

BRANZ Appraised

Appraisal No. 487 (2024)

ULTRACLAD® HORIZONTAL WEATHERBOARD **CAVITY SYSTEM**

Appraisal No. 487 (2024)

This Appraisal replaces BRANZ Appraisal No. 487 (2019)

BRANZ Appraisals

Technical Assessments of products for building and construction.

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Product

- The Ultraclad® Horizontal Weatherboard Cavity System is a cavity-based, inter-locking powder-coated aluminium weatherboard system. It is designed to be used as an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.
- 1.2 The system includes horizontally fixed Ultraclad® weatherboards, timber battens, internal and external corner mouldings, starter strips, board jointers, board locators, joinery flashings and accessories.

Scope

- 2.1 The Ultraclad® Horizontal Weatherboard Cavity System has been appraised as an 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.
- 2.2 The Ultraclad® Horizontal Weatherboard Cavity System has also been appraised for weathertightness and structural wind loading when used as an external wall cladding system for buildings within the following scope:
 - the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regard to building height and floor plan area; and,
 - · constructed with timber framing complying with the NZBC; and,
 - · situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa.
- 2.3 The Ultraclad® Horizontal Weatherboard Cavity System must only be installed horizontally on vertical, flat surfaces.
- 2.4 The Ultraclad® Horizontal Weatherboard Cavity System is appraised for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (Note: The Appraisal of the Ultraclad® Horizontal Weatherboard Cavity System relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone or design wind pressure.)

Building Regulations

New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, the Ultraclad® Horizontal Weatherboard Cavity System, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. The Ultraclad® Horizontal Weatherboard Cavity System meets the requirements for loads arising from self-weight, earthquake, wind and impact [i.e. B1.3.3 [a], [f], [h] and [j]]. See Paragraphs 9.1–9.3.

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.2. The Ultraclad® Horizontal Weatherboard Cavity System meets these requirements. See Paragraphs 10.1-10.3.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. The Ultraclad® Horizontal Weatherboard Cavity System meets this requirement. See Paragraphs 14.1–14.5.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The Ultraclad® Horizontal Weatherboard Cavity System meets this requirement.

Technical Specification

4.1 System components and accessories for the Ultraclad® Horizontal Weatherboard Cavity System supplied by Vulcan Steel Ltd are:

Ultraclad® Weatherboards

- The following horizontally fixed Ultraclad® weatherboards are included in this Appraisal; Standard, Tee Board, Traditional, Shadoline, Infinity, Shado100, Shado140, Shiplap and Ulltraline.
 When installed, the cladding is effectively 15 mm thick. The weatherboards are supplied in 5 and 6 m lengths.
- Ultraclad® weatherboards are manufactured from 6060 T5 grade aluminium alloy. The boards are extruded, cut to length and are then coated with a 100% polyester powder coating.

Accessories

- Cavity vent strip a folded aluminium profile punched with 5 mm square holes in the bottom face to provide ventilation for the wall cavity and prevent the ingress of vermin. The cavity vent strip is available in 2.4 m lengths.
- Starter strips extruded aluminium profiles used to locate and secure the bottom of the first course of weatherboards. The starter strips are powder-coated and are available in 5 m lengths.
- External and internal corner moulding extruded aluminium 90° two-piece internal corner mould and 90° two-piece external corner mould. The mouldings are powder-coated and are available in 5 m lengths.
- Board jointer extruded aluminium 'H' jointer for jointing lengths of Ultraclad® weatherboard. The jointer is powder-coated and is available in 5 m lengths.
- Board locator an extruded aluminium locator used to locate the bottom edge and secure
 the top edge of individual weatherboard courses. The board locators are 50 mm long and are
 pre-drilled for fixing.
- **Ultraclad® head and jamb flashings** extruded aluminium to suit the window or door trim opening. The flashings are powder-coated and are available in 5 m lengths.
- Vertical track flashing 0.9 mm folded aluminium flashing (hemmed) or Dynex Dynaflash.
- Inter-storey joint flashing extruded aluminium. The flashing is powder-coated and is available
 in 5 m lengths.
- Ultraclad® weatherboard fixings 50 x 3.3 mm AISI-302Cu stainless steel screws.

