



Certificate of Conformity

Certificate number: CM40391

Certification Body:



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THIS IS TO CERTIFY THAT

Hardie™ Smart Boundary Wall System

Type and/or use of product:

For use as an external wall in Class 1 and Class 10a buildings with a timber frame where a fire resistance level (FRL) of 60/60/60 or less (from external side) is required.

Description of product:

The Hardie™ Smart Boundary Wall System is comprised of single 90mm timber framed walls, insulated with 60mm Hardie™ Fire insulation to the external lining side of the frames within the stud bays. Walls to be lined with Hardie™ claddings to the external face & Hardie™ internal lining or standard plasterboard to the internal face. Refer A3.

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

BCA 2022

	Volume One	Volume Two
Performance Requirement(s):	Not Applicable	Not Applicable
Deemed-to-Satisfy Provision(s):	Not Applicable	H1D7(4)(b) Roof and wall cladding – Sheet wall cladding H2D6(4) Damp and weatherproofing – Wall cladding H3D2(d) Non-combustible building elements – Fibre-reinforced cement sheeting – Panel Only H3D3 Fire separation of external walls – Subject to Limitation and Condition No. 2 H7D4 Construction in bushfire prone areas – BAL-FZ Subject to Limitation and Condition No. 3 H7D4 (NSW, QLD & SA)
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:

- Hardie™ Smart Boundary Wall System must only to be installed in accordance with the [Design Guide – Hardie™ Smart Boundary Wall System Class 1 & 10a Timber Framed Buildings November 2023](#).

Building classification/s:

Class 1 and 10a

Richard Donarski – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 01/12/2023

Date of expiry: 01/12/2026



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2. Compliance with H1D7(4)(b) and H2D6(4) requires the external cladding to be a minimum of 6mm thick Hardie™ fibre-reinforced cement sheeting or Hardie™ boards with a minimum thickness of 7.5mm. Refer A2 for cladding that can be used for the Hardie™ Smart Boundary Wall System.
3. Compliance with H3D3 is dependent on the system that achieved the FRL outlined in A3. Any deviation from the tested specimen does not form part of this certificate of conformity.
4. Compliance with H7D4 is limited to the Hardie™ Smart Boundary Wall System outlined in A3. The wall systems can be located within 10m of the classified vegetation as set by AS3959:2018 in BAL-FZ. It is the responsibility of the Building Designer to ensure compliance with BAL – FZ of other building elements are achieved in accordance with AS 3959-2018.
5. 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.
6. 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.
7. The structural support members are designed and engineered separately as per project requirements by building designers and engineers. Stud spacing & fixings must be in accordance with Tables 7.5.3a and 7.5.4a of the ABCB Housing Provisions 2022.
8. The timber framing must be in accordance with AS 1684 as applicable.
9. Fire rating requirements of the subfloor, when required by the BCA, must be assessed by the authority having jurisdiction.
10. The footing and slab system is to comply with AS 2870:2011 or AS 3600:2018, as applicable.
11. 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

The Hardie™ Smart Boundary Wall System is intended for use as an external wall in Class 1 and Class 10a buildings. The system is designed for use in timber framed buildings with a fire resistance level (FRL) requirement of 60/60/60 or less (from external side), and also suitable for use where a BAL-FZ is required.

A2 Description of product

The Hardie™ Smart Boundary Wall System is comprised of single 90mm timber framed walls, insulated with 60mm Hardie™ Fire insulation to the external lining side of the frames within the stud bays. Walls to be lined with Hardie™ claddings to the external face & Hardie™ internal lining or standard plasterboard to the internal face.

Hardie™ External Wall Cladding Sheets

Product	Thickness				Install Guide
	6mm	8mm	8.5mm	9mm	
EasyLap™ Panel			✓		Installation Guide – EasyLap™ Panel – Exteriors October 2023
Hardie™ Fine Texture Cladding			✓		Installation Guide – Hardie™ Fine Texture Cladding - Hardie™ Brushed Concrete Cladding – Exteriors October 2023
Hardie™ Brushed Concrete Cladding			✓		
Hardie™ Flex Sheets	✓				Technical Specification – External Cladding April 2023
ExoTec™ Façade Panel				✓	Installation Guide – ExoTec™ Façade Panel and Fixing System – Commercial July 2021
Matrix™ Cladding		✓			Installation Guide – Matrix™ Cladding – Exteriors June 2023
Axon™ Cladding 133 Smooth, 133 Grained, 400 Smooth				✓	Installation Guide – Axon™ Cladding – Exteriors October 2023

