luxewall-flameguard !



Technical Data Sheet

Current as of: 31/05/23

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 | | | | | |
| LuxeWall FlameGuard® Panel Thickness | 50r | mm | 751 | mm | 50r | nm | 75mm | | | |
| | 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 | | |

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 | 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 cover a oreant on 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*'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

- 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
- 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

within 1200mm of corners

- Top Hat Battens require 2 fixings per stud and LuxeWall FlameGuard® fixed at 300mm centres.
- FlameGuard* note at Sofilm 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.

| Standard Span Table | | | | | | | | | | | | | |
|------------------------|------------------------------|--------------------------------|---|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|--|
| | 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 | 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 | | ≤2 | 700 | 00 ≤3 | | ≤3300 | | ≤6500 | | |
| | | | Panel Location | | Panel L | 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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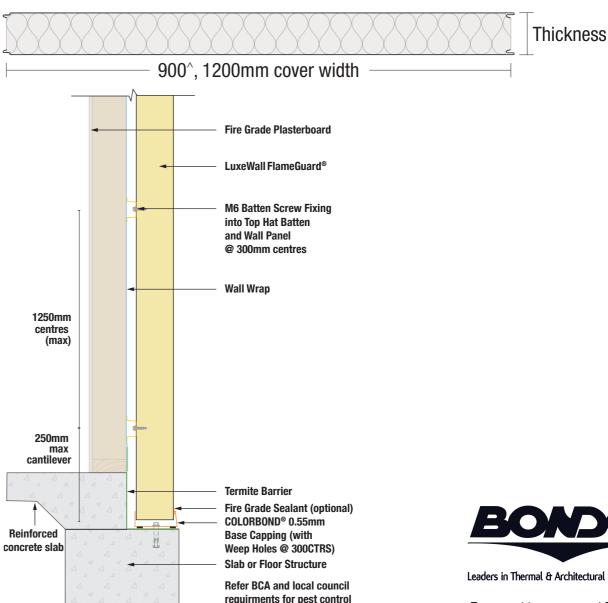


Technical Data Sheet

Fire Rated System

Joint **Profiles**

Dimensions



protection

Plain



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