



RenderPanel™

Description

Our insulated structural steel wall panelling – is factory rendered with either smooth or textured finishes coloured to suit your building specification. Manufactured using BlueScope's COLORBOND® Permagard® steel sandwiching a solid polystyrene core, Pender Panel can also be textured to simulate sandstone walling.

Panel Specifications

Width	Core	Length	'K' Value	Max Skin Temp	Adhesive	Finish
1200mm cover	EPS	Cut to order min 1200mm max 17000mm	0.0370 W/mK	75°C Dry Heat Sustained	Thermosetting Two part Polyurethane CFC Free	Plain Ribbed Textured Colour

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)	13.5	14.8	16.0	18.4	20.8	22.8
R Value 8°C m ² K/W	1.43	2.14	2.86	4.29	5.71	7.14
R Value 25°C m ² K/W	1.36	2.04	2.72	4.08	5.43	6.79
R Value 40°C m ² K/W	1.30	1.95	2.60	3.90	5.19	6.49
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
External (Category 3) 0.6mm Wall	4.6	5.6	6.4	7.9	9.1	10.3

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.