

Certificate number: CM40196

**Certification Body:**



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**Certificate Holder:**

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**THIS IS TO CERTIFY THAT**

**MetecnoPanel®**

**Type and/or use of product:**

Insulated wall & ceiling panel.

**Description of product:**

MetecnoPanel® is an insulated wall and ceiling panel comprising of a Polyisocyanurate (PIR) core and COLORBOND® steel skins. Refer A2 for further information.

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

**BCA 2022**

	Volume One	Volume Two
<b>Performance Requirement(s):</b>	B1P1(1),(2)(a),(b), (c) Structural reliability	H1P1(1),(2)(a),(b) & (c) Structural stability and resistance to actions
	C1P2 Contributes to the protection from the spread of fire – Limited to the external wall – Subject to <i>limitation and condition 3</i> .	
<b>Deemed-to-Satisfy Provision(s):</b>	C2D2(2) Fire-resistance of building elements – FRL -/30/30 limited to 200mm thick panel	H2D6(4) Weatherproofing – Roof and wall cladding
	C2D11(1)(b) Fire Hazard Properties—Walls and ceiling linings and other materials	H3D3 Protection from the spread of fire – FRL -/30/30 limited to 200mm thick panel
	F3D5(1)(c) Weatherproofing – Wall cladding	H6D2(1)(b)(i) Energy Efficiency – Contributes to the overall energy efficiency of the building - Refer A3
	G5D3 Construction in bushfire prone areas - Protection – BAL FZ External walls limited to 200mm thick panel subject to <i>limitation and condition 10</i> .	H7D4 Bushfire areas – BAL FZ External walls limited to 200mm thick panel subject to <i>limitation and condition 10</i> .
	J4D6 Energy Efficiency – Walls – Contributes to the overall energy efficiency of the building - Refer A3	
<b>State or territory variation(s):</b>	G5D3 (NSW)	H7D4 (NSW, Qld, SA)

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



Richard Donarski – CMI



Don Grehan – Unrestricted Building Certifier

**Date of issue:** 01/03/2024

**Date of expiry:** 01/03/2027



# Certificate of Conformity

## Limitations and conditions:

1. This product has not been tested to AS 1530.1-1994 (R2016) and cannot be considered a non-combustible product.
2. BCA requires certain external walls, common walls or internal load bearing walls and/or ancillary elements of some Class 2 to 9 buildings to be non-combustible. In the absence of site-specific performance solution, this product or system is not suitable for use in these applications where a non-combustible product is required.
3. Contribution to satisfying C1P2 is limited to the external wall; classified EW, tested to AS 5113:2016 as appropriate for non-loadbearing external cladding systems fixed to and supported by a structural steel frame.
4. The wall panels will be limited by wind load shown in the manufacturer's specifications on the span certified for the product type, thickness and fixing configuration as per the product's certified span tables referenced in A3 of this Certificate of Conformity.
5. Installation requirements are outside the scope of this certificate and subject to project specific engineering advice. The minimum fixing requirements are outlined in the Span Tables referenced in A3 of this Certificate of Conformity.
6. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
7. In the absence of site-specific performance solution, this product is not suitable for use as an external roofing panel.
8. In all installations the minimum clearance between the underside of panel and the adjoining ground surface level below must comply with the specifications in Part 7.5.7 of ABCB Housing Provisions.
9. The Group numbers have been determined in accordance with testing conducted to AS ISO 9705 and assessment against AS5637.1: 2015 as either Group 2 or Group 1 depending on the thickness and construction detail, refer A3.
10. When used as internal wall and ceiling linings, this product as a Group 1 or Group 2 fire rated product, must comply with the group number specified in Table S7C4 of Specification 7 of the BCA Volume 1, 2022. Refer A3.
11. For compliance with G5D3 and H7D4 the building must have a minimum setback distance of 10m from the edge of classified vegetation as prescribed by Section 9.1 of AS 3959:2018.
12. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the scope of this certification.
13. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

## Building classification/s:

Class 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](http://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.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity.

**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.



# Certificate of Conformity

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CMI Certification Pty Ltd (CMI) has relied on the experience and expertise of external bodies (laboratories and technical experts).

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.

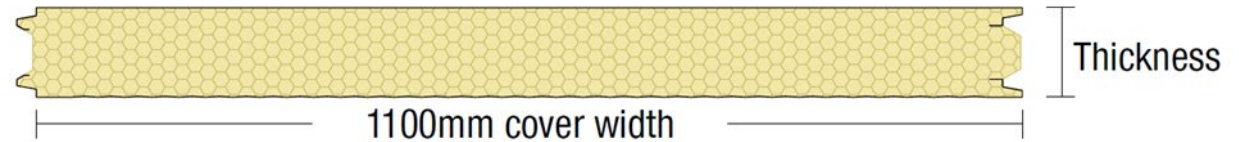
## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

As per page 1.

