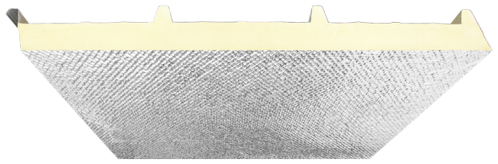
econoclad® PIR

Technical Data Sheet

Version 14
Current as of: 31/05/23



Product Description

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/black, multi-layered foil/fibreglass/PVC flexible facings on the internal side. EconoClad® is a fast, economical and practical roof or wall cladding option.

Panel Properties					
Panel Thickness (mm)	25	40	60	80	100
Typical Mass (kg/m^2)	5.6	6.3	7.1	7.9	8.7
Declared λ (W/m.K) at 23ºC	0.023	0.023	0.023	0.023	0.023
Declared R-value (m^{2}K/W) at 23ºC	1.15	1.85	2.75	3.65	4.55
Total R-value (m^{2}K/W) at 15ºC (Winter)	1.50	2.22	3.17	4.12	5.06
Total R-value (m^{2}K/W) at 30ºC (Summer)	1.98	2.64	3.51	4.38	5.25

Note: The Declared R-value is at 23ºC in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018.

Span Table

NON-CYCLONIC REGION A & B (ROOF APPLICATION ONLY)
PIR Core / 0.42mm Hi-tensile External Steel Skin.
Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Multi-span, wind pressure acting outwards		
Span (mm)	Panel Thickness (mm)	
	25, 40 & 60	80 & 100
600	8.05	8.05
900	5.38	5.38
1200	4.05	4.05
1500	3.25	3.25
1800	-	2.51
2100	-	1.72*
2400	-	1.16*

* For Region B, 1.86kPa and 1.43kPa can be used for 2100mm and 2400mm span respectively.

Recommended Uses

Air conditioned offices, supermarkets, agricultural buildings, industrial buildings, warehouses, commercial buildings, domestic re-roofing.

CodeMark Australia | CMI Certification Certificate CM40234

BAL40

FM Approved

Colorbond® Made for Australia

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1000
Thickness (mm)	25, 40, 60, 80, 100
Length	Up to 16m (check for availability)
External Material	0.42mm COLORBOND® steel
External Finishes	High-Rib Trapezoidal Cladding Profile
Exterior Colour Options	Surfmist®. Other colours available subject to minimum order quantities.
Internal Material	Lightweight Thermal Foil, Fibreglass, PVC[c]
Internal Finishes	Foilback, Embossed PVC[c]
Interior Colour Options	Bright White, Silver, Black
Pitch	2 degree minimum
Paint System	AS/NZS 2728 & AS 1397
Acoustic Properties	Rw 23
Material Group Numbers	Group 2[a]
Bushfire Attack Level	BAL-40 (All exposed core to be covered with flashing)
FM Approval	4880[b]
Environmental	Zero Ozone Depleting Potential (ODP)
Fire Hazard Properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

a. AS 5637.1 / AS ISO 9705 - BCA Group Number
EconoClad® PIR steel skinned insulated building panels conform to the requirements of the BCA Specification as Group 2.
b. When used as internal wall and ceiling, EconoClad® can achieve FM Approval. Refer to your local Metecno® branch for details.
c. For Fire Hazard Properties of EconoClad® with PVC internal facing, contact Metecno®.

The technical information contained in this document cover a breadth of applications where EconoClad® may be used, which may be outside the scope of our Codemark certificate. Data specific to CodeMark certification can be found on EconoClad®'s CoC CM40234.

NOTES:
1. Extended span tables including cyclonic regions C&D and wind pressure acting inwards are also available. Refer Metecno®.
2. Fixing with min. 14g tek screws (or equivalent) at each rib are required. Values only valid for use with steel members of bmt 1.5mm or thicker. For thinner steel substrates, fastener capacities must be checked.
3. Pressures specified are for wind gusts only per AS/NZS 1170.2.
4. Deflection limit of span/120 applies, and in accordance with Serviceability Limit State criteria per AS1562.1 - Cl 5.5.
5. Self weight of the panel has been allowed for, plus an allowance of up to 10kg/m^2 for light duty fittings (lights, etc.). No other dead loads permitted.
6. Non-trafficable maintenance access (concentrated load) of 110kg on any one panel has been allowed for.
7. Distributed live load of 0.25kPa (as per AS/NZS 1170.1) has been allowed for. Metecno® 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.
8. Min. roof slope of 2 degree applies.

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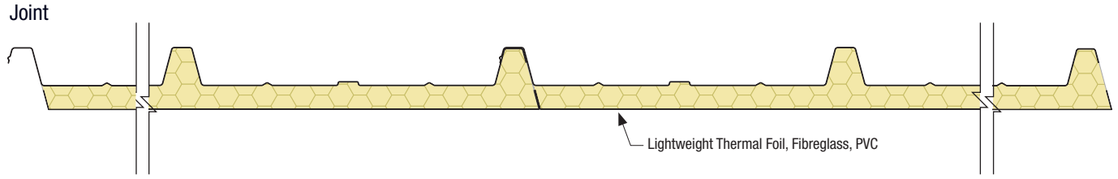
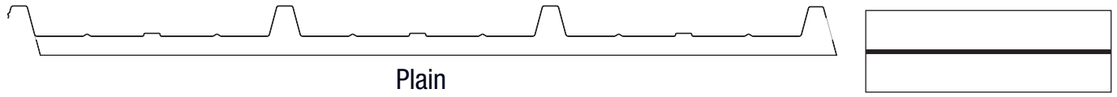
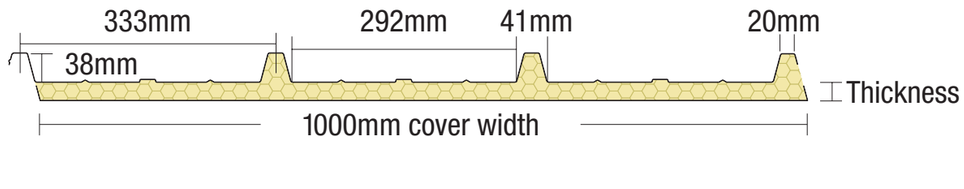
Joint



Profiles



Dimensions



MetecnoPIR Manufacturing Sites

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T: 07 3323 9900

MetecnoPIR – VIC
9-27 Amcor Way
Campbellfield VIC 3061
T: 03 9250 3300

To connect to your nearest MetecnoPIR branch simply call 1300 747 726 or visit www.metecnopir.com.au

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