

### Fire Rated System



### Product Description

LuxeWall FlameGuard<sup>®</sup> is an exceptional fire-rated architectural wall cladding and boundary wall system crafted with Mineral Wool core for unparalleled safety and performance. LuxeWall FlameGuard<sup>®</sup> is the perfect choice for residential application requiring superior fire protection or zero lot line houses, knockdown-rebuilds and renovation. LuxeWall FlameGuard<sup>®</sup> 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 <sup>®</sup> (MW) Thermal Performance Total R-Value (m <sup>2</sup> K/W)								
Framing	Timber Framing				Steel Framing			
	50mm		75mm		50mm		75mm	
LuxeWall FlameGuard <sup>®</sup> Panel Thickness	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<sup>®</sup> & 10mm Plasterboard  
System 2: LuxeWall FlameGuard<sup>®</sup> with R1.5 Batts & 10mm Plasterboard  
System 3: LuxeWall FlameGuard<sup>®</sup> 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.

Wind Classification	Ultimate Wind Pressure (kPa)		Number of Top Hats Batts 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

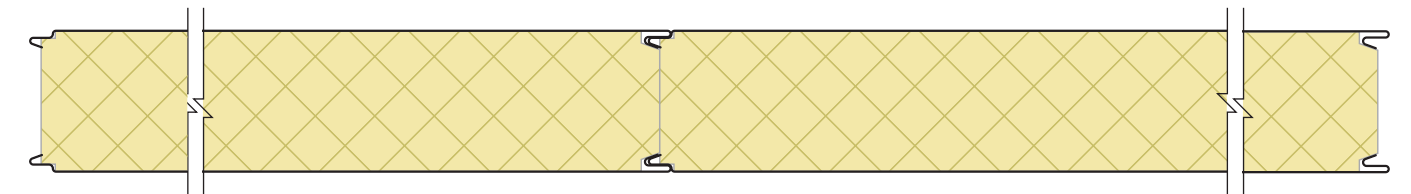
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		Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner	Typical	Corner	
N1	+0.62, -0.53	-0.94	3	3	3	3	4	4	4	4	6	6
N2	+0.86, -0.74	-1.30	3	3	3	3	4	4	4	4	6	6
N3	+1.35, -1.16	-2.03	3	3	3	4	4	4	4	4	6	7
N4	+2.01, -1.72	-3.01	3	4	4	5	4	5	4	6	7	10

Core	MW (Mineral Wool)
Width (cover mm)	1200, 900 <sup>^</sup>
Thickness (mm)	50, 75 (other thicknesses available on request)
Length	Up to 6.5m (check for availability)
External Material	BlueScope <sup>®</sup> COLORBOND <sup>®</sup> Steel 0.6mm G300
External Finishes	Plain (other options available) <sup>^</sup>
Exterior Colour Options	Standard, Matt & Metallic options available
Internal Material	BlueScope <sup>®</sup> COLORBOND <sup>®</sup> Steel 0.6mm G300 with HygienePlus <sup>®</sup>
Internal Finishes	Plain
Interior Colour Options	Surfmist <sup>®</sup>
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

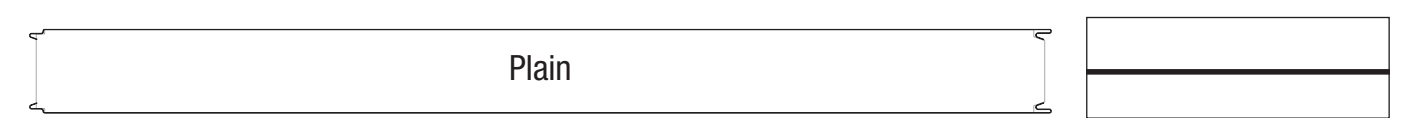
<sup>^</sup> Available on request.  
<sup>\*</sup> Contact Bondor<sup>®</sup> for construction details required.  
The technical information contained in this document cover a breadth of applications where LuxeWall FlameGuard<sup>®</sup> may be used, which may be outside the scope of our CodeMark certificate. Data specific to CodeMark certification can be found on LuxeWall FlameGuard<sup>®</sup>'s CoC CM40239.  
SPAN TABLE NOTES:  
1. Batten spacing based on fixing strength, LuxeWall FlameGuard<sup>®</sup> 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 C<sub>pe</sub> = +0.7, -0.65  
b) Internal Pressure - Building has no dominant openings and more than one permeable wall or is effectively sealed. C<sub>pi</sub> = +0.2, -0.3  
c) Local Pressure - k<sub>l</sub> = 2.0 for negative wall pressure within 1200mm of corners  
d) Combination Factor K<sub>c</sub> = 0.9  
e) Wall away from corner - C<sub>lig</sub> = +0.9, -0.765, Wall within 1200mm of corner C<sub>lig</sub> = -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<sup>®</sup> fixed at 300mm centres.  
7. M6 RoofZips to be used to fix battens into LuxeWall FlameGuard<sup>®</sup> modules.  
8. Maximum span between fixing points is 1250mm.  
9. Maximum span at panel edge is 250mm.

