



Certificate of Conformity

Certificate number: CM40183 Rev2

Certification Body:

CertMark
International
ABN: 80 111 217 568
JAS-ANZ Accreditation
No. Z4450210AK
PO Box 7144, Sippy
Downs Qld 4556
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www.CertMark.org

Certificate Holder:

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

THIS TO CERTIFY THAT

MetecnoSpan®

Description of product:

MetecnoSpan® is an insulated metal roofing panel that combines roofing, insulation and a pre-finished ceiling utilising steel made to Australian Standards. Refer A3 for further information.

Type and/or use of product:

Insulated Roof 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), (viii),(xi)& (xii)	P2.1.1 (a)&(b)(i), (ii),(iii), (viii),(xi) &(xii)
	Structural reliability	Structural stability and resistance to actions
		P2.2.2
		Weatherproofing - Restricted to roof cladding
		P2.3.4
		Bushfire Areas (BAL-40)
Deemed-to-Satisfy Provision(s):	Spec C1.10(4)(b)	3.12.1.2
	Fire Hazard Properties- Group 2 restricted to ceiling linings	Energy Efficiency - Roof construction can contribute to the Total R Value. Refer to A3.
	F1.5	
	Weatherproofing – Roof coverings	
	J1.3	
	Energy Efficiency - Roof construction can contribute to the Total R Value. Refer to A3.	
State or territory variation(s):	Not Applicable	P2.3.4 (TAS), P2.6.1 (VIC).

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

John Thorpe - CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 15/08/2018

Date of expiry: 09/05/2021



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Limitations and conditions:

1. The metal roof panels will be limited by wind load shown in the manufacturer's specifications on the span certified for the product type, thickness, core density and fixing configuration as per the product's certified span tables.
2. Bushfire - MetecnoSpan® is suitable for use on class 1 & 10 buildings as the roof covering on buildings to be constructed in designated bushfire prone areas that require a BAL-40 or less, when installed in accordance with the MetecnoSpan® Technical Drawings (v1 – Dated 22/03/2018) and all exposed core material is encapsulated with a non-combustible covering.
3. MetecnoSpan® is to be installed in accordance with the Manufacturer's installation manuals; [BON0126 Bondor® Tech Data Sheets - MetecnoSpan® v49](#) and [BON0535 Drawing Pack - MetecnoSpan v1](#).
4. Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. 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.
5. 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.

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APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page one.

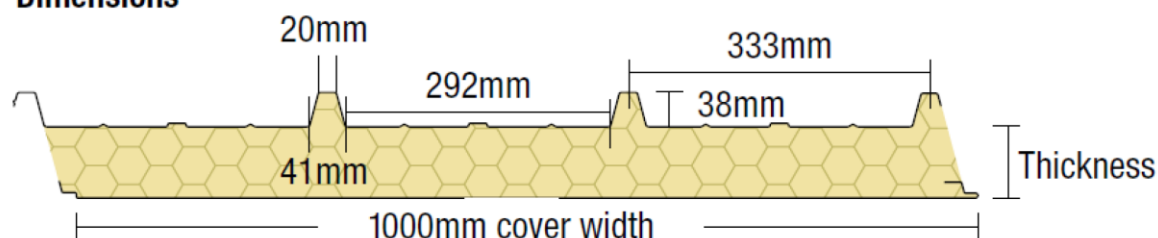
A2 Description of product

MetecnoSpan® is a long-spanning commercial and residential roofing system that combines roofing, a fire retardant Polyisocyanurate insulation core and a pre-painted ceiling. MetecnoSpan® can be used as a pre-finished insulated metal roof & ceiling for roofing applications on all classes of buildings within the scope of this certification, including shading structures, residential roofing and commercial roofing. The structural support members and associated fixings, flashings, channels, sealant required are designed and engineered separately as per project requirements by building designers and engineers.

A3 Product specification

Panel Properties

Dimensions



Source: Certificate Holder

Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1000
Thickness (mm)	40, 60, 80 & 100
Length	Up to 25m (check for availability)
External Material	0.42mm G550 Zinalume™ or Colorbond® steel
External Finishes	Trapezoidal Profile
Exterior Colour Options	Surfmist® and Zinalume™. Other colours available subject to minimum order quantities

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Internal Material	0.5mm G300 Colorbond® steel				
Internal Finishes	Plain, Fineline, Satinline & V Rib				
Pitch	2° Minimum				
Paint System	AS/NZS 2728:2013 & AS 1397-2011				
Material Group Numbers	Group 2				
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)	40	60	80	100
	Typical Mass (kg/m²)	10.7	11.6	12.7	13.2
	Total R-value (m²K/W)	2.3	3.4	4.4	5.5
	Note: The above Total R-values are for insulation average temperature of 15°C. Contact the certificate holder for other temperatures.				

