# metecnopanel



## **Technical Data Sheet**

Colerbond

Version 52 Current as of: 04/08/20

## **Product Description**

MetecnoPanel® is a durable, insulated wall and ceiling panel with a PIR (Polyisocyanurate) fire-retardant core and high performing thermal properties. MetecnoPanel® is FM Approved to FM 4880 & 4881 - No Height Restriction and is recommended where improved fire performance is required for insurance purposes. MetecnoPanel® is available in a variety of panel surface profiles and Colorbond® colours to create an inspiring interior and exterior finish.

Panel Properties						
Panel Thickness (mm)	50	75	100	125	150	200
Typical Mass (kg/m <sup>2</sup> ) based on 0.6/0.6mm skins	12.0	13.0	14.0	14.7	15.5	17.4
Declared $\lambda$ (W/m.K) at 23°C	0.022	0.022	0.022	0.022	0.022	0.022
Declared R-value (m <sup>2</sup> K/W) at 15°C (NZ)	2.30	3.50	4.65	5.80	7.00	9.30
Declared R-value (m <sup>2</sup> K/W) at 23°C (AU)	2.20	3.35	4.45	5.55	6.70	8.90
Total R-value (m²K/W) at 6°C	2.57	3.80	5.02	6.25	7.47	9.92
Total R-value (m²K/W) at 15°C (Winter)	2.45	3.62	4.79	5.95	7.12	9.45
Total R-value (m²K/W) at 30°C (Summer)	2.27	3.34	4.42	5.49	6.56	8.71
Note: Contact us for other temperatures.						

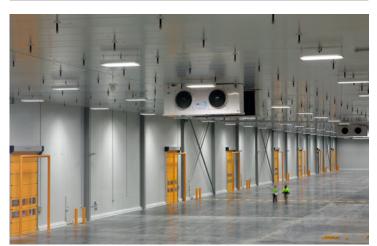
## **Span Table**

NON-CYCLONIC REGION A&B (WALL APPLICATIONS ONLY)

PIR Core / 0.6mm Steel Skins (contact Metecno for other skin materials) Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Single Span, wind pressure acting inwards/outwards						
Coop (mm)	Panel Thickness (mm)					
Span (mm)	50	75	100	125	150	200
1500	2.93	4.39	5.86	7.32	8.79	11.72
2700	1.63	2.44	3.25	4.07	4.88	6.51
3900	1.10	1.65	2.20	2.74	3.29	4.39
5100	0.64	0.96	1.28	1.60	1.93	2.57
6300	0.37	0.63	0.84	1.05	1.26	1.68
7500	0.23	0.45	0.59	0.74	0.89	1.19

Multi-Span, wind pressure acting inwards/outwards						
Span (mm)	Panel Thickness (mm)					
Span (mm)	50	75	100	125	150	200
1500	3.91	5.86	7.81	9.33	11.72	11.93
2700	2.17	3.25	4.34	5.18	6.51	6.63
3900	1.10	1.65	2.20	2.74	3.29	4.39
5100	0.64	0.96	1.28	1.60	1.93	2.57
6300	0.42	0.63	0.84	1.05	1.26	1.68
7500	0.30	0.45	0.59	0.74	0.89	1.19



	Permagard BAL40
	CODEMARK APPROVED Certificate CM40196
Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1100, 1200 (available upon request)
Thickness (mm)	50, 75, 100, 125, 150, 200
Length	Up to 25m (check for availability)
External Material	BlueScope® Steel 0.5mm, 0.6mm G300, Grade 316 Stainless Steel 0.55mm
External Finishes	Plain, Fineline, Satinline, Ribbed
Exterior Colour Options	Surfmist <sup>®</sup> . Other colours available subject to minimum order quantities.
Internal Material	BlueScope® Steel 0.5mm, 0.6mm G300, Grade 316 Stainless Steel 0.55mm
Internal Finishes	Plain, Fineline, Satinline, Ribbed
Interior Colour Options	Permagard <sup>®</sup> White
Paint System	AS/NZS 2728 & AS 1397
Accreditations	Codemark Certificate Number CM40196
Acoustic Properties	Rw 25 - 27 depending on thickness
Material Group Numbers	C1.10 Group 2 <sup>a</sup>
Bushfire Attack Level	BAL-40 200mm - BAL-FZ (All exposed core to be covered with flashing)
FM Approval	4880, 4881
Environmental	Zero Ozone Depleting Potential (ODP)
Fire Hazard Properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	4
SMOGRA <sub>RC</sub>	< 100

MetecnoPanel® PIR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 Group 2.

