CodeMark

Certificate no: CMNZ10011
Version: 02
Original issue date: 07 March 2022
Version date: 29 May 2025

Product Certificate

Garrison® Bevelback Weatherboards

1. Certificate Holder Details

claymark

Claymark Group Ltd Partnership
PO Box 1796
Rotorua
Tel: 07 350 1085
Web: www.claymark.co.nz

2. Product Certification Body

BRANZ Limited
1222 Moonshine Road
RD1, Porirua 5381
Private Bag 50 908
Porirua 5240
New Zealand

Tel: 04 237 1170
Email: assuranceservices@branz.co.nz
Web: www.branz.nz

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

https://www.branz.co.nz/codemark-info/complaints-and-appeals/

3. Description of Building Method or Product

Garrison® Bevelback Weatherboards are H3.1 treated radiata pine timber weatherboards for use on external walls on residential and light commercial buildings where domestic construction techniques are used.

The weatherboards are pre-primed and undercoated blue, and each has an identification sticker on the rear with the Garrison® logo and care instructions.

4. Intended use of Building Method or Product

Garrison® Bevelback Weatherboards are for use as a direct-fixed or cavity-fixed external wall cladding for buildings within the limitations as stated in Section 6 of this Product Certificate.

5. New Zealand Building Code Provisions

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2, B1.3.4 for the relevant physical conditions of B1.3.3 (a), (h), (j) and (q) [i.e. self-weight, wind, impact and creep].

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2, E2.3.5 (contributes), E2.3.6 (contributes) and E2.3.7.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

CodeMark

Product Certificate

Garrison® Bevelback Weatherboards

BRANZ

Certificate no: CMNZ10011
Version: 02
Original issue date: 07 March 2022
Version date: 29 May 2025

6. Conditions and Limitations of Use

Garrison® Bevelback Weatherboards are suitable for use as a direct-fixed external wall cladding for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; and,
- with a risk score of 0-12 calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including, Very High.

Garrison® Bevelback Weatherboards are suitable for use as a cavity-fixed external wall cladding for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including, Extra High.

Garrison® Bevelback Weatherboards are suitable for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. *(Note: This Product Certificate relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone.)*

HANDLING AND STORAGE

Handling and storage of all materials, whether on-site or off-site, is under the control of the building contractor. Garrison® Bevelback Weatherboards must be stacked flat, clear off the ground by a minimum of 150 mm and supported on timber bearers at maximum 900 mm centres. They must be kept dry at all times either by storing within an enclosed building, or, when stored externally, an additional secondary cover to the plastic wrapping is required. Care must be taken to avoid damage to edges, ends and the primed surfaces. Weatherboards must always be carried on edge.

INSTALLATION SKILL LEVEL REQUIREMENT

All design and building work must be carried out in accordance with Garrison® Bevelback Weatherboards Reference Document and this Product Certificate by competent and experienced tradespeople conversant with Garrison® Bevelback Weatherboards. Where the work involves Restricted Building Work (RBW), this must be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant Licence Class.

CodeMark

Product Certificate

Garrison® Bevelback Weatherboards

BRANZ

Certificate no: CMNZ10011
Version: 02
Original issue date: 07 March 2022
Version date: 29 May 2025

REFERENCE DOCUMENT

This Product Certificate must be read in conjunction with:

- Garrison® Technical Manual - Bevelback Weatherboard, version J003836 V-7.0, dated 13 June 2023.

7. Health and Safety Information

Standard industry practices relating to the use of timber weatherboards must be observed at all times.

8. Basis for Certification

EXPERT JUDGEMENT

- An opinion on the durability of Garrison® Bevelback Weatherboards has been given by BRANZ technical experts.
- An opinion on NZBC Clause E2 code compliance for Garrison® Bevelback Weatherboards has been given by BRANZ technical experts.