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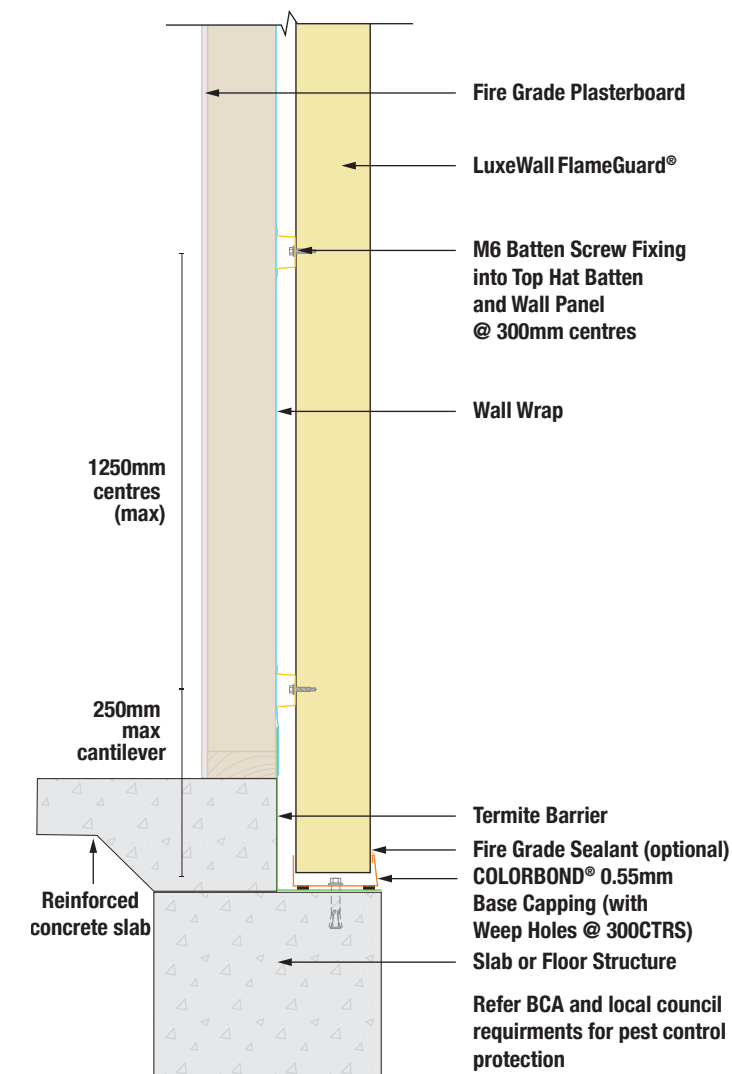
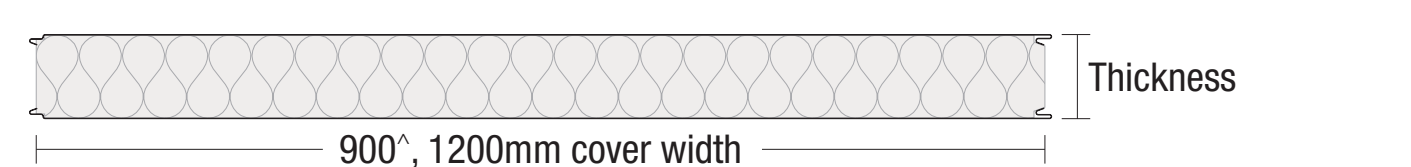
#### Joint



#### Profiles



#### Dimensions



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