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- 4.2 Accessories used with the Ultraclad® Horizontal Weatherboard Cavity System supplied by the building contractor are:
 - Flexible wall underlay building paper complying with NZBC Acceptable Solution E2/AS1, Table 23, or breather-type membranes covered by a valid BRANZ Appraisal 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 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.)
 - Rigid wall underlay plywood or fibre cement sheet complying with NZBC Acceptable Solution E2/AS1, Table 23, or rigid sheathing covered by a valid BRANZ Appraisal for use as rigid air barrier systems.
 - Flexible sill 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 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 with non-copper based treatments.
 - Separation strip 50 mm wide strip of roof underlay complying with NZBC Acceptable Solution, Table 23.
 - Cavity batten fixings 40 x 2.5 mm flat head hot-dip galvanised nails.
 - · Parapet flashing folded from aluminium.
 - · Head flashing folded from aluminium to suit the window or door joinery opening.
 - Inseal® 3109 tape black, compressible, low density PVC foam. The foam is coated on one side
 with pressure sensitive acrylic adhesive and the other face is covered by a silicone release paper.
 The tape is 19 mm thick and is supplied in rolls 10 mm wide and 12 m long.
 - 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 BRANZ Appraisal for use around window, door and other wall penetrations.
 - 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.

Handling and Storage

- 5.1 Handling and storage of all materials supplied by Vulcan Steel Ltd or the building contractor, whether on-site or off-site, is under the control of the building contractor. Ultraclad® weatherboards must be stacked flat, off the ground and supported on a level platform. They must be kept dry either by storing under cover or providing waterproof covers to the stack. Care must be taken to avoid damage to powder-coated surfaces. Weatherboards must always be carried on edge.
- 5.2 Cavity battens and other accessories must be stored so they are kept clean, dry and undamaged. All accessories must be used within the maximum storage period recommended by the manufacturer.

Technical Literature

- 6.1 This Appraisal must be read in conjunction with:
 - Ultraclad Horizontal Weatherboard Cavity System, Rev 11, 2024.
- 6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.



Design Information

Framing

Timber Treatment

7.1 Timber wall framing behind the Ultraclad® Horizontal Weatherboard Cavity System must be treated as required by NZBC Acceptable Solution B2/AS1.

Timber Framing

- 7.2 Timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and AS/NZS 1170. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604. In all cases, studs must be at maximum 600 mm centres, with dwangs fitted flush between the studs at maximum 800 mm centres.
- 7.3 Timber wall framing and cavity battens must have a maximum moisture content of 24% at the time of the cladding application.
- 7.4 Additional framing will be required at soffits, internal and external corners and window and door openings for the support and fixing of Ultraclad® weatherboards.

General

- Punchings in the cavity vent strip 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 9.1.8.3 (b).
- 8.2 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 system 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.
- At deck or low pitch roof/wall junctions, the bottom edge of the Ultraclad® weatherboards must be kept clear of any adjacent surface, or above the top surface of any adjacent roof flashing by a minimum of 35 mm in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.3.
- 8.4 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 and specifically designed buildings up to 2.5 kPa design differential ULS wind pressure. 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 cavity batten fixing lengths must be increased by a minimum of the thickness of the underlay.
- Where penetrations through the Ultraclad® Horizontal Weatherboard Cavity System are wider than the cavity batten spacing, allowance must be made for airflow between adjacent cavities. A minimum 10 mm gap must be left between the bottom of the vertical cavity batten and the flashing to the opening.
- 8.6 Inter-storey drained joints must be constructed in accordance with the Technical Literature. Inter-storey drained joints must be provided to limit continuous cavities to the lesser of two-storeys or 7 m in height, in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.9.4 (b).
- 8.7 Where the Ultraclad® Horizontal Weatherboard Cavity System abuts other cladding systems, designers must detail the junction to meet their own requirements and the performance requirements of the NZBC. Details not included with the Technical Literature have not been assessed and are outside the scope of this Appraisal.