QUALITY

- The Reference Document has been examined by BRANZ and found to be satisfactory.
- The practicability of installation of Garrison® Bevelback Weatherboards has been assessed by BRANZ and found to be satisfactory.
- The quality of the supply to the market is the responsibility of Claymark Group Ltd Partnership.
- Designers are responsible for the building design, and building contractors are responsible for the quality of installation in accordance with the instructions of Claymark Group Ltd Partnership.
- Quality of installation is the responsibility of the installer in accordance with the instructions of Claymark Group Ltd Partnership.
- Building owners are responsible for the maintenance of Garrison® Bevelback Weatherboards, in accordance with the instructions of Claymark Group Ltd Partnership.

CodeMark

Product Certificate

Garrison® Bevelback Weatherboards

BRANZ

Certificate no: CMNZ10011
Version: 02
Original issue date: 07 March 2022
Version date: 29 May 2025

9. Supporting Documentation for Certification

- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure, 1st Edition, Amendment 21, 2 November 2023.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability, 2nd Edition, Amendment 12, 28 November 2019.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause F2 Hazardous Building Materials, 1st Edition, Amendment 3, 1 January 2017.
- AS 3730:2006 Guide to the properties of paints for buildings.
- AS/NZS 1170:2002 Structural design actions.
- BRANZ Bulletin Number 411, April 2001, Recommended timber cladding profiles.
- BRANZ Durability Opinion TP02592-01-1, Durability opinion on timber weatherboards, dated 24 December 2021.
- BRANZ E2 Weathertightness Opinion TP02592-002, E2 Weathertightness opinion for the CodeMark of the Garrison® Bevelback Weatherboards, dated 18 February 2022.
- C1-C6 Protection from Fire Acceptable Solution C/AS1 Protection from fire for buildings with sleeping (residential) and outbuildings (risk group SH), 2nd Edition, 2 November 2023.
- C/AS2 Acceptable Solution for Buildings other than risk group SH For New Zealand Building Code Clauses C1-C6 Protection from Fire, 1st Edition, Amendment 3, 2 November 2023.
- New Zealand Timber Preservation Council, Woodmark Licence Plant number 950.
- NZS 3603:1993 Timber structures standard.
- NZS 3604:2011 Timber-framed buildings.
- NZS 4211:2008 Specification for performance of windows.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.
- Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture, 3rd Edition, Amendment 10, 5 November 2020.

10. Supporting Information About Description

PRODUCT SPECIFICATION

Products supplied by Claymark Group Ltd Partnership are as follows:

- **Garrison® Bevelback Weatherboards** are manufactured from finger-jointed New Zealand radiata pine, treated to Hazard Class H3.1. The weatherboards are supplied factory-coated with a sealer coat and a primer coat on the front and back faces and top and bottom edges. The weatherboard profiles are in accordance with BRANZ Bulletin Number 411. The weatherboards are 18 mm thick and are available in widths of 135, 142, 180 and 187 mm. They are supplied in 6.1 m lengths.
- **Garrison® two-part boxed corners** - one board has a tongue, and the other board has a rebate to receive the tongue. The overall dimensions are 102 x 102 x 18 mm and they are supplied in 5.4 m lengths. They are treated and finished as per Garrison® Bevelback Weatherboards.

Other components:

- All other components are supplied by the building contractor and must be in accordance with NZBC Acceptable Solution E2/AS1.

Paint System Specification

Paint systems are not supplied by Claymark Group Ltd Partnership and have not been assessed and are therefore outside the scope of this Product Certificate.

All exposed faces, including top edges at sills and all bottom edges of Garrison® Bevelback Weatherboards and two-part boxed corners must be finished with at least two coats of an exterior grade latex acrylic paint complying with any of Parts 7, 8, 9 or 10 of AS 3730. The paint colour must have a light reflective value (LRV) of greater than or equal to 45%.

11. Supporting Information About Intended Use

TIMBER TREATMENT

Timber wall framing behind Garrison® Bevelback Weatherboards must be treated as required by NZBC Acceptable Solution B2/AS1.

TIMBER FRAMING

Timber framing must comply with NZS 3604 or to a specific design in accordance with NZS 3603 and AS/NZS 1170. Studs must be at maximum 600 mm centres. Dwangs must be fitted flush between the studs at maximum 800 mm centres.

