



# Certificate of Conformity

Certificate number: CM40224

**Certification Body:**



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**Certificate Holder:**



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**THIS IS TO CERTIFY THAT**

## Matrix™ Cladding

**Type and/or use of product:**

External cladding on residential and commercial facades.

**Description of product:**

Fibre-cement cladding & cavity trim with decorative expressed vertical and horizontal joints. Refer A2 below for further information.

**COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)**

**BCA 2022**

	Volume One		Volume Two	
<b>Performance Requirement(s):</b>	B1P1(2)(a)&(c)	Structural reliability – Permanent and wind actions	H1P1(2)(a)&(c)	Structural reliability – Permanent and wind actions
	F3P1	Weatherproofing - External walls subject to Limitation and Condition No. 2.	H2P2	Weatherproofing – External walls subject to Limitation and Condition No. 2.
<b>Deemed-to-Satisfy Provision(s):</b>	C2D10(6)(d)	Non-combustible materials	H1D7(4)(b)	Wall cladding – Fibre cement
	G5D3	Construction in bushfire prone areas (BAL Low-29)	H3D2(1)(d)	Non-combustible building elements
			H7D4	Construction in bushfire prone areas (BAL Low-29)
<b>State or territory variation(s):</b>	G5D3 (NSW), G5D5 (SA)		H7D4 (NSW, QLD & SA)	

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

**Limitations and conditions:**

- Matrix™ Cladding must be installed in accordance with the [Matrix™ Cladding Installation Guide June 2023](#).
- To satisfy F3P1 & H2P2 via verification requires the site specific evaluation of the relevant design against F3V1 and/or H2V1 to the satisfaction of the Appropriate Authority as defined by the NCC:
  - (a)(i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table F3V1a/H2V1a; and
  - (a)(ii) is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
  - (a)(iii) includes 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.

**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:** 07/06/2023

**Date of expiry:** 20/08/2024



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3. In all installations the minimum clearance between the underside of panel and the adjoining ground surface level below must comply with the specifications in Part 7.5.7 of the ABCB Housing Provisions.
4. No assessment has been undertaken on the product for Part F8 of Vol 1 or Part 10.8 of the ABCB Housing Provisions for Condensation management. 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.
5. Compliance with B1P1(2)(c) & H1P1(2)(c) excludes resistance to impact loading from windborne debris.
6. Matrix™ Cladding must be fixed to a structurally adequate external wall frame in accordance with the appropriate tables in section A5.
7. Matrix™ Cladding complies with H1D7(4)(b) as cladding that satisfies the following sections of Part 7.5 of the ABCB Housing Provisions:
  - 7.5.3(a) for wall cladding boards; and
  - 7.5.4(1)(a) for sheet wall cladding; and
  - 7.5.5(a) for eaves and soffit linings.
8. 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.
9. In order to maintain compliance with BAL – 29, it is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959-2018.
10. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
11. 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.
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](http://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, CMI Certification Pty Ltd (CMI) 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.



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## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

As per page 1.

### A2 Description of product

The Matrix™ Cladding consists of pre-sealed Matrix™ panels and Cavity Trim.

### Matrix™ Cladding Product Size

Product	Length (mm)	Width (mm)	Thickness (mm)	Mass (kg)	Product Code
	1100	1190	8	18	403811
Matrix™ Cladding Panel	2390	590	8	18	403810
	2990	1190	8	45	404169
Cavity Trim	2450	70	19	3.4	403840

Note: All dimensions and masses are approximate and subject to manufacturing tolerances.

