equitilt® flameguard® MW

Technical Data Sheet
Version 51
Current as of: 01/04/20

Product Description

Equitilt® FlameGuard® is a non-combustible architectural walling panel system manufactured with a mineral wool fibre core material. Equitilt® FlameGuard® is FM Approved to FM 4880 No Height Restriction. Equitilt® FlameGuard® Plus is FM Approved to FM 4880 & FM 4881 No Height Restriction. These panels are recommended to be used where improved fire performance is required for insurance purposes in walling applications.

Panel Properties				
	FlameGuard®		FlameGuard® Plus	
Panel Thickness (mm)	50	75	100	150
Typical Mass (kg/m²)	15.6	18.1	20.6	25.6
Total R-value (m²K/W)	1.6	2.3	3.0	4.4
Note: The above Total R-values are for insulation average temperature of 15˚C. Contact us for other temperatures.				
Max. Lengths for Standard Supply				
Max Panel Length (m)	5	7	9	11 (Special Order)

Span Table

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

Mineral Wool Core / 0.6mm Steel Skins.
Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Single Span, wind pressure acting inwards/outwards				
Span (mm)	Panel Thickness (mm)			
	FlameGuard®		FlameGuard® Plus	
	50	75	100	150
1500	1.88	2.81	3.75	5.63
2700	1.04	1.56	2.08	3.13
3900	0.72	1.08	1.44	2.16
5100	0.49	0.78	1.04	1.56
6300	0.30	0.51	0.68	1.02

Multi-Span, wind pressure acting inwards/outwards				
Span (mm)	Panel Thickness (mm)			
	FlameGuard®		FlameGuard® Plus	
	50	75	100	150
1500	1.50	2.25	3.00	4.50
2700	0.83	1.25	1.67	2.50
3900	0.58	0.87	1.15	1.73
5100	0.44	0.66	0.88	1.32
6300	0.34	0.51	0.68	1.02

* Refer Notes 1 - 4.

Span Table

INTERNAL APPLICATIONS

Inside Buildings				
Span (mm)	Panel Thickness (mm)			
	FlameGuard®		FlameGuard® Plus	
	50	75	100	150
Walls (Non-Load Bearing)	6000	7200	8400	10000
Ceilings	2300	3400	4500	4500

* Refer Notes 3 - 9.

FlameGuard® Plus FRL Systems Vertical Walls					
	Panel Thickness (mm)				
	100	100	100	150	150
Maximum FRL	-/30/30	-/60/60	-/90/90	-/60/60	-/180/180

FlameGuard® Plus FRL Systems Horizontal Walls			
	Panel Thickness (mm)		
	100	100	150
Maximum FRL	-/60/60	-/90/90	-/120/120
Bondor® provide a variety of FRL construction and fixing options. Refer to Bondor® for maximum span and up-to-date construction details.			

Colorbond® Permagard®

BALFZ

NON-COMBUSTIBLE

AS1530.4 FRL 180/180/180

FM APPROVED

CODEMARK Australia
Certificate CM40149

Core	MW (Mineral Wool)
Width (cover mm)	1200, 1140**, 900**
Thickness (mm)	FlameGuard®: 50, 75 FlameGuard® Plus: 100, 150
Length	Up to 11m (check for availability)
External Material	0.6mm, 0.7mm G300 Colorbond® steel
External Skin	Colorbond® steel
External Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Exterior Colour Options	Standard & Non-Standard colours. Check for availability.
Internal Material	0.6mm, 0.7mm G300 Colorbond® steel
Internal Skin	Colorbond® steel
Internal Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Interior Colour Options	Permagard® White
Paint System	AS/NZS 2728 & AS 1397
Acoustic Properties	Rw 28 - 30 depending on thickness
Material Group Numbers	C1.10 Group 1
Bushfire Attack Level	FlameGuard®: BAL-40 FlameGuard® Plus: BAL-FZ (All exposed core to be covered with flashing)
FM Approval	FlameGuard®: 4880 FlameGuard® Plus: 4880 & 4881
Environmental	Zero Ozone Depleting Potential (ODP)
Combustibility	Non-combustible
Fire Hazard Properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	3
$SMOGRA_{RC}$	< 100

** Contact a local Bondor representative to discuss minimum order quantities for non-standard widths.

The technical information contained in this document cover a breadth of applications where Equitilt FlameGuard® may be used, which may be outside the scope of our Codemark certificate. Data specific to CodeMark certification can be found on Equitilt FlameGuard®'s CoC CM40149.

SPAN TABLE NOTES:

1. Extended span tables including wind pressure acting inwards are also available. Refer Bondor®.
2. Fixing with min. 2x 14g tek screws or 1x mushroom head bolts per panel are required.
3. Pressures specified are for wind gusts only per AS/NZS 1170.2.
4. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS/NZS 1170.0 - TABLE C1.
5. This span table does not apply to cold store enclosure.
6. For ceilings, fixing with min. 14g tek screws (x4 off) per fixing point or mushroom head bolts (x1 off at end support and x2 off at intermediate supports) are required.
7. For ceilings, self weight of the panel has been allowed for, plus an allowance of up to 10kg/m² for light duty fittings (lights, etc.). No other dead loads permitted.
8. Non-trafficable maintenance access (concentrated load) of 110kg on any one panel has been allowed for (as per min. requirements of AS/NZS 1170.1).
9. Distributed live load of 0.25kPa (as per AS/NZS 1170.1) has been allowed for. Bondor® tests comply with details outlined in AS 4040.0, AS 4040.1, AS 4040.2, AS 4040.3, AS 1562.1 and AS/NZS 1170.1.

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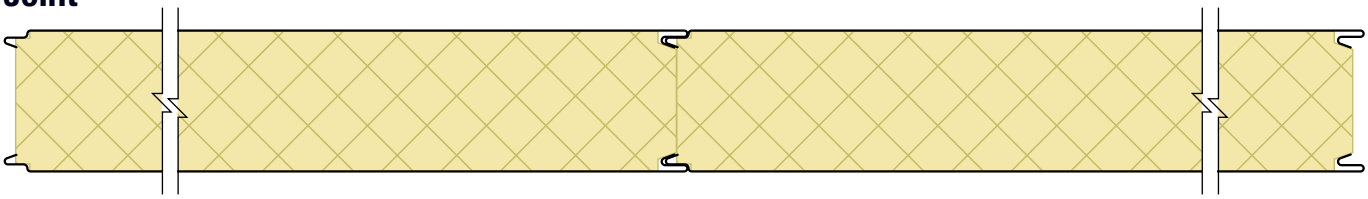
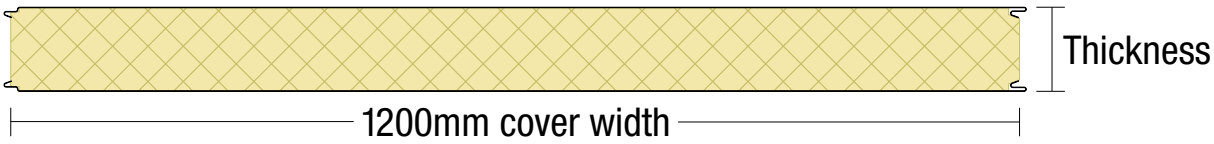
Joint



Profiles

Dimensions



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BONDOR®

Leaders in Thermal & Architectural Building Solutions

BONDOR®

Product Overview

Leaders in Thermal & Architectural Building Solutions

BONDOR®

Leaders in Thermal & Architectural Building Solutions

Contents

Introduction

The Bondor® Product Guide is an overview of the steel faced insulated wall & roof panel systems Bondor® supplies to the Australian building market. This guide provides basic product information such as panel physical properties, spans, acoustic, fire and thermal performance.

Where greater detail is required please refer to our technical data sheets, product guides, installation manuals and standard drawings. This information is readily available from the Bondor website www.bondor.com.au or by contacting a local Bondor® representative on 1300 300 099.

