

Certificate number: CM40315

Certification Body:


 ABN: 80 111 217 568
 JAS-ANZ Accreditation
 No. Z4450210AK
 PO Box 7144, Sippy
 Downs Qld 4556
 +61 (07) 5445 2199
www.CertMark.org

Certificate Holder:



Compliant Building
 Materials
 Australasia Pty Ltd
 ABN: 27 633 942 300
 59 Metrolink Circuit
 Campbellfield VIC 3061
 Ph: (03) 9359 2336
 W: www.cbma.com.au

THIS IS TO CERTIFY THAT

Zerobound External Wall Cladding System

Type and/or use of product:

External Wall Cladding System for Zero Allotment and non-sequential developments of adjacent buildings.

Description of product:

Zerobound External Wall Cladding System incorporates a Magnesium Oxide Board and proprietary components outlined in 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(b)(iii)	Structural stability and resistance
		P2.2.2	Weatherproofing
		P2.2.3	Rising damp
Deemed-to-Satisfy Provision(s):	Not Applicable	3.7.1.1	Non-combustible materials – Limited to the Zerobound panel
		3.7.2.4(b)	Construction of external wall – FRL 60/60/60
		3.12.1.4	Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building. Refer A3
State or territory variation(s):	Not Applicable	Part 3.12 (NSW, NT, 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:

- For compliance with P2.2.2 and P2.2.3, a damp proof course must be installed as referenced in the [Zerobound Zero Allotment Boundary Wall Installation Guide Version 4.0](#) (Page 6 – Termite and Moisture management).
- P2.1.1(b)(iii) Wind Actions are limited to N1, N2 and N3 only and excludes resistance to impact loading from windborne debris.
- This certificate is limited to the details within this certificate, including the above compliance elements, product description, purpose or use.

Building classification/s:

Class 1 & 10


 Richard Donarski - CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 14/10/2020

Date of expiry: 14/10/2023



Certificate of Conformity

4. The structural certification is limited to the cladding only and does not include the sub-structure. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
5. 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.
6. This Certificate of Conformity does not address State or Territory requirements for the provision or otherwise of maintenance free construction relative to boundary clearances.
7. The selection and use of fasteners must be in accordance with the nominated fasteners in section A2 as per the tested system without substitution.
8. A pliable building membrane complying with AS/NZS 4200.1:2017 must be installed in accordance with AS/NZS 4200.2:2017 to separate the wall cladding panels from any water sensitive materials as per the requirements of part 3.8.7 of BCA Volume 2.
9. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the scope of this certification.
10. 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. This may result in the product being classified as a non-conforming building product.

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

Zerobound External Wall Cladding System incorporates:

- Internal lining as per specification by others (plasterboard minimum of 10mm thickness).
- 90x45 MGP10 or KD Hardwood Stud Framing as per AS1684 – ‘Residential timber framed construction’.
- R2.5 or 2.7 x 90mm glass wool insulation in the framing cavity.
- Approved wall wrap.
- Zerobound Panel 14mm total thickness laminated together with a shiplap edge.
- 8Gx40mm Class 3 (Galvanised) screws on the perimeter of wall and studs to attached the Zerobound Panel to frame at 300mm spacings.
- 8Gx20mm Class 3 (Galvanised) screws on the Zerobound joints at 150mm spacing.
- Firesound sealant bead in all joints and edges.

A3 Product specification

Fire Resistance Levels: The Zerobound External Wall Cladding System as detailed in [Zerobound Zero Allotment Boundary Wall Installation Guide Version 4.0](#), achieves an FRL of 60/60/60.
Source: Warringtonfire Australia Pty Ltd Report No. FAS180463.1, determination of FRL in accordance with AS 1530.4-2014 dated 15/02/2019.

Thermal Performance: Zerobound External Wall Cladding System contributes to the overall energy efficiency of the building as indicated by the Thermal Calculations tabled below.

	Overall Total R-value R _T (m ² .K/W)	
	Winter	Summer
14mm Zerobound Panel, Breathable Wall Wrap, R2.5 Glasswool Batt Insulation (90mm, R2.5), 10mm Plasterboard lining	2.3	2.2
14mm Zerobound Panel, Breathable Wall Wrap, R2.7 Glasswool Batt Insulation (90mm, R2.7), 10mm Plasterboard lining	2.4	2.4

Notes:

- Wall outer and inner surfaces are determined as the relevant isothermal planes without immediate thermal bridging paths.
 - Calculations based upon AS/NZS 4859 Parts 1 & 2:2018, Thermal insulation materials for buildings incorporating the effects of thermal bridging.
 - AIRAH Technical Handbook, Edition 5 2013, pp. 62-73 – Thermal Properties of Building and insulating Material.
- Test Reports(s) from an Accredited Testing Laboratory for Material R-value and emittance of IR Reflective Surfaces where applicable.
- Elements of construction varying from that described may, as a result, produce a difference thermal resistance.

Source: Acronem Consulting Australia Pty Ltd, Report ACA-190716 dated 29/04/2020 (Wall Calculations W200417a and W200417b dated 23/04/2020).

A4 Manufacturer and manufacturing plant(s)

This filed in voluntary. Contact Certificate Holder for details.

A5 Installation requirements

Installation of Zerobound External Wall Cladding System must be in accordance with [Zerobound Zero Allotment Boundary Wall Installation Guide Version 4.0](#).

A6 Other relevant technical data

Acoustic Performance

The Zerobound Boundary wall system below achieved the following results: $R_w (C; C_{tr}) = 43 (-4; -9)$ dB

- 90 x 45 mm timber frame construction, with
- 14 mm Zerobound cladding on exterior face, with
- 13mm CSR Soundchek plasterboard on interior face, and
- 90 mm thick Bradford Gold R2.5 batts in the wall cavities.

Source: CSIRO; Report No. TL629-03-1 dated 08/11/2017.

Asbestos

Testing conducted by Sharp and Howells Pty Ltd in accordance to identify the presence of asbestos determine there was **No Asbestos Detected**.

Source: Sharp and Howell, Test Report 20-0063B dated 24/03/2020.

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. Thermal Provisions A5.2(1)(e). Reports from a professional engineer.
3. Structural 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. Acronem Consulting Australia Pty Ltd, Report ACA-190716; External Wall System NCC 2019 BCA Vol 2 Appraisal; Dated 29/04/2020.
2. Acronem Consulting Australia Pty Ltd, NCC Weatherproofing Performance of an External Wall System; Letter dated 20/05/2019.
3. CSIRO; NATA Accreditation No. 165; Report No. FCO-3201; Fire Performance to AS1530.1-1994; Dated 27/07/2016.
4. Ian Bennie & Associates; NATA Accreditation No. 2371; Report No. 2018-047-S5; Zerobound External Wall System 14mm panel; Dated 19/05/2019.
5. Ian Bennie & Associates; NATA Accreditation No. 2371; Report No. 2018-047-S8; Zerobound External Wall System 14mm Direct Fixed; Dated 29/06/2019.
6. Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Report No. FAS180463.1; Fire testing to AS 1530.4-2014 – Determination of FRL; Dated 15/02/2019.

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