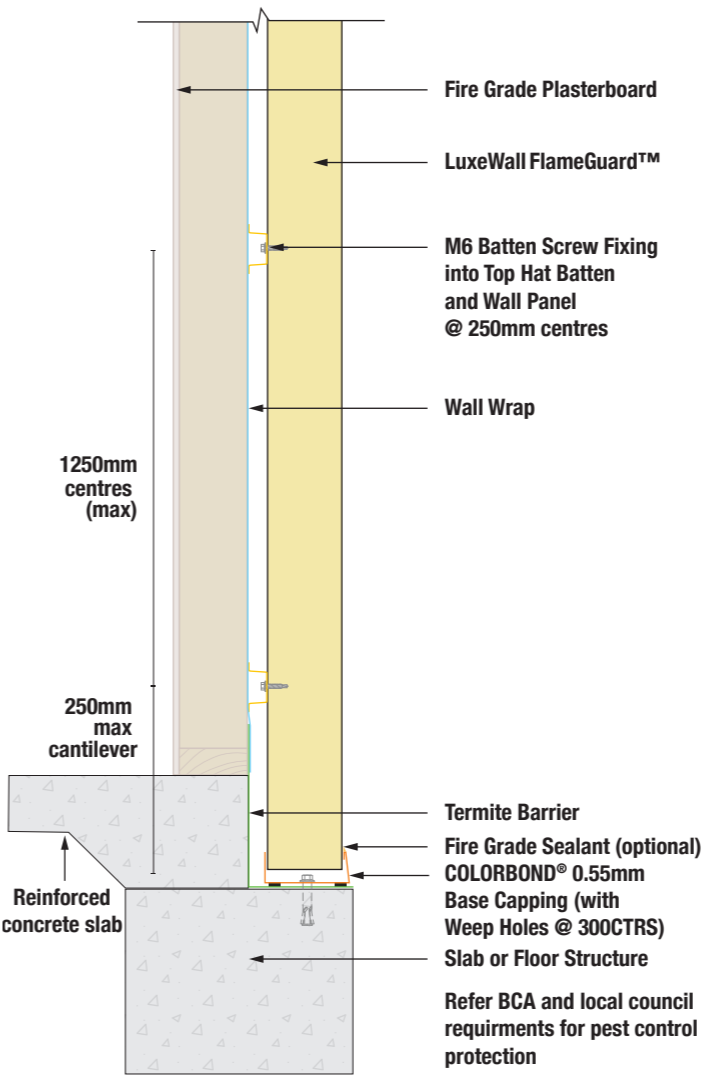


Profiles



Dimensions





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