Why Bondor® are the Market Leaders

Bondor® is Australia's only manufacturer, distributor and installer of 'EPS-FR' cored panel, Factory Mutual Approved 'PIR' cored panel and Factory Mutual Approved 'MW' cored panel. As such, we are in a unique position to be able to offer our customers impartial advice on the right insulated panel solution to meet their needs.

Support for Australian Standards & Local Manufacturing

Bondor® is an Australian manufacturer producing steel faced insulated panel systems in eight facilities around Australia. In over 65 years, we have manufactured in excess of 100 million square metres and installed in excess of 65 million square metres.

Bondor® products are physically tested and certified to conform to stringent Australian Standards and comply with the performance criteria when used in accordance with the National Construction Code.

Bondor® provide technical advice and support throughout the design and construction process. Our dedicated Technical Services team, local State representatives and construction supervisors are relied upon by our customers for the right advice based on Bondor's 65 years of construction experience and product development in Australia.

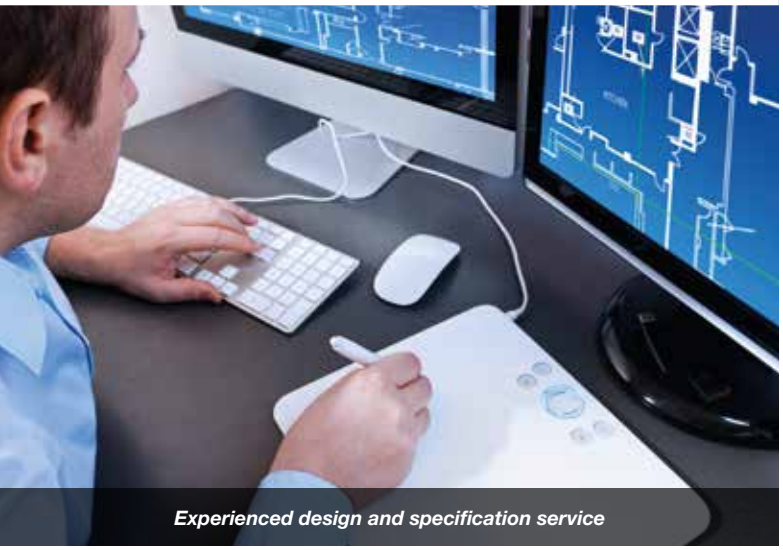
Global Experience

Bondor®, through its associated businesses, has links to the global Metecno Group. As such, we are able to access the latest trends in building product innovation and blend these with Australian experience and know how.

Bondor® Industry Training & Professional Development sessions

Australian Standards Tested & Certified Products

Continual testing and innovation



Experienced design and specification service

Quality Assurance, Proven Partnerships

BlueScope Steel

In business, your reputation is everything and minimizing risk makes sound business sense. Using only BlueScope® Steel for our panel skins ensures quality Australian steel products and transparent and reliable warranties.

Factory Mutual (FM)

Approved Products and Systems

Factory Mutual (FM) Global is one of the worlds leading insurance companies and its product testing is an accepted international standard of product quality and performance in the insurance industry. A range of Bondor products and installation details have been FM approved, providing building owners and insurers a level of confidence in their performance in the face of fire or natural hazards such as cyclones.

IPCA

Bondor® is an acting member of the Insulated Panel Council Australasia and actively involved in developing the industry Code of Practice for panel construction.

The key objective of the Insulated Panel Council Australasia Ltd Code of Practice (the CODE) is to improve the standard and consistency of use and installation of Insulated Sandwich Panel in Australian buildings. The CODE sets out the principles and standards for the design, manufacture, installation, maintenance and risk management of structures built with insulated sandwich panels. The CODE has been developed through consultation with industry leaders, external fire experts and members from NSW Emergency Services and AFAC.

AIA

The Australian Institute of Architects

The Australian Institute of Architects (AIA) is the peak body for architectural professionalism in Australia, representing 12,000 members. The Institute works to improve our built environment by promoting quality, responsible and sustainable design.

As supporting corporate partner to the AIA, Bondor® is actively involved in industry forums, technical CPD presentations and specific product and installation advice to AIA members.

NATA

NATA accreditation provides a means of determining, formally recognising and promoting the competence of facilities to perform specific types of testing, inspection, calibration, and other related activities.

Build Better with Bondor®

Fast Build Times

Bondor's insulated panels fit together easily, require few tools for preparation, are easy to handle and install, leading to fast build times.

Cost Effective

Bondor® wall and roof systems are able to achieve significantly long spans, reducing structural steel and support requirements in comparison to traditional cladding and roofing products.

Design Flexibility

Coupled with Bondor's product performance is the design flexibility for specifiers to select from a wide array of exterior and interior finishes, modern colours with varying gloss levels, horizontal or vertical orientation to inspire creative and colourful building envelopes with Bondor's high performing and functional building systems.

Low Maintenance & Hard Wearing

Bondor® panel systems use Colorbond® steel for its high quality and consistent pre-finished look as well as ongoing low maintenance, tested and proven for use in the Australian environment.

Environmentally Friendly

Bondor's wall and roof systems have a low impact on the environment with the use of zero ozone depleting insulation material and fully recyclable steel. Bondor® products deliver building owners and occupants with superior thermal performance and air leakage control, reducing the building envelope's heating and cooling costs, energy consumption and carbon footprint.

Why use Bondor® building solutions?

Bondor® Panel Systems Versus Traditional Systems

Bondor® products conform to the Australian Standards through rigorous testing and independent certification to ensure compliance requirements are met across various building application performance criteria as prescribed in the National Construction Code.

- Bondor® products meet Part J (NCC Vol. 1) by providing roofing, insulation and ceiling in one product, eliminating the need for unsightly and labour intensive wire mesh, bulk insulation and spacer battens.
- Insulated panels do not compress, crumble or take up moisture like other insulation types. This avoids the loss of thermal barrier effectiveness and efficiency over time, which effects traditional systems.
- Wall and roof panels lock together, forming an airtight seal that significantly reduces air leakage and improves energy efficiency, therefore saving on heating and cooling costs.
- Significantly longer spanning capability means a reduction in structural steel.
- Up to 50% quicker installation means faster end user occupancy and earlier cash flow generation, with weeks saved from building schedules.
- Ease of installation means less labour is required to install Bondor® insulated panel systems.
- Insulated panels eliminate thermal transfer and bridging.
- Savings in structural steel, mesh and labour means the project is completed much quicker to conventional methods.

Slower Traditional Methods

Conventional Roofing / Walling Methods

Conventional commercial roofing and walling systems are labour intensive with multiple steps, subsequent increased costs and safety concerns.

Painstakingly labour intensive wire

Insulation rolls are “man-handled”

