

Product Description

MetecnoSpan® is a roofing system that combines the roofing, insulation and ceiling in one roof panel with a fire-retardant polyisocyanurate (PIR) core. MetecnoSpan® is FM Approved (4880, 4881 & 4471) and is recommended where FM Approved products is required. MetecnoSpan® is capable of long spans and high thermal performance and is used mainly in commercial and industrial roofing applications.

Panel Properties				
Panel Thickness (mm)	40	60	80	100
Mass (kg/m ²)	9.96	10.72	11.48	12.24
Thermal Performance*				
'U' Value (W/m ² K)	0.47	0.32	0.24	0.20
'R' Value (m ² K/W)	2.13	3.12	4.10	5.08

* Thermal Performance based on NATA endorsed test report and using ISO 10456, for the calculation of the initial k – values. k = 0.020355 W/mK at 23 degrees.

Span Table

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

PIR Core / 0.42mm Hi-tensile External / 0.5mm Internal Steel Skins.

Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Single Span, wind pressure acting outwards				
Span (mm)	Panel Thickness (mm)			
	40	60	80	100
1500	4.99	6.94	8.56	9.83
2700	2.15	2.84	3.57	4.31
3900	1.08	1.41	1.76	2.12
5100	0.67	0.86	1.07	1.29
6300	-	-	0.74	0.88

Multi-span, wind pressure acting outwards				
Span (mm)	Panel Thickness (mm)			
	40	60	80	100
1500	4.01	5.57	6.87	7.31
2700	2.27	3.14	3.86	4.11
3900	1.48	2.20	2.70	2.88
5100	-	1.40	1.83	2.20
6300	-	-	1.23	1.48



Colorbond®
Made for Australia

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1000
Thickness (mm)	40, 60, 80, 100
Length	Up to 25m (check for availability)
Exterior Facing Skin	0.42mm G550 Zinalume™ or COLORBOND® steel
Interior Facing Skin	0.5mm, 0.6mm G300 COLORBOND® steel
Exterior Facing Colour	Surfmist®, Paperbark®, Classic Cream®, Pale Eucalypt®, Headland®, Dune®, Shale Grey®, Zinalume™
Standard Colours	
Interior Facing Colour	Surfmist®
Finishes	Plain, Finline, Satinline, Ribbed
Acoustic Properties	R _w 24-25 depending on thickness
Recommended Pitch	2 degrees minimum
Fire Hazard Properties - AS1530.3 indices	
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

AS/ISO 9705 - BCA Group Number (Spec C1.10a)

