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Certificate number: CM40189 Rev1

THIS IS 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 comprising Expanded Polystyrene with Fire Retardant (EPS-FR) core and Colorbond steel skins. Refer A2 for further information.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) BCA 2019 (Amdt. 1)

	Volume One	Volume Two
Performance Requirement(s):	BP1.1(a) & (b)(i), (ii), (iii) FP1.4	Structural Reliability Weatherproofing – Subject to <i>Limitation and Condition 3</i> .
Deemed-to-Satisfy Provision(s):	C1.10(a)(ii) & (ix) J1.5	Structural stability and resistance to actions & (b)(i),(ii), (iii) & (c) Weatherproofing – Subject to <i>Limitation and Condition 3</i> . 3.12.1.4 Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building - Refer A3 3.12.1.6 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, SA, Qld, Tas, ACT)

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

Limitations and conditions:

- This product has not been tested to AS 1530.1-1994 and cannot be considered a non-combustible product.
- The BondorPanel® wall panels are limited to the use in Type C Construction in Class 2 to 9 buildings when being used as external walls. Note, BondorPanel® wall panels can be used as internal walls in class 2 to 9 buildings and as internal and external walls in class 1 & 10 buildings.
- To satisfy FP1.4 & P2.2.2 via verification, the relevant design is required to meet the criteria of FV1.1 and/or V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
 - (a)(i) have a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table FV1.1/V2.2.1a; and
 - (a)(ii) not be subjected to an ultimate limit state wind pressure of more than 2.5kPa; and

Building classification/s:

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


 Richard Donarski – CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 23/09/2021

Date of expiry: 23/03/2024



Certificate of Conformity

(a)(iii) include only windows that comply with AS 2047.

Compliance with Weatherproofing is limited to the tested specimen detailed in A3, deviations from this specimen, is subject to site specific design and approval by the regulatory authority.

4. The metal wall 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.
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. 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.

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

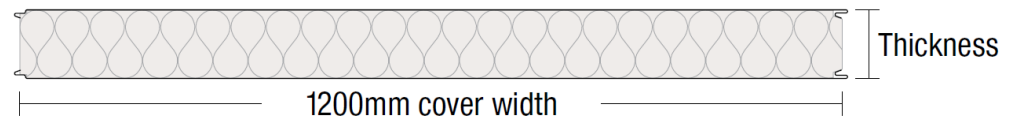
A1 Type and intended use of product

As per page 1.

A2 Description of product

Core	EPS-FR (Expanded Polystyrene SL Grade with fire retardant)
Width (cover mm)	1200
Thickness	50, 75, 100, 125, 150, 200 & 250
Length	Up to 16m
External Material	BlueScope® Colorbond® Steel 0.6mm G300
Internal Material	BlueScope® Colorbond® Steel 0.6mm G300

Dimensions



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
BONDORPANEL® SPAN TABLES FOR WIND REGION A & B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) EPS-FR Core Grade SL 0.6mm steel skins	2
BONDORPANEL® SPAN TABLES FOR WIND REGION C & D – CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) EPS-FR Core Grade SL 0.6mm steel skins	2
BONDORPANEL® SPAN TABLES FOR WIND REGION A & B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS WITH SINGLE MUSHROOM FIXING) EPS-FR Core Grade SL 0.6mm steel skins	1
BONDORPANEL® SPAN TABLES (INTERNAL WALL, CEILING AND COLD STORAGE APPLICATIONS) EPS-FR Core Grade SL 0.6mm steel skins	8
BondorPanel EPS-FR SL Core 0.6mm Steel Skins Wall Span Table for Housing Application – Non-Cyclonic	1
BondorPanel EPS-FR SL Core 0.6mm Steel Skins Wall Span Table for Housing Application – Cyclonic	1

Source: Bligh Tanner Pty Ltd; Reference Number: 2017.0493; Dated 26/03/2021.

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

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.

