

Certificate number: CM40234

Certification Body:


 ABN: 80 111 217 568
 JAS-ANZ Accreditation
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Certificate Holder:

Metecno Pty Ltd
 T/A MetecnoPIR,
 Bondor®
 ABN: 44 096 402 934
 121 Ingram Road,
 Acacia Ridge Qld 4110
 Ph: +61 7 3323 8555
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THIS TO CERTIFY THAT

EconoClad®

Description of product:

EconoClad is an insulated roofing panel consisting of

- External face - BlueScope Steel G550
- Core material - PIR fire retardant Polyisocyanurate
- Internal face - Lightweight Thermal Foil, fibreglass or PVC

Refer A3 for further information.

Type and/or use of product:

Insulated roofing or walling panel.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2016

	Volume One (Amdt. 1)	Volume Two
Performance Requirement(s)	BP1.1(a)&(b)(i),(ii),(iii), (vii),(xi) & (xii) Structural reliability	P2.1.1(a)&(b)(i),(ii),(iii), (vii),(xi), (xii) & (c) Structural stability and resistance to actions
		P2.2.2 Damp and Weatherproofing.
		P2.3.4 Bushfire Areas (BAL-40).
Deemed-to-Satisfy Provision(s):	Spec C1.10(4)(b) Fire Hazard Properties— Group Number 2.	1.2.4 Fire Hazard Properties— Group Number 2.
	J1.3 Energy Efficiency – Roof and ceiling construction. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3.	3.12.1.2 Energy Efficiency – Roofs. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3.
	J1.5 Energy Efficiency – Wall construction. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3.	3.12.1.4 Energy Efficiency – External Walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3.
	F1.5 Damp and Weatherproofing - Roof coverings.	3.12.1.6 Energy Efficiency – Attached Class 10a buildings. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3.
State or territory variation(s):	Not Applicable	P2.3.4 (TAS)


John Thorpe - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 12/09/2018

Date of expiry: 12/09/2021



Certificate of Conformity

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. EconoClad[®] is to be installed in accordance with [BON0126 Bondor Tech Data Sheets - EconoClad v6](#) and [BON0535 Drawing Pack - EconoClad v1](#).
2. The panels will be limited by wind load depending on the span certified for the product type, thickness, core density and fixing configuration as per the product's certified span tables.
3. EconoClad[®] is suitable for use as the roofing or walling panel on buildings to be constructed in designated bushfire prone areas that require a BAL-40 or less, when installed in accordance with the EconoClad[®] Technical Drawings (v1 – Dated 18/04/2018) and all exposed core material is encapsulated with a non-combustible covering.
4. The waterproofing systems for all panels is dependent on construction and installation in accordance with manufacturers recommendations to enable adequate flashing and sealing to the building.
5. Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.
6. This Certificate is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate is outside of this document's scope and the installation of the certified product/system will not be covered by this CodeMark certification. This may result in the product being classified as a non-conforming building product/system.

Building classification/s:

1,2,3,4,5,6,7,8,9 & 10

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page one.

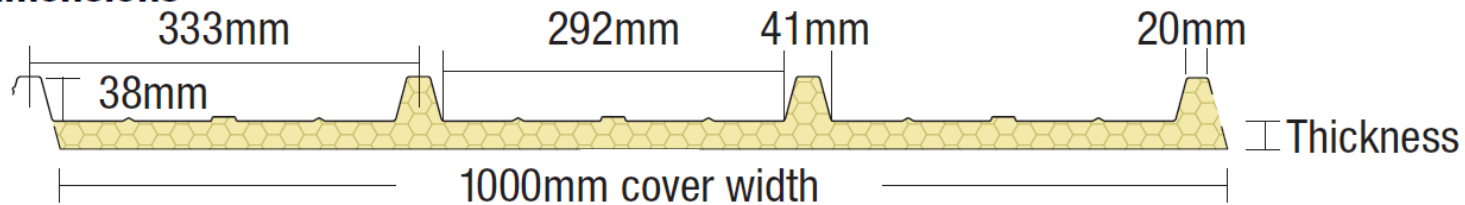
A2 Description of product

EconoClad[®] is an insulated roofing or walling panel that features a high-rib trapezoidal cladding profile and Lightweight Thermal Foil, Fibreglass, PVC encasing a core of PIR (Fire-retardant Polyisocyanurate).

