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Certificate Holder:

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THIS TO CERTIFY THAT

BondorPanel®

Type and/or use of product:

Insulated wall and ceiling panel

Description of product:

BondorPanel® is an insulated wall and ceiling panel consisting of:

- External face - BlueScope® Steel G300
- 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) & (b)(i), (ii), (iii) Structural Reliability	P2.1.1(a) & (b)(i),(ii), (iii) & (c) Structural stability and resistance to actions
	FP1.4 Weatherproofing	P2.2.2 Weatherproofing for external walls
		P2.3.4 Bushfire Areas (BAL- 40)
Deemed-to-Satisfy Provision(s):	Spec C1.10(4)(b) Fire Hazard Properties	3.12.1.4 External Walls - Refer to R Values in A3
	J1.5 Wall – Refer to R Values in A3	
State or territory variation(s):	Not Applicable.	P2.3.4 (TAS).

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: 16/05/2021



Certificate of Conformity

Limitations and conditions:

1. BondorPanel[®] is to be installed in accordance with the Manufacturer's installation manuals; [BON0126 Bondor Tech Data Sheets - BondorPanel v46](#) and [BON0535 Drawing Pack - BondorPanel v1](#).
2. The waterproofing systems for all panels is dependent on window, door and other penetration frames being designed, constructed and installed in accordance with manufacturers recommendations to enable adequate flashing and sealing to the building.
3. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
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.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page one.

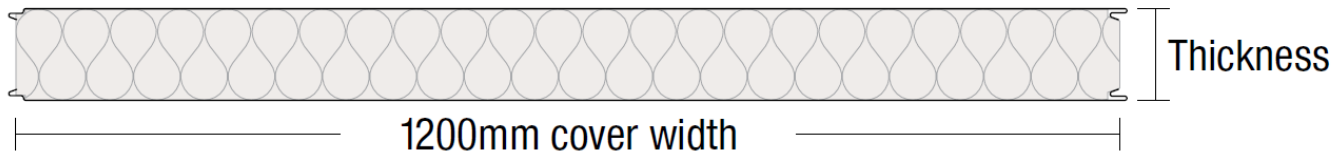
A2 Description of product

BondorPanel® is an insulated wall and ceiling panel used in controlled environments such as cold storage, food preparation areas and clean rooms, transportable offices, wall partitions and other applications.

A3 Product specification

Panel Properties

Dimensions



Source: Technical Data Sheet BON0126 Bondor® Tech Data Sheets - Bondorpanel® v46

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1200
Length	Up to 16m
External Material	BlueScope® Colorbond® Steel 0.6mm G300 CPR grade
External Finishes	Plain, Ribbed, Satinline
Internal Material	BlueScope® Colorbond® Steel 0.6mm G300 CPR grade
Paint System	AS 2728:2013 & AS 1397-2011
Material Group Numbers	<p>Group 1 Panel up to 250mm thick with steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at maximum 300mm centres is classified as Group 1.</p> <p>Group 2 Panel up to 150mm thick with aluminium 'wall-wall' and 'wall-ceiling' angles fixed with aluminium rivets or screws at 300mm centres is classified as Group 2. Panel thicker than 150mm requires steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at 300mm centres to be classified as Group 2.</p>



Certificate of Conformity

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	200	250
	Typical Mass (kg/m ²)	11.3	11.6	12.0	12.3	12.7	13.3	14.0
	SL Grade Total R-value (m ² K/W) @ 6°C	1.5	2.1	2.8	3.4	4.1	5.4	6.7
	SL Grade Total R-value (m ² K/W) @ 15°C	1.4	2.1	2.7	3.3	4.0	5.2	6.5

Note: The above Total R-values are for insulation average temperature of 6°C and 15°C. Contact the Certificate Holder for other temperatures.

Span Table

- Non-Cyclonic Region A & B.
- SL Grade EPS-FR Core / 0.6mm 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	200	250
1500	3.39	5.09	6.79	8.48	10.18	13.58	16.97
2750	1.86	2.83	3.77	4.71	5.66	7.54	9.43
3900	0.95	1.57	2.09	2.62	3.41	4.19	5.24
5100	0.54	0.92	1.22	1.53	1.84	2.45	3.06
6300	0.33	0.66	0.80	1.00	1.20	1.60	2.01
7500	-	0.42	0.57	0.71	0.85	1.13	1.42
8700	-	0.30	0.42	0.53	0.63	0.84	1.05

Multi Span, wind pressure acting outwards

Span (mm)	Panel Thickness (mm)						
	50	75	100	125	150	200	250
1500	2.72	4.07	5.43	6.79	8.15	9.92	9.92
2750	1.51	2.26	3.02	3.77	4.43	5.51	5.51
3900	1.04	1.57	2.09	2.63	3.13	3.82	3.82
5100	0.61	0.92	1.22	1.53	1.85	2.45	2.92
6300	0.40	0.60	0.80	1.00	1.20	1.60	2.01
7500	0.28	0.42	0.57	0.71	0.85	1.13	1.42
8700	-	0.32	0.42	0.53	0.63	0.84	1.05

