

Certificate no: CMNZ30109

Version: C

Original issue date: 20/08/2019

Version date: 23/10/2024

Renewal Date: 01/09/2025

1. Certificate Holder Details



James Hardie New Zealand Limited

Trading as James Hardie

1 O'Rorke Road, Penrose, Auckland 1061

TechnicalTeam@jameshardie.co.nz

Tel: 0800 808 868,

www.jameshardie.co.nz

2. Product Certification Body

Global-Mark Pty Ltd

Trading as Global-Mark

57 Willis Street, Wellington, 6011

customer.service@global-mark.co.nz

+64 9 889 0622

www.global-mark.co.nz

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

Stria™ Cladding by James Hardie

3. Description of Building Method or Product

Stria™ Cladding is a cavity-based fibre cement panel wall cladding system.

Stria™ Cladding consists of Stria™ Cladding Panel, which is a 14mm profile fibre cement panel, fixed horizontally or vertically over battens to form a nominal 20 mm cavity. Proprietary ventilated timber battens are used in vertical applications. The cladding is finished with a latex paint system.

The cladding system incorporates a primary and secondary means of weather resistance (first and second lines of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm cavity. The cavity allows for any occasional ingress of water that may get past the external skin to drain to the exterior of the building, and any remaining moisture to dry by evaporation.

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), (f), (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

1. The system is certified:
 - a. as a cavity fixed external wall cladding for buildings:



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- i. within the scope limitations of the NZBC Acceptable Solution E2/AS1, 3rd Edition, amendment 10, 5 November 2020, Paragraph 1.1, and
 - 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, and
 - iii. situated in in NZS 3604:2011 Wind Zones up to, and including Extra High, or
 - b. as a cavity fixed external wall cladding for buildings specifically engineering designed (SED):
 - i. up to 25m in height (up to 10m in height when using Hardie™ CLD™ Structural Cavity Battens), and
 - ii. with an inter-storey drift of span/180 maximum, and
 - iii. the design ultimate limit state (ULS) differential wind pressure does not exceed 3.2 kPa (2.5kPa when using timber cavity battens), and
 - iv. with the stud and batten spacing no more than 600mm centres, and
 - c. located:
 - i. in all exposure zones (except microclimates) as defined in NZS 3604:2011 section 4.2, and
 - ii. anywhere in relation to the relevant boundary for Importance Levels 1 to 4 buildings within the scope of:
 - C/AS1, Second edition, 2 November 2023 paragraph 1.1.1, or
 - C/AS2, amendment 3, 2 November 2023 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 Horizontal applications with timber batten:
 - i. Stria™ Cladding Timber Cavity Batten Technical Specification, June 2024;
 - ii. James Hardie Fire & Acoustic Design Manual (September 2024) section 4:16 Control of External Fire Spread, figures No's. 2 to 11, 14 to 18 and 21 to 26, specifically details JHETGS30h and JHETGS60h.
 - b. For the Horizontal applications with Hardie™ CLD™ Structural Cavity Batten:
 - i. Stria™ Cladding Hardie™ CLD™ Structural Cavity Batten Technical Specification, June 2024;
 - ii. James Hardie Fire & Acoustic Design Manual (September 2024) section 4:16 Control of External Fire Spread, figures No's. 2 to 11, 14 to 18 and 21 to 26, specifically details JHETGS30h and JHETGS60h.
 - c. For the Vertical Application:
 - i. Stria™ Cladding Vertical Installation Technical Specification, June 2024;
 - ii. James Hardie Fire & Acoustic Design Manual (September 2024) section 4:16 Control of External Fire Spread, figures No's. 2 to 11, 14 to 18 and 21 to 26, specifically details JHETGS30v, JHETGS60v and JHETSS60v.

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(Note: Provisions within the documents above related to the use of the system with steel-frame construction are outside the scope of this certification):

- d. James Hardie Fire & Acoustic Design Manual (September 2024) section 4:16 “Control of External Fire Spread”, Figure No’s 2 to 11, 14 to 18 and 21 to 26, in particular the installation details JHETGS30h, JHETGS30v, JHETGS60h and JHETGS60v. These details have only been assessed and certified with respect to external fire spread via Stria™ Cladding. For walls located within 1.0 m of a relevant boundary, Stria™ Cladding 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 (September 2024). Fire Resistance rating performance of the wall assembly falls outside the scope of this certificate.
3. In wind zones greater than Very High a rigid air barrier which complies with Table 23 of E2/AS1 3rd Edition, amendment 10, 5 November 2020 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, and
 - 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 or have a current CodeMark.
5. Stria™ Cladding shall only be installed on vertical surfaces.
6. All exposed faces, including top edges at sills and all bottom edges of Stria™ Cladding 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.
7. E2.3.5 and E2.3.6 compliance is limited to cavities created between the internal surface of the panels and the underlay or RAB™ Boards.

