

Product	MetecnoInspire® PIR Architectural Wall
Product Description	MetecnoInspire® is an insulated architectural facade system that offers architects and designers an inspiring palette of colours, attractive surface profiles and excellent thermal properties. MetecnoInspire® also offers an innovative concealed fix system making it an ideal solution for Inspired facade or walling designs.
Supplier	MetecnoPIR®
Address	MetecnoPa111 Ingram Rd Acacia Ridge, QLD, Australia 411
Contact Number	07 3323 9900
Website	www.metecnopir.com.au

Product Overview

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1100
Thickness (mm)	50, 60*, 80, 100 (* MetecnoInspire® V only.)
Length	Up to 16m (check for availability)
External Material	Bluescope® Steel 0.5mm, 0.6mm G300
External Finishes	Single V Rib, V Rib, Double V Rib, Micro V Rib, Satinline
Exterior Colour Options	Classic Cream™, Surfmist®, Paperbark®, Evening Haze®, Shale Grey™, Dune®, Cove™, Windspray®, Pale Eucalypt®, Gully™, Mangrove®, Wallaby®, Jasper®, Manor Red®, Terrain®, Basalt®, Woodland Grey®, Monument®, Ironstone®, Cottage Green®, Deep Ocean®, Night Sky®. Metallics: Galatic™, Cosmic™, Rhea™, Astro™, Aries™, Celestian™
Internal Material	Bluescope® Steel 0.5mm, 0.6mm G300
Internal Finishes	Plain
Internal Colour Options	Permagard® White
Paint System	AS/NZS 2728 & AS 1397
Accreditations	Codemark Certificate Number CM40191
Bushfire Attack Level	BAL-40 (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, 60, 80, 100mm MetecnoInspire® delivers Total R-value of 2.45, 2.92, 3.85, 4.79 at 15°C. Contact us for other temperatures.
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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
Bushfire Attack Level AS 3959	MetecnoInspire® 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-40 or less.

Material Group Numbers AS 5637.1 / AS ISO 9705	MetecnoInspire® PIR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 as Group 2.
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FM Approval FM 4880, FM 4881	MetecnoInspire® Insulated Wall system is fully approved by Factory Mutual, a respected global insurer whose standards are amongst the highest in the world. MetecnoInspire® 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	Bondor® 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 Non-Cyclonic Regions A & B. Extended Span Tables for Ceiling Applications is 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 / 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 Metecnoinspire® 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 Bondor® Standard Construction Details.
Sealant Details	Sealant(s) 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 Bondor® construction drawings.
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 swarf and any foreign matter immediately from all panel surfaces as per Bluescope TB-5 Swarf 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 of up to 15 years for Metecnoinspire® for use as architectural walling 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.