CodeMark

Certificate no: CMNZ30018
Version: P
Original issue date: 26/05/2020
Version date: 26/09/2025
Renewal Date: 03/07/2028

1. Certificate Holder Details

JamesHardie™

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2. Product Certification Body

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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

global-mark

Product Certificate

Linea™ Weatherboard by James Hardie
Direct Fixed and Cavity Cladding systems

3. Description of Building Method or Product

Linea™ Weatherboard is a 16 mm thick bevelback fibre cement weatherboard, which is designed to be used as part of an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

Linea™ Weatherboard Direct Fixed Cladding system consists of Linea™ Weatherboards applied direct to the external wall framing over a flexible underlay.

Linea™ Weatherboard Cavity Cladding system consists of Linea™ Weatherboards fixed over timber battens to form the cavity.

Both cladding methods (referenced as the system) incorporate secondary protection behind all internal and external corners, flashings for window, door and meter box penetrations as well as air seals to all wall penetrations.

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) & (m)
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 (contributes to) and C3.7
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.2, E2.3.5 (contributes to), E2.3.6 (contributes to) and E2.3.7
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1

6. Conditions and Limitations of Use

1. The systems (respectively) are certified:
    a. as a direct fixed external wall cladding for buildings:
        i. within the scope limitations of the New Zealand Building Code (NZBC) Acceptable Solution E2/AS1, Subsection 1.1.1, and
        ii. with a risk score of 0-12, calculated in accordance with the NZBC Acceptable Solution E2/AS1, Table 3.1.3.2: Suitable wall claddings, and
        iii. situated in NZS 3604:2011 Wind Zones up to, and including Very High, or
    b. as a cavity fixed external wall cladding for buildings:
        i. within the scope limitations of the NZBC Acceptable Solution E2/AS1, Subsection 1.1.1, and
        ii. with a risk score of up to 20, calculated in accordance with the NZBC Acceptable Solution E2/AS1, Table 3.1.3.2: Suitable wall claddings, and
        iii. situated in NZS 3604:2011 Wind Zones up to, and including Extra High, or
    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. the design ultimate limit state (ULS) differential wind pressure does not exceed 3.2 kPa, and
        iv. with the stud spacing no more than 600mm centres, and
    d. located:
        i. in all exposure zones (except microclimates) as defined in NZS 3604:2011 section 4.2, and
        ii. located anywhere in relation to the relevant boundary for building within the scope of:
            - C/AS1, Subsection 1.1.1 or
            - C/AS2, Subsection 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 direct fixed external wall cladding application:
        i. James Hardie Linea™ Weatherboard Direct Fix Technical Specification (August 2025);
        ii. Fire & Acoustic Design Manual (May 2025) by James Hardie section 4:17 Control of External Fire Spread, figures 2 to 14, 16, 18 and 21 to 26, specifically details JHETGL30 and JHETGL60. These details have only been assessed and certified with respect to external fire spread via Linea™ Weatherboard. For walls located within 1.0m of a relevant boundary, Linea™ Weatherboard 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;

iii. BRANZ Appraisal No 446 (2020) Linea™ Weatherboard Direct Fixed Cladding.

b. For cavity fixed external wall cladding applications:

i. James Hardie Linea™ Weatherboard Cavity Fix Technical Specification (August 2025);

ii. Fire & Acoustic Design Manual (May 2025) by James Hardie section 4:17 Control of External Fire Spread, figures 2 to 14, 16, 18 and 21 to 26, specifically details JHETGL30 and JHETGL60. These details have only been assessed and certified with respect to external fire spread via Linea™ Weatherboard. For walls located within 1.0m of a relevant boundary, Linea™ Weatherboard 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;

iii. BRANZ Appraisal No 447 (2020) Linea™ Weatherboard Cavity Cladding.

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

3. In wind zones greater than Very High a rigid air barrier which complies with Table C2.1.1: Properties of roof underlays and wall underlaysof 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 CMNZ30130).
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. The weatherboards must only be installed horizontally on vertical surfaces.
6. All exposed faces, including top edges at sills and all bottom edges of Linea™ Weatherboard and fibre cement ancillary components must 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.