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)

| Code Clause | Compliance pathway | Evidence |
|--------------|---|--|
| B1 STRUCTURE | Informed by NZS3604:2011 and comparison with E2/AS1 | 001, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 025, 026, 027 and 028 |



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| B2 DURABILITY | Informed by expert judgement | 001, 024, 026, 027 and 028 |
| C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE | Informed by expert judgement and testing to NFPA 285 | 001, 002, 003, 004, 005, 006, 007, 008, 010, 011, 026, 027, 028 and 029 |
| E2 EXTERNAL MOISTURE | Informed by expert judgement and testing to AS/NZS4284 | 001, 009, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 026, 027 and 028 |
| F2 HAZARDOUS BUILDING MATERIALS | Informed by expert judgement | 001, 021, 026, 027, 028 and 030 |

9. Supporting Documentation for Certification

| Rev | Author | Description | Date and/or Revision |
|-------|-------------|--|---------------------------------|
| 001 | GLOBAL-MARK | Codemark Certification GM-CM30130 HomeRAB™ Pre-Cladding and RAB™ Board by JAMES HARDIE | Rev B |
| 002 * | BRANZ | Fire Assessment Report based Cone calorimeter test. | FH3182 21 November 2002 |
| 003 * | BRANZ | Fire Assessment Report based Cone calorimeter test. | FH 2976 15 May 2001 |
| 004 * | BRANZ | Fire Assessment Report based Cone calorimeter test (BRANZ Project No. FC10254-001). | FSR 4206 Issue2 7 November 2018 |
| 005* | 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 |
| 006* | BRANZ | Fire Assessment Report Review of James Hardie Fire and Acoustic Manual | FAR 4620 – 04 November 2016 |
| 007* | BRANZ | Fire technical Opinion: Fire resistance of James Hardie Wall Systems with Service Penetrations | FC12040-004 -03 December2019 |
| 008* | BRANZ | Technical Assessment “Fire Resistance of External Wall and Soffit” _Various JH Products | FAR 2597- 5th October 2005 |



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| 009* | BRANZ | E2 Weathertightness Opinion for the Appraisal of Linea Oblique Weatherboard (Vertical) Cavity Cladding | TP2355-02, dated 19 November 2015 |
| 010* | Intertek B&C | JH cavity fix wall assembly fire test as per NFPA 285 | J6706.01-121-24 - 20th August 2019 |
| 011* | Intertek B&C | JH cavity fix wall assembly fire test as per NFPA 285 | J6707.01-121-24 - 21st August 2019 |
| 012* | Clarkson Consulting Services | JH NZ_RAB_Weathertightness Assessment_200626_R2.1 | August 2022 |
| 013* | James Hardie Building Product | Weathertightness Testing of Residential Façade Fibre Cement Cladding System On Cavity Battens to the requirement of Verification Method E2/VM1 | TS061-05, dated 15 February 2006 |
| 014* | James Hardie Building Product | TESTING OF A TITAN RESIDENTIAL FIBRE CEMENT CLAD FAÇADE FOR COMPLIANCE WITH THE REQUIREMENTS OF AS/NZS 4284:1985 "TESTING OF BUILDING FACADES" | TS010-06, dated 14 November 2006 |
| 015* | James Hardie Technical Support group | Weathertightness (E2/VM1) | TS003-13, dated 4 December 2013 |
| 016* | James Hardie Technical Support group | Weathertightness (E2/VM1) | TS022-13, dated 12 November 2013 |
| 017* | James Hardie Technical Support group | Weathertightness (E2/VM1) | TS033-13, dated 8 January 2014 |
| 018* | James Hardie Technical Support group | Weathertightness & Façade System (E2/VM1) | TS009-15, dated 14 October 2015 |
| 019* | James Hardie Technical Support group | Weathertightness & Façade System (E2/VM1) | TS052-11, dated 16 December 2011 |
| 020* | Façade Testing New Zealand Limited, | Testing of James Hardie NZ ExoTec Façade panel top hat rainscreen façade system in accordance with AS/NZS 4284:2008 | FT-R1005, dated May 2017 |



