



# Certificate of Conformity

Certificate number: CM40223 Rev3

**Certification Body:**



ABN: 81 663 250 815  
JAS-ANZ Accreditation  
No. Z4450210AK  
PO Box 273,  
Palmwoods Qld 4555  
Australia  
P: +61 7 5445 2199  
[www.cmicert.com.au](http://www.cmicert.com.au)  
[office@cmicert.com.au](mailto:office@cmicert.com.au)

**Certificate Holder:**



James Hardie Australia  
Pty Ltd  
ABN: 12 084 635 558  
10 Colquhoun St,  
Rosehill NSW 2142  
Australia  
P: 13 11 03  
[www.jameshardie.com.au](http://www.jameshardie.com.au)

**THIS IS TO CERTIFY THAT**

## Hardie™ Oblique™ & Stria™ Cladding

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

External cladding on residential and commercial facades.

**Description of product:**

Hardie™ Oblique™ & Stria™ Cladding are fibre-cement wall cladding boards featuring shiplap joints that can be installed in a horizontal or vertical orientation.

**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 <i>Limitation and Condition No. 2.</i>	H2P2 Weatherproofing – External walls subject to Limitation and Condition No. 2.
	G5P1 Construction in bushfire prone areas (BAL Low-40)	H7P5 Construction in bushfire prone areas (BAL Low-40)
<b>Deemed-to-Satisfy Provision(s):</b>	C2D10(6)(d) Non-combustible building elements – Fibre-reinforced cement sheeting – Panel Only	H1D7(4)(b) Wall cladding – Fibre cement
		H3D2(1)(d) Non-combustible building elements – Fibre-reinforced cement sheeting – Panel Only
<b>State or territory variation(s):</b>	G5P1 NSW, QLD, TAS & VIC	H7P5 TAS

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

**Limitations and conditions:**

- Hardie™ Oblique™ & Stria™ Cladding Horizontal and Vertical must be installed in accordance with the [Hardie™ Oblique™ & Stria™ Cladding Installation Guide October 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.

**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:** 02/11/2023

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



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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.
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. Hardie™ Oblique™ & Stria™ Cladding boards must be fixed to a structurally adequate external wall frame in accordance with the appropriate tables in section A5.
  7. Hardie™ Oblique™ & Stria™ Cladding boards comply with H1D7(4)(b) as cladding that satisfies the following sections of Part 7.5 of the ABCB Housing Provisions:
    - a. 7.5.3(a) for wall cladding boards.
  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 Low – 40, 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.

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

Hardie™ Oblique™ and Stria™ Cladding are installed in a horizontal or vertical orientation.

### A2 Description of product

Hardie™ Oblique™ Cladding	Description	Product Code	Length (mm)	Width (mm)	Mass (kg)
<small>Note: All dimensions and masses are approximate and subject to manufacturing tolerances</small>	Factory sealed 14mm profile featuring a unique bevel groove profile.	405300	2750	200	9.5
		405302	2750	300	14.5
		405301	4200	200	14.6
		405303	4200	300	22.1
Stria™ Cladding	Description	Product Code	Length (mm)	Width (mm)	Mass (kg)
<small>Note: All dimensions and masses are approximate and subject to manufacturing tolerances</small>	Pre-primed 14mm weatherboard that features a deep square groove and wider profile.	<b>Stria™ Standard</b> 404063	4200	325	26
		<b>Stria™ Wide</b> 404413	4200	405	33

### Physical Property

	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)	1150		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			
Soak-Dry			
Combustibility	Suitable where non-combustible materials are required in accordance with C1.9(e)(iv) of the BCA		Deemed to comply with BCA

**Material** 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'. Hardie™ Oblique™ & Stria™ Cladding panels are classified Type A, Category 3 in accordance with AS/NZS 2908.2:2000.

## A3 Product specification

**Non-Combustibility** Hardie™ Oblique™ & Stria™ Cladding panels are suitable where non-combustible materials are required in accordance with as it compliance with C2D10(6)(d) and H3D2(1)(d) of the Building Code of Australia as fibre-reinforced cement sheeting that complies with AS/NZS 2908.2:2000. Non-combustible does not extend to include the joiners for the purpose of C2D10.

