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Certificate Holder:

Metecno Pty Ltd
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THIS TO CERTIFY THAT

SolarSpan®

Type and/or use of product:

Insulated Roof Panel.

Description of product:

SolarSpan® is an insulated roofing panel consisting of:

- External face - BlueScope® Steel G550
- Core material - EPS-FR - Expanded Polystyrene with fire-retardant
- Internal face - BlueScope® Steel G300

Refer A3 for further information.

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) & Structural Reliability (b)(i),(ii), (iii),(viii), (xi)&(xii)	P2.1.1(a)& Structural stability and resistance to actions (b)(i),(ii), (iii),(viii), (xi)&(xii)
	FP1.4 Weatherproofing	P2.2.2 Weatherproofing for external walls and roofs
		P2.3.4 Bushfire areas (BAL-40)
Deemed-to-Satisfy Provision(s):	Spec C1.10(4)(b) Fire Hazard Properties	3.12.1.2 Roofs – Refer to R Values in A3
	F1.5(d) Roof Coverings	
	J1.3 Roof and Ceiling Construction – Refer to R Values in A3	
State or territory variation(s):	Not Applicable	P2.3.4 (TAS)


John Thorpe - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 15/08/2018

Date of expiry: 28/02/2021



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. The metal roof 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.
2. SolarSpan[®] is to be installed in accordance with the Manufacturer's installation manuals; [BON0126 Bondor Tech Data Sheets - SolarSpan v45](#) and [BON0535 Drawing Pack - SolarSpan v2](#).
3. The Group numbers achieved in accordance with AS ISO 9705-2003 as either Group 2 or Group 1, depend on the thickness and construction detail. Refer A3 below.
4. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
5. 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.
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.

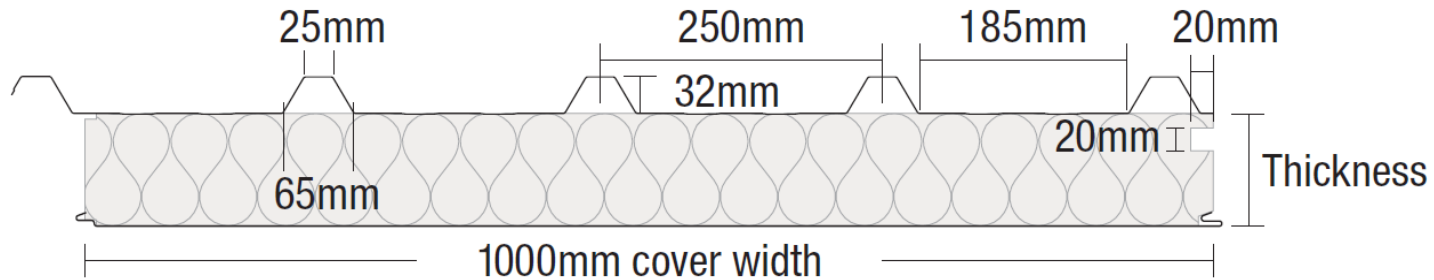
A2 Description of product

SolarSpan® is a long-spanning commercial and residential insulated roof panel system that combines roofing, EPS-FR insulation and a pre-painted ceiling in one. The product contains SolarSpan® insulated metal roof panels, fixings, flashings, channels, and sealant (where required). The structural support members are designed and engineered separately to the metal roof panels.

A3 Product specification

Panel Properties

Dimensions



Source: Technical Data Sheet BON0126 Bondor® Tech Data Sheets - SolarSpan® v45

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1000
Thickness (mm)	50, 75, 100, 125, 150, 175 & 200
Length	Up to 24m
Exterior Facing Skin	0.42mm G550 Zinalume™ or Colorbond® steel
Interior Facing Skin	0.5mm, 0.6mm G300 Colorbond® steel
Exterior Colour Options	Classic Cream™, Surfmist®, Paperbark®, Shale Grey™, Dune®, Pale Eucalypt®, Manor Red®, Basalt®, Woodland Grey®
Interior Facing Colours	Classic Cream™, Surfmist®

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Finishes	Plain, Elegance							
Pitch	2 degrees Minimum							
Paint System	AS/NZS 2728:2013 & AS 1397-2011							
Material Group Numbers	<p>Group 1: Panels with a nominal thickness of 250mm or less, panel to panel junctions require steel angles fixed to the steel skins at not more than 300mm centres, with steel rivets. Ceiling panel to panel joins require a steel (stitch) rivet connecting the metal skins at not more than 1200mm centres.</p> <p>Group 2: Panels with a nominal thickness of 150mm or less, panel to panel corner junctions require aluminium angles fixed to the steel skins at not more than 300mm centres, with aluminium rivets. Panels with a nominal thickness greater than 150mm, panel to panel junctions require steel angles fixed to the steel skins at not more than 300mm centres, with steel rivets.</p>							
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	2-3						
Thermal & Energy Efficiency	Panel Thickness (mm)	50	75	100	125	150	175	200
	Mass (kg/m ²)	10.6	10.9	11.3	11.6	12.0	12.3	12.7
	SL Grade Total R-value (m ² K/W)	1.4	2.1	2.7	3.3	4.0	4.6	5.2
	VH Grade Total R-value Value (m ² K/W)	1.6	2.4	3.1	3.8	4.6	5.3	6.1
	Note: The above Total R-values are for insulation average temperatures of 15°C. Contact Certificate Holder for other temperatures and different EPS core grades.							

