



Panelphen™ DATA SHEET



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, Panelphen can also be textured to simulate sandstone walling.

Panel Specifications

Width	Core	Length	'K' Value	Max Skin Temp	Adhesive	Finish
1200mm cover	Phenolic/EPS 50.0 ± 3kg/m ²	Cut to order min 1200mm max 17000mm	0.0370 W/mK	100°C Dry Heat Sustained	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

CSIRO Test to ISO 9705 - exceeds 20min which is the requirement for **Group 1** Australian Building Code

Factory Mutual: Meets fire resistance requirements of **FM Class 1**

Panel Properties

Thickness (mm)	50mm	75mm	100mm	150mm	200mm	250mm
Weight (kg/m ²)	12.7	14.0	15.2	17.6	20.0	22.0
R Value 8°C m ² K/W	1.43	2.14	2.86	4.29	5.71	7.14
Density	50 ± 3 kg/m ³					
Comprehensive Strength at 10% Deformation (Min) AS 498.3	126kpa					

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	4.5	6.1	7.6	10.0	11.5	12.8
External (Category 3) 0.6mm Ceiling/Roof	3.4	4.7	5.9	7.3	8.4	9.4
External (Category 2) 0.6mm Ceiling/Roof	3.7	5.1	6.3	8.3	9.6	10.7
External (Category 2) 0.6mm Ceiling/Roof	3.4	4.7	5.9	7.3	8.4	9.4

* These spans are safe under a concentrated load of 1.1kpa or a U.D.L. of 0.25kpa as for a non-trafficable roof as required by AS 1170- under clause 4.7.2. Subject to Engineer's certification for specific projects.

* External spans shown are calculated for wind velocities of 34 m/s in region A Category 3 and 41 m/s in region A category 2, for combined pressure coefficients of 0.7.