Many spacer battens secured

Roof sheet is then tacked in place

Poor thermal performance

Labour & material intensive

Summary of Physical Properties

	Product	Core	Cover Width mm	Thickness mm	R Value m^2K/W	Weight kg/ m^2	Max Length	Max Span At 1kPa	Acoustic Rw value	Features
Insulated Walling	Inspire®	PIR	1100	50-100	2.4-4.91	13.91-15.96	16m	5.3m	25-27	Architectural, Conceal Fix
	Equitilt®	EPS-FR	1200	50-250	1.24-6.2	12-14.9	16m	8.7m	24-25	Architectural, Conceal & Standard Fix
	Equitilt® FlameGuard®	MW	1200	50-150	1.3-3.7	15.6 - 25.6	11m	6.3m	28-30	Non-Combustible, FRL, FM Approved
	MetecnoPanel®	PIR	1100	50-200	2.4-9.1	12-17.4	16m	8.1m	25-27	High Thermal Performance, IPCA Compliant, FM Approved
	BondorPanel®	EPS-FR	1200	50-250	1.32-6.58	11.3-14	16m	8.9m	24-25	Proven Performance, Group 1, IPCA Compliant
	InsulWall®	EPS-FR	1200	90-140	2.35-3.69	11.8-12.5	16m	6.6m	24-25	Structural Wall System, CodeMark Certified
	LuxeWall®	EPS-FR	900	50, 75	1.8-3.7	11.8-12.26	6.5m	1.2m	24-25	Luxury Wall System, CodeMark Certified
Insulated Roofing	MetecnoSpan® Rib	PIR	1000	40-100	2.3-5.1	10-12.2	up to 25m**	7.6m	24-25	Low Pitch Rib Roof, Long Spans, FM Approved
	SolarSpan® Rib	EPS-FR	1000	50-200	1.6-5.3	10.6-12.65	up to 24m**	6.5m	24-25	Low Pitch Rib Roof, Long Spans, Local Avail
	InsulRoof® Corro	EPS-FR	1000	50-200	1.6-5.4	11.6-13.65	up to 12m**	6.5m	24-25	Corro Profile, Long Spans
	Equideck® Flat	EPS-FR	1200	50-250	1.4-6.3	11.3-14	16m	7.8m	24-25	Wide Flat Tray, Thermal Performance
	EconoClad® Foilback	PIR	1000	25-100	2.3-5.1	5.33-7.62	16m	1.5m	25-27	Foilback Rib Roof

Max spans shown represent thickest panel option for multi-spans.
*To achieve Group 1, the system must be installed per Bondor® instructions, otherwise Group 2 rating applies. Refer Bondor® Technical Data Sheets for more information.
**Refer your local branch.

Summary of Fire Properties

Core	EPS-FR	PIR	MW
Group Number	1 & 2	2	1 & 2
AS 1530.3 Spread of Flame Index	0	0	0
AS 1530.3 Smoke Developed Index	3	1	3
FM Approved 4880 & 4881 (No Height Restriction)		√	√
FM Approved 4471		√	
Fire Rated to AS 1530.4			-/60/60 -/90/90 -/180/180
Non-combustible AS 1530.1			√
BAL Rating	BAL 40	BAL 40	BAL-FZ
IPCA Code of Practice Compliant	√	√	√

Note: This summary is intended for Information purposes, for full product specifications refer to product data sheets. Before specifying a specific product ensure a full understanding of project requirements is taken into account and that full assessment is made of the performance and the suitability of the relevant Bondor® product. Bondor® does not warrant that any of its products are suitable for all applications and does not accept responsibility for product selection decisions based on the above information provided.

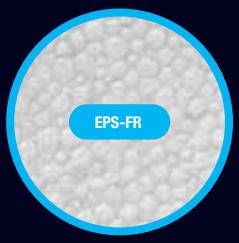
Summary of Environmental Properties

Criteria	EPS-FR	PIR	MW
Zero ozone depleting insulant	√	√	√
Re-usable	√	√	√
Recyclable Steel	√	√	√
VOC	Low	Low	Low
Low Air Leakage	√	√	√
Consistent Insulation	√	√	√
Does not rot, settle and is vermin proof	√	√	√

Bondor's 3 Distinct Core Options

Bondor's unique position enables us to provide unbiased advice across a wide range of roof and wall products with the choice of 3 core materials that are globally accepted, quality controlled and manufactured locally by Bondor in Australia across 8 state of the art facilities.

Selecting high performance and conforming building materials is made easier for specifiers, builders and building occupants with Bondor's range of steel faced insulated panel products and its non-combustible or fire-retardant core options.



EPS-FR

Expanded Polystyrene with Fire Retardant

(EPS-FR) is a thermoplastic high strength foam, which is self-extinguishing when exposed to flames.

PIR

Fire-Retardant Polyisocyanurate

(PIR) is a thermoset high strength foam, which will char when exposed to flame.

MW

Mineral Wool

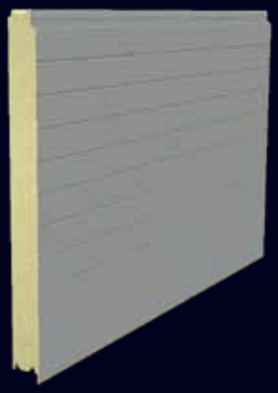
(MW) is molten rock which has been spun into a wool-like fibre and bound with resin and it does not burn when exposed to flames.

Insulated Walling

Bondor® insulated walling systems combine high thermal efficiency and fire performance with a wide selection of attractive surface profiles and vibrant Colorbond® colours, that inspire creative and sustainable designs for Australian building envelopes.


narellan TOWN CENTRE

metecnoinspire®



Inspire® Hidden Fix

PIR

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.

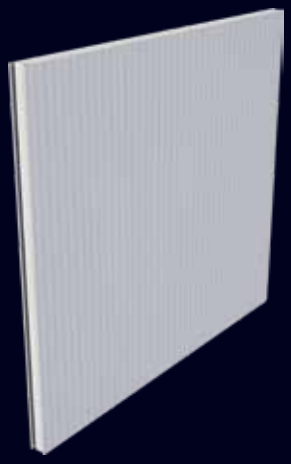
Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1100
Thickness (mm)	50, 80, 100
Length	Up to 16m (check for availability)
External Material	BlueScope® Steel 0.5mm, 0.6mm G300
External Finishes	Single V Rib, V Rib, Double V Rib, Micro V Rib, Satinline
Exterior Colour Options	Classic Cream™, Surmist®, 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™
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

Panel Thickness (mm)	50	80	100
Typical Mass (kg/m^2) based on 0.6/0.5mm skins	13.91	15.14	15.96
Thermal Performance at 6˚C			
'U' Value (W/m^{2}K)	0.40	0.25	0.20
'R' Value (m^{2}K/W)	2.46	3.93	4.91

* Thermal performance is based on NATA test report and using ISO 10456 for the calculation of the initial k - values. K value = 0.020355 W/mK at 23 degrees.


CHRYSLER
Jeep
DODGE
Jeep

equitilt®



Equitilt®

EPS-FR

Equitilt® EPS-FR is an architectural walling panel system installed in a vertical or horizontal orientation that combines functionality with creative expression. Equitilt® is offered in a variety of metallic or standard Colorbond® colours that can be mixed with surface profiles to deliver a stunning finish to a building's exterior and interior.

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1200, 900 (non-std)
Thickness (mm)	50, 75, 100, 150, 200, 250; non-std options available
Length	Up to 16m (check for availability)
External Material	0.6mm, 0.7mm G300 Colorbond® steel
External Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Exterior Colour Options	Standard & Non-Standard colours. Check for availability.
Internal Material	0.6mm, 0.7mm G300 Colorbond® steel
Internal Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Interior Colour Options	Standard & Non-Standard colours. Check for availability.
BCA	C1.10 Group 1 & 2
Paint System	AS 2728 & AS 1397-2011
Acoustic Properties	Rw 24-25 depending on thickness
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3

Panel Thickness (mm)	50	75	100	150	200	250
Typical Mass (kg/m^2)	12.0	12.40	12.80	13.50	14.20	14.90
Thermal Performance (SL Grade)						
'R' Value (m^{2}K/W)	1.24	1.87	2.49	3.73	4.98	6.22


IKEA


ARC

flameguard®

FM APPROVED

AS1530.1 NON-COMBUSTIBLE

MW

Equitilt® Flameguard®

Equitilt® FlameGuard® is a non-combustible architectural walling panel system manufactured with a mineral wool fibre core material. Equitilt® FlameGuard® is FM Approved to FM 4880 - No Height Restriction & FM 4881, and is recommended where improved fire performance is required for insurance purposes in walling and ceiling applications.

