

Certificate no: CMNZ30165

Version: A

Original issue date: 15/03/2024

Version date: 15/03/2024

Renewal Date: 15/03/2027

## 1. Certificate Holder Details



**James Hardie New Zealand Limited**

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## 2. Product Certification Body

**Global-Mark Pty Ltd**

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**Complaints:** The complaints process for this certificate can be found here:

www.global-mark.co.nz/complaints

Global-Mark Managing Director.



Herve Michoux

# Product Certificate

## Axon™ Panel Cladding System by James Hardie

### 3. Description of Building Method or Product

Axon™ Panel Cladding System is a cavity-based or direct fixed fibre cement panel wall cladding system.

Axon™ Panel are supplied in various panel surface variations e.g. grooved 133, grooved 400, smooth or textured. The panels are 2450, 2750mm, 3000mm and 3600mm long.

The cladding is finished with a latex paint system.

### 4. Intended use of Building Method or Product

The system is designed to be used as part of an external cladding system on timber framed building

### 5. New Zealand Building Code Provisions

The System if designed, used, installed and maintained in accordance with the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:	Performance B1.3.1, B1.3.2 and B1.3.4, for the relevant physical conditions of B1.3.3 (a), (h), (j) & (q)
Clause B2 DURABILITY:	Performance B2.3.1(b) 15 years and B2.3.2(a)
Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE:	Performance C3.5 and C3.7
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.2, E2.3.5, E2.3.6 and E2.3.7
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1

### 6. Conditions and Limitations of Use

- The system is certified:
  - as a direct fixed external wall cladding for buildings:
    - within the scope limitations of the NZBC Acceptable Solution E2/AS1, 3rd Edition, amendment 10, 5 November 2020, Paragraph 1.1,
    - with a risk score of up to 6, calculated in accordance with the NZBC Acceptable Solution E2/AS1, 3rd Edition, amendment 10, 5 November 2020, Table 2,



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- iii. situated in in NZS 3604:2011 Wind Zones up to, and including Very High, and
    - b. as a cavity fixed external wall cladding for buildings:
      - i. within the scope limitations of the NZBC Acceptable Solution E2/AS1, 3rd Edition, amendment 10, 5 November 2020, Paragraph 1.1,
      - ii. with a risk score of up to 20, calculated in accordance with the NZBC Acceptable Solution E2/AS1, 3rd Edition, amendment 10, 5 November 2020, Table 2,
      - iii. situated in in NZS 3604:2011 Wind Zones up to, and including Extra High, and
    - c. as a cavity fixed external wall cladding for buildings specifically engineering designed (SED):
      - i. up to 25m in height, and
      - ii. with an inter-storey drift of span/180 maximum, and
      - iii. either:
        1. the design ultimate limit state (ULS) differential wind pressure does not exceed 2.5 kPa with the stud and batten spacing no more than 600mm centres, or
        2. the design ultimate limit state (ULS) differential wind pressure does not exceed 3.2 kPa with the stud and batten spacing no more than 450mm centres,
    - d. located:
      - i. in all exposure zones (except microclimates) as defined in NZS3604:2011 section 4.2, and
      - ii. anywhere in relation to the relevant boundary for Importance Levels 1 to 4 buildings within the scope of:
        1. C/AS1, Second edition, 2 November 2023 paragraph 1.1.1 or
        2. C/AS2, amendment 3, 2 November 2020 paragraph 1.1.1
  2. The system shall be specified, installed, inspected and maintained in accordance with the following sets of documents collectively referenced as the Applicable Technical Specification to the extent that their scope covers that for this Certificate:
    - a. For the Direct fix applications,
      - i. Axon™ Panel Direct Fixed – Technical specification, March 2024, and
      - ii. Fire & Acoustic Design Manual (November 2020) by James Hardie section 4:16 Control of External Fire Spread, figures No's. 1 to 8 and 12 to 20, specifically details JHETGA30, JHETGA60 and JHETAA60.
    - b. For the Cavity application for building described in 1b above
      - i. Axon™ Panel Timber Cavity Batten - Technical Specification – March 2024 or Axon™ Panel Fixed to Hardie™ CLD™ Structural Cavity Batten – Technical specification, March 2024 as applicable , and
      - ii. Fire & Acoustic Design Manual (November 2020) by James Hardie section 4:16 Control of External Fire Spread, figures No's. 1 to 8 and 12 to 20, specifically details JHETGA30, JHETGA60, JHETAA60, JHETGR30-A, JHETGR60-A and JHETRR60-A.

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- c. For the Cavity application for building described in 1c above
  - i. Axon™ Panel Fixed to Hardie™ CLD™ Structural Cavity Batten – Technical specification, March 2024, and
  - ii. Fire & Acoustic Design Manual (November 2020) by James Hardie section 4:16 Control of External Fire Spread, figures No's. 1 to 8 and 12 to 20, specifically details JHETGR30-A, JHETGR60-A and JHETRR60-A.

The details JHETGA30, JHETGA60, JHETAA60, JHETGR30-A, JHETGR60-A and JHETRR60-A have only been assessed and certified with respect to external fire spread via Axon™ Panel Cladding. For walls located within 1.0 m of a relevant boundary, Axon™ Panel Cladding System may be used as an external façade/cladding attached to the exterior of fire rated wall systems as depicted within the Fire and Acoustic Design Manual (November 2020). Fire Resistance rating performance of the wall assembly falls outside the scope of this certificate

(Note: Above provisions of the documents are related to the use of the system with timber frame construction, steel-frame construction is outside the scope of this certification).