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Span Table

- Non-Cyclonic Region A & B (Roof Applications Only).
- PIR Core / 0.42mm Hi-tensile External / 0.5mm Internal Steel Skins.
- Maximum uniformly distributed Ultimate Wind Load (kPa) for the given span:

Single Span, wind pressure acting outwards

Span (mm)	Panel Thickness (mm)			
	40	60	80	100
1500	4.99	6.94	8.56	9.83
2700	2.15	2.84	3.57	4.31
3900	1.08	1.41	1.76	2.12
5100	0.67	0.86	1.07	1.29
6300	-	-	0.74	0.88

Multi-Span, wind pressure acting outwards

Span (mm)	Panel Thickness (mm)			
	40	60	80	100
1500	4.01	5.57	6.87	7.31
2700	2.27	3.14	3.86	4.11
3900	1.48	2.20	2.70	2.88
5100	-	1.40	1.83	2.20
6300	-	-	1.23	1.48

Notes:

1. Extended span tables including cyclonic regions C&D and wind pressure acting inwards are also available from certificate holder.
2. Fixing with min. 14g tek screws (or equivalent) at each rib are required.
3. Pressures specified are for wind gusts only per AS/NZS 1170.2:2011.
4. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS/NZS 1170.0:2002 - TABLE C1.
5. 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.
6. Non-trafficable maintenance access (concentrated load) of 140kg (exceeding minimum requirements of AS/NZS 1170.1:2002) on any one panel has been allowed for.
7. Distributed live load of 0.25kPa (as per AS/NZS 1170.1:2002) has been allowed for. Bondor® tests comply with details outlined in AS 4040.0-1992, AS 4040.1-1992, AS 4040.2-1992, AS 4040.3:2018, AS 1562.1:2018 and AS/NZS 1170.1:2002
8. Minimum roof slope of 2 degree applies.
9. For FM Approved applications,
 - a. a max. span of 1830mm applies.
 - b. approved fasteners must be used, contact certificate holder.

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Product	Document Name	Version
Metecnospan®	Metecnospan® Span Tables for Wind Region A – Non-Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	3
Metecnospan®	Metecnospan® Span Tables for Wind Region B – Non-Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	3
Metecnospan®	Metecnospan® Span Tables for Wind Region C – Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	3
Metecnospan®	Metecnospan® Span Tables for Wind Region D – Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	3
Metecnospan®	Metecnospan® Span Tables for Wind Region A – Non-Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	1
Metecnospan®	Metecnospan® Span Tables for Wind Region B – Non-Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	1
Metecnospan®	Metecnospan® Span Tables for Wind Region C – Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.5mm steel skins	1
Metecnospan®	Metecnospan® Span Tables for Wind Region D – Non-Cyclonic (External Roof Applications Only) PIR Core 0.42mm hi-tensile/0.4mm steel skins	3
Metecnospan®	Metecnospan® Span Table for Housing Application	3

Source: Technical Data Sheet [BON0126 Bondor® Tech Data Sheets - MetecnoSpan® v49](#)

Note: The above referenced standards in the technical data sheet are current as of this certificate.

A4 Manufacturer and manufacturing plant(s)

Metecno Pty Ltd
111 Ingram Road
Acacia Ridge QLD 4110
T: +617 3323 8500

A5 Installation requirements

To be installed in accordance with Technical Data Sheet [BON0126 Bondor® Tech Data Sheets - MetecnoSpan® v49](#) and [BON0535 Drawing Pack - MetecnoSpan v1](#).

A6 Other relevant technical data

Acoustic Properties - R_{w24} to R_{w25} (depending on thickness).

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APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Bushfire Protection A2.2(a)(v) and 1.2.2(a)(iii). Reports from appropriately qualified person.
2. Fire Resistance A2.2(a)(iv)&(v) and 1.2.2(a)(i)&(iii). Reports from a Registered Testing Authority and Professional Engineers.
3. Structural Provision A2.2(a)(v) and 1.2.2(a)(iii). Reports from a Professional Engineer.
4. Thermal Performance A2.2(a)(v) and 1.2.2(a)(iii). Reports from a Professional Engineer.
5. Weatherproofing A2.2(a)(iv) and 1.2.2(a)(i). Reports from a Registered Testing Authority.

B2 Reports

1. AWT Product Testing; NATA Accreditation No. 1356; Report No. 7-539731-CQ; AS/NZS 1530.3:1999 Fire Indices; Dated 22/09/2005.
2. Bligh Tanner; Reference No. 2017.0493; Assessment of MetecnoSpan® span tables; Dated 11/04/2018.
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. CSIRO; NATA Accreditation No. 165; Report No. HHI 2997; Assessment of MetecnoSpan® roofing panel end-lap assembly tested to AS 4046.9-2002; Dated 10/11/2016.
6. Hendry Group Pty Ltd; Report No. BAL AS 3959-2009 – Assessment Report Bondor® Roof Panels; Dated November 2017.
7. Ignis Solutions; Report No. IGNS-5396 I01 R00; MetecnoPanel® PIR Steel Clad Sandwich Panels compliance to AS 5367.1:2015; Dated 16/02/2018.
8. James Fricker; Report No. 265c; Total R – Thermal performance calculations; 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.

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