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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 Objective Clause	Compliance pathway
Clause B1 STRUCTURE	Informed by NZS3604:2011 and comparison with E2/AS1
Clause B2 DURABILITY	Informed by based on expert judgement
Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Informed by expert judgement and testing to NFPA 285
Clause E2 EXTERNAL MOISTURE	Informed by expert judgement and testing to AS/NZS4284
Clause F2 HAZARDOUS BUILDING MATERIALS	Informed by expert judgement

9. Supporting Documentation for Certification

Nb	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	LINEA™ - WEATHERBOARD CAVITY CLADDING - Appraisal No. 447 [2020]	02 September 2020
003	BRANZ	LINEA™ - WEATHERBOARD DIRECT FIXED CLADDING - Appraisal No. 446 [2020]	02 September 2020
004	BRANZ	JAMES HARDIE FIRE AND ACOUSTIC SYSTEMS - Appraisal No. 1285 [2025]	03 June 2025
005*	BRANZ	BRANZ Appraisals Means of Compliance - Basis of Appraisal - LINEA™ WEATHERBOARD DIRECT FIXED AND CAVITY CLADDING - Appraisal No 446 and 447 (2020)	TV10686-001 21/08/2020

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006* BRANZ	Fire Assessment Report based Cone calorimeter test.	FH3182 21 November 2002
007* BRANZ	Fire Assessment Report based Cone calorimeter test.	FH 2976 15 May 2001
008* BRANZ	Fire Assessment Report based Cone calorimeter test (BRANZ Project No. FC10254-001).	FSR 4206 Issue2 7 November 2018
009* 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
010* BRANZ	Fire technical Opinion: Fire resistance of James Hardie Wall Systems with Service Penetrations	FC12040-004 -03 december2019
011* BRANZ	Technical Assessment "Fire Resistance of External Wall and Soffit" _Various JH Products	FAR 2597- 5th October 2005
012* Intertek B&C	JH cavity fix wall assembly fire test as per NFPA 285	J6706.01-121-24 - 20th August 2019
013* Intertek B&C	JH cavity fix wall assembly fire test as per NFPA 285	J6707.01-121-24 - 21st August 2019
014* Clarkson Consulting Services	JH NZ_RAB_Weathertightness Assessment_200626_R1.5	26 June 2020
015* Façadelab	Testing of James Hardie Linea – Weatherboard on RAB Board in accordance with E2/VM2	Report 20-15 20-21 February 2020
016* 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
017* 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

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018* James Hardie Technical Support group	Weathertightness (E2/VM1)	TS003-13, dated 4 December 2013
019* James Hardie Technical Support group	Weathertightness (E2/VM1)	TS022-13, dated 12 November 2013
020* James Hardie Technical Support group	Weathertightness (E2/VM1)	TS033-13, dated 8 January 2014
021* James Hardie Technical Support group	Weathertightness & Façade System (E2/VM1)	TS009-15, dated 14 October 2015
022* James Hardie Technical Support group	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
023 James Hardie New Zealand Limited	James Hardie Linea™ Weatherboard Direct Fix Technical Specification	August 2025
024 James Hardie New Zealand Limited	James Hardie Linea™ Weatherboard Cavity Fix Technical Specification	August 2025
025 James Hardie New Zealand Limited	James Hardie Fire & Acoustic Design Manual. Section 4:16 Control of External Fire Spread, figures 2 to 14, 16, 18 and 21 to 26, specifically details JHETGL30 and JHETGL60	May 2025
026 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)

Linea™ Weatherboard cladding is finished with a latex paint system

Linea™ Weatherboards are bevel-back profile weatherboards with tongue and groove at each end for jointing. The weatherboards are pre-primed with an acrylic primer on the front face and edges.

Linea™ Weatherboards are 16 mm thick and are available 150mm and 180 mm wide. The boards are supplied 4200 mm long.

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Linea™ Weatherboards are manufactured from a reduced density cellulose fibre cement formulation. The boards are formed, cut to length and then cured by high-pressure autoclaving. After autoclaving, a revel profile is machined on the back face of the weatherboard, the bottom of the board is chamfered and the tongue and grove are machined on the ends. Linea™ Weatherboards are manufactured to meet the requirements of AS/NZS 2908.2.

