

Product	MetecnoPanel® PIR Architectural Wall
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.
Supplier	MetecnoPIR®
Address	111 Ingram Rd Acacia Ridge, QLD, Australia 4110
Contact Number	07 3323 9900
Website	www.metecnopir.com.au
Product Overview	
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; Stainless Steel 0.55mm
External Finishes	Plain, Fineline, Satinline, Ribbed
Exterior Colour Options	Surfmist®. Other colours available subject to minimum order quantities.
Internal Material	BlueScope® Steel 0.5mm, 0.6mm G300; Stainless Steel 0.55mm
Internal Finishes	Plain, Fineline, Satinline, Ribbed
Internal Colour Options	Permagard® 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
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)
Technical Properties	
Thermal - AS/NZS 4859.1	
Total R-Value (m²K/W)	50, 75, 100, 125, 150, 200mm MetecnoPanel® delivers Total R-value of 2.7, 4.0, 5.3, 6.6, 7.9, 10.4 for insulation average temperature of 15°C. Contact us for other temperatures.
Acoustics - AS 1191, AS/NZS 1276 & AS/NZS ISO 717.1	
Rw Value (dB)	MetecnoPanel® has been tested in accordance with the requirements of AS 1191. The Weighted Sound Reduction Index (Rw) of the panel is calculated using AS/NZS 1276 and AS/NZS ISO 717.1 respectively with acoustic values of Rw 25 - 27 depending on thickness. Refer to MetecnoPIR® Australia for your specific application.
Fire	
Fire hazard properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	4
SMOGR_{RC}	< 100
Material Group Numbers AS 5637.1 / AS ISO 9705	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.

Bushfire Attack Level AS 3959	MetecnoPanel® is suitable for use as external walls of Class 1 and 10 buildings to be constructed in designated bushfire prone areas that have a BAL-0 to BAL-FZ.
FM Approval FM 4880, FM 4881	MetecnoPanel® Insulated Wall system is fully approved by Factory Mutual, a respected global insurer whose standards are amongst the highest in the world. MetecnoPanel® is FM Approved to FM 4880 No Height Restriction & FM 4881 No Height Restriction. Refer to MetecnoPIR® Australia for advice.
Environmental	Zero Ozone Depleting Potential (ODP)
Structural - AS/NZS 1170, AS 1562.1, AS4040	
Span Tables	MetecnoPIR® provides the latest Ultimate Limit State Span Tables developed specifically for Australasian conditions, in accordance with AS/ NZS 1170, AS 1562.1 & AS 4040. Refer to Span Tables for detailed design guidelines and Span Tables for both Non-Cyclonic Regions A & B and Cyclonic Regions C and D. Extended Span Tables for Internal Wall, Ceiling and Cold room Applications, and for Residential Applications are also available. Refer to Span Table Notes for design guidelines relating to fixing, and deflection limits. The panel design shall be specified by the certifying engineer as determined from the Span Tables.
Support Details	The support spacing shall be specified by the structural engineer as determined from the Span Tables.
Safe Handling & Installation	
Panel Length	Up to 16m, however site, transport and wind load restrictions can limit panel length.
Storage	Panels should always be kept dry and if placed on site, stored off the ground, slightly inclined, allowing adequate drainage and ventilation of the panel pack. No other materials to be stored I stacked on top of panel pack.
Handling	In the event of manual handling, careful consideration should be given to panel weight and appropriate PPE. Consider using mechanical aides if necessary.
Safety	The contractor is to determine and use safe working methods throughout the installation and construction period, which complies with OHS requirements. A safe work method template (although NOT project specific) is available from MetecnoPIR®.
Supporting Frame	The builder is to ensure that the substrates including slabs and kerbs; and sub frames are straight, smooth and fit for purpose.
Fixing	Fixings are to meet the requirements of Bluescope TB-16 Fasteners for Roofing and Walling Product Selection Guide. Fasteners must be manufactured from high grade carbon steel with a minimum class 4 anti-corrosion coating as per Australian Standards. Refer to Span Tables Notes for design guide relating to screw fixing.
Flashing	Flashings are manufactured from 0.55mm Bluescope Colorbond® steel and installed to AS 1562.1 or as otherwise specified in the MetecnoPIR® Cold Storage or Standard Construction Details.
Sealant	Sealant to be neutral cure and meet recommendations for sealants as per Bluescope TB-9 Sealants for Exterior Finishes. Silicon, polyurethane, butyl mastic and acrylic based sealants may be appropriate if neutral cure and recommended by their manufacturer for use on Colorbond® steel and for the application. Sealant to be placed between flashings/angles and panel and between panel joints as shown on the MetecnoPIR® Standard Construction Details.
Installation	<p>Installation as per the MetecnoPIR® Standard Construction Details.</p> <ul style="list-style-type: none"> • Panels are to be cut & trimmed to ensure a flush finish. • Panels are to be confirmed square & plumb as per project requirements. • Panels are to be cut with a suitable metal cutting circular type saw. Angle grinder is not recommended. • Penetrations for outlets, vents, flues etc. are to be flashed & sealed with appropriate materials. Refer flashing details above. • Gaps to be filled with a suitable sealant or foam filler. • Refer to MetecnoPIR® Standard Construction Details & Fixing Details above for fastener requirements. • Remove all swart and any foreign matter immediately from all panel surfaces as per Bluescope TB-5 Swart staining of steel profiles.
Maintenance	Refer to Bluescope TB-4 Maintenance of Colorbond® and Zinalume® Steel and the relevant MetecnoPIR® maintenance information.
Warranties & Disclaimers	
Warranty	Bondor offer a conditional warranty up to 15 years on MetecnoPanel® for use as architectural walling panels and up to 10 years for use as cool room panels from install date for projects on an application basis, dependent on project location, design, installation, end use, environmental conditions and maintenance of the product. Please contact the Bondor sales team with your specific project details for more information on the available conditional warranties.
Disclaimers	Under certain light conditions this product may show an undulating surface which can vary depending on exterior profile and steel gauge selection as well as the environments varying light conditions.