

Certification Body:


 ABN: 80 111 217 568
 JAS-ANZ Accreditation
 No. Z4450210AK
 PO Box 7144, Sippy
 Downs Qld 4556
 +61 (07) 5445 2199
www.CertMark.org

Certificate Holder:

Metecno Pty Ltd
 T/A Metecno,
 Bondor®
 ABN: 44 096 402 934
 121 Ingram Road,
 Acacia Ridge Qld 4110
 Ph: +61 7 3323 8555
www.bondor.com.au

THIS IS TO CERTIFY THAT

MetecnoInspire®

Type and/or use of product:

Insulated wall and ceiling panel.

Description of product:

MetecnoInspire® is an insulated architectural wall panel consisting of:

- External face - BlueScope® Steel G300
- Core material - PIR - Fire-retardant Polyisocyanurate
- Internal face - BlueScope® Steel G300

Refer A2 for further information.

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

BCA 2019

	Volume One	Volume Two
Performance Requirement(s):	BP1.1(a), (b)(i), (ii)&(iii) Structural Reliability	P2.1.1(a), (b)(i), (ii)&(iii) Structural stability and resistance to actions
	CP2 Protection from the spread of fire – Contributes to the protection from the spread of fire – See limitations and conditions	P2.2.2 Weatherproofing for external walls
	FP1.4 Weatherproofing	
Deemed-to-Satisfy Provision(s):	C1.10(a)(ii) &(ix) Fire Hazard Properties – Ceiling & Other Insulative Material other than sarking - Refer A3	3.12.1.4(a)(i) Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building. Refer A3
	J1.5 Energy Efficiency – Walls - Contributes to the overall energy efficiency of the building. Refer A3	3.12.1.6(a)(b) Energy Efficiency –Attached Class 10a Buildings - Contributes to the overall energy efficiency of the building. Refer A3
State or territory variation(s):	Not Applicable	Part 3.12 (NSW, NT, Qld, Tas, ACT), 3.12.1.6 (SA)

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

Limitations and conditions:

Building classification/s:

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


John Thorpe - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 29/01/2020

Date of expiry: 16/05/2021



Certificate of Conformity

1. Contribution to satisfying CP2 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. Limited to the 100mm panel with a 6mm cement sheet on the unexposed side. Limited to 10kW/m² - Refer A3.
2. The MetecnoInspire, as a group 2 material (refer A3), is not suitable for use as a wall and ceiling lining in;
 - a. Fire-isolated exits and fire control rooms in Class 2 buildings (excluding accommodation for the aged, people with disabilities, and children)
 - b. Fire-isolated exits and fire control rooms in Class 3, 5, 6, 7, 8, 9a, 9b and 9c buildings
 - c. Public Corridors in Class 3, 9a and 9b (other than schools) buildings not fitted with a sprinkler system complying with Specification E1.5 of the 2019 BCA Vol 1.
3. In the absence of a site-specific performance solution, this product or system is not suitable for use in or on Class 2 to 9 buildings where BCA requires external walls, common walls or internal loadbearing walls and/or ancillary elements to be non-combustible.
4. This product has not been tested to AS 1530.1-1994 and cannot be considered a non-combustible product.
5. Installation requirements are outside the scope of this certificate and subject to project specific engineering advice. The Certificate Holder has made available the [BON0535 Drawing Pack - MetecnoInspire v2](#) for reference.
6. The metal wall 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.
7. The Thermal R values of the MetecnoInspire varies with panel thickness; refer to A3 for specific values.
8. The MetecnoInspire is not suitable for use as an external roofing panel.
9. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
10. 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.

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.

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. This may result in the product being classified as a non-conforming building product.

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.

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, CertMark International 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, 80 & 100
Length	Up to 16m
External Material	BlueScope® Colorbond® Steel 0.5, 0.6mm G300
Internal Material	BlueScope® Colorbond® Steel 0.5, 0.6mm G300

Dimensions



Source: Certificate Holder

A3 Product specification

CP2

AS 5113:2016 assessment

'The Metecno panels have been tested to 10kW/m². This exposure corresponds to a distance of 6m under the Building to Building assessment and CV1 and CV2 of the BCA'. The above advice has been extrapolated to include MetecnoInspire.

Source: Irwinconsult Pty Ltd, dated 26/03/2018.

Structure

AS 1170.0:2002
AS 1170.1:2002
AS 1170.2:2011

In order to maintain compliance with structure, the following Span Tables must be referred to which have been certified by a licensed Professional Engineer.