Notes

1. Extended span tables including cyclonic regions C&D and 300mm thick panel are also available. Refer Certificate Holder.
2. Fixing with min. 14g tek screws (x4 off) or mushroom head bolts (x2 off) per fixing point 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. This span table applies for cold storage constructed wholly within a larger enclosed building. Pressure relief port is to be provided for a freezer in accordance with Bondor® recommendation.
6. Panel thicknesses of not less than 100mm are recommended for chillers, not less than 150mm for freezers and not less than 200mm for blast freezers, depending on structural considerations. Check 'R' value for insulation requirements.
7. Fixing with min. 14g tek screws (x4 off) per fixing point or mushroom head bolts (x1 off at end support and x2 off at intermediate supports) are required.
8. 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.
9. Non-trafficable maintenance access (concentrated load) of 140kg on any one panel has been allowed for (exceeding min. requirements of AS/NZS 1170.1:2002).
10. 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.

Product	Document Name	Version
BondorPanel®	Bondorpanel® Span Tables for Wind Region A & B – Non-Cyclonic (External Wall Applications Only) Eps Core Grade SI 0.6mm Steel Skins	2
BondorPanel®	Bondorpanel® Span Tables for Wind Region C & D – Cyclonic (External Wall Applications Only) Eps Core Grade SI 0.6mm Steel Skins	2
BondorPanel®	Bondorpanel® Span Tables for Wind Region A & B – Non-Cyclonic (External Wall Applications Only) Eps Core Grade M 0.6mm Steel Skins	2
BondorPanel®	Bondorpanel® Span Tables for Wind Region A & B – Non-Cyclonic (External Wall Applications Only) Eps Core Grade H 0.6mm Steel Skins	2
BondorPanel®	Bondorpanel® Span Tables for Wind Region A & B – Non-Cyclonic (External Wall Applications Only) Eps Core Grade SI 0.4mm Steel Skins	2
BondorPanel®	Bondorpanel® Span Tables for Wind Region A & B – Non-Cyclonic (External Wall Applications with Single Mushroom Fixing) Eps Core Grade SI 0.6mm Steel Skins	1
BondorPanel®	Bondorpanel® Span Tables (Internal Wall, Ceiling and Cold Storage Applications) Eps Core Grade SI 0.6mm Steel Skins	7
BondorPanel®	Bondorpanel® Span Tables (Internal Wall, Ceiling and Cold Storage Applications) Eps Core Grade SI 0.5mm Steel Skins	5
BondorPanel®	Bondorpanel® Span Tables (Internal Wall, Ceiling and Cold Storage Applications) Eps Core Grade SI 0.4mm Steel Skins	5
BondorPanel®	Bondorpanel® SI Core 0.6mm Steel Skins Wall Span Table for Housing Application – Non-Cyclonic	1
BondorPanel®	Bondorpanel® SI Core 0.6mm Steel Skins Wall Span Table for Housing Application - Cyclonic	1

Source: Technical Data Sheet BON0126 Bondor® Tech Data Sheets - Bondorpanel® v46

A4 Manufacturer and manufacturing plant(s)

Metecno Pty Ltd
103 Ingram Rd
Acacia Ridge, QLD 4110
Ph: +61 7 3323 8555

A5 Installation requirements

Only to be installed in accordance with the Manufacturer's installation manuals; [BON0126 Bondor Tech Data Sheets - BondorPanel v46](#) and [BON0535 Drawing Pack - BondorPanel v1](#).

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. 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)(iv)&(v) and 1.2.2(a)(i)&(iii). Reports from NATA test Laboratory and certificates from Professional Engineers.
4. Thermal Performance A2.2(a)(v) and 1.2.2(a)(iii). Evidence of suitability, certificates from Professional Engineers
5. Weatherproofing A2.2(a)(iv)&(v) and 1.2.2(a)(i)&(iii). Reports from NATA test Laboratory and certificates from Professional Engineers.

B2 Reports

1. AWTA Product Testing; NATA Accreditation No. 1356; Report No. 7-563460-CQ; AS/NZS 1530.3:1999 Fire Indices; Dated 25/11/2008.
2. Bligh Tanner; Reference No. 2017.0493; Weatherproofing assessment; Dated 12/03/2018.
3. Bligh Tanner; Reference No. 2017.0493; Assessment of BondorPanel® span tables; Dated 19/03/2018.
4. BRANZ; Report No. 372; Fire testing to AS 1366.3-1992; Dated 29/04/2005.
5. BRANZ; Report No. 373; Fire testing to AS 1366.3-1992; Dated 29/04/2005.
6. BRANZ; Report No. 374; Fire testing to AS 1366.3-1992; Dated 29/04/2005.
7. Hendry Group Pty Ltd; Report No. BAL AS 3959-2009 – Assessment Report Bondor® Wall Panels; Dated November 2017.
8. Ignis Solutions; Report No. IGNS-5396; Reaction to fire; Dated 25/01/2018.
9. James Fricker Pty Ltd; Report No. 265w01; Thermal insulation evaluation; Dated 13/02/2018.
10. ViPac Engineers and Scientists Ltd; NATA Accreditation No. 676; Document No. 30B-12-0101-TRP-304640-0; Resistance to water penetration; Dated 15/11/2012.

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