Core	MW (Mineral Wool)
Width (cover mm)	1140
Thickness (mm)	50, 75, 100, 150
Length	Up to 12m (check for availability)
External Material	0.6mm, 0.7mm G300 Colorbond® steel
External Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Exterior Colour Options	Standard & Non-Standard colours. Check for availability.
Internal Material	0.6mm, 0.7mm G300 Colorbond® steel
Internal Finishes	Plain, Ribbed, Satinline, Shadowline Series 600/1200
Interior Colour Options	Permaguard® White
FM Approval	4880, 4881
BCA	C1.10 Group 1 & 2
Paint System	AS 2728 & AS 1397-2011
Environmental	Zero Ozone Depleting Potential (ODP)
Acoustic Properties	Rw 28-30 depending on thickness
Combustibility	AS 1530.1 Non-combustible
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	3

Panel Thickness (mm)	50	75	100	150
Typical Mass (kg/m^2)	15.60	18.10	20.60	25.60
Thermal Performance 'R' Value (m^2 K/w)	1.3	1.9	2.5	3.7
Max. Lengths for Standard Supply				
Max Panel Length (m)	5	7	9	11 (Special Order)


great value
special buys

bondorpanel®

BondorPanel®

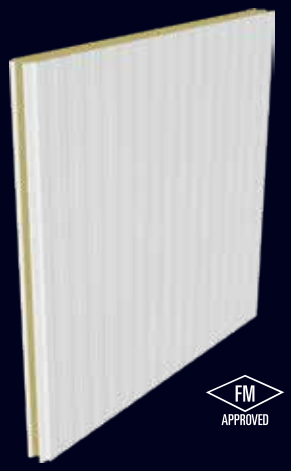
EPS-FR

BondorPanel® is a versatile and high performing insulated wall and ceiling panel used in controlled environments such as cold storage, food preparation areas and clean rooms, but extends its use to transportable offices, wall partitions and many other applications.

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1200
Thickness (mm)	50, 75, 100, 125, 150, 200, 250
Length	Up to 16m (check for availability)
External Material	BlueScope® Colorbond® Steel 0.6mm G300 CRP Grade
External Finishes	Plain, Ribbed, Satinline
Exterior Colour Options	Permagard® White or other standard & non-standard colours
Internal Material	BlueScope® Colorbond® Steel 0.6mm G300 CRP Grade
Internal Finishes	Smooth
Interior Colour Options	Permaguard® White
BCA	C1.10 Group 1 & 2
Paint System	AS 2728 & AS 1397-2011
Spans	AS 1170, AS 1562 & AS 4040
Acoustic Properties	Rw 24
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3

Panel Thickness (mm)	50	75	100	125	150	200	250
Mass (kg/m^2)	11.3	11.6	12.0	12.3	12.7	13.3	14.0
Thermal Performance at 6˚C							
'U' Value (W/m^{2}K)	0.76	0.51	0.38	0.30	0.25	0.19	0.15
'R' Value (m^{2}K/W)	1.32	1.92	2.63	3.29	3.95	5.26	6.58

metecnopanel®



MetecnoPanel®

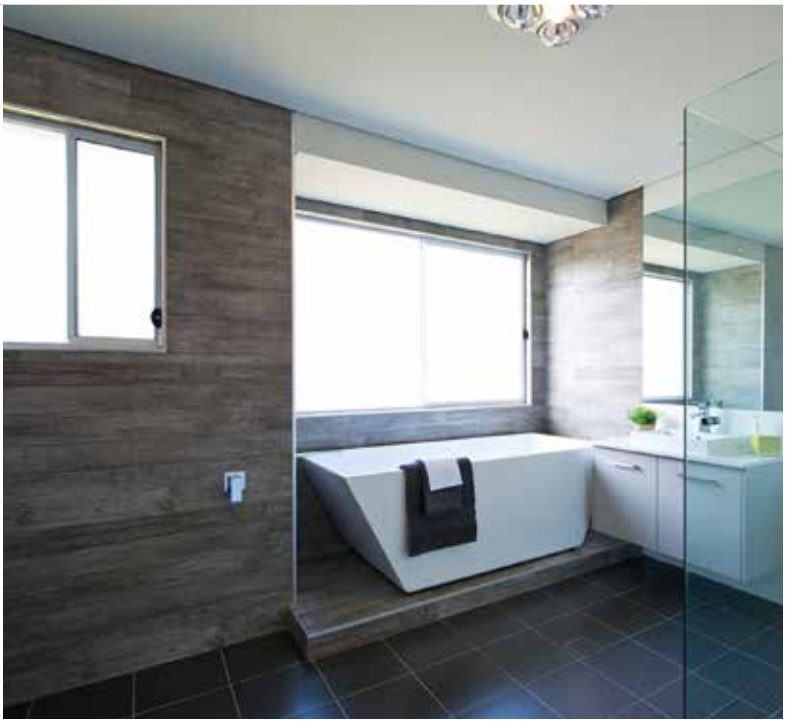
PIR

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.

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1100
Thickness (mm)	50, 75, 100, 125, 150, 200
Length	Up to 16m (check for availability)
External Material	BlueScope® Steel 0.5mm, 0.6mm G300
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
Internal Finishes	Plain, Fineline, Satinline, Ribbed
Interior Colour Options	Permagard® White
FM Approval	4880, 4881
Codemark	CM20226
BCA	C1.10 Group 2
Paint System	AS 2728 & AS 1397-2011
Environmental	Zero Ozone Depleting Potential (ODP)
Acoustic Properties	Rw 25-27 depending on thickness
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

Panel Thickness (mm)	50	75	100	125	150	200
Typical Mass (kg/m^2) based on 0.6/0.6mm skins	12.03	13.00	13.99	14.74	15.49	17.39
Thermal Performance at 23˚C*						
'U' Value (W/m^{2}K)	0.41	0.27	0.20	0.16	0.14	0.10
'R' Value (m^{2}K/W)	2.46	3.68	4.91	6.14	7.37	9.83

* Thermal performance is based on NATA test report and using ISO 10456 for the calculation of the initial k - values. K value = 0.020355 W/mK at 23 degrees.



insulwall®

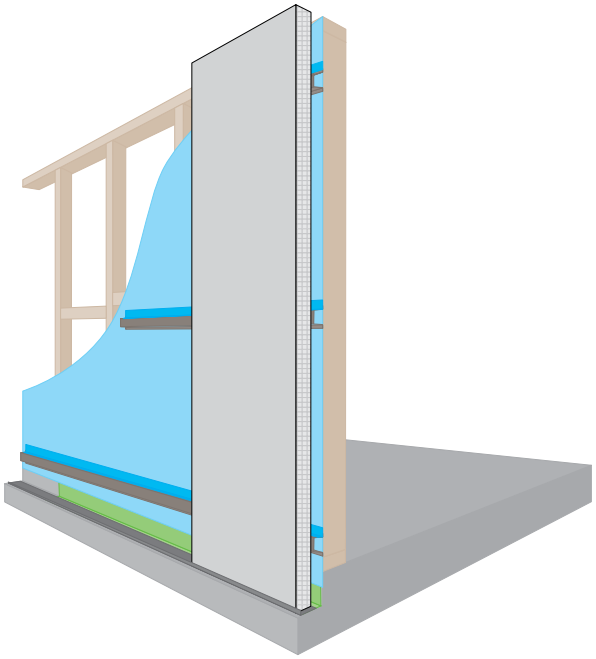
InsulWall®

EPS-FR

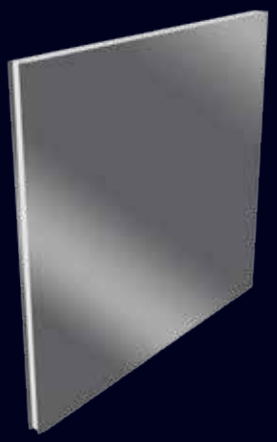
InsulWall® is a lightweight and structural insulated panel made from EPS-FR that is lined with a unique BlueScope® primed steel ready for third party coating systems such as a Dulux® Wash & Wear painted interiors and Dulux® Acratex® acrylic-render coated exteriors. InsulWall® is purpose designed to suit commercial applications as well as the residential housing, modular and renovation market. InsulWall® is available in thicknesses to suit 90mm interior walls and 140mm exterior walls and is available for use with the NCC CodeMark accredited InsulLiving® building system.