Hardie™ External Wall Cladding Boards

Product	Thickness				Install Guide
	7.5mm	9mm	14mm	16mm	
Hardie™ Plank Weatherboard Smooth – 230mm, 300mm Woodgrain – 230mm, 300mm	✓				Technical Specification – External Cladding April 2023
PrimeLine™ Chamfer		✓			
PrimeLine™ Heritage		✓			
PrimeLine™ Newport		✓			
Linea™ Weatherboard – 150mm, 180mm				✓	Installation Guide – Linea™ Weatherboard – Exteriors October 2023
Oblique™ Cladding – 200mm, 300mm			✓		Installation Guide – Hardie™ Oblique™ & Stria™ Cladding Horizontal and Vertical g – Exteriors October 2023
Stria™ Cladding – 325mm, 405mm			✓		

Hardie™ Smart Boundary Wall System Components:

Weather Barrier	Product Code	Length (m)	Width (mm)	Coverage (mm ²)	Mass (kg)
Hardie™ Wrap Weather Barrier	305664	30	2750	38	9
Mineral Insulation	Product Code	Length (m)	Width (mm)	Thick (mm)	Coverage (mm ²)
60mm Hardie™ Fire Insulation	305903	1160	560	60	5.1
	305902	1160	420	60	3.8
	305909	1320	420	60	4.3
Hardie™ Internal Lining	Length (m)	Width (mm)	Thick (mm)	Density (kg/m ²)	
Villaboard™ 6mm Lining	2400	900	6	8.3	
	1800, 2400, 2700, 3000, 3600, 4200	1200	6	8.3	
	2400, 3000, 3600, 4200	1350	6	8.3	
Alternatively, 10mm standard plasterboard can be used in dry areas only as internal lining. The product must comply to the requirements of AS/NZS 2588 - Gypsum Plasterboard.					
Other Components					
Fasteners	Fibre Cement Nail for fixing Villaboard™ lining. 2.8 x 30mm min. Min. Class 3 corrosion resistant fibre cement nail. 2.5 x 50mm gun nails are also suitable.				
Fire and Acoustic-Rated Sealant	Bostik FireBan One or an equivalent sealant it must be tested in accordance with AS 1530.4 and achieve a minimum 60 minute fire rating.				

A3 Product specification

Material The basic composition of Hardie™ products that are listed in Section A2 Description of product is Portland cement, ground sand, cellulose fibre and water. Hardie™ building products are manufactured to Australian/New Zealand Standard AS/NZS 2908.2:2000 'Cellulose-cement products-Flat sheet'. The Hardie™ products listed in the above tables in Section A2 have been classified either Type A or Type B and are classified as Category 3 in accordance with AS/NZS 2908.2:2000. Refer A6 Other relevant technical data for details of classifications.

Damp and weatherproofing Compliance with H2D6(4) is satisfied as the wall cladding complies with H1D7(4) as determined by Part 7.5 of the ABCB Housing Provisions.
Part 7.5.3 of the ABCB Housing Provisions requires fibre-cement wall cladding boards to comply with AS/NZS 2908.2:2000 and be fixed in accordance with Table 7.5.3a.
Part 7.5.4 of the ABCB Housing provisions requires fibre-cement sheet wall cladding to comply with AS/NZS 2908.2:2000 and be fixed in accordance with Table 7.5.4a.

Non-combustible The Hardie™ fibre-reinforced cement sheeting and board products are suitable where non-combustible materials are required in accordance with as it compliance with H3D2(1)(d) of the Building Code of Australia as fibre-reinforced cement sheeting and boards that complies with AS/NZS 2908.2:2000. Non-combustible does not extend to include the joiners.

Fire Resistance (FRLs) Assessment of the Hardie™ Smart Boundary Wall System has determined that the system achieves **FRLs of 60/60/60 and -/60/60**. Exposure from the external side only. Installation must be in accordance with the [Design Guide – Hardie™ Smart Boundary Wall System Class 1 & 10a Timber Framed Buildings November 2023](#).
Source: CSIRO Report No. FCO-3222 Revision L dated 25/05/2021.