### A2 Description of product

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1100
Thickness	50, 75, 100, 125, 150 & 200
Length	Up to 16m (check for availability)
External Material	BlueScope® Steel 0.5mm, 0.6mm G300
Internal Material	BlueScope® Steel 0.5mm, 0.6mm G300



Source: Certificate Holder

### A3 Product specification

**Structure** In order to maintain compliance with structure, the following Span Tables must be referred to which have been certified by a licensed Professional Engineer in accordance with AS/NZS 1170.0, AS/NZS 1170.1, AS/NZS 1170.2, AS 4055 & AS 4040.1.

Document Name	Version
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION A &amp; B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) PIR Core 0.6mm steel skins</a>	4
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION C &amp; D – CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) PIR Core 0.6mm steel skins</a>	2
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION A &amp; B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS WITH SINGLE MUSHROOM FIXING) PIR Core 0.6mm steel skins</a>	2
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION A &amp; B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) PIR Core 0.5mm steel skins</a>	4
<a href="#">METECNOPANEL® SPAN TABLES (INTERNAL WALL, CEILING &amp; COLD STORAGE APPLICATIONS) PIR Core 0.5mm steel skins</a>	6
<a href="#">METECNOPANEL® SPAN TABLES (INTERNAL WALL, CEILING &amp; COLD STORAGE APPLICATIONS) PIR Core 0.6mm steel skins</a>	8
<a href="#">METECNOPANEL® 0.6mm Steel Skins Wall Span Table for Housing Application – Non-Cyclonic</a>	2
<a href="#">METECNOPANEL® 0.6mm Steel Skins Wall Span Table for Housing Application - Cyclonic</a>	1
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION A– NON-CYCLONIC (EXTERNAL ROOF APPLICATIONS ONLY) PIR Core 0.6mm steel skins</a>	2
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION B– NON-CYCLONIC (EXTERNAL ROOF APPLICATIONS ONLY) PIR Core 0.6mm steel skins</a>	2
<a href="#">METECNOPANEL® SPAN TABLES FOR WIND REGION A&amp;B– NON-CYCLONIC (EXTERNAL ROOF APPLICATIONS ONLY) PIR Core 0.5mm steel skins</a>	2

Source: Bligh Tanner Pty Ltd; Reference Number: 2017.0493; Dated 06/03/2023.

**EW Classification** When tested in accordance with AS 5113:2016 as appropriate for non-loadbearing external cladding systems fixed to and supported by a structural steel frame the 100mm Panel achieved the Classification of EW.

Source: EXOVA Warringtonfire Australia Pty Ltd, reference no. SFC50791800.1 – Testing to AS 5113:2016 dated 21/11/2017

## Fire Resistance Levels

Fire resistance testing of a non-loadbearing MetecnoPanel® wall systems comprising of 200mm thick panels achieved the following results:

Criteria	Result
Structural adequacy	Not applicable
Integrity	No failure at 40 minutes
Insulation	40 minutes
<b>FRL</b>	<b>-/30/30</b>

*Source: EWFA Report No. 47868300.1 – Testing to AS 1530.4-2014 dated 05/04/2017*

## Material Group Numbers

Group Numbers have been determined in accordance with testing conducted to AS ISO 9705:2003 (R2016) and assessment against AS 5637.1:2015.

### Group 1 – Panel thickness up to 100mm

- Wall to Floor intersection: minimum of 0.6mm steel or aluminium 40 x 40mm internal and external angles, with Soudaseal FR or Gorilla Firecryl Acrylic Sealant to internal angles, Soudaseal FR or Gorilla Firecryl Acrylic Sealant or vapour seal mastic sealant to external angles, fixed with steel rivets or screws at maximum 300mm centres.
- Wall to Wall and Wall to Ceiling intersections: minimum of 0.6mm steel 40 x 40mm internal angles with Soudaseal FR or Gorilla Firecryl Acrylic Sealant, and 0.5mm steel or aluminium external angles with optional silicone or mastic sealant, fixed with steel rivets or screws at maximum 300mm centres.

**Smoke Growth Rate Index (SMOGR<sub>RC</sub>) 3.7 m<sup>2</sup>/s<sup>2</sup> x 1000.**

*Source: BRANZ Report No. FC14196-01-4 dated 06/04/2023.*

### Group 2 – Panel thickness up to 200mm

- Wall to Floor intersection: minimum of 0.5mm steel or 1.5mm aluminium 40 x 40 mm internal and external angles, no sealant required, fixed with rivets at maximum 300mm centres.
- Wall to Wall and Wall to Ceiling intersections: minimum of 0.5mm steel or 1.5mm aluminium 65 x 40 mm external angles, no sealant required; minimum of 0.5mm steel or 1.5mm aluminium 40 x 40 mm internal angles, no sealant required; fixed with rivets at maximum 300mm centres.

