Brisbane Markets, Brisbane, QLD

MetecnoPanel® Technical Data

Product Description

MetecnoPanel® is a durable, insulated wall and ceiling panel with a PIR (Polyisocyanurate) fire-retardant core. MetecnoPanel® is Factory Mutual approved – unlimited height and is recommended where improved fire performance is required for insurance purposes.

FM APPROVED UNLIMITED HEIGHT

Core	Fire retardant Polyisocyanurate (PIR) foam. FM Approved
Steel Thickness	0.6mm Internal, 0.6mm External
Surface Profile	Plain, Standard Rib, Satinline, Fineline
Colour	Standard: Surfmist® Other colours available: Contact Bondor®
Width	1100 mm
Length	As required, determined by handling and design considerations, up to 16 metres
Thickness	50mm, 75mm, 100mm, 150mm, 200mm

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

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

	Single span, wind pressure acting inwards/outwards					Multi-span, wind pressure acting inwards/outwards				
Span (mm)	**50**	**75**	**100**	**150**	**200**	**50**	**75**	**100**	**150**	**200**
1500	2.93	4.39	5.86	8.79	11.72	2.34	3.52	4.69	7.03	9.37
2700	1.63	2.44	3.25	4.88	6.51	1.30	1.95	2.60	3.91	5.21
3900	1.10	1.65	2.20	3.29	4.39	0.90	1.35	1.80	2.70	3.61
5100	0.64	0.96	1.28	1.93	2.57	0.64	0.96	1.28	1.93	2.57
6300	0.37	0.63	0.84	1.26	1.68	0.42	0.63	0.84	1.26	1.68
7500	-	0.45	0.59	0.89	1.19	0.30	0.45	0.59	0.89	1.19
8700	-	0.33	0.44	0.66	0.88	-	0.33	0.44	0.66	0.88
9900	-	-	0.34	0.51	0.68	-	0.26	0.34	0.51	0.68
Panel Mass kg/m²	12.03	13.00	13.99	15.49	17.39	12.03	13.00	13.99	15.49	17.39

Thermal Insulation Value

'R' (m²K/W)	2.4	3.6	4.8	7.1	9.1	2.4	3.6	4.8	7.1	9.1
'U' (W/m²K)	0.41	0.28	0.21	0.14	0.11	0.41	0.28	0.21	0.14	0.11

Acoustic Properties

Rw value for MetecnoPanel® ranges from 25 to 27 depending on thickness. Refer Bondor® for your specific application.

Fire Hazard Properties

AS 1530.3 Indices	
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

NOTES:

1. Pressures specified are for wind gusts only per AS1170.
2. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 – TABLE C1.
3. Fixing with 14g tek screws (x4 off) or mushroom head bolts (x2 off) minimum per fixing point are required.
4. Extended span tables including **cyclonic regions C&D** are also available. Refer Bondor.

PIR: What is it?

Polyisocyanurate (PIR) is rigid polyurethane foam made, as all rigid polyurethanes are, by mixing two chemical streams (isocyanate and polyol) with appropriate catalysts and a blowing agent.

In PIR, the isocyanate-to-polyol ratio is greatly increased to create an ISO/ISO reaction that finely disperses a fire-retardant trimer throughout the foam.

NB: MetecnoPanel® is manufactured using pentane as the blowing agent, which has zero ozone-depleting potential

BONDOR®

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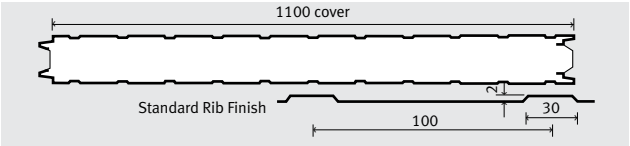
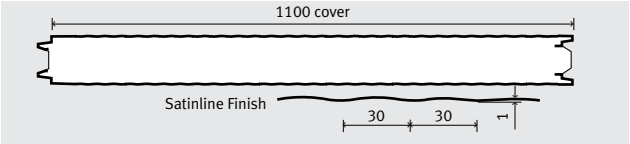
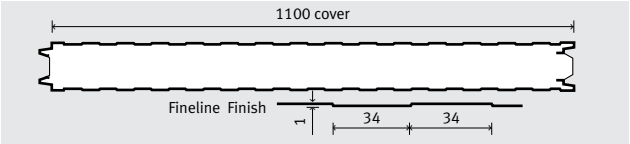
STANDARD RIB



SATINLINE



FINELINE



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Consult Bondor® for your application.

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