



Certificate of Conformity

Certificate number: CM40323

Certification Body:


ABN: 80 111 217 568
JAS-ANZ Accreditation
No. Z4450210AK
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THIS IS TO CERTIFY THAT

Orange Board® Cladding System

Type and/or use of product:

The Orange Board® Cladding System is used as External Insulated Finishing Systems (EIFS) in Class 1 and 10 buildings for steel or timber frames.

Description of product:

The Orange Board® Cladding System consists of Orange Expanded Polystyrene (EPS) M Grade panels and proprietary components installed as a direct fixed wall system. Refer A2

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

	Volume One	Volume Two
Performance Requirement(s):	Not Applicable	P2.1.1(a)&(b)(iii) Structural stability and resistance. P2.2.2 Weatherproofing – Subject to <i>Limitation and Condition 2</i> . P2.4.7 Condensation and water vapour management – Subject to <i>Limitation and Condition 5</i> . 3.10.5.0 Construction in bushfire prone areas – Contributes to satisfying the NCC Performance Requirements for the construction of buildings in bushfire prone areas up to BAL A-29 Subject to <i>Limitation and Condition 4</i> . 3.12.1.4 Energy Efficiency – External Walls. Must be used in conjunction with other building elements to achieve a Total R Value. Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)
Deemed-to-Satisfy Provision(s):	Not Applicable	
State or territory variation(s):	Not Applicable	

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

Limitations and conditions:

- Construction shall be in strict accordance with the [AUSBLOX Orange Board® Technical Data Manual Rev 1](#).
- To satisfy P2.2.2 via verification, the relevant design is required to meet the criteria of V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
 - has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table V2.2.1a; and
 - is not subjected to an ultimate limit state wind pressure or more than 2.5kPa; and
 - includes only windows that comply with AS 2047

Building classification/s:

Class 1 & 10a

Certificate Holder:


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Richard Donarski - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 23/09/2021

Date of expiry: 23/09/2024



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- 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. Tyvek[®] Wall Wrap must be installed directly behind AUSBLOX Orange Board[®] panels which comply with AS/NZS 4200.1 & .2.
3. This product has not been tested to AS 1530.1-1994 and cannot be considered a non-combustible product.
 4. In order to maintain compliance with BAL-29, AUSBLOX Orange Board[®] render must be used and applied at a minimum thickness of 8mm. It is also the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959:2018.
 5. Compliance with P2.4.7 of Vol 2 of the 2019 BCA for Condensation Management requires a pliable building membrane complying with AS/NZS 4200.1:2017 must be installed in accordance with AS 4200.2:2017 to separate the wall cladding panels from any water sensitive materials.
 6. In all installations, the minimum clearance between the underside of panel and the adjoining surface level below must comply with the specifications in Part 3.5.4.7 of Volume 2 of the NCC.
 7. The Orange Board[®] Cladding System has not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS 1170.2:2011. The building designer should take into consideration internal pressure resulting from dominant openings.
 8. Building height to eaves and ridge up to 10m, Limited to Terrain Category 1 to 3.
 9. Vertical expansion joint spacing not to exceed 5 metres where the wall length is greater than 8 metres. Joints are placed to align with large door and window openings and internal corners. Double studs are necessary at all vertical expansion joints. Horizontal expansion joint spacing not to exceed 3 metres. Expansion joints must occur where AUSBLOX Orange Board[®] meets other substrates/cladding materials.
 10. The Orange Board[®] Cladding System must be fixed to a structurally adequate external wall frame in accordance with the appropriate span tables in section A3. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
 11. The Orange Board[®] Cladding System must incorporate either a timber frame constructed in accordance with AS 1684 series; or a cold-formed steel frame constructed in accordance with NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria, or AS 3623-1993 (R2018) Domestic Metal Framing; or Framework compliant with other standards as applicable.
 12. 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

Orange Board® Cladding System consists of closed cell orange Expanded Polystyrene (EPS) M Grade panels System panels 2500mm x 1200mm or 5000mm x 1200mm and thickness of 75mm or 100mm.

