



Panelex™ DATA SHEET

Description

Our insulated factory-ribbed structural steel roofing panelling – is manufactured with an external water-proof sheet, making it ideal for commercial and residential building projects of all sizes.

Manufactured using BlueScope's COLORBOND® Permagard® steel sandwiching a solid polystyrene core Panelex panelling consists of a smooth, flat steel underside, and an mechanically water-proof ribbed External Side. Cutters and down pipes are also supplied.

Panel Specifications

Width	Core	Length	Max Skin Temp	Adhesive	Finish
1200mm cover	Expanded Polystyrene/EPS	Cut to order min 1200mm max 17000mm	75°C	Thermosetting Two part Polyurethane CFC Free	Plain Ribbed

Panel Skin Details

Finish	Thickness	Substrate	Gloss Level	STD. Colour
Colorbond CRP 25um AS 2728 CAT.3	0.6mm (BMT)	Zincalume AZ275 G300	25%	Surfmist, Paperbark, Pale Eucalypt

Non standard colours and paint types may be negotiated subject to quantity and time considerations.

Fire Safety Performance

Group 2 in Accordance with BCA 2005 Spec. C1. 10A

Panel Properties

Thickness (mm)	50mm	75mm	100mm	150mm	200mm	250mm
Weight (kg/m ²)	12.0	12.6	13.2	14.4	15.6	16.8
Density	14 kg/m ³					

Panel Span in Metres

Thickness (mm)	50mm	75mm	100mm	150mm	200mm	250mm
Internal 0.6mm Wall	6.2	7.6	8.8	10.8	12.5	13.9
Internal 0.6mm Ceiling	3.9	5.5	6.7	8.8	10.2	11.2
External (Category 3) 0.6mm Wall	4.6	5.6	6.4	7.9	9.1	10.3
External (Category 3) 0.6mm Ceiling/Roof	3.1	4.2	5.0	6.1	7.1	8.3
External (Category 2) 0.6mm Ceiling/Roof	3.2	3.9	4.5	5.5	6.4	7.3
External (Category 2) 0.6mm Ceiling/Roof	2.4	2.9	3.4	4.1	4.8	5.5

Co-efficient of thermal resistance.

† Interior operating temperatures based on external ambient of 35°C.

* Maximum span category 3. Subject to Engineer's certification for specific projects.

Safe Simply Supported Spans for Panelex™ Insulated Panels with 0.6mm Steel Skins.

Note:- Span tables are based upon:

- AS117 Opt I - Non trafficable roofs - live load
- AS117 Opt II - 44m/s basic wind velocity - 50 year return period
- 10m high roof - rectangular building, <10 roof pitch.