

Product	MetecnoInspire® PIR Architectural Wall Panel
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	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
Thickness (mm)	50, 60*, 80, 100
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
Interior Colour Options	COLORBOND® Intramax™
Paint System	AS/NZS 2728 & AS 1397
Accreditations	Codemark Certificate Number CM40191
Acoustic Properties	Rw 26 depending on thickness
Material Group Numbers	C1.10 Group 1 & 2 ^a
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

Declared R-Value (m²K/W)	50, 60, 80, 100mm MetecnoInspire® delivers Declared R-value at 23°C of 2.20, 2.65, 3.55, 4.45 respectively. Contact us for other temperatures.
--------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------

Acoustics - AS 1191, AS/NZS 1276 & AS/NZS ISO 717.1

R_w Value (dB)	MetecnoInspire® has been tested in accordance with the requirements of AS 1191. The Weighted Sound Reduction Index (R _w) of the panel is calculated using AS/NZS 1276 and AS/NZS ISO 717.1 respectively with acoustic values of R _w 26 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

a. MetecnoInspire® PIR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10 as either Group 1 or Group 2 depending on the thickness and construction details.

Group 1 - Panel up to 100mm thick with internal steel angles and external steel or aluminium angles fixed with steel rivets or screws at maximum 300mm centres is classified as Group 1.

Group 2 - Panel up to 100mm thick with aluminium 'wall-wall' and 'wall-ceiling' angles (1.5mm) fixed with aluminium rivets or screws is classified as Group 2.

Refer Metecno® for construction details.

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.

**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 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 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 MetecnoPIR® 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 Installation as per the MetecnoPIR® Standard Construction Details.

- 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 MetecnoPIR® 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 MetecnoPIR® 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.