James Hardie supplies the following ancillary components:

- Hardie™ Axent™Trim - a 19mm thick fibre cement trim manufactured from a reduced density cellulose fibre cement formulation. Hardie™ Axent™ Trim is pre-primed with an acrylic primer on the front face and both edges and is available in sizes of 70 mm and 89mm wide by 3000 mm long.
- External and internal corner mouldings - chromate treated aluminium external box corner, 90° internal corner 'W' mould and 135° internal corner 'W' mould. The mouldings are available in 2,700 mm and 4,000 mm lengths.
- Corner soakers - 90° soakers are available for 150 mm and 180 mm Linea™ Weatherboards. The soakers are available in chromate treated aluminium, copper and stainless steel.
- Cavity vent strip - uPVC, available in 3,000 mm lengths.
- Rigid wall underlay – HomeRAB™ Pre-Cladding, RAB™ Board or fibre cement sheet complying with NZBC Acceptable Solution E2/AS1, Table C2.1.1: Properties of roof underlays and wall underlays, or rigid sheathing covered by a valid BRANZ Appraisal for use as rigid air barrier systems.

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

- Flexible wall underlay – building paper complying with NZBC Acceptable Solution E2/AS1, Table C2.1.1: Properties of roof underlays and wall underlays, or breather-type membranes covered by a valid CodeMark certificate for use as wall underlays.
- Flexible building underlay support – polypropylene strap at 300 mm centres fixed horizontally and drawn taut, 75 mm galvanised mesh, galvanised wire, or additional vertical battens for securing the flexible building 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. Additional vertical battens may also be installed to provide support.)
- Flexible sill, head and jamb flashing tape - flexible flashing tapes complying with NZBC Acceptable Solution E2/AS1, Subsection 4.2.12, or flexible flashing tapes covered by a valid BRANZ Appraisal for use around window and door joinery openings.
- 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.
- Cavity batten fixings - 40 x 2.8 mm flathead hot-dip galvanised nails.
- Joinery sill and head flashings - 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 C.1.1.1A: Material selection for durability requirements.
- Planted sill and scribers - 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, Subsection 9.1.5.1 ,or self-expanding, moisture-cure polyurethane foam air seals covered by a valid BRANZ Appraisal suitable for use around window, door and other wall penetration openings.
- Flexible sealant - sealant complying with NZBC Acceptable Solution E2/AS1 or sealant covered by a valid BRANZ Appraisal for use as a weather sealing sealant for exterior use.
- Linea™ Weatherboard fixings

    - Direct fix cladding method: 40 x 2.8 mm flathead hot-dip galvanised Hardie™ Flex nails or stainless-steel ring shank Hardie™ Flex nails (for concealed nailing), and 60 x 3.15 mm jolthead hot-dip galvanised nails or stainless-steel ring shank nails (for face nailing).
    - Cavity cladding method - 60 x 3.15 mm flathead hot-dip galvanised Hardie™ Flex nails or stainless steel ring shank Hardie™ Flex nails (for concealed nailing in NZS 3604 Wind Zones up to, and including, Very High), 75 x 3.15 mm jolthead hot-dip galvanised nails or stainless steel ring shank nails (for face nailing in NZS 3604 Wind Zones up to, and including, Very High), and 90 x 3.55 mm jolthead hot-dip galvanised nails or stainless steel ring shank nails (for face nailing in the NZS 3604 Extra High Wind Zone and specific design wind pressures up to a maximum design differential ULS of 3.2 kPa).
- Hardie™ Axent™ Trim fixings - 60 x 3.15 mm or 75 x 3.15 mm hot-dip galvanised jolthead nails and stainless-steel ring shank jolthead nails.

(Note: Stainless steel fixings must be Grade 316 and hot-dip galvanising must comply with AS/NZS 4680).

- Flashings - balustrade and parapet cap flashings and inter-storey joint flashings. Refer to NZS 3604 Section 4, and NZBC Acceptable Solution E2/AS1, Table C.1.1.1A: Material selection for durability requirements.

Aluminium joinery head flashing - as supplied by the joinery manufacturer or the contractor

11. Supporting Information About Intended Use (Optional)

Nil

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

Proprietary stain systems and proprietary paint systems have not been evaluated and are therefore outside the scope of this certification

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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.