3. In wind zones greater than Very High a rigid air barrier which complies with Table 23 of E2/AS1 shall be used. In Buildings exceeding 10 m in height RAB™ Board must be used including horizontal control joints in accordance with the requirements of the Codemark certificate for RAB™ Board. (Refer to GM-CM30130)
4. The system is certified for use:
  - a. with the ancillary components as described in this certificate,
  - b. with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. Only joinery compliant with the requirements of NZS 4211:2008 including amendment 1 for the relevant Wind Zone or wind pressure shall be used.
5. CLD battens are required to be used in all cavity applications other than the building described in 1b.
6. Axon™ Panel Cladding System shall only be installed vertically on vertical surfaces.
7. All exposed faces, including top edges at sills and all bottom edges of Axon™ Panel and fibre cement ancillary components shall be finished with a latex exterior paint system complying with any of Parts 7, 8, 9, or 10 of AS 3730
8. E2.3.5 and E2.3.6 compliance is limited to cavities created between the internal surface of the weatherboards and the underlay or RAB™ Board's.

## 7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirements as detailed in the technical literature including the applicable SDS must be observed at all times. Please refer to James Hardie SDS Fibre Cement Products June 2022

## 8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)



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Code Clause	Compliance pathway	Evidence
B1 STRUCTURE	Alternate solution based on NZS3604:2011 and comparison with E2/AS1	001,002, 003, 004, 005, 015, 016, 017 & 022
B2 DURABILITY	Alternate solution based on expert judgement	001, 005, 015, 016, 017 & 020
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Alternate solution based on expert judgement and testing to NFPA 285	001,006, 007, 008,009,010, 011, 012, 015, 016, 017 & 018
E2 EXTERNAL MOISTURE	Alternate solution based on expert judgement and testing to AS/NZS4284	001, 005, 013, 014, 015, 016, 017, 020 & 021
F2 HAZARDOUS BUILDING MATERIALS	Alternate solution based on expert judgement	001, 015, 016, 017 & 019

## 9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
001	GLOBAL-MARK	Codemark Certification GM-CM30130 HomerABTM Pre-Cladding and RABTM Board by JAMES HARDIE	Rev A
002*	BRANZ	BRANZ Assessment – Face Load Strength of James Hardie Linea Weatherboard Clad Walls and Variations of Sheet thickness and Nail type (reviews STO483)	STO102/SM30/SJT dated 11 November 2002
003	Cardno	CERTIFICATION OF JAMES HARDIE 9MM AXON™ CLADDING WITH OPTIONAL FIXING TO CAVITY TRIM BATTENS	605726-LO-07-3 dated 19/10/2021
004*	David Beneke Consulting	PRODUCER STATEMENT PS-1 STRUCTURAL DESIGN VERIFICATION OF JAMES HARDIE TITAN® PANEL CLADDING FOR NEW ZEALAND	2018-27-LO-05 dated 19/12/2017
005*	James Hardie Building products	Test certificate Heat-rain Resting of Axon in a/w ISO 8336	HR004-06 dated 11/08/2006
006*	Intertek B&C	JH cavity fix wall assembly fire test as per NFPA 285	J6706.01-121-24 - 20th August 2019



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007*	Intertek B&C	JH cavity fix wall assembly fire test as per NFPA 285	J6707.01-121-24 - 21st August 2019
008*	BRANZ	Fire Assessment Report based Cone calorimeter test.	FH3182 21 November 2002
009*	BRANZ	Fire Assessment Report based Cone calorimeter test.	FH 2976 15 May 2001
010*	BRANZ	Fire Assessment Report based Cone calorimeter test (BRANZ Project No. FC10254-001).	FSR 4206 Issue2 7 November 2018
011*	BRANZ	Fire technical Opinion: Technical opinion based on NFPA 285 Compliance with NZBC C/AS2, clause 5.8.2 (b) and C/VM2 Part A (a).	FC12172-001 1 November 2019
012*	BRANZ	Fire technical Opinion: Fire resistance of James Hardie Wall Systems with Service Penetrations	FC12040-004 -03 December2019
013*	Facadelab	Testing of James Hardie Panel 9mm nominal thickness with LCD structural cavity batten and 140 mm Framing in accordance with AS/NZS 4284:2008 Testing of Building Facades	23-07
014*	James Hardie Research and Product Development Centre	E2/VM1 test on Scyon Axon Fibre Cement cladding System	TS033-13 dated 08/01/2014
015	James Hardie	Axon™ Panel Direct Fixed – Technical specification	March 2024
016	James Hardie	Axon™ Panel Timber Cavity Batten - Technical Specification	March 2024
017	James Hardie	Axon™ Panel Fixed to Hardie™ CLD™ Structural Cavity Batten – Technical specification	March 2024
018	James Hardie New Zealand Limited	James Hardie Fire & Acoustic Design Manual. Section 4:17 Control of External Fire Spread, figures No's. 1 to 9 8 and 12 to 20, specifically details JHETGA30, JHETGA60, JHETAA60, JHETGR30-A, JHETGR60-A and JHETRR60	November 2022
019	James Hardie New Zealand Limited	LQA8N - SAFETY DATA SHEET- JAMES HARDIE FIBRE CEMENT SHEETS PRODUCTS	Version No.: 2.0 ISSUED Date : 22/06/2022



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020*	James Hardies New Zealand	Axon Panel	21 February 2024
021*	James Hardie Australia	Test Report TS-0032-12	20 February 2013
022*	James Hardies R&D Australia	Test Report TS-008-21	9 August 2021

\* These documents were provided commercial in confidence and are not publicly available

### 10. Supporting Information About Description (Optional)

Nil

### 11. Supporting Information About Intended Use (Optional)

Nil

### 12. Supporting Information About Conditions and Limitations of Use (Optional)

Nil

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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