

v21 - 24/08/22



Support Details

Product	MetecnoSpan® PIR Insulated Roof Panel
	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
Product Description	FM Approved products is required. MetecnoSpan is reapable of long spans and high thermal performance and is used
	mainly in commercial and industrial roofing applications.
Supplier	MetecnoPIR®
Address	111 Ingram Rd Acacia Ridge, QLD, Australia 4110
Contact Number	07 3323 9900
Website	www.metecnopir.com.au
Product Overview	·
Trouble Overview	PIR
Core	(Fire-retardant Polyisocyanurate)
Width (cover mm)	1000
Thickness (mm)	40, 60, 80, 100
Length	Up to 25m (check for availability)
External Material	0.42mm COLORBOND® steel
External Finishes	Trapezoidal Profile
Exterior Colour Options	Surfmist®. Other colours available subject to minimum order quantities.
Internal Material	0.5mm G300 COLORBOND® steel
Internal Finishes	Plain, Fineline, Satinline, V Rib
Interior Colour Options	Surfmist [®]
Pitch	2 degree minimum
Paint System	AS/NZS 2728 & AS 1397
Accreditations	CodeMark Certificate Number CM40183
Acoustic Properties	Rw 24 - 25 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	4471, 4880, 4881
Environmental	Zero Ozone Depleting Potential (ODP)
Technical Properties	
Thermal - AS/NZS 485	59.1
-	40, 60, 80, 100mm MetecnoSpan® delivers Declared R-value at 23°C of 1.85, 2.75, 3.65, 4.55 respectively. Contact us for
Declared R-Value (m ² K/W)	other temperatures.
Acoustics - AS 1191, A	AS/NZS 1276 & AS/NZS ISO 717.1
·	MetecnoSpan® has been tested in accordance with the requirements of AS 1191. The Weighted Sound Reduction Index
P. Value (dP)	(Rw) of the panel is calculated using AS/NZS 1276 and AS/NZS ISO 717.1 respectively with acoustic values of $R_{\rm w}$ 24 - 25
R _w Value (dB)	
	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	1
SMOGRA _{RC}	< 100
	a. MetecnoSpan® PIR steel skinned insulated building panels conform to the requirements of the BCA Specification
Material Group Numbers	C1.10 as either Group 1 or Group 2 depending on panel thickness and construction details. Refer Metecno® for more
AS 5637.1 / AS ISO 9705	
A3 3037.1 / A3 130 3703	information.
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Bushfire Attack Level AS 3959	MetecnoSpan® is suitable for use as roof covering for Class 1 and 10 buildings to be constructed in designated bushfire
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The panel design shall be specified by the certifying engineer as determined from the Span Tables.

The support spacing shall be specified by the structural engineer as determined from the Span Tables.



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Panel Length	Up to 25m, 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. The contractor is to determine and use safe working methods throughout the installation and construction period,
Safety	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, true 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. Fasteners are to be fitted with bonded washers of either aluminium (16mm or 25mm diameter).
	Side laps should be stitched at 450mm centres. Additional fixings may be required for cyclonic areas. Refer to
	MetecnoPIR® Roofing Construction Details & Span Tables Notes for design guide relating to screw fixing.
External Side Lap	External side laps may be required to be weather sealed with a continuous bead of approved sealant. Please consult
	MetecnoPIR® technical team for advice during the design phase.
End Laps	End laps may be formed by either standard expansion step (requires support steel step) or sheet end lapping in one
	plane. End laps must be 225mm long and sealed with two unbroken beads of approved sealant.
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 Drawings.
Infill Strips	Infill strips manufactured from closed sell polyethylene may be installed where flashings are fixed across the sheet
	profile. The infill strips assist to stop wind driven rain from entering the flashing trims.
	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
Sealant	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 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.
	Appropriate lifting equipment to be used for roof panels.
	Roof panels to be installed and fit as close and tight as possible.
	Ensure appropriate gutter cutbacks for drainage.
	 Roof sheets endlap must be designed and installed with correct roof pitch, water run-off and use approved SecureLap
	End Lap roof system.
Installation	 Fasteners are to be installed without overtightening to prevent distortion of panel surfaces. Ensure weathertight
	contact of washer seal with panel surface.
	 All accessories must be compatible material properties with BlueScope COLORBOND® Steel.
	 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 AS1562 & SA HB 39 for roofing/cladding installation & plumbing.
	 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.
	Refer to BlueScope TB-4 Maintenance of COLORBOND® and Zincalume® Steel and the relevant MetecnoPIR®
Maintenance	maintenance information.
Warranties & Di	
	MetecnoPIR® offer a conditional warranty on MetecnoSpan® for use as architectural roofing panels of up to 30 years
Warranty	for material and up to 20 years for exterior paint system 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