

Fire Rated System



Product Description

LuxeWall® FlameGuard® Fire Rated System is a fire rated architectural boundary wall system tested and approved for both FRL 60/60/60 and FRL 90/90/90 for use in commercial and residential applications. LuxeWall® FlameGuard® is a lightweight, conceal fixed and architecturally finished high performance wall product that simplifies installation on zero boundary properties where site access is difficult.

LuxeWall® FlameGuard® (MW) Thermal Performance Total R-Value (m²K/W)								
Framing	Timber Framing				Steel Framing			
	50mm		75mm		50mm		75mm	
LuxeWall® FlameGuard® Panel Thickness	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
System 1	1.8	1.9	2.4	2.6	1.8	1.9	2.4	2.5
System 2	2.9	3.1	3.5	3.8	2.8	3.0	3.4	3.7
System 3	3.3	3.6	4.0	4.2	3.2	3.4	3.8	4.1

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.

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	C1.10 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

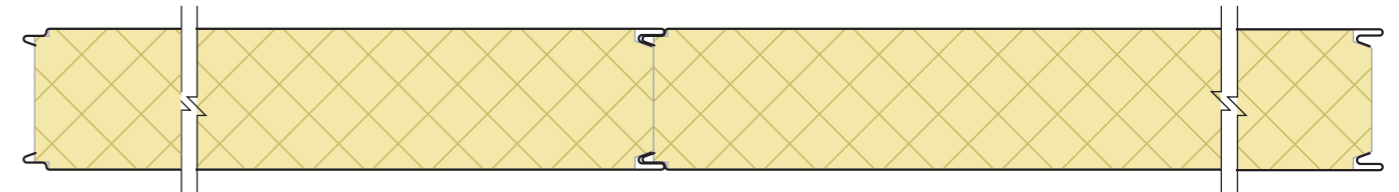
** Available on request.
* Contact Bondor® for construction details required.
The technical information contained in this document cover a breadth of applications where LuxeWall® FlameGuard® may be used, which may be outside the scope of our CodeMark certificate. Data specific to CodeMark certification can be found on LuxeWall® FlameGuard®'s C/C CM40239.
SPAN TABLE NOTES:
1. Batten spacing based on fixing strength, LuxeWall® 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 - Cflg = +0.9, -0.765, Wall within 1200mm of corner Cflg = -1.35
5. Serviceability deflection limit of span/150 has been allowed for.
6. Top Hat Battens require 2 fixings per stud and LuxeWall® fixed at 300mm centres.
7. M6 RoofZips to be used to fix battens into LuxeWall® modules.
8. Maximum span between fixing points is 1250mm.
9. Maximum span at panel edge is 250mm.

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	3	3	4	
N2	+0.86, -0.74	-1.30	2	2	2	3	2	3	2	3	5	
N3	+1.35, -1.16	-2.03	3	3	3	4	3	4	3	4	7	
N4	+2.01, -1.72	-3.01	3	4	4	5	4	5	4	6	10	

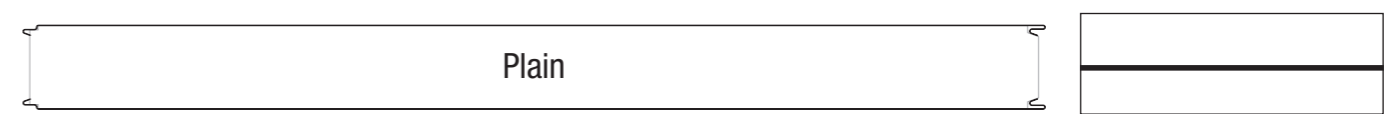
Span Table (FRL Applications)												
Wind Classification	Ultimate Wind Pressure (kPa)		Number of Top Hats Battens per Panel									
	Away from corners	Within 1200mm of corners	Wall Height (Panel length in vertical orientation) (mm)									
			≤2400		≤2700		≤3000		≤3300		≤6500	
			Panel Location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

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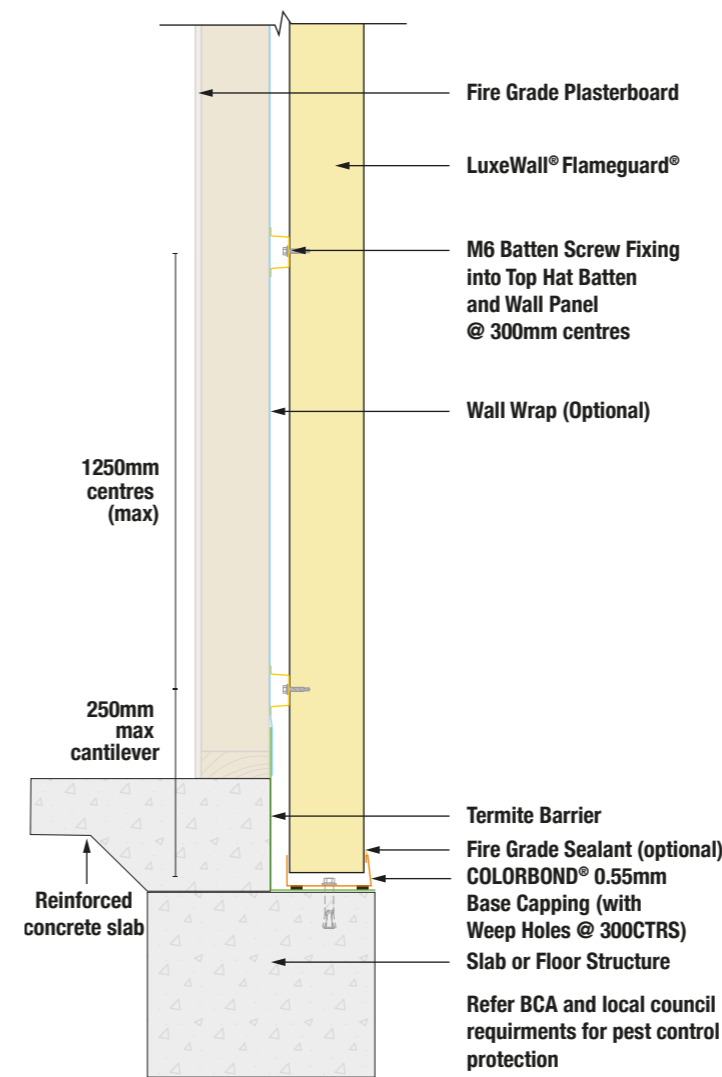
Joint



Profiles



Dimensions



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