**Smoke Growth Rate Index (SMOGR<sub>RC</sub>) 45.4-47 m<sup>2</sup>/s<sup>2</sup> x 1000.**

*Source: Ignis Labs Pty Ltd; Report No. IGNL-7072-99-01R I01 R02; Product Evaluation dated 23/05/2023.*

Thermal & Energy Efficiency	MetecnoPanel® PIR core				Wall Total R-value (m <sup>2</sup> K/W) at		
	Thickness (mm)	$\lambda_{\text{declared at 23°C (W/m.K)}}$	$R_{\text{declared at 15°C (m}^2\text{K/W)}}$	$R_{\text{declared at 23°C (m}^2\text{K/W)}}$	6°C	15°C	30°C
	50	0.023	2.30	2.20	2.61	2.49	2.31
	75	0.023	3.45	3.30	3.84	3.66	3.38
	100	0.023	4.65	4.45	5.06	4.83	4.46
	125	0.023	5.80	5.55	6.29	5.99	5.53
	150	0.023	6.95	6.65	7.51	7.16	6.60
	200	0.023	9.30	8.90	9.96	9.49	8.75

**Notes:**

- Declared R-values are Product R-values and exclude air film resistances.
- Total R-values include default air film resistances for the applications.
- The results are compliant with AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.
- The requirements of J3D6(1) of Volume 1 of the BCA and Part 13.2.5 (5) of the ABCB Housing Provisions do not apply to walls constructed using insulated sandwich panels.

*Source: James M Fricker Pty Ltd, Report No. i265e dated 15/12/2020 modified 03/09/2023.*

**A4 Manufacturer and manufacturing plant(s)**

This field is optional. Contact the Certificate Holder for details.

**A5 Installation requirements**

Installation and configuration of FRL Systems comprising of 200mm panels only referenced in the FRL tables in A3 of the Certificate of Conformity, must in accordance with the requirements outlined in following Exova Warringtonfire Reports:

FRL -/30/30      EWFA Report No. 47868300.1 dated 20/09/2017.

The minimum fixing requirements are outlined in the Span Tables referenced in A3 of this Certificate of Conformity.

**A6 Other relevant technical data**

**Acoustic Properties**      50mm **MetecnoPanel®** achieved  $R_w$  25, C -1 &  $C_{tr}$  -3.  
 100mm **MetecnoPanel®** achieved  $R_w$  25, C -1 &  $C_{tr}$  -3.  
 200mm **MetecnoPanel®** achieved  $R_w$  27, C -2 &  $C_{tr}$  -4.

*Source: CSIRO Report No. TL484 dated March 2008.*

**APPENDIX B – EVALUATION STATEMENTS**

## B1 Evaluation methods

1. Fire Safety Provisions – A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
2. Structural Provisions – A5G3(1)(e). Reports from a professional engineer.
3. Thermal Provisions – A5G3(1)(e). Reports from a professional engineer.
4. Weatherproofing Provisions – A5G3(1)(e). Reports a professional engineer.

## B2 Reports

1. Bligh Tanner Pty Ltd; Reference No. 2017.0493; Certification of MetecnoPanel® Panel Span Tables in accordance with AS/NZS 1170.0, AS/NZS 1170.1, AS/NZS 1170.2, AS 4055 & AS 4040.1; Dated 06/03/2023. Report confirms compliance with B1P1(1),(2)(a),(b),(c), H1P1(1),(2)(a),(b),(c)&(3), H2D6(4) & F3D5(1)(c).
2. BRANZ; Reference No. FC14196-01-4; Group number classification of MetecnoPanel®, MetecnoInspire® and MetecnoSpan® with thicknesses in a range of 40 mm to 100 mm inclusive in accordance with Australia NCC 2019 Specification C1.10 Clause 4 and NCC 2022 Specification S7C4; Dated 06/04/2023. Report provide evidence for compliance with C2D11(1)(b).
3. EXOVA Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Certificate No. SFC50791800.1; Testing to AS 5113:2016; Dated 21/11/2017. Report supports compliance with C1P2.
4. EXOVA Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Report No. 47868300.1; Testing in accordance with AS 1530.4-2014; Dated 05/04/2017. Report outlines FRLs achieved for LuxeWall® Flameguard® as required by C2D2(2) and H3D3 and where FRLs are required for compliance with bushfire claims of G5D3 & H7D4.
5. Ignis Labs Pty Ltd; Report No. IGNL-7072-99-01R I01 R02; Product Evaluation – Bondor PIR MetecnoInspire, MetecnoPanel and MetecnoSpan; Dated 23/05/2023. Report provide evidence for compliance with C2D11(1)(b).
6. James M Fricker; Report No. i265e; Declared R (thermally bridged) thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 15/12/2020 modified 03/09/2023. Report provides thermal performance values in accordance with the requirements of J4D4, J4D6 and H6D2(1)(b)(i).

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