#### Group 2

Panel up to 200mm thick with aluminium 'wall-wall' and 'wall-ceiling' angles (1.5mm) fixed with aluminium rivets or screws is classified as Group 2. Panel up to 200mm with steel 'wall-wall' and 'wall-ceiling' angles (0.5mm) fixed with steel rivets or screws is classified as Group 2.

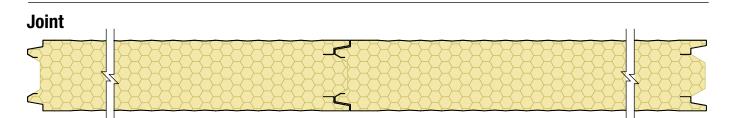
The technical information contained in this document cover a breadth of applications where MetecnoPanel® may be used, which may be outside the scope of our Codemark certificate. Data specific to CodeMark certification can be found on MetecnoPanel®'s CoC CM40196.

### SPAN TABLE NOTES:

- Extended span tables including cyclonic regions C&D are also available. Refer Metecno<sup>®</sup>.
  Fixing with min. 14g tek screws (x4 off) or mushroom head bolts (x2 off) per fixing point are required.
- 3. Pressures specified are for wind gusts only per AS/NZS 1170.2.
- A. Defection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS/NZS 1170.0 TABLE C1. Metecno<sup>®</sup> tests comply with details outlined in AS 4040.0, AS 4040.1, AS 4040.2, AS 4040.3, AS 1562.1 and AS/NZS 1170.1.



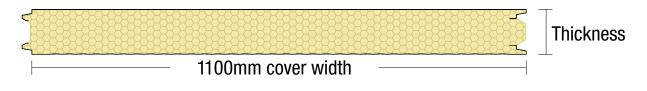
PIR



## **Profiles**

Plain	
Fineline	
Satinline	
Ribbed	

## **Dimensions**



#### **Bondor® National Network BRISBANE / EXPORT** MELBOURNE SYDNEY 103 Ingram Road 6 Dunmore Drive 49 - 53 Newton Road Acacia Ridge QLD 4110 Truganina VIC 3029 Wetherill Park NSW 2164 T: 07 3323 8500 T: 03 8326 8000 T: 02 9609 0888 F: 07 3323 8501 F: 03 8326 8099 F: 02 9729 1114 PERTH ADELAIDE LAUNCESTON 17 Gauge Circuit 70 - 72 Rundle Road 7 Connector Park Drive Canning Vale WA 6155 Salisbury South SA 5106 Kings Meadows TAS 7249 T: 08 9256 0600 T: 08 8282 5000 T: 03 6335 8500 F: 08 9256 0620 F: 08 8282 5099 F: 03 6335 8544 To connect to your nearest Bondor® branch simply call 1300 300 099 or visit www.bondor.com.au Metecno Ptv Limited, ABN 44 096 402 934. The manufacturer reserves the right to change the specification without notice. Bondor®, Equitite, BondorPanel®, FlameGuard®, MetecnoPanel®, MetecnoInspire®, EconoClad®, MetecnoKasset®, InsulWall®, LuxeWall®, DesignerWall®, SolarSpan®, InsulRoof®, MetecnoSpan®, Purline®, CoolRoof®, Equideck®, InsulLiving®, Metecno are trademarks of Metecno Pty Limited. BlueScope, Colorbond®, Permagard® and colour names are trademarks of BlueScope Steel Limited. Microban® is a registered trade mark of the Microban Products Company. The

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