Other Orange Board® Cladding System Components:

AUSBLOX Orange Board® Dry Mix Render	Cement based, polymer modified render containing washed and graded medium silica sand, acrylic powder and proprietary additives		
AUSBLOX Orange Board® Primer/Sealer	Applied to AUSBLOX Orange Board® Dry Mix Render		
AUSBLOX Orange Board® Bosman PU adhesive	Applied between AUSBLOX Orange Board® joints		
Aluminium Beading	Applied to corners and exposed edges		
Aluminium Starter Channels	Including drainage weep holes		
Tyvek® Wall Wrap	Flexible sarking membrane (wall wrap) materials to comply with AS/NZS 4200.1:2017, classified as a Water Barrier and achieve a Flammability Index of "Low" or < 5 (when tested to AS 1530.2-1993)		
AUSBLOX Orange Board® Mesh	Alkali resistant 160gm/m ² (5mm x 5mm) woven fibreglass mesh		
Sika® Multiseal	Sealant		
Tyvek® Flashing Tape	Flashing Tape		
Screw (75mm Panel)	Timber Frame - 10G x 105mm CSK Head Coarse Ribbed Class 3/4	Steel Frame - 10G x 90mm Wing Tek Class 3/4	
Screw (100mm Panel)	Timber Frame - 10G x 125mm CSK Head Coarse Ribbed Class 3/4	Steel Frame - 10G x 115mm Wing Tek Class 3/4	
Washer	40mm dia. plastic AUSBLOX Orange Board Washer		

A3 Product specification

Stud & Fastener Spacing – AS/NZS 4055:2006

Structure

Wind Category	Non-Cyclonic Regions (A&B)						Cyclonic Regions (C&D)			
	N1	N2	N3	N4	N5	N6	C1	C2	C3	C4
Panel Thickness	75mm or 100mm						75mm or 100mm			
Stud Spacing	450 or 600mm				450mm		300mm		300mm	
Fastener Spacing	300mm (150mm at perimeter off wall)	300mm (150mm at perimeter off wall)	300mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)	200mm (150mm at perimeter off wall)
Number of Fasteners	12	12	12	18	18	18	18	18	18	18

Source: Clarkson Consulting Services Pty Ltd; Report 210716_R2.0; AUSBLOX Orange Board Compliance Report; Dated 16/07/2021.

Bushfire

Testing has been conducted in accordance with AS 1530.8.1:2007 and achieved a **BAL-29** rating.

Source: Exova Warringtonfire; Report 2715300.1; Bushfire resistance test of an external wall system in accordance with AS 1530.8.1:2007; Dated 31/07/2012.

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Thermal	Total R Value of Orange Board® Cladding System - Direct Fix		
	Panel Thickness (mm)	Total R Value Summer (m ² K/W)	Total R Value Winter (m ² K/W)
	75	2.48	2.61
	100	3.17	3.32

Source: James Fricker Pty Ltd; R value calculation report i336a to AS/NZS 4859 Parts 1 & 2:2018; Dated 21/05/2019.

Weatherproofing Testing has been conducted in accordance with AS/NZS 4284:2008 as a Direct Fixed System. Nominated serviceability limit state pressure +5500 Pa and -7200 Pa.

Source: I VIPAC; Report 30B-11-0103-TRP-598049-0; Direct Fixed to AS/NZS 4284:2008, dated 20 May 2011.

A4 Manufacturer and manufacturing plant(s)

This field is voluntary. Contact Certificate Holder for details.

A5 Installation requirements

The Orange Board® Cladding System must be installed in accordance with the [AUSBLOX Orange Board® Technical Data Manual Rev 1](#).

A6 Other relevant technical data

No other relevant technical data.

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 Provision A5.2(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.

B2 Reports

1. Clarkson Consulting Services Pty Ltd; Report 210716_R2.0; AUSBLOX Orange Board Compliance Report; Dated 16/07/2021.
2. James Fricker Pty Ltd; R value calculation report i336a to AS/NZS 4859 Parts 1 & 2:2018; Dated 21/05/2019.
3. Exova Warringtonfire; Report 2715300.1; Bushfire resistance test of an external wall system in accordance with AS 1530.8.1:2007; Dated 31/07/2012.
4. VIPAC; Report 30B-12-0118-TRP-332220-2 to AS 4040.2:1992; Dated 14/05/2013.
5. VIPAC; Report 30B-11-0103-TRP-598261-0 to AS 4040.3:1992; Dated 05/06/2011.
6. VIPAC; Report 30B-11-0103-TRP-598049-0; Direct Fixed to AS/NZS 4284:2008, dated 20 May 2011.

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