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| 021* | Façade Lab Ltd | Testing of James Hardie Linea – Weatherboard on RAB Board in accordance with E2/VM2 (BRANZ – EM7) | 20-15 dated 10/3/2021 |
| 022* | Façade Lab Ltd | Testing of James Hardie Linea Oblique vertical weatherboard on rigid wall underlay to E2/VM2 (BRANZ EM7) using tests from AS/NZS 4284:2008 ‘Testing of Building Facades’ | 20-16 dated 11/12/2020 |
| 023* | 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 |
| 024* | BRANZ | Durability Opinion on the Linea Weatherboard System | DA 0220 dated 24/09/2017 |
| 025* | BRANZ | Face Loading Testing of Low-Density Thick Weatherboard | Report ST483 dated 20 February 2001 |
| 026 | James Hardie New Zealand Limited | Stria™ Cladding Timber Cavity Batten Technical Specification | June 2024 |
| 027 | James Hardie New Zealand Limited | Stria™ Cladding Vertical Installation Technical Specification | June 2024 |
| 028 | James Hardie New Zealand Limited | Stria™ Cladding Hardie™ CLD™ Structural Cavity Batten Technical Specification | June 2024 |
| 029 | James Hardie New Zealand Limited | James Hardie Fire & Accoustic Design Manual. Section 4:16 Control of External Fire Spread, figures No’s to 11, 14 to 18 and 21 to 26, specifically details JHETGS30h, JHETGS30v, JHETGS60h, JHETGS60v, JHETSS60h and JHETSS60v, JHETGL30, JHETGL60 and JHETLL60 | September 2024 |
| 030 | James Hardie New Zealand Limited | LQA8N – Safety data sheet – James Hardie Fibre Cement Sheet Products | Version No.: 2.0 ISSUED Date: 22/06/2022 |

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

10. Supporting Information About Description (Optional)

The Stria™ Cladding panels are pre-primed with an acrylic primer on the front face and edges. The Stria™ Cladding panels are 14 mm thick and are available 325 mm or 405 mm wide by 4200 mm long.



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They are manufactured from a reduced density cellulose fibre cement formulation. The panels are formed, cut to length and then cured by high-pressure autoclaving. After autoclaving, a profile is machined on the top edge of the front face, and a rebated lap is machined on the bottom of the back face of the panel. The front edge at the bottom of the board and the board ends are finished square. The Stria™ Cladding panels are manufactured to meet the requirements of AS/NZS 2908.2.

James Hardie supplies the following ancillary components:

- For the horizontal and vertical applications
 - Rigid wall underlay – HomeRAB™ Pre-Cladding and RAB™ Board
 - Hardie™ 14 mm Trimline Joint Flashing The joint flashings are available in extruded aluminium in 3000 mm lengths.
 - Hardie™ 14 mm External Box Corner - Anodised aluminium extrusion used to create external corners in 3000 and 4000 mm lengths.
 - Cavity vent strip – Hardie™ 28 mm aluminium cavity closure or Hardie™ uPVC vent strip, available in 3000 mm lengths.
 - Hardie™ 9mm Panel Aluminium External Box Corner- A box corner mould to form the external joints. 9mm etch primed available in 2700, 3000 and 4000 mm
- For the horizontal applications
 - Vertical Joint Flashing. The joint flashings are available in extruded aluminium in 3000 mm lengths.
 - Hardie™ 14 mm Internal Corner Flashing - Anodised aluminium extrusion used to create internal corners in 3000 mm lengths
 - Hardie™ 14 mm Aluminium Window Jamb Flashing - Aluminium moulding used beside window opening to end butt the Stria Cladding in 3000 mm lengths
 - Hardie™ CLD™ Structural Cavity Batten - 19mm x 70mm fibre cement cavity batten in 2450mm and 3000mm
- For the vertical applications
 - Hardie™ horizontal cavity battens – 45 x 20 mm thick Radiata pine batten treated to Hazard Class H3.1. The top edge is bevelled with an 18° slope. The back face is grooved with 22 mm wide x 5 mm deep rebates at 50 mm centres, and the front face is grooved with 6 mm wide x 6 mm deep rebates at 150 mm centres. The grooves are offset on each face.
 - Hardie™ 14 mm Internal Corner Flashing - Anodised aluminium extrusion used to create internal corners in 3000 mm lengths
 - Trimline Horizontal Jointer - A jointer to cover the butt joint of Hardie™ 14 mm Trimline Joint Flashing in 100 mm
 - Trimline External Corner Jointer and Trimline Internal Corner Jointer - Joins Hardie™ 14 mm Trimline Joint Flashing at corner

