Certificate of Conformity

Certification Body:

CMI CERTIFICATION
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Certificate Holder:

James Hardie Australia Pty Ltd
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Certificate number: CM40223 Rev1

THIS IS TO CERTIFY THAT

Hardie™ Oblique™ Cladding

Type and/or use of product:

External cladding on residential and commercial facades.

Description of product:

Hardie™ Oblique™ Cladding is a fibre-cement wall cladding board 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	
Performance Requirement(s):	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.
Deemed-to-Satisfy Provision(s):	G5P1	Construction in bushfire prone areas (BAL Low-40)	H7P5	Construction in bushfire prone areas (BAL Low-40)
	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
State or territory variation(s):	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:

1. Hardie™ Oblique™ Cladding must be installed in accordance with the appropriate guide based on the orientation.
   a. Horizontal application – Hardie Oblique Cladding Installation Guide Horizontal Apr25.
   b. Vertical application – Hardie Oblique Cladding Installation Guide Vertical Apr25.
2. 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. 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
   b. is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
   c. includes only windows that comply with AS 2047.

Building classification/s:

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

Glen Gugliotti – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 04/04/2025

Date of expiry: 20/08/2027

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™ Cladding boards must be fixed to a structurally adequate external wall frame in accordance with the appropriate tables in section A5.
7. Hardie™ Oblique™ 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. 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™ Cladding can be installed in either a horizontal or vertical orientation.

A2 Description of product

Hardie™ Oblique™ Cladding	Description	Product Code	Length (mm)	Width (mm)	Weight (kg/m²)*
Note: All dimensions and masses are approximate and subject to manufacturing tolerances	Pre-sealed 14mm thick shiplap boards with unique square and angled groove edges to cast shadows and deliver highlights	405502	3000	200	18.4
		405503	3000	300	18.8
		405301	4200	200	14.6
		405303	4200	300	22.1

* Includes the product weight only, taking into account effective coverage. This excludes fasteners, sealants and other accessories.

Physical Property		Saturated Condition	Equilibrium Condition 23ºC – 50% RH		Standard
	Minimum Bending Strength	>7.0 MPa			AS/NZS 2908.2:2000
	Category	3			
	Type	A			
	Average Density in kg/m³ (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	Passes			AS/NZS 2908.2:2000
	Warm Water Resistance				
	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

A3 Product specification

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™ Cladding panels are classified Type A, Category 3 in accordance with AS/NZS 2908.2:2000.
Non-Combustibility	Hardie™ Oblique™ 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.
Bushfire	The Hardie™ Oblique™ 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™ 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. IGNL-6249-16-01 I02R05 BBV3.0 JH Bushfire 05102023 dated 05/10/2023.*

Vertical Installation Fixings

Face Fixing - Stud and Batten Spacing and Fastener Requirement.

AS 4055-2012 Wind Classification	Studs and Hardie™ Structural Batten Maximum Spacing (mm)				Number of fasteners required per fixing point - Cladding to Batten					
	Studs		Hardie™ Structural Battens		50x2.50mm Ring Shank Gun Nails		ND 50mm Stainless Steel Brad Nails		Paslode 50x2.87mm DekFast Nails	
	General	Edges	General	Edges	300mm Hardie™ Oblique™ Cladding	200mm Hardie™ Oblique™ Cladding	300mm Hardie™ Oblique™ Cladding	200mm Hardie™ Oblique™ Cladding	300mm Hardie™ Oblique™ Cladding	200mm Hardie™ Oblique™ Cladding
N1	600	600	900	900	1	1	2	2	1	1
N2	600	600	900	900	1	1	2	2	1	1
N3/C1	600	600	900	900	2	1	3	2	1	1
N4/C2	600	450 (600)	900	900 (600)	2	2 (1)	(3)	(2)	2	1
N5/C3	600	450	900	600	2	2			2	1
N6/C4	450 (600)	450	900 (600)	450	2	2			2	1

All values in brackets must be used together, including adherence to the number of fasteners required per fixing point.

Concealed Fixing - Stud and Batten Spacing and Fastener Requirements.

AS 4055-2012 Wind Classification	Studs and Hardie™ Structural Batten Maximum Spacing (mm)				Number of fasteners required per fixing point - Cladding to Batten*			
	Studs		Hardie™ Structural Battens		40x2.80mm Fibre Cement Nail		50x2.50mm Ring-Shank Coil Nail or Paslode 45x2.50mm Ring-Shank Nail	
	General	Edges†	General	Edges†	300mm Hardie™ Oblique™ Cladding	200mm Hardie™ Oblique™ Cladding	300mm Hardie™ Oblique™ Cladding	200mm Hardie™ Oblique™ Cladding
N1, N2	600	600	600	600	1	1	1	1
N3/C1	600	600	600	600	1	1		

† Edge areas refers to walls at external corners of the house within 1200mm of the corner.
* End planks around corners and jambs must be additionally face-fixed with a 50mm ND brad nail every 600mm centres. If no concealed fixing at the underlap, face-fix using two brad nails every 600mm centres

Horizontal Installation Fixings

Horizontal Hardie™ Oblique™ Cladding Fixing Options.