Timber wall framing behind where weatherboards are joined over a stud (direct-fixed) or cavity batten (cavity-fixed) must be nominal 50 mm thickness (i.e. 45 mm minimum finished thickness).

Timber wall framing must have a maximum moisture content of 20% at the time of the cladding installation.

Garrison® Bevelback Weatherboards must have a maximum moisture content of 15% before they are painted.

GENERAL

The ground clearance to finished floor levels as set out in NZS 3604 must be adhered to at all times. At ground level, paved surfaces such as footpaths, must be kept clear of the bottom edge of the cladding solution by a minimum of 100 mm, and unpaved surfaces by 175 mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Table 18. Minium ground clearances must be maintained at all times during the life of the weatherboards.

At balcony, deck or roof/wall junctions, the bottom edge of Garrison® Bevelback Weatherboards must be kept above the top surface of any adjacent roof flashing by a minimum of 35 mm, in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.

All external walls of buildings must have barriers to airflow in the form of interior linings with all joints stopped for Wind Zones up to, and including, Very High, and rigid underlays for buildings in the Extra High Wind Zone (cavity-fixed only). Unlined gables and walls must incorporate a rigid sheathing or an air barrier which meets the requirements of NZBC Acceptable Solution E2/AS1, Table 23. For attached garages, wall underlays must be selected in accordance with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.4. Where rigid underlays are used, the weatherboard (direct-fixed) or cavity batten (cavity-fixed) fixing lengths must be increased by a minimum of the thickness of the underlay.

Where Garrison® Bevelback Weatherboards abut other cladding solutions, designers must detail the junction to meet their own requirements and the performance requirements of the NZBC. These details have not been assessed and are outside the scope of this Product Certificate.

CAVITY-FIXED CLADDING ONLY

Punchings in the cavity vent strip must provide a minimum ventilation opening area of 1,000 mm² per lineal metre of wall in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.2 b).

Where cladding penetrations are wider than the cavity batten spacings, allowance must be made for airflow between adjacent cavities by leaving a minimum gap of 10 mm between the bottom of the cavity and the flashing to the opening.

BUILDING CODE

B1 STRUCTURE

The mass of Garrison® Bevelback Weatherboards is approximately 15 kg/m² at equilibrium moisture content and is considered a lightweight cladding in terms of NZS 3604.

Garrison® Bevelback Weatherboards have good resistance to impact loads likely to be encountered in normal residential use. The likelihood of impact damage to the weatherboards when used in light commercial situations should be considered at the design stage, and appropriate protection such as the installation of bollards and barriers should be considered for vulnerable areas.

CodeMark

Product Certificate

Garrison® Bevelback Weatherboards

BRANZ

Certificate no: CMNZ10011
Version: 02
Original issue date: 07 March 2022
Version date: 29 May 2025

Garrison® Bevelback Weatherboards are suitable for use as a direct-fixed wall cladding for buildings situated in all Wind Zones of NZS 3604 up to, and including, Very High.

Garrison® Bevelback Weatherboards are suitable for use as a cavity-fixed wall cladding on buildings situated in Wind Zones of NZS 3604 up to, and including, Extra High, where buildings are designed to meet the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 1.1.

B2 DURABILITY

Garrison® Bevelback Weatherboards meet the performance requirements of NZBC Clause B2.3.1 (b) 15 years.

Serviceable Life

Garrison® Bevelback Weatherboards are expected to have a serviceable life of at least 50 years, provided the weatherboards are maintained in accordance with this Product Certificate, and the weatherboards and fixings are continuously protected by a weathertight coating and remain dry in service. Garrison® Bevelback Weatherboards must be painted as soon as possible following weatherboard and trim installation.

Coastal locations can be corrosive to fasteners, especially locations within distances of up to 500 m from the sea including harbours, or 100 m from tidal estuaries and sheltered inlets, and otherwise as shown in NZS 3604, Figure 4.2. These coastal locations are defined in NZS 3604 as Zone D. To achieve a 50 year serviceable life in Zone D, Garrison® Bevelback Weatherboards must be fixed with stainless steel fasteners. Fasteners outside Zone D may be hot-dip galvanised steel.

