

✓ Colorbond®

✓ AUSTRALIAN OWNED

✓ AUSTRALIAN MADE

XFLAMPANEL
Fire Rated & Architectural Systems

TYPICAL PROJECTS



Leading Insulated Panel Projects across Australia since 1963

**When it comes to
insulated, fire rated & architectural panel systems
one name stands out . . .**

AUSTRAL
INSULATION

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Conforms to high fire
resistance standards
Insurer Approved

- FM Global Class 1
- BCA Group 1
- Fast installation
- Lightweight -
superior spanning
capacity
- Excellent energy
efficiency ratings -
R-values up to 8.06
- Cost efficient to
install & maintain
- BlueScope Steel
Colorbond® range
of designer colours
- Permagard™ White
in Microban® for
antibacterial
protection
- Meets AQIS food
industry standards

PRODUCT INFORMATION

MELBOURNE (03) 9706 3277
PERTH (08) 9249 4022
BRISBANE (07) 3718 9500



Description

- XFLAM™ panels are a lightweight composite building system.
- The system comprises of two sheets of Colorbond® steel, XFLAM™ core and bonded by special adhesives.
- Panels are formed with the Austral Slip-joint® enabling effective and easy installation.

Fire Safety Performance

BRANZ: ISO 9705 - exceeds 20mins which is the requirement for **Group 1 Australian Building Code**.

Factory Mutual: Meets fire resistance requirements of FM Global Class 1 (4880)

“Subject to the conditions of Approvals as a Class 1 insulated wall & ceiling panel when installed as described in the current edition of the FM Approval Guide.”

Panel Specifications

Width	Core	Length	U-Value	Max. Skin Temp.	Adhesive	Finish
1200mm cover	XFlam™	Cut to order Min. 1000mm Max. 18000mm	0.031 W/M/K	100°C Dry Heat Sustained	Thermosetting two part mix of Polyurethane. CFC Free	Flat, 100mm Rib, 50mm Mesa Rib, Silkline.

Panel Skin

Finish	Thickness	Metal	Colour
Colorbond®	0.60mm (BMT)	BlueScope Steel Zinc coated with a corrosion inhibitive primer baked onto surface with durable top coat.	Classic Cream, Surfmist, Paperbark, Dune, Shale Grey, Deep Ocean and Pale Eucalypt plus 3 Metallics and Permagard™ White

Colorbond® Permagard™ steel has been successfully designed with antibacterial properties which provide excellent benefits across many applications. Non-standard metals, colours and paint types may be negotiated subject to quantity and time considerations.

Panel Properties

Thickness (mm)	50mm	75mm	100mm	150mm	200mm	250mm
Weight (kg/m ²)	12.9	13.8	14.8	16.7	18.6	20.5
R-Value (m ² KW)	1.61	2.42	3.23	4.84	6.45	8.06
Compressive Strength	230 N/mm ²					
Cross Breaking Strength	350 N/mm ²					
Peel Strength	91.3 N/mm ²					
Core Density	38 kg/m ³					

Panel Span in Metres

DESIGN LOAD CAPACITY Steel Thickness 0.60mm														
Nominal Panel Thickness	Ultimate Limit State Uniform Design Load Capacity kN/sqm													
	Single Span - Length in metres													
	(mm)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
50	3.0	2.40	2.00	1.71	1.50	1.19	0.96	0.79	0.67	0.57	-	-	-	-
75	4.54	3.63	3.03	2.59	2.27	1.79	1.45	1.20	1.01	0.86	0.74	0.65	0.57	0.45
100	6.07	4.86	4.05	3.47	3.04	2.40	1.94	1.61	1.35	1.15	0.99	0.86	0.76	0.60
150	9.14	7.31	6.09	5.22	4.57	3.61	2.92	2.42	2.03	1.73	1.49	1.30	1.14	0.9
200	10.9	8.72	7.27	6.23	5.45	4.31	3.49	2.88	2.42	2.06	1.78	1.55	1.36	1.08
250	13.7	10.9	9.13	7.82	6.80	5.37	4.35	3.6	3.02	2.58	2.22	1.93	1.70	1.34

- Notes:
- 1) The tabulated design loads are factored maximum design loads. (In the assessment of the design loads, the designer should take into account the self weight of the XFLAM™ panel).
 - 2) Compliance with these recommendations will ensure that deflections do not exceed span / 90 to the left of the dark shading and span / 150 to the left of the light shading. Where more severe deflection restrictions are required, specific testing of deflection characteristics is recommended for the various span / thickness combinations.
 - 3) A minimum design load of 0.75 kN / m² is recommended for general applications. Design loads below the lightly shaded area satisfy Serviceability Limits on deflections. Circumstances may require different design loading.
 - 4) Where panels are continuous across a support, it is recommended that stress cuts be made across the inside (or cold side) steel skin adjacent to the supports to prevent buckling of the outer (warm side) skin at the support. Fixings should be provided on both sides of the stress cut.