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1200
Thickness (mm)	90, 140
Length	Up to 16m (check for availability)
External Material	0.6mm G300 prime coated BlueScope® steel
External Finishes	Plain
Exterior Colour Options	External coating should strictly follow Dulux® DuSpec Specification. Dulux® Acratex® Coventry Coarse.
Internal Material	0.6mm G300 prime coated BlueScope® steel
Internal Finishes	Plain
Interior Colour Options	Internal coating should strictly follow Dulux® DuSpec Specification. Broad walls - Dulux® Wash & Wear 101 Adv L/G. Kitchens - Dulux® Wash & Wear Kitchen. Bathrooms - Dulux® Wash & Wear Bathroom L/G for wet areas
BCA	C1.10 Group 1 & 2
Paint System	AS 2728 & AS 1397-2011
Acoustic Properties	Rw 24
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3

Panel Thickness (mm)	90	140
Mass (kg/m^2)	11.80	12.50
Thermal Performance		
'U' Value (W/m^{2}K)	0.43	0.27
'R' Value (m^{2}K/W)	2.35	3.69



luxewall®



MW

EPS-FR

LuxeWall®

LuxeWall® is a modern, lightweight residential wall cladding solution developed with a concealed fixing system to fasten to timber and metal stud wall framing. The system uses architectural steel faced insulated wall cladding conceal fixed in a vertical orientation. LuxeWall® is available in standard wall thicknesses of 50mm & 75mm (Note: 90 to 200mm wall thicknesses are available via special order).

Core	EPS-FR with CorePlus®
Width (cover mm)	900
Thickness (mm)	50, 75 (other thicknesses available on request)
Length	Up to 6.5m (check for availability)
External Material	BlueScope® Colorbond® Steel 0.6mm G300
External Finishes	Smooth, VJ*
Exterior Colour Options	Metallic Cosmic®, Metallic Astro®, Matt Basalt®, Matt Surfmist®
Internal Material	BlueScope® Colorbond® Steel 0.6mm G300 with HygienePlus®
BCA	C1.10 Group 1 & 2
Acoustic Properties	Rw 25
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3

Panel Thickness (mm)	50	75
Total R-Value LuxeWall® Only	1.8	2.4
Total R-Value with LuxeWall® & R1.5 Batts	3.1	3.7
Total R-Value with LuxeWall® & R2.0 Batts	3.6	4.2

designerwall®

DesignerWall®

EPS-FR

DesignerWall® is a modular acoustic barrier and feature fence system for retail, commercial and residential projects available in either a pre-finished or a 'Texture Ready' coating.

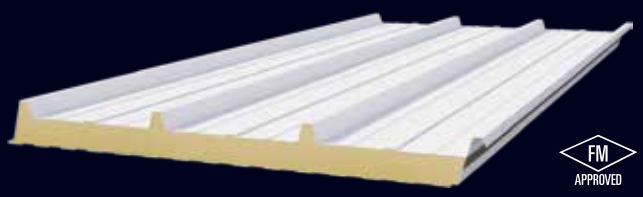
Core	EPS-FR
Module Height (mm)	900-3000 (depending on panel height & post engineering)
Panel Height (mm)	900, 1200
Module Thickness Options (mm)	50, 75
Post Type	Slim, Estate. Other engineered post options available.
External Skin	Colorbond® steel or 'Texture Coat Ready' Steel
Exterior Colour Options	Woodland Grey®, Shale Grey™, other colours available subject to minimum order quantities and availability

Insulated Roofing

Bondor® insulated roof systems outperform traditional roofing materials capable of longer spans, higher thermal performance, faster installation and is approved for use in cyclonic regions.


Coles
Casino
WAREHOUSE

metecnospan®



MetecnoSpan®

PIR

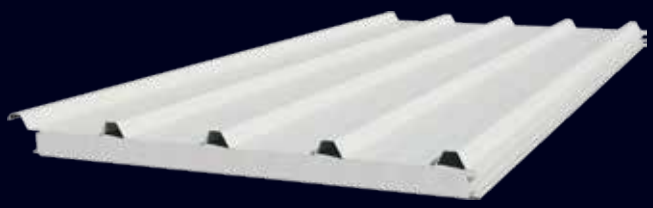
MetecnoSpan® is a roofing system that combines the roofing, insulation and ceiling in one roof panel with a fire-retardant polyisocyanurate (PIR) core. MetecnoSpan® is FM Approved (4880, 4881 & 4471) and is recommended where FM Approved products is required. MetecnoSpan® is capable of long spans and high thermal performance and is used mainly in commercial and industrial roofing applications.

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1000
Thickness (mm)	40, 60, 80, 100
Pitch	2 degree minimum
Length	Up to 25m (check for availability)
External Material	0.42mm G550 Zincalume™ or Colorbond® steel
External Finishes	Trapezoidal Profile
Exterior Colour Options	Surfmist® and Zincalume™. Other colours available subject to minimum order quantities.
Internal Material	0.5mm G300 Colorbond® steel
Internal Finishes	Plain, Fineline, Satinline, Micro V
Interior Colour Options	Surfmist®
FM Approval	4880, 4881, 4471
BCA	C1.10 Group 2
Paint System	AS 2728 & AS 1397-2011
Environmental	Zero Ozone Depleting Potential (ODP)
Acoustic Properties	Rw 24-25 depending on thickness
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

Panel Thickness (mm)	40		60		80		100	
Typical Mass (kg/m²)	10.74		11.56		12.68		13.20	
Thermal Performance	15°†	23°*	15°†	23°*	15°†	23°*	15°†	23°*
'U' Value (W/m²K)	0.42	0.44	0.29	0.31	0.23	0.24	0.18	0.19
'Total R' Value (m²K/W)	2.38	2.28	3.40	3.26	4.43	4.25	5.46	5.23

* Thermal performance based on NATA endorsed test report and using ISO 10456 for the calculation of the initial k - values. K value = 0.020355 W/mK at 23 degrees.
† Thermal performance based on NATA endorsed test report and using ISO 10456 for the calculation of the initial k - values. K value = 0.019479 W/mK at 15 degrees.

solarspan®



SolarSpan®

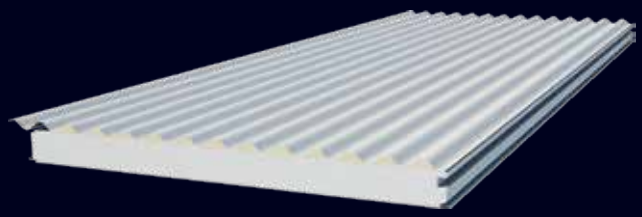
EPS-FR

SolarSpan® is a long-spanning commercial and residential insulated roof panel system that combines roofing, EPS-FR insulation and a pre-painted ceiling in one durable, functional and attractive roof panel. This all-in-one roofing solution is manufactured using Australian-made Colorbond® steel for durability and is installed in a variety of applications including educational facilities, multi-residential housing and retail facilities and is tested for use in cyclonic regions.