Smoke Growth Rate Index (SMOGR_{RC}) is 2.4 m²/s²

Group 2

Panel up to 250mm thick with aluminium 'wall-wall' and 'wall-ceiling' angles fixed with aluminium rivets or screws at maximum 300mm centres is classified as Group 2.

Smoke Growth Rate Index (SMOGR_{RC}) is 12.0 m²/s²

Fire Hazard Properties

AS/NZS 1530.3-1999 Indices

Ignitability Index	0	Range 0-20
Spread of Flame Index	0	Range 0-10
Heat Evolved Index	0	Range 0-10
Smoke Index	2-3	Range 0-10

Source: AWTA Product Testing Report No. 7-563460-CQ dated 25/11/2008.

Energy Efficiency

BondorPanel EPS-FR core SL Grade

Thickness (mm)	$\lambda_{\text{declared at 23°C (W/m.K)}}$	$R_{\text{declared at 15°C(m}^2\text{.K/W)}}$	$R_{\text{declared at 23°C(m}^2\text{.K/W)}}$	Wall Total R-value (m ² .K/W) at		
				6°C	15°C	30°C
50	0.042	1.25	1.20	1.45	1.41	1.34
75	0.042	1.85	1.80	2.10	2.04	1.94
100	0.042	2.45	2.40	2.74	2.66	2.53
125	0.042	3.10	3.00	3.38	3.28	3.13
150	0.042	3.70	3.60	4.03	3.91	3.72
200	0.042	4.95	4.85	5.31	5.16	4.91
250	0.042	6.20	6.05	6.60	6.41	6.09

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, hence they are compliant with NCC2019 Volumes One and Two.

Source: James Fricker Report No. i265e updated 22/02/2021.

Weatherproofing

Vertical & Horizontal panel configuration installed as a Direct Fix System in accordance with Verification Methods V2.2.1 & FV1 with AS/NZS 4284:2008. Nominated serviceability limit state pressures: +1630 Pa and -2450 Pa. Weatherproofing requirements are detailed in [Commercial Walling Design & Install Guide v1 2021](#). The minimum fixing requirements are outlined in the Span Tables referenced in A3 of this Certificate of Conformity.

Source: Ian Bennie And Associates; Accreditation No. 2371; Report No.2019-020-S2; NCC-2019 Verification Methods FV1 & V2.1.1 in accordance with AS/NZS 4284:2008; Dated 17/07/2019

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

Installation requirements are outside the scope of this certificate and subject to project specific engineering advice. The minimum fixing and weatherproofing requirements are outlined in A3 of this Certificate of Conformity.

A6 Other relevant technical data

- Acoustic Performance** 50mm BondorPanel® panel achieved R_w 25, C -3 & C_{tr} -4
100mm BondorPanel® panel achieved R_w 24, C -2 & C_{tr} -4
250mm BondorPanel® panel achieved R_w 25, C -3 & C_{tr} -4

Source: CSIRO Report No. TL484 dated March 2008.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

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

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; Assessment of BondorPanel® span tables; Dated 26/03/2021.
3. 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.
4. 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.
5. 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.
6. Ian Bennie And Associates; Accreditation No. 2371; Report No.2019-020-S2; NCC-2019 Verification Methods FV1 & V2.2.1 in accordance with AS/NZS 4284:2008; Dated 17/07/2019.
7. Ian Bennie And Associates; Accreditation No. 2371; Report No.2019-020-S3; NCC-2019 Verification Methods FV1 & V2.2.1 in accordance with AS/NZS 4284:2008; Dated 17/07/2019.
8. Ignis Solutions; Evaluation No. IGNS-5396 Issue 01 Revision 02 [2017]; Bondor® Panels ISO 9705 Testing conducted by BRANZ; Dated 23/02/2019.
9. James M Fricker Pty Ltd; Report i265e; Declared R (thermally bridged) thermal performance calculations to AS/NZS 4859 Parts 1 & 2:2018; Dated 22/02/2021.

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