Microclimatic conditions, including geothermal hot spots, industrial contamination and corrosive atmospheres, and contamination from agricultural chemicals or fertilisers can convert mildly corrosive atmospheres into aggressive environments for fasteners. The fixing of Garrison® Bevelback Weatherboards in areas subject to microclimatic conditions requires specific design in accordance with NZS 3604, Paragraph 4.2.4, and is outside the scope of this Product Certificate.

C2 PREVENTION OF FIRE OCCURRING

Separation or protection must be provided to Garrison® Bevelback Weatherboards from heat sources such as fireplaces, heating appliances and chimneys. Part 7 of NZBC Acceptable Solution C/AS1 and NZBC Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources.

C3 CONTROL OF EXTERNAL FIRE SPREAD

Refer to NZBC Acceptable Solutions C/AS1, C/AS2 and NZBC Verification Method C/VM2 for fire resistance rating (FRR) and control of external fire spread requirements for external walls.

Vertical Fire Spread

This Product Certificate only covers buildings 10 m or less in height. NZBC Functional Requirement C3.2 identifies that external vertical fire spread to upper floors only needs be to be considered for buildings with a building height greater than 10 m. Control of external fire spread is therefore outside the scope of this Product Certificate.

Horizontal Fire Spread

Garrison® Bevelback Weatherboards contain materials not tested or classified as non-combustible and are therefore not suitable for use on external walls where a FRR is required.

External Cladding Systems

Garrison® Bevelback Weatherboards contain materials not tested or classified as non-combustible. The weatherboards are suitable for use on external walls in accordance with the limits of NZBC Acceptable Solution C/AS1, Table 5.3.1.1 or NZBC Acceptable Solution C/AS2, Section 5.8.

E2 EXTERNAL MOISTURE

When installed in accordance with this Product Certificate and the Reference Document, Garrison® Bevelback Weatherboards will prevent the penetration of moisture that could cause undue dampness or damage to building elements.

The cavity must be sealed off from the roof and subfloor space to meet code compliance with NZBC Clause E2.3.5.

Garrison® Bevelback Weatherboards allow excess moisture present at the completion of construction to be dissipated without permanent damage to building elements, to meet code compliance with NZBC Clause E2.3.6.

The details given in the Reference Document for weather sealing are based on the principle of having a first and second line of defence against moisture entry for all joints, penetrations and junctions. The ingress of moisture must be excluded by detailing joinery and wall interfaces as shown in the Reference Document. Weathertightness details that are developed by the designer are outside the scope of this Product Certificate and are the responsibility of the designer for compliance with the NZBC.

E3 INTERNAL MOISTURE

Garrison® Bevelback Weatherboards are not a barrier to the passage of water vapour, and when installed in accordance with this Product Certificate will not create a risk of moisture damage resulting from condensation.

INSTALLATION REQUIREMENTS

Installation must be carried out in accordance with the Reference Document as listed in Section 6.

Garrison® Bevelback Weatherboards must be dry prior to installation. Before the weatherboards are installed, weatherboard ends and cut edges must be painted with two coats of exterior grade undercoat paint.

MAINTENANCE REQUIREMENTS

Regular maintenance is essential to ensure the performance requirements of the NZBC are continually met and to ensure the maximum serviceability of the weatherboards.

Regular cleaning (at least annually) of the paint coating is required to remove grime, dirt and organic growth and to maximise the life and appearance of the coating. Grime may be removed by brushing with a soft brush, warm water and detergent. Paint systems must be recoated at approximately 7-10 yearly intervals in accordance with the paint manufacturer's instructions.

Annual inspections must be made to ensure that all aspects of the weatherboards remain in a weatherproof condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress must be repaired immediately.

Product Certificate

Garrison® Bevelback Weatherboards

Certificate no: CMNZ10011
Version: 02
Original issue date: 07 March 2022
Version date: 29 May 2025

12. Supporting Information About Conditions and Limitations of Use

All conditions and limitations provided as stated in this Product Certificate.

Signatures

Claire Falck
CEO, BRANZ Limited.

All CodeMark certificates that are current much 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.