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1000
Thickness (mm)	50, 75, 100, 125, 150, 200
Length	Up to 24m (check for availability)
External Material	0.42mm G550 Colorbond® pre-painted steel
External Finishes	High-Rib Trapezoidal Profile
Exterior Colour Options	Classic Cream™, Surmist®, Paperbark®, Shale Grey™, Dune®, Pale Eucalypt®, Manor Red®**, Basalt®^, Woodland Grey®^**
Internal Material	0.6mm G300 Colorbond® pre-painted steel
Internal Finishes	Smooth, Elegance
Interior Colour Options	Classic Cream™, Surmist®
Pitch	2 degree minimum
BCA	C1.10 Group 1 & 2
Paint System	AS 2728 & AS 1397-2011
Acoustic Properties	Rw 24-25 depending on thickness
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3

Panel Thickness (mm)	50	75	100	125	150	200
Typical Mass (kg/m^2) based on 0.6/06mm skins	10.58	10.94	11.3	11.64	11.98	12.65
Thermal Performance at 8°C						
'R' Value (m^{2}K/W)	1.60	2.30	2.90	3.60	4.20	5.50
Thermal Performance at 20°C						
'R' Value (m^{2}K/W)	1.60	2.20	2.80	3.50	4.10	5.30

insulroof®



InsulRoof®

EPS-FR **PUR**

InsulRoof® is a long-spanning insulated roof panel that features a corrugated roof profile and a pre-finished steel ceiling lining encased in Bondor's new proprietary dual layered insulating core technology comprising of EPS-FR and PUR.
This all-in-one roofing solution is manufactured using Australian-made BlueScope® Colorbond® steel for durability and is ideal for a variety of applications including housing, multi-residential, commercial and industrial roofing applications where a corrugated roof profile is desired.
SupaCore® is a proprietary and world-first insulating core technology developed by Bondor® to deliver dual layers of high performance insulation and bonding strength.

Core	EPS-FR (Expanded Polystyrene with fire retardant) PUR (Polyurethane Foam)
Width (cover mm)	1000
Thickness (mm)	50, 75, 100, 125, 150, 200
Length	Up to 12m (check for availability)
External Material	0.42mm G550 Colorbond® pre-painted steel
External Finishes	Corrugated
Exterior Colour Options	Classic Cream™, Surmist®, Paperbark®, Shale Grey™, Dune®, Pale Eucalypt®, Manor Red®**, Basalt®^, Woodland Grey®^**, Zincalume™
Internal Material	0.6mm G300 Colorbond® pre-painted steel
Internal Finishes	Smooth, Elegance
Interior Colour Options	Classic Cream™, Surmist®
Pitch	5 degree minimum
Paint System	AS 2728 & AS 1397-2011
Acoustic Properties	Rw 23-24 depending on thickness
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

Panel Thickness (mm)	50	75	100	125	150	200
Mass (kg/m^2)	11.58	11.94	12.30	12.64	12.98	13.65
Thermal Performance at 15°C						
'R' Value (m^{2}K/W)	1.63	2.26	2.90	3.53	4.16	5.43
Thermal Performance at 30°C						
'R' Value (m^{2}K/W)	1.60	2.19	2.79	3.39	3.99	5.18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equideck®

Equideck® Flat Pan

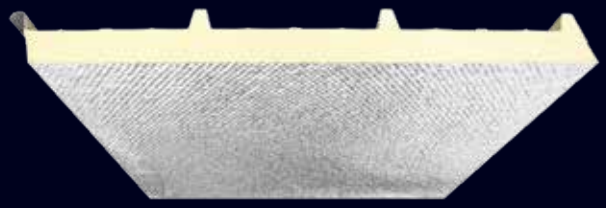
EPS-FR

Equideck® EPS-FR insulated roofing panel system provides a flat and standing-seam like roof profile made from Colorbond® steel, a pre-painted ceiling underside and high performance insulated core in an all-in-one roofing panel. Equideck® is made using Australian-made Colorbond® steel for durability and delivers a long-spanning and thermally efficient roof.

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1200
Thickness (mm)	50, 75, 100, 125, 150, 200, 250 (non-std options available)
Pitch	3 degrees minimum
Length	Up to 16m (check for availability)
External Material	BlueScope® Colorbond® Steel 0.6mm G300
External Finishes	Plain, Ribbed, Satinline
Exterior Colour Options	Surfmist®
Internal Material	BlueScope® Colorbond® Steel 0.6mm G300
Internal Finishes	Smooth
Interior Colour Options	Surfmist®
BCA	C1.10 Group 1 & 2
Paint System	AS 2728 & AS 1397-2011
Acoustic Properties	Rw 24
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3

Panel Thickness (mm)	50	75	100	125	150	200	250
Typical Mass (kg/m²)	11.30	11.60	12.00	12.30	12.70	13.30	14.00
Thermal Performance (SL foam) at 23˚C							
'R' Value (m²K/W)	1.40	2.00	2.60	3.20	3.90	5.10	6.30