Span Table

- Non-Cyclonic Region A & B (Roof Applications Only).
- SL Grade EPS-FR Core / 0.42mm Hi-tensile External / 0.6mm 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)						
	50	75	100	125	150	175	200
1500	5.16	7.70	9.41	10.98	13.26	15.51	17.81
2700	2.35	3.74	4.63	5.55	6.78	7.99	9.28
3900	1.28	2.00	2.55	3.11	3.67	4.23	4.79
5100	-	1.21	1.53	1.86	2.19	2.52	2.85
6300	-	-	1.04	1.25	1.47	1.69	1.91
7500	-	-	0.76	0.92	1.07	1.22	1.38
8700	-	-	-	-	0.82	0.94	1.05

Multi-Span, wind pressure acting outwards							
Span (mm)	Panel Thickness (mm)						
	50	75	100	125	150	175	200
1500	4.15	5.90	7.16	7.74	7.74	7.74	7.75
2700	2.07	2.91	1.00	4.35	4.35	4.35	4.35
3900	1.17	1.72	2.41	2.95	3.04	3.04	3.05
5100	-	1.11	1.58	1.98	2.35	2.35	2.36
6300	-	-	1.10	1.40	1.77	1.93	1.93
7500	-	-	-	1.03	1.31	1.57	1.64
8700	-	-	-	-	-	1.20	1.43

Notes

1. Extended span tables including cyclonic regions C & D, multi-span, wind pressure acting inwards and 0.5mm interior skin are also available. Refer Certificate Holder.
2. Fixing with 14g tek screws (or equivalent) at each rib are required.
3. Pressures specified are for wind gusts only per AS/NZS 1170.2:2002.
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 max 25kg/m² uniformly distributed dead loads (e.g. lights, fans, solar panels, etc.).
6. Non-trafficable maintenance access (concentrated load) of 140kg (exceeding min. 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 4040.3-1992, AS 1562.1-1992 and AS/NZS 1170.1:2002.
8. Min. roof slope of 2 degree applies.
9. Generic engineering certification of the SolarSpan® Patio System is available for residential patios.

Product	Document Name	Version
Solarspan®	Solarspan® Span Tables for Wind Region A – Non-Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.6mm steel skins	4
Solarspan®	Solarspan® Span Tables for Wind Region B – Non-Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.6mm steel skins	4
Solarspan®	Solarspan® Span Tables for Wind Region C – Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.6mm steel skins	4
Solarspan®	Solarspan® Span Tables for Wind Region D – Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.6mm steel skins	4
Solarspan®	Solarspan® Span Tables for Wind Region A – Non-Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.5mm steel skins	4
Solarspan®	Solarspan® Span Tables for Wind Region B – Non-Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.5mm steel skins	4
Solarspan®	Solarspan® Span Tables for Wind Region C – Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.5mm steel skins	3
Solarspan®	Solarspan® Span Tables for Wind Region D – Cyclonic (External Roof Applications Only) EPS Core 0.42mm hi-tensile/0.5mm steel skins	3

Source: Technical Data Sheet BON0126 Bondor® Tech Data Sheets - SolarSpan® v45

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

To be installed in accordance with Technical Data Sheet [BON0126 Bondor® Tech Data Sheets - SolarSpan® v45](#) and [BON0535 Drawing Pack - SolarSpan® v2](#).

A6 Other relevant technical data

Acoustic Properties – R_w 24 – R_w 25 Depending on thickness.

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. Damp and Weatherproofing A2.2 (a)(v) and 1.2.2 (a)(iii). Reports from a Professional Engineer.
3. Fire Hazard Properties A2.2 (a)(iv) and 1.2.2 (a)(i). Reports from a Registered Testing Authority.
4. Fire Hazard Properties A2.2 (a)(v) and 1.2.2 (a)(iii). Reports from a Professional Engineer.
5. Structural Provision A2.2 (a)(v) and 1.2.2 (a)(iii). Reports from a Professional Engineer.
6. Thermal Performance A2.2 (a)(v) and 1.2.2 (a)(iii). Reports from a Professional Engineer.

B2 Reports

1. AWTA Product Testing; NATA Accreditation No.1356; Report No. 7-563460-CQ; Testing to AS/NZS 1530.3:1999 Fire Indices; Dated 25/11/2008.
2. Bligh Tanner Pty Ltd; Reference Number: 2007.231.3; Compliance with relevant structural performance including P2.1.1, P2.2.2 and P2.3.4; Dated 27/11/2012.
3. Bligh Tanner Pty Ltd; Reference Number: 2017.0493; Certification of Solarspan® Panel Span Tables; Dated 17/08/2018.
4. BRANZ; IANZ Accreditation No. 37; Fire Test Certificate 372; Group 2 to AS ISO 9705:2013 Insulating panel with a thickness of 250mm or less; Dated 29/04/2005.
5. BRANZ; IANZ Accreditation No. 37; Fire Test Certificate 373; Group 2 to AS ISO 9705:2013 Insulating panel with a thickness of 150mm or less; Dated 29/04/2005.
6. BRANZ; IANZ Accreditation No. 37; Fire Test Certificate 374; Group 1 to AS ISO 9705:2013 Insulating panel with a thickness of 250mm or less; Dated 29/04/2005.
7. Hendry Group Pty Ltd; Report on Deemed-to-Satisfy assessment of Bondor® Roof Panels under volume two of the NCC Construction in designated Bushfire areas up to BAL-40 in accordance with AS 3959:2009 (compliance with NCC 3.7.1.2); Dated November 2017.
8. Ignis Solutions; Evaluation No. IGNS-5396 Issue 01 Revision 01 (2017); Bondor® Panels ISO 9705 Testing; Dated 25/01/2018.
9. James M Fricker Pty Ltd; Thermal Performance Calculations to AS/NZS 4859.1:2002/Amdt 1 (Dec 2006), Report 265c Dated 28/01/2018.

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