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

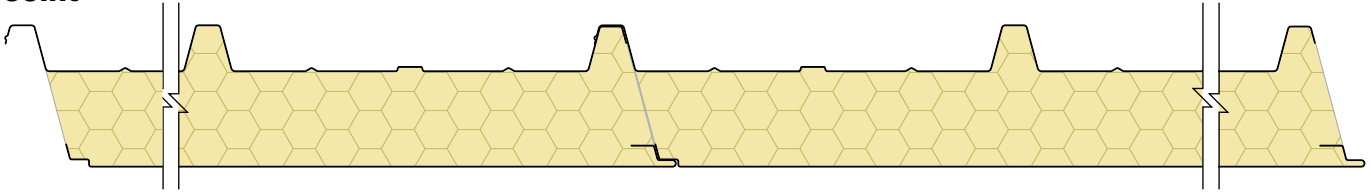
Group 2

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

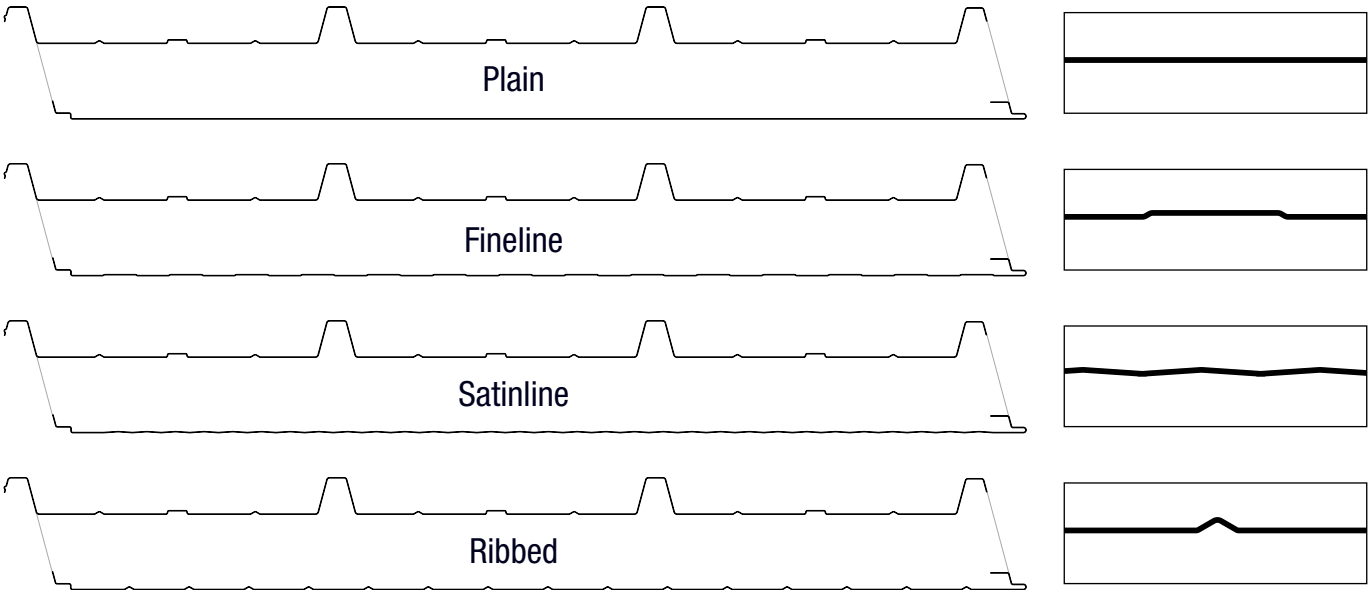
NOTES:

- Extended span tables including cyclonic regions C&D and wind pressure acting inwards are also available. Refer Bondor®.
- Fixing with min. 14g tek screws (or equivalent) at each rib are required.
- Pressures specified are for wind gusts only per AS 1170.
- Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1.
- Self weight of the panel has been allowed for, plus an allowance of up to 10kg/m² for light duty fittings (lights, etc.). No other dead loads permitted.
- Non-trafficable maintenance access (concentrated load) of 140kg (exceeding min. requirements of AS/NZS 1170.1:2002) on any one panel has been allowed for.
- Distributed live load of 0.25kPa (as per AS/NZS 1170.1:2001) has been allowed for. Bondor® tests comply with details outlined in AS 4040, AS 1562 and as 1170.
- Min. roof slope of 2 degree applies.
- For FM Approved applications,
 - a max. span of 1830mm applies.
 - approved fasteners must be used. Refer Bondor®.

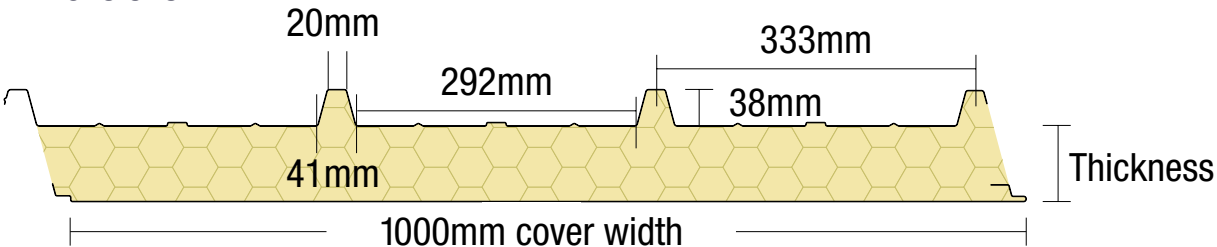
Joint



Profiles



Dimensions



Bondor® National Network

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To connect to your nearest Bondor® branch simply call 1300 300 099 or visit www.bondor.com.au