**Weatherproofing** Results tabled below of the weathertightness testing of the Hardie™ Oblique™ & Stria™ Cladding have been confirmed to current against 2022 Verification Method F3V1 'Weatherproofing' (Volume 1) and H2V1 'Weatherproofing' (Volume 2) test procedure as contained within Building Code of Australia.

### Horizontal Cladding Orientation – Fixed Direct-to-Frame

Test Type	Criteria	Result
Structural Test	100% Serviceability Limit State Pressure of 1.515 kPa 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 inside surface of the façade.	Pass
Cyclic Water Penetration	Cyclic @ 15-30% SLS – 227 to 455 Pa	Duration: 5 minutes
	Cyclic @ 20-40% SLS – 303 to 606 Pa	Duration: 5 minutes
	Cyclic @ 30-60% SLS – 455 to 910 Pa	Duration: 5 minutes
	Pass Criteria: No presence of water on the inside surface of the facade.	

**Source:** Test Report No. TS011-18, Weathertightness – Stria™ Fibre Cement Cladding Direct Fix dated 1 May 2018.

### Horizontal Cladding Orientation – Fixed on Cavity Battens or timber battens

Test Type	Criteria	Result
Structural Test	100% Serviceability Limit State Pressure of 1.515 kPa for 1 minute in both positive and negative directions.	Pass
Series 1	455 Pa for 15 minutes	Pass
Static Water Penetration	Pass Criteria: No presence of water on the building wrap.	No leak observed
Series 1	Cyclic @ 455 to 910 Pa Duration 5 minutes	Pass
Cyclic Water Penetration	Pass Criteria: No presence of water on the building wrap	No leak observed
Series 2	455 Pa for 15 minutes	Pass
Water Management Test	Pass Criteria: No presence of water on the building wrap.	No leak observed
Series 2	Cyclic @ 455 to 910 Pa Duration 5 minutes	Pass
Water Management Test	Pass Criteria: No presence of water on the building wrap	No leak observed
Series 3 "Wetwall Test"	Static pressure of 50Pa Duration: 15 minutes Pass Criteria: No presence of water on the building wrap	Pass Water bubbling in through defects and running down the back of the cladding sheets, but not reaching the timber frame, nor building wrap.

**Source:** Test Report No. TS003-13, Weathertightness – Horizontal Cladding Orientation – Fixed on Cavity Battens dated 04/12/2013.

## Vertical Cladding Orientation – Fixed on Castellated Battens

Test Type	Criteria	Result
Structural Test	100% Serviceability Limit State Pressure of 1.515 kPa for 1 minute in both positive and negative directions.	Pass
Series 1 Static Water Penetration	30% Serviceability Limit State Pressure 460Pa for 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass No leak observed
Series 1 Cyclic Water Penetration	Cyclic @ 30-60% SLS – 460 to 920 Pa Duration 5 minutes Pass Criteria: No presence of water on the building wrap	Pass No leak observed
Series 2 Water Management Test ( Static Pressure)	30% Serviceability Limit State Pressure 460Pa for 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass No leak observed
Series 2 Water Management Test (Cyclic Pressure)	Cyclic @ 30-60% SLS – 460 to 920 Pa Duration 5 minutes Pass Criteria: No presence of water on the building wrap	Pass No leak observed
Series 3 “Wetwall Test” (Static Pressure)	Static pressure of 50Pa Duration: 15 minutes Pass Criteria: No presence of water on the building wrap	Pass No leak observed

*Source: Test Report No. TS003-22, Weathertightness – Vertical Cladding Orientation – Fixed on Castellated Battens dated 15/09/2022.*

### Bushfire

The Hardie™ Oblique™ & Stria™ cladding panels 14mm in thickness and has been deemed to comply with AS 3959-2018 and can be used in areas BAL – 40. An assessment of the Hardie™ Oblique™ & Stria™ cladding panels using the Hardie™ 18mm PVC Cavity Vent Strip 3000mm has been completed by Ignis Labs Pty Ltd. The PVC Cavity Vent Strip has been assessed and is considered suitable for use and have the ability to satisfy the requirements of AS 3959:2018 and maintain compliance with BAL – 40 areas.