AS 4055-2012 Wind Classification	Fasteners Details				Max. Stud Spacing (mm)	
	Direct Fix	Cavity Fix (70x35mm Timber Battens)	Cavity Fix (Hardie™ Structural Battens)	Configuration	General areas of walls	Within 1200mm of building edges
Concealed Fixing Option						
N1,N2	40 x 2.8mm Fibre Cement Nail or 50 x 2.5mm Coil Ring Shank Nail* or Paslode 45 x 2.5 Coil Ring Shank		25 x 2.8mm Clout Nail	1 per board in underlap	600	600 450 (For steel frame)
N3, C1	50 x 2.5mm Coil Ring Shank Nail* or Paslode 45 x 2.5 Coil Ring Shank		Paslode 27 x 2.5 Coil Ring Shank	1 per board in underlap	600	450
N3, C1	40 x 2.8mm Fibre Cement Nail		-	1 per board in underlap	600	600 450 (For steel frame)
Face Fixing Options						
N1,N2,N3, C1	50mm ND or DA Brad Nail		32mm DA Brad Nai	2 per board-through face	600	600
N1,N2,N3, C1	50mm Gun Nail (Ring-Shank)		-	1 per board-through face	600	600
N4,C2	50mm Gun Nail (Ring-Shank)	-	-	1 per board-through face	600	450
N5,N6, C3, C4			-	2 per board-through face	450	300

*50 x 2.5mm Coil Ring Shank Nails are only suitable for cavity fix when the 70x35mm timber battens are installed on-stud.

NOTES: Fixing Top And Bottom Rows Of Boards

1. For N1, N2, N3 & C1 Bottom and top boards must be fixed with brad nails at 150mm centres or 300mm centres for other fixings.
2. For N4, N5, N6, C3 & C4 top and bottom board must be fixed at 150mm centres.
3. For Concealed Fixing to Cavity Battens in N1, N2, N3 & C1, Bottom and Top boards must be additionally face fixed with either 50mm ND or DA brad nails to timber battens, or 32mm DA brad nails to Hardie™ Cavity Battens.
4. Fixing at every stud. Unless otherwise stated all values are for timber & steel.
5. For both concealed and face fixing, use minimum class 3 fasteners.
   For steel framing thickness of 0.5mm – 1.6mm BMT use 41mm Hardie™ Drive screws. Hardie™ Break Thermal Strip must be installed behind the Stria™ Cladding. Refer to the Hardie™ Break Thermal Strip Installation Guide for more information.

Weatherproofing

Horizontal Cladding Orientation – Fixed Direct-to-Frame

Results tabled below of the weathertightness testing of the Hardie™ Oblique™ 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.

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	Pass
	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: *James Hardie Research Test Report No. TS011-18, Weathertightness – 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 Static Water Penetration	455 Pa for 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass No leak observed
Series 1 Cyclic Water Penetration	Cyclic @ 455 to 910 Pa Duration 5 minutes Pass Criteria: No presence of water on the building wrap	Pass No leak observed
Series 2 Water Management Test	455 Pa for 15 minutes Pass Criteria: No presence of water on the building wrap.	Pass No leak observed
Series 2 Water Management Test	Cyclic @ 455 to 910 Pa Duration 5 minutes Pass Criteria: No presence of water on the building wrap	Pass 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: *James Hardie Research Test Report No. TS003-13, Weathertightness – Horizontal Cladding Orientation – Fixed on Cavity Battens dated 04/12/2013.*

Weatherproofing

Vertical Cladding Orientation – Fixed on Hardie™ Structural Batten

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 - Minimal water on the back of the cladding, managed by structural battens. No moisture on the building wrap.
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 - Minimal water on the back of the cladding, managed by structural battens. No moisture on the building wrap
Series 3 “Wetwall Test” (Statis Pressure)	Static pressure of 50Pa Duration: 15 minutes Pass Criteria: No presence of water on the building wrap	Pass – Water bubbling in through defects & running down the back of the cladding, but not reaching the timber frame, nor building wrap

Source: *Test Report No. TS022-23, Weathertightness – Vertical Cladding Orientation – Fixed on Castellated Battens dated 06/12/2023.*

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

Hardie™ Oblique™ Cladding must be installed in accordance with the appropriate guide based on the orientation. Refer to the appropriate tables for the Stud Spacings and fixing requirements for installation.

- Horizontal application – Hardie Oblique Cladding Installation Guide Horizontal Mar25.
- Vertical application – Hardie Oblique Cladding Installation Guide Vertical Mar25.

When installing horizontally, this can be done over a timber or steel frames or masonry walls 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 or steel frames or masonry walls using the Hardie™ Structural Batten.

A suitable weather barrier must be installed behind Hardie™ Oblique™ & Stria™ Cladding in accordance with the relevant requirements of the BCA and the AS 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™ 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.

Thermal	Hardie™ Oblique™ 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.
Resistance to fire	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^2/Kg). For further details, contact the Certificate Holder. ***Source:*** *CSIRO Testing certificate in accordance with AS/NZS 3837:1998 dated 28/08/2008*

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

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

B2 Reports

1. David Beneke Consulting Pty Ltd; Report No. 2024-24-LO-13; Certification of James Hardie Stria And Oblique Weatherboard Cladding Attached to Structural Castellated Battens – Revision 2; Dated 19/02/2024. Report provide compliance with B1P1(2)(a)&(c) and H1P1(2)(a)&(c).
2. David Beneke Consulting Pty Ltd; Report No. 2024-05-LO-75; Certification of James Hardie Structural Castellated Battens Supporting James Hardie External Cladding Systems – Revision 3; Dated 12/03/2024. Report provide compliance with B1P1(2)(a)&(c) and H1P1(2)(a)&(c).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).
3. 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).
4. 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
5. 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
6. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Test Report Number TS022-23; Weathertightness compliance report, Structural Castellated Batten Installation (Cavity Fix) – Clad with James Hardie™ Oblique Vertical Cladding System; Dated 06/12/2023. Report confirms compliance with F3P1 and H2P2
7. 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.
8. Ignis Labs Pty Ltd Report No. IGNL-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.

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