



DATA SHEET

UNIPANEL[®] with 50kg/m³ POLYPHEN[®] Core

Description

The Panel has a tongue and groove joining system roll-formed along the length of the Panel. Outer Skins are Colorbond[®] – pre-painted Steel with a core of CFC free Expanded Polystyrene and Phenolic Resin

PANEL SPECIFICATIONS						
WIDTH	CORE	LENGTH	'K'VALUE	MAX SKIN TEMP	ADHESIVE	FINISH
1200mm cover	Phenolic/EPS 50.0 ±3 kg/m ³	Cut to order min 1200mm max 12000mm	0.0370 W/mK	100°C Dry Heat Sustained	Thermosetting Two part Polyurethane CFC free	Plain Ribbed Uniline

PANEL SKIN DETAILS				
FINISH	THICKNESS	SUBSTRATE	GLOSS LEVEL	COLOUR
Colorbond CRP 25um AS 2728 CAT.3	0.6 mm (BMT)	Zincalume AZ275 G300	25%	Permagard, Paperbark, Pale Eucalypt

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

FIRE SAFETY / PERFORMANCE	Please see note below
CSIRO Test to ISO 9705 – exceeds 20mins 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
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	50 ± 3 kg/m ³					
Compressive Strength at 10% Deformation (Min) AS 498.3	126kpa					

PANEL SPAN IN METRES							Please see notes below
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 0.6 mm Ceiling	3.9	5.5	6.7	8.8	10.2	11.2	
External (Category 3) 0.6 mm Wall	4.5	6.1	7.6	10.0	11.5	12.8	
External (Category 3) 0.6 mm Ceiling / Roof	4.3	5.9	7.2	8.8	10.1	11.3	
External (Category 2) 0.6 mm Wall	3.7	5.1	6.3	8.3	9.6	10.7	
External (Category 2) 0.6 mm Ceiling / Roof	3.4	4.7	5.9	7.3	8.4	9.4	

¹ These spans are safe under a concentrated load of 1.1 kPa or a U.D.L. of 0.25 kPa as for a non-trafficable roof as required by AS/NZS 1170.1 – 2000 under clause 3.5.2

² External spans shown are calculated for wind velocities of 37.4 m/s in region A Category 3 and 45 m/s in region A category 2, for combined pressure coefficients of 0.7 for walls and -0.9 for roofs

“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”