*Source: Ignis Labs Pty Ltd Report No. IGNU-6249-16-01 I02R05 BBV3.0 JH Bushfire 05102023 dated 05/10/2023.*

### A4 Manufacturer and manufacturing plant(s)

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

### A5 Installation requirements

Hardie™ Oblique™ & Stria™ Cladding must be installed in accordance with the [Hardie™ Oblique™ & Stria™ Cladding Installation Guide October 2023](#). Refer to the appropriate tables for the Stud Spacings and fixing requirements for installation.

When installing horizontally, this can be done over a timber or steel frame and either direct fixed to frame or to Hardie™ Cavity Battens or timber battens. When installing in a vertical orientation, this must be only done over timber frames and using the Hardie™ Castellated Battens.

A suitable weather barrier must be installed behind Hardie™ Oblique™ & Stria™ 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 Hardie™ Weather Barrier – refer to the building designer, certifier, or other relevant expert, for suitability.

## A6 Other relevant technical data

When installing Hardie™ Oblique™ & Stria™ Cladding in combination with other CodeMark certified Hardie™ Cladding Products, refer to the [Hardie™ Architectural Collection Joints and Junctions Application Guide](#). The construction drawings presented on the Application Guide have been reviewed, based on the requirements of NCC 2022 Vol 1 and 2 as described on the 080920230905 – JHR Advisory Note – HAC Opinion Based Upon Tested Prototype Compliance Note V1.1. Compliance to Weatherproofing provision is subject to Limitation and Conditions No. 2 as outlined on this Certificate of Conformity.

<b>Thermal</b>	Hardie™ Oblique™ & Stria™ 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 Hardie™ Cladding materials in accordance with AS/NZS 3837:1998 and are classified as conforming to Group 1 material. (Average Specific Extinction Area 9.3m <sup>2</sup> /Kg). For further details, contact the Certificate Holder.  <i>Source: CSIRO Testing certificate in accordance with AS/NZS 3837:1998 dated 28/08/2008</i>

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Ancillary Provisions A5G3(1)(e). Reports from a professional engineer.
2. Fire Safety Provision A5G3(1)(d) & (e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Structural Provision A5G3(1)(e). Reports from a professional engineer.
4. Weatherproofing Provisions A5G3(1)(d). Reports from Accredited Testing Laboratories.

### B2 Reports

1. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Test Report Number TS022-10; Testing in accordance with AS/NZS 2908.2:2000 Products Part 2: Flat Sheets; Dated 19/10/2022. Report confirms the fibre-reinforced cement sheeting complies with AS/NZS 2908.2:2000 and meets the requirements for C2D10(6)(d), H1D7(4)(b) and H3D2(1)(d).
2. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Test Report Number TS011-18; Weathertightness compliance report; Dated 01/05/2018. Report confirms compliance with F3P1 and H2P2
3. James Hardie Research Pty Ltd, NATA Accreditation No. 14220; Test Report Number TS003-22; Cavity Fix Weathertightness; Dated 15/09/2022. Report confirms compliance with F3P1 and H2P2
4. James Hardie Research Pty Ltd, NATA Accreditation No. 14220; Test Report Number TS003-13; Cavity Fix Weathertightness; Dated 04/12/2013. Report confirms compliance with F3P1 and H2P2
5. James Hardie Research Pty Ltd, NATA Accreditation No.14220; James Hardie Advice Note - Compliance Notification of Stria™ Horizontal and Vertical Fixing Installation (Direct to Frame, and Cavity Installation); Dated 27/10/2022. Report confirms compliance of installation of Hardie™ Stria™ with F3P1 and H2P2.
6. Ignis Labs Pty Ltd Report No. IGNU-6249-16-01 I02R05 BBV3.0 JH Bushfire 05102023; Compliance with AS 3959-2009 BAL Low-40; Dated 05/10/2023. Report confirms BAL – 40 the use of Hardie™ 18mm PVC Cavity Vent Strip with Hardie™ Oblique™ & Stria™ Cladding complies with G5P1 and H7P5.
7. Stantec Australia Pty Ltd; Reference No. 304000276; Structural Certification of James Hardie 14mm Oblique™ & Stria™ Weatherboards dated 27/10/2022. Report provide compliance with B1P1(2)(a)&(c) and H1P1(2)(a)&(c).

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