luxewall-flameguard •



Technical Data Sheet

Current as of: 16/04/24

Fire Rated System











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		751	mm	50r	mm	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			

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)
Widt	th (cover mm)	1200, 900^
Thic	kness (mm)	50, 75 (other thicknesses available on request)
Lenç	gth	Up to 6.5m (check for availability)
Exte	rnal Material	BlueScope® COLORBOND® Steel 0.6mm G300
Exte	rnal Finishes	Plain (other options available)^
Exte	rior Colour Options	Standard, Matt & Metallic options available
Inter	rnal Material	BlueScope® COLORBOND® Steel 0.6mm G300 with HygienePlus®
Inter	rnal Finishes	Plain
Inter	rior Colour Options	Surfmist®
Pain	t System	AS/NZS 2728 & AS 1397
Acou	ustic Properties	Rw 40, 45* depending on construction
Mate	erial Group Numbers	Group 1
Bush	nfire Attack Level	BAL-FZ (All exposed core to be covered with flashing)
Com	bustibility	AS 1530.1 Non-combustible
Fire	hazard properties	AS/NZS 1530.3
Ignit	ability Index	0
Spre	ead of Flame Index	0
Hea	t Evolved Index	0
Smo	ke 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 cover a bream or applications where Luxewaii 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** 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

- 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 Cfig = +0.9, -0.765, Wall within 1200mm of corner Cfig = -1.35
 5. Serviceability deflection limit of span/150 has been
- Top Hat Battens require 2 fixings per stud and LuxeWall FlameGuard® fixed at 300mm centres.
- M6 RoofZips to be used to fix battens into LuxeWall FlameGuard® modules.
- Maximum span between fixing points is 1250mm
 Maximum span at panel edge is 250mm.

Standard Span Table													
Ultimate Wind Pre		d Pressure (kPa)	Number of Top Hats Battens per Panel										
Wind Classification	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)													
	Ultimate Wind Pressure (kPa)		Number of Top Hats Battens per Panel										
Wind Classification	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	

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Technical Data Sheet

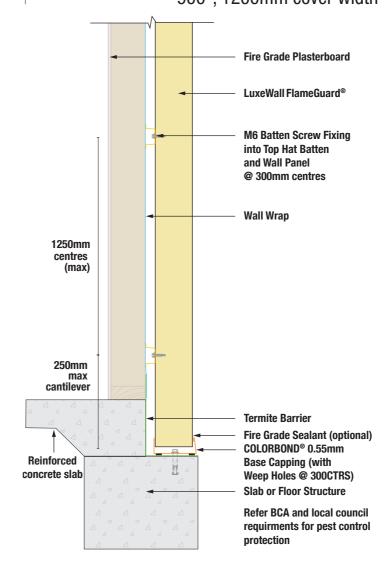
Fire Rated System

Joint **Profiles**

Plain

Dimensions









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