### A3 Product specification

<b>Material</b>	The basic composition is Portland cement, ground sand, cellulose fibre and water. James Hardie building products are manufactured to Australian/New Zealand Standard AS/NZS 2908.2:2000 'Cellulose-cement products-Flat sheet'. Matrix™ Cladding panels are classified Type A, Category 3 in accordance with AS/NZS 2908.2:2000 (R2020).			
<b>Resistance to fire</b>	Matrix™ Cladding is suitable where non-combustible materials are required in accordance with C1.9 of the Building Code of Australia.			
<b>Physical Property</b>		Saturated Condition	Equilibrium Condition 23°C – 50% RH	Standard
	Minimum Bending Strength	>7.0 Mpa		AS/NZS 2908.2:2000
	Category	3		
	Type	A		
	Average Density in kg/m <sup>3</sup> (Oven Dry)	1285		AS/NZS 2908.2:2000
	Watertightness	Watertightness Passes AS/NZS 2908.2:2000	Passes	AS/NZS 2908.2:2000
	Dimensional Conformance		Passes	AS/NZS 2908.2:2000
	Heat-Rain Durability			
	Warm Water Resistance		Passes	AS/NZS 2908.2:2000
	Freeze-Thaw Resistance			
	Combustibility	Suitable where non-combustible materials are required in accordance with C1.9(e)(iv) of the BCA		Deemed to comply with BCA

## Weatherproofing Matrix™ Cladding – Cavity Fix

Testing was conducted in accordance with the Verification Method FV1. Current against 2022 Verification Method F3V1 ‘Weatherproofing’ (Volume 1) and H2V1 ‘Weatherproofing’ (Volume 2) test procedure as contained within Building Code of Australia.

### Results

Test Type	Criteria	Result
Structural Test	100% Serviceability Limit State Pressure of 1.51kPa for 1 minute in both positive and negative directions.	Pass
Static Water Penetration	30% Serviceability Limit State Pressure 455Pa for 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass
Series 1 Cyclic Water Penetration	Cyclic @ 30-60% SLS 455 to 910Pa - Duration: 5 minutes Pass Criteria: No presence of water on the building wrap.	Pass
Series 2 Water Management Test	Cyclic @ 30-60% SLS 455Pa for 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass
Series 2 Water Management Test	Cyclic @ 30-60% SLS 455 to 910Pa - Duration: 5 minutes Pass Criteria: No presence of water on the building wrap.	Pass
Series 3 “Wetwall Test”	Static pressure of 50Pa Duration: 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass

*Source: Test Report No. TS009-18; NCC compliance report; Dated 27/04/2018.*

### A4 Manufacturer and manufacturing plant(s)

Matrix™ Cladding Panels are manufactured in Australia by James Hardie Australia Pty Ltd. Contact Certificate Holder for details.

### A5 Installation requirements

Matrix™ Cladding must only be installed in accordance with the [Matrix™ Cladding Installation Guide June 2023](#).

A suitable weather barrier must be installed behind Matrix™ Cladding in accordance with the relevant requirements of the BCA and the AS/NZS 4200.2:2017 ‘Pliable building membranes and underlays – Installation. James Hardie recommends HardieWrap™ Weather Barrier – refer to the building designer, certifier, or other relevant expert, for suitability.

Refer to the [Matrix™ Cladding Installation Guide June 2023](#) for Stud Spacings and fixing requirements.

## A6 Other relevant technical data

<b>Thermal</b>	The Matrix™ Cladding panels will contribute to the overall thermal performance of the building; however, it is the responsibility of the building designer to ensure the minimum thermal requirements for the building envelope is achieved.
<b>Resistance to fire</b>	Testing has been conducted by CSIRO on the James Hardie Cladding materials in accordance with AS/NZS 3837:1998 and are classified as conforming to Group 1 material. (Average Specific Extinction Area 17.7m <sup>2</sup> /Kg).

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Fire Safety Provisions A5G3(1)(e). A report from a professional engineer.
2. Structural Resistance Provisions A5G3(1)(e). Certificates and Reports from a professional engineer.
3. Weatherproofing Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.

### B2 Reports

1. Cardno Pty Ltd; Report 605270-LO-11; Certification of Matrix™ fastener and span tables; Dated 18/07/2006.
2. David Beneke Consulting; Report 2019-12-LO-14; Structural compliance of James Hardie Fibre Cement Cladding Systems; Dated 27/05/2020.
3. Ignis solutions; Evaluation No. IGNS-6090-01 Issue 01 Revision 00[2018]; Bushfire compliance BAL Low to 40; Dated 31/03/2018.
4. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Test Report Number TS032-12; Testing in accordance with AS/NZS 2908.2:2000 Products Part 2: Flat Sheets; Dated 10/02/2021.
5. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Weatherproofing Report TS009-18 & TS004-16; NCC compliance report; Dated 27/04/2018 & 07/01/2017 respectively.

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