econoclad®



EconoClad® Roof

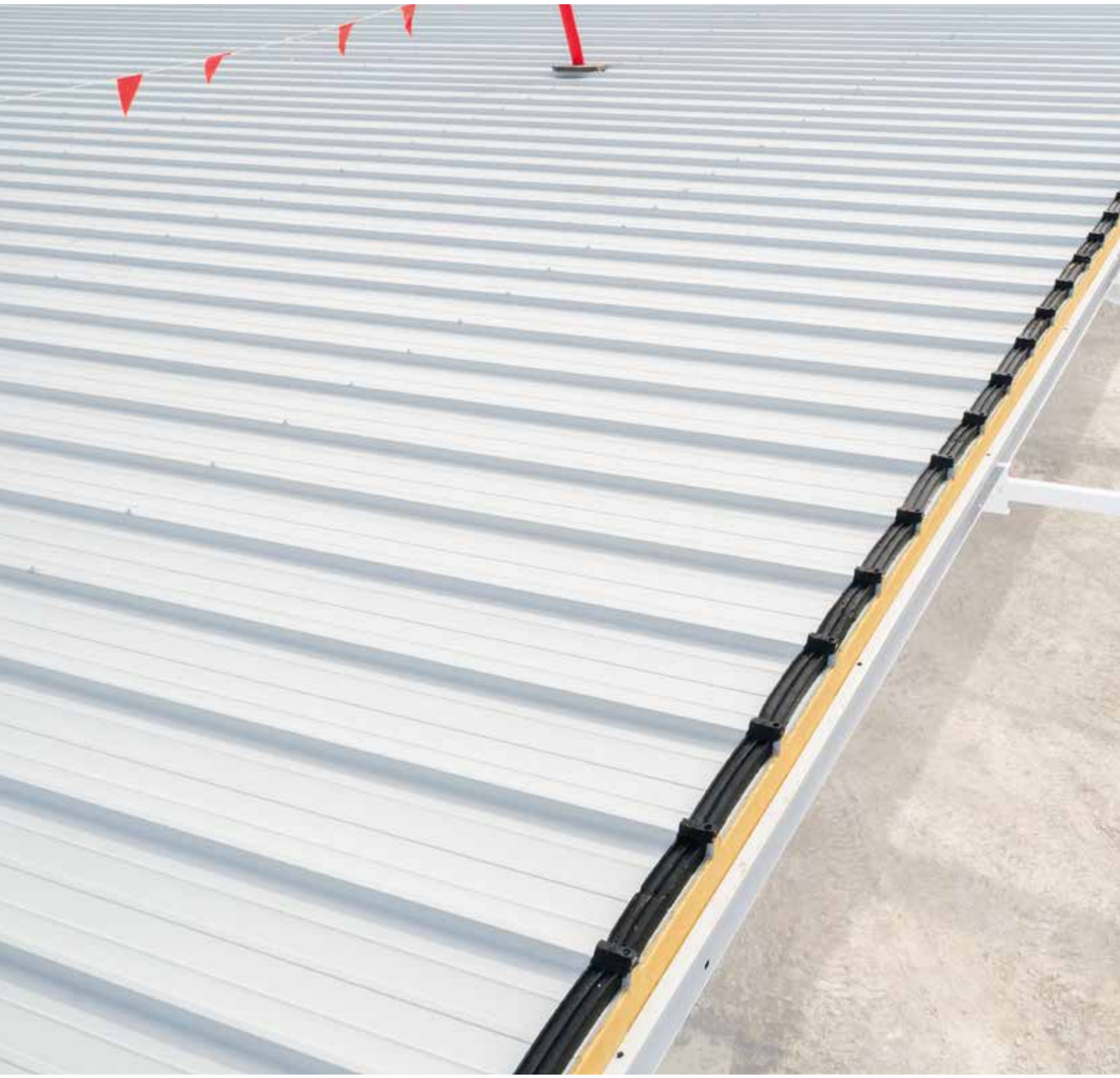
PIR

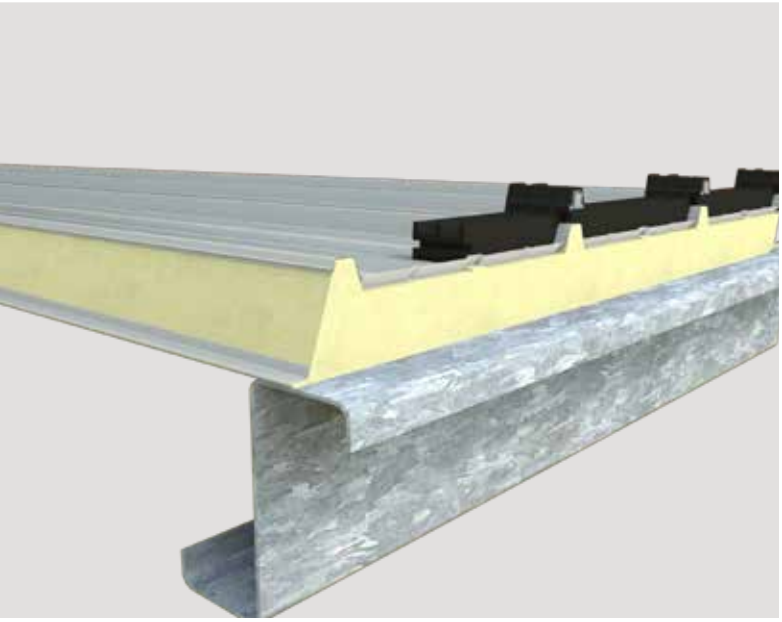
EconoClad® is a high performing and low cost roofing or walling insulated panel suitable for industrial and commercial cladding. EconoClad® has a non-ozone depleting fire-retardant PIR core bonded between a hi-tensile Colorbond® steel roof and a silver/white thermal foil on the ceiling underside. EconoClad® is a fast, economical and practical roof or wall cladding option.

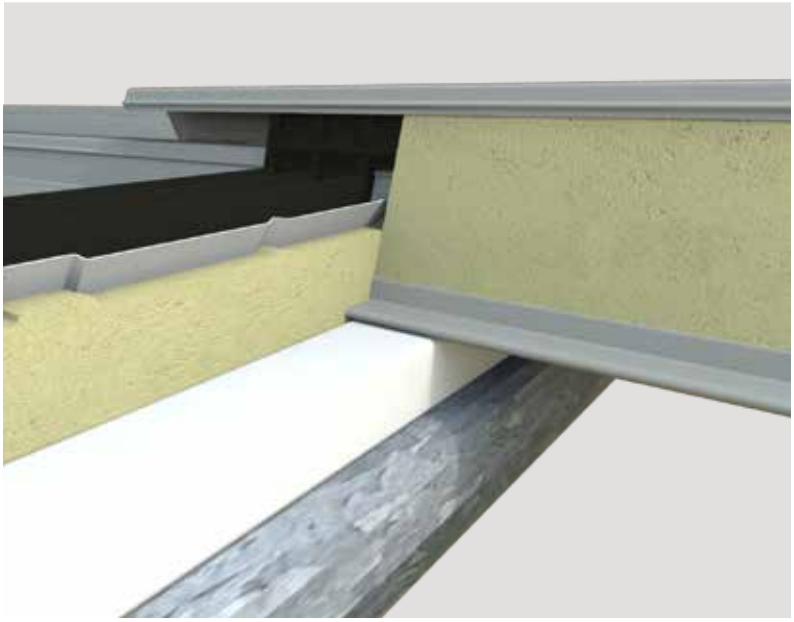
Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1000
Thickness (mm)	25, 40, 60, 80, 100
Pitch	2 degrees minimum (roof)
Length	Up to 16m (check for availability)
External Material	0.42mm G550 Zincalume™ or Colorbond® steel
External Finishes	High-Rib Trapezoidal Cladding Profile
Exterior Colour Options	Surfmist® and Zincalume®. Other colours available subject to minimum order quantities.
Internal Material	Lightweight Thermal Foil
Internal Finishes	Foilback
Interior Colour Options	Bright White, Silver
Paint System	AS 2728 & AS 1397-2011
Environmental	Zero Ozone Depleting Potential (ODP)
Acoustic Properties	Rw 23 depending on thickness
Fire Hazard Properties	AS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

Panel Thickness (mm)	25		40		60		80		100	
Typical Mass (kg/m^2)	5.62		6.26		7.08		7.90		8.72	
Thermal Performance	15°†	23°*	15°†	23°*	15°†	23°*	15°†	23°*	15°†	23°*
'U' Value (W/m^{2}K)	0.62	0.65	0.42	0.44	0.29	0.31	0.23	0.24	0.18	0.19
'R' Value (m^{2}K/W)	1.61	1.55	2.38	2.28	3.40	3.26	4.43	4.25	5.46	5.23

* Thermal performance based on NATA endorsed test report and using ISO 10456 for the calculation of the initial k - values. K value = 0.020355 W/mK at 23 degrees.
† Thermal performance based on NATA endorsed test report and using ISO 10456 for the calculation of the initial k - values. K value = 0.019479 W/mK at 15 degrees.







securelap®

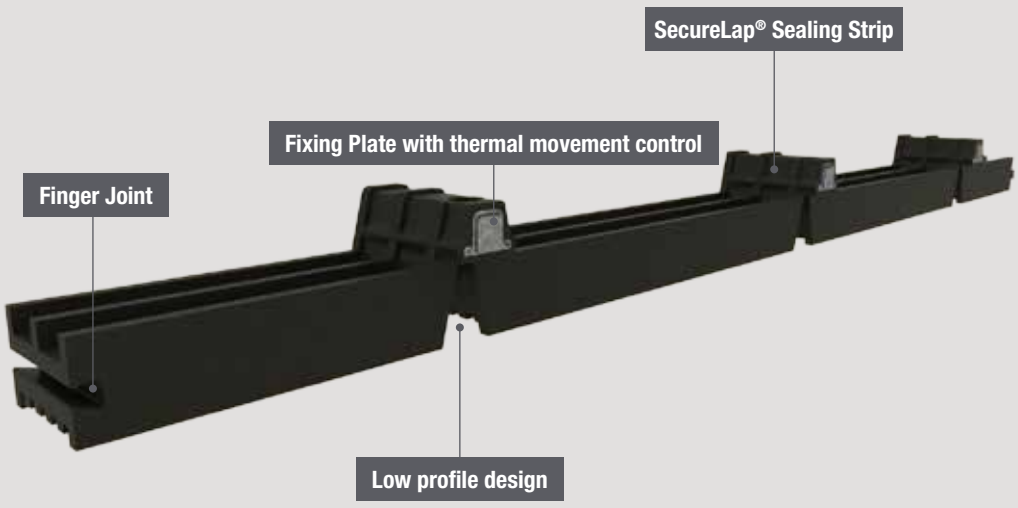
Roof End-Lap Solutions

SecureLap® is a unique roof lap jointing system that changes the way low pitch long run insulated roofing is designed and installed in Australia. SecureLap® provides a solution to existing troublesome “sheet to sheet end-lap” and offers a real alternative to the more expensive “expansion joint” system which requires extra purlins and purlin cleat modifications.

The SecureLap® system is significantly easier to install than current lapping alternatives removing the need for sealant and butyl tape which is both messy and difficult to assure a secure seal. This patented and cutting edge technology is designed to provide the additional water ingress security while preserving the integrity of the existing roof warranty. SecureLap® is the only option for the ultimate in end lap protection.