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Structure

9.1 The mass of the Ultraclad® Horizontal Weatherboard Cavity System when installed on the wall is approximately 5 kg/m². The Ultraclad® Horizontal Weatherboard Cavity System is therefore considered a light wall cladding in terms of NZS 3604.

Impact Resistance

9.2 The Ultraclad® Horizontal Weatherboard Cavity System has good resistance to hard and soft body impacts likely to be encountered in normal residential use, although some chipping of the finish could occur. The likelihood of impact damage to the system 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.

Wind Zones

The Ultraclad® Horizontal Weatherboard Cavity System is suitable for use in all Wind Zones of 9.3 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, or up to design differential 2.5 kPa ULS wind pressure when the buildings are specifically designed.

Durability

Serviceable Life

- 10.1 The Ultraclad® Horizontal Weatherboard Cavity System is expected to have a serviceable life of at least 15 years provided the system is maintained in accordance with this Appraisal.
- 10.2 On exposure to the environment, the powder coating will gradually lose gloss and coloured coatings will slowly fade. A faster reduction in appearance and a reduction in serviceable life can be anticipated in severe industrial, geothermal, and marine exposures.
- 10.3 Microclimatic conditions, including geothermal hot spots, industrial contamination and corrosive atmospheres, and contamination from agricultural chemicals or fertilisers can convert mildly corrosive atmosphere into aggressive environments for fasteners. The fixing of Ultraclad® weatherboards and accessories 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 Appraisal.

Maintenance

- 11.1 Regular maintenance is essential for Ultraclad® Horizontal Weatherboard Cavity System installations to continue to meet the NZBC durability performance provision and to maximise their serviceable life.
- 11.2 Annual inspections must be made to ensure that all aspects of the cladding system, including flashings and any sealed joints remain in a weathertight condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant and the like must be repaired in accordance with the sealant manufacturer's instructions. Regular cleaning (at least every 6 months) of the powder coating with water and a mild detergent is required to remove grime, dirt and organic growth, to maximise the life and appearance of the cladding. Repainting of the powder coating may be considered necessary after 10 years in order to restore the appearance of the cladding. Repainting must be carried out in accordance with the paint manufacturer's instructions for treatment of aged powder-coated aluminium.
- 11.3 Minimum ground clearances as set out in this Appraisal must be maintained at all times during the life of the cladding. (Note: Failure to adhere to the minimum ground clearances given in this Appraisal and the Technical Literature will adversely affect the long term durability of the Ultraclad® Horizontal Weatherboard Cavity System.]



Control of External Fire Spread

12.1 Refer to NZBC Acceptable Solutions C/AS1 and C/AS2 for fire resistance rating and control of external fire spread requirements for external walls.

Vertical Fire Spread

12.2 This Appraisal 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 considered for buildings with a building height greater than 10 m. Control of external vertical fire spread is therefore outside the scope of this Appraisal.

Horizontal Fire Spread

12.3 Where the external wall is not protected by a sprinkler system or separated from the relevant boundary as required by C/AS1 or C/AS2, the cladding system will need to be installed over a fire resistance rated (FRR) external wall with the required FRR.

External Cladding System

12.4 Ultraclad® weatherboards are composed entirely of aluminium and are therefore defined as non- combustible, as per NZBC Acceptable Solutions C/AS1 and C/AS2, Appendix B Definitions and are suitable for use on external walls in accordance with NZBC Acceptable Solution C/AS1, Paragraph 5.3.1.1 a] and NZBC Acceptable Solution C/AS2, Section 5.8.

Prevention of