Other components not supplied by James Hardie but meet the following requirements

- For the horizontal and vertical applications



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- Flexible wall underlay – building underlay complying with NZBC Acceptable Solution E2/AS1, Table 23, or breather-type membranes covered by a valid Codemark Certification for use as wall underlays
- Flexible wall underlay support – polypropylene strap, 75 mm galvanised mesh, galvanised wire, or additional vertical battens for securing the flexible wall underlay in place and preventing bulging of the bulk insulation into the drainage cavity. (Note: mesh and wire galvanising must comply with AS/NZS 4534.)
- Flexible sill, head and jamb flashing tape - flexible flashing tapes complying with NZBC Acceptable Solution E2/AS1, Paragraph 4.3.11, or flexible flashing tapes covered by a valid Codemark Certification for use around window and door joinery openings.
- Cavity batten fixings - 40 x 2.8 mm flat head hot-dip galvanised nails.
- Stria™ Cladding fixings (with flexible wall underlays) – 75 x 3.15 mm Hardie™ Flex hot-dip galvanised or stainless-steel nails
- Stria™ Cladding fixings (with flexible wall underlays) - 65 x 2.87 mm D-head or RounDrive hot-dip galvanised or stainless-steel ring shank nails.
- Stria™ Cladding fixings (with rigid wall underlays up to 10 mm thick) 75 x 3.06 mm D-head or RounDrive hot-dip galvanised or stainless-steel ring shank nails
- (Note: Stainless steel fixings must be Grade 316 and hot-dip galvanising must comply with AS/NZS 4680).
- Joinery head flashings - extruded or folded from aluminium or galvanised steel to suit the window or door trim opening. Refer to NZS 3604, Section 4 and NZBC Acceptable Solution E2/AS1, Table 20 for durability requirements.
- Flexible sealant - sealant complying with NZBC Acceptable Solution E2/AS1, or sealant covered by a valid Codemark Certification for use as a weather sealing sealant for exterior use.
- For the horizontal applications
 - Cavity battens - nominal 50 mm wide by 25 mm thick (minimum finished size of 45 mm wide by 18 mm thick) timber treated to Hazard Class H3.1.
 - Timber trim and moulding for use around windows and door. Timber trim and moulding must be finished in accordance with their manufacturer specifications to achieve the required durability
 - Planted sill and scribes - timber treated to Hazard Class H3.1, pre-primed before installation. Window and door trim cavity air seal - air seals complying with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.6, or self-expanding, moisture cure polyurethane foam air seals covered by a valid Codemark Certification suitable for use around window, door and other wall penetration openings.
 - Hardie™ CLD™ Structural Cavity Battens fixings - 65 x 2.87mm RounDrive Ring Shank Nail -For fixing Hardie™ CLD™ Structural Cavity Battens to the framing.
 - Stria™ Cladding fixings- 30 x 1.6mm C Series Brad Nails -304SS brad nails used to install Stria™ Cladding to the Hardie™ CLD™ Structural Cavity Batten.

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- Adhesive Sealant -Sikaflex® 11FC Polyurethane adhesive sealant manufactured by Sika® for applying between the Stria™ cavity panels and Hardie™ CLD™ Structural Cavity Battens.
- For the vertical applications
 - Window and door trim cavity air seal - air seals complying with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.6, or self-expanding, moisture cure polyurethane foam air seals covered by a valid Codemark Certification suitable for use around window, door and other wall penetration openings.

11. Supporting Information About Intended Use (Optional)

Nil

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

Stria™ Cladding can be used to provide fire resistance rated construction, but this aspect has not been assessed and is outside the scope of this certificate.

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.