Advantages

- Unique end-lap system purpose-made for low pitch & long monoslope roofing
- SecureLap® seal removes reliance on sealant or butyl tape
- Allows the turn-up and turn-down of roof pans for added water ingress security
- Designed to allow thermal expansion and contraction to suit Australian conditions
- Low profile design for visual roof continuity and uniform purlin height
- Significantly improves installation time and reduces labour costs
- CSIRO tested and conforms to Australian Standards AS/NZ 4046.9
- BlueScope Steel endorsed warranties



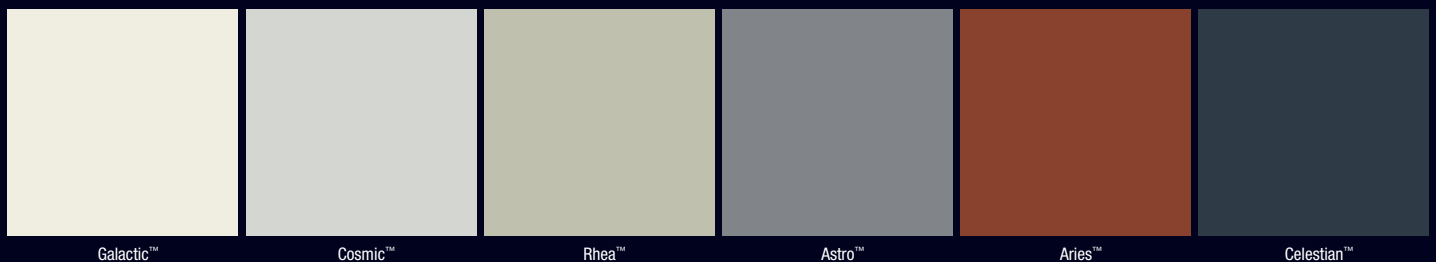
Colorbond® Colour Range

Bondor® has access to the full range of Colorbond® Standard, Metallic & Matt colours as well as custom colour options dependant on order quantities and project time frames. Speak with your local Bondor® branch for availability of stocked, standard Colorbond® and custom colours to suit your project requirements.

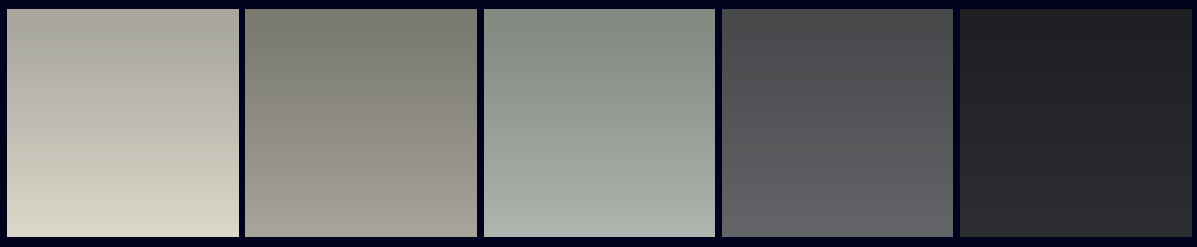
Colorbond®
THE COLOURS OF AUSTRALIA SINCE 1966

Colorbond® Standard

Colorbond® Metallic



Colorbond® Matt



Innovative Accessories & Systems

For over 65 years, Bondor® has led innovation in insulated roofing and walling products delivering a range of purpose-made accessories and building systems that meet not only the application performance needs but the local requirements of both the Australian Standards and National Construction Code (NCC).

The Australian building industry relies on Bondor's local knowledge, experience and continuous innovation within insulated panel products to design compliant building systems that meet the harsh demands of the Australian environment.

Such innovation includes the patented and world-first SecureLap® end lap solution for metal insulated roofing which is designed to provide additional water ingress security while preserving the integrity of the existing roof warranty unlike solutions inherited from overseas which do not consider Australian weather conditions including higher rainfall intensity, wind conditions, UV and thermal exposure.

Preformed Corners

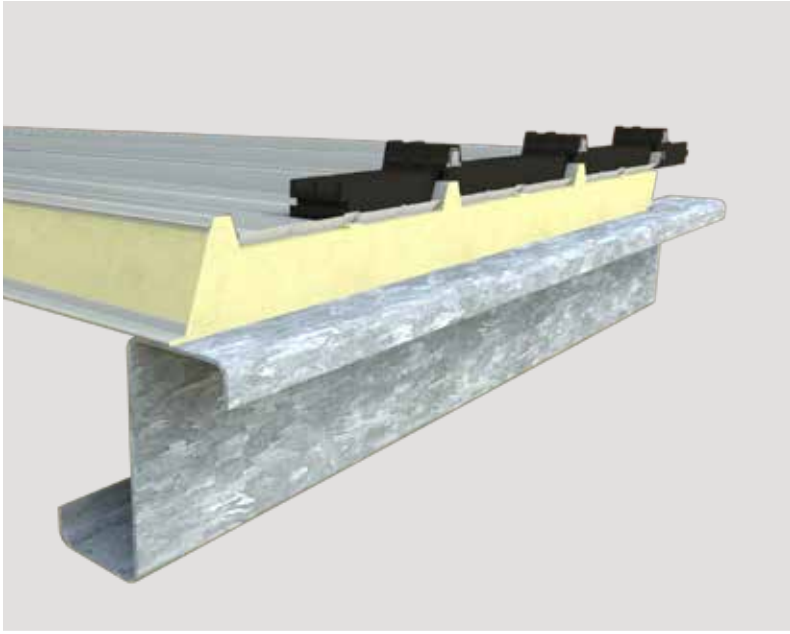
Bondor's national fabrication footprint and capability enables local access to a range of prefabricated insulated wall sections and corners across our range of insulated wall products. Preformed corners offer a high level finish without the need for corner flashings. Your local Bondor® branch can assist with bespoke designs of preformed corners in both vertical and horizontal orientation.

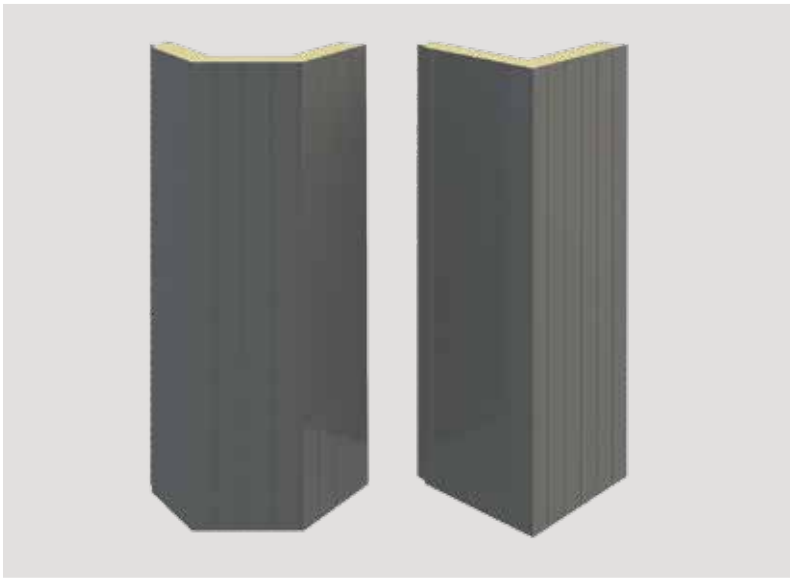
Flashings & Trims

Bondor® has a range of wall and roof accessories for specific product use and applications developed over the last 65 years. Speak to our Bondor® branch regarding a range of flashing details, aluminium trims and capping systems to suit both application performance and aesthetic requirements.

Sun Hoods & Blades

Bondor® can assist with a range of architectural commercial shaded devices and structures including sunhoods and blades used on many commercial buildings. Bondor shaded structures are pre-finished, hard wearing and inherit the thermal and structural benefits of Bondor's insulated panel range.





Leaders in Thermal & Architectural Building Solutions

www.bondor.com.au

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