A3 Product specification

Panel Properties

Dimensions



Source: Certificate Holder

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 G550 Zinalume [™] or Colorbond [®] steel
External Finishes	High-Rib Trapezoidal Cladding Profile
Exterior Colour Options	Various



Certificate of Conformity

Internal Material	Lightweight Thermal Foil, Fibreglass, PVC					
Internal Finishes	Foilback, Embossed PVC					
Paint System	AS/NZS 2728:2013 & AS 1397-2011					
Pitch	2 degree minimum					
Bushfire Attack Level	BAL- 40					
Fire Hazard Properties	AS/NZS 1530.3-1999 Indices					
	Ignitability Index	0				
	Spread of Flame Index	0				
	Heat Evolved Index	0				
	Smoke Index	1				
Thermal & Energy Efficiency	Panel Thickness (mm)	25	40	60	80	100
	Typical Mass (kg/m ²)	5.6	6.3	7.1	7.9	8.7
	Total R-value (m ² K/W)	1.6	2.4	3.5	4.5	5.6

Note: The above Total R-values are for insulation average temperature of 15°C. Contact the Certificate Holder for other temperatures.

A4 Manufacturer and manufacturing plant(s)

Metecno Pty Ltd
111 Ingram Road
Acacia Ridge QLD 4110
T: +617 3323 8555

A5 Installation requirements

EconoClad[®] is to be installed in accordance [with BON0126 Bondor Tech Data Sheets - EconoClad v6](#) and [BON0535 Drawing Pack - EconoClad v1](#).

A6 Other relevant technical data

Acoustic Properties – R_w 23.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Bushfire Protection A2.2(a)(iv) and 1.2.2 (a)(iii). Reports from appropriately qualified person.
2. Fire Hazard Properties A2.2 (a)(iv)(v) and 1.2.2 (a)(i)(iii) Reports from an Accredited Testing Laboratory and reports from a professional engineer.
3. Structural Provision A2.2(a)(v) and 1.2.2 (a)(iv). Reports from professional engineer.
4. Thermal Performance A2.2 (a)(v) and 2.3.3 (a)(vi). Reports from professional engineer.
5. Weatherproofing Performance A2.2(a)(v) and 1.2.2 (a)(iv). Reports from professional engineer.

B2 Reports

1. AWTA Textile Testing; NATA Accreditation No. 1356; Report No. 7-599058-CQ; Fire Indices Testing in accordance with AS/NZS 1530.3-1999; Dated 22/07/2011.
2. Bligh Tanner; Report No. 2017.0493; Certification of EconoClad Span Tables and compliance with F1.5 of NCC Vol1 and P2.2.2 of NCC Vol 2; Dated 03/07/2018.
3. CSIRO; Report number HHI 3131; Assessment of EconoClad roofing panel end-lap assembly tested to AS4046.9-2002; Dated 30/11/2017
4. Exova Warringtonfire; NATA Accreditation No. 3277; Fire Test in accordance with AS ISO 9708-2003 and AS 5637.1:2015 to determine group number; Dated 29/11/2016.
5. Hendry Group Pty Ltd; Report No. BAL-AS-3959; Assessment of Bondor® wall panels in bushfire prone areas up to BAL-40; Dated 09/11/2017.
6. Ignis Solutions; Evaluation No. IGNS-6180-02 I01R00; Product Evaluation – EconoClad Group Number evaluation; Dated 24/05/2018.
7. James M Fricker; Report No. 265c; Thermal performance calculations; Dated 13/02/2018.
8. R & D Engineering; Report No. RD18212-R1; Evaluation of thermal calculation performed by James M Fricker Pty Ltd; Dated 23/03/2018.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.