Document Name	Version
METECNOINSPIRE® SPAN TABLES FOR WIND REGION A & B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) PIR Core 0.6/0.5mm steel skins – Screw	2
METECNOINSPIRE® SPAN TABLES FOR WIND REGION A & B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) PIR Core 0.6/0.5mm steel skins – Mushroom	2
METECNOINSPIRE® SPAN TABLES FOR WIND REGION A & B (CEILING APPLICATIONS) PIR Core 0.6/0.5mm steel skins – Screw	2
METECNOINSPIRE® SPAN TABLES FOR WIND REGION A & B (CEILING APPLICATIONS) PIR Core 0.6/0.5mm steel skins – Mushroom	2
METECNOINSPIRE® SPAN TABLES FOR WIND REGION A, B, C & D (EXTERNAL WALL APPLICATIONS ONLY) PIR Core 0.6/0.5mm steel skins – Screw	1

Material Group Numbers

AS/ISO 9705:1993

Group 2

Panel up to 200mm thick with steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at maximum 300mm centres is classified as Group 2.

Smoke Growth Rate Index (SMOGR_{RC}) is less than 100.

Group 2

Panel up to 200mm thick with aluminium 'wall-wall' and 'wall-ceiling' angles fixed with aluminium rivets or screws at 300mm centres is classified as Group 2.
Smoke Growth Rate Index (SMOGR_{RC}) is less than 100.

Fire Hazard Properties AS/NZS 1530.3:1999

The following results relate to 100mm PIR core panel with 0.6 mm steel skins

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

Thermal & Energy Efficiency AS/NZS 4859.1:2002

Panel Thermal Resistances			
Panel Insulation R (m. ² K/W)			
Panel Thickness (mm)	50	80	100
Insulation R @ 6° C	2.7	4.4	5.5
Insulation R @ 15° C	2.6	4.1	5.2
Insulation R @ 23° C	2.5	3.9	4.9
Insulation R @ 30° C	2.3	3.8	4.7
Total R for application as a wall panel (m. ² K/W)			
Thickness	50	80	100
Insulation R @ 6° C	2.9	4.5	5.6
Insulation R @ 15° C	2.7	4.3	5.3
Insulation R @ 23° C	2.6	4.1	5.1
Insulation R @ 30° C	2.5	3.9	4.8

A4 Manufacturer and manufacturing plant(s)

Metecno Pty Ltd.
111 Ingram Road,
Acacia Ridge, Queensland 4110.

A5 Installation requirements

Installation requirements are outside the scope of this certificate and subject to project specific engineering advice. The Certificate Holder has made available the [BON0535 Drawing Pack - MetecnoInspire v2](#) for reference.

A6 Other relevant technical data

Acoustic Properties

R_w 26 depending on thickness. Contact Certificate Holder for more information.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provisions – A5.2(1)(e). Reports from a professional engineer.
2. Fire Safety Provisions – A5.2(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Thermal Provisions – A5.2(1)(e). Reports from a professional engineer.
4. Weatherproofing Provisions – A5.2(1)(d). Reports from Accredited Testing Laboratories.

B2 Reports

1. AWTA; NATA Accreditation No.983; Report No. 7-539731-CQ; PIR Panel Fire Indices Test; Dated 22/09/2005.
2. Bligh Tanner; Reference No. 2017.0493; Assessment of MetecnoInspire[®] Span Tables; Dated 27/02/2018.
3. CSIRO; NATA Accreditation No. 165; Certificate of Assessment No. 1064; Group 2 PIR Alum Fixings; Dated 05/05/2008.
4. CSIRO; NATA Accreditation No. 165; Certificate of Assessment No. 1065; Group 2 PIR Steel Fixings; Dated 05/05/2008.
5. Ian Bennie And Associates; Accreditation No. 2371; Report No.2019-020-S5; NCC-2019 Verification Methods FV1 & V2.2.1 in accordance with AS/NZS 4284:2008; Dated 10/09/2019.
6. Ignis Solutions; Product Evaluation IGNS-5396 I02 R00; MetecnoInspire PIR Steel Clad Sandwich Panels compliance to AS 5367.1:2015; Dated 07/05/2019.
7. Irwinconsult Pty Ltd; Report No. 18ME0160; Fire Engineering Report on CV3 Fire Compliance; Dated 26/03/2018.
8. James M Fricker Pty Ltd; Report i265c; Calculation 265w04; Calculations in accordance with AS/NZS 4859.1:2002/Amdt 1; Dated 13/02/2018.

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