Bushfire An assessment of the Hardie™ Smart Boundary Wall System has been completed by Ignis Labs Pty Ltd. AS 3959:2018 allows external wall cladding for BAL FZ provided the system is non-combustible or complies with AS 1530.8.2:2007 or achieves an FRL of at least (30)/30/30 from the outside and set back at least 10m between the building and the edge of the classified vegetation. It is concluded that the subject wall systems have the capacity to conform with AS1530.8.2 and as such, the subject wall systems can be located within 10m of the classified vegetation as set by AS3959:2018 in BAL-FZ.

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



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A4 Manufacturer and manufacturing plant(s)

Hardie™ Smart Boundary Wall System is manufactured in Australia by James Hardie Australia Pty Ltd. Contact Certificate Holder for details.

A5 Installation requirements

Hardie™ Smart Boundary Wall System must only be installed in accordance with the [Design Guide – Hardie™ Smart Boundary Wall System Class 1 & 10a Timber Framed Buildings November 2023](#). The external cladding must be installed in accordance with the relevant installation manual for that cladding. Refer A3 for applicable cladding and the required installation manual.

A6 Other relevant technical data

Product Classification and Category

Product Name	Classification	Sheet Category
Axon™ Cladding	Type A	3
EasyLap™ Panel	Type A	3
Exotec™ Facade Panel	Type A	3
Hardie™ Fine Texture Cladding	Type A	3
Hardie™ Flex Sheet	Type A	3
Hardie™ Groove Lining	Type B	3
Hardie™ Oblique	Type A	3
Hardie™ Plank Weatherboard Smooth	Type A	3
Hardie™ Plank Weatherboard Woodgrain	Type A	3

Product Name	Classification	Sheet Category
Linea™ Oblique Weatherboard	Type A	3
Linea™ Weatherboard	Type A	3
Matrix™ Cladding	Type A	3
PrimeLine™ Chamfer	Type A	3
PrimeLine™ Heritage	Type A	3
PrimeLine™ Newport	Type A	3
Straia™ Cladding	Type A	3
Versilux™ Lining	Type B	3
Villaboard™ Lining	Type B	3

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Construction in bushfire prone areas Provisions A5G3(1)(e). A certificate or report from a professional engineer or other appropriately qualified person.
2. Fire Safety Provisions A5G3(1)(c)&(d). A current certificate issued by a certification body stating the properties fulfil specific requirements of the BCA and a report issued by an Accredited Testing Laboratory.
3. Structural Resistance Provisions A5G3(1)(c). A current certificate issued by a certification body stating the properties fulfil specific requirements of the BCA.
4. Weatherproofing Provisions A5G3(1)(c). A current certificate issued by a certification body stating the properties fulfil specific requirements of the BCA.

B2 Reports

1. CSIRO; NATA Accreditation No. 165; Reference No. FCO-3222 Revision L; The fire resistance performance of various load-bearing timber framed walls lined with various James Hardie fibre cement products; Dated 25/05/2021. Report provides supporting evidence of FRLs in compliance with H3D3.
2. Ignis Labs Pty Ltd Report No. IGNL-6249-16-01 I02R05 BBV3.0 JH Bushfire 05102023; Bushfire Product Evaluation – External Cladding Systems; Dated 05/10/2023. Report confirms the BAL of the Hardie™ Smart Wall Systems that achieve an FRL 60/60/60 that complies with H7D4.
3. SAI Global; StandardsMark Licence Certificate No. SMK02107/1; Manufactured to the requirements of AS/NZS 2908.2:2000 – Cellulose-cement products – Flat sheet; Dated 19/10/2021. This certificate provides evidence in compliance with H1D7(4)(b), H2D6(4) & H3D2(d).
4. SAI Global; StandardsMark Licence Certificate No. SMK02107/2; Manufactured to the requirements of AS/NZS 2908.2:2000 – Cellulose-cement products – Flat sheet; Dated 25/11/2022. This certificate provides evidence in compliance with H1D7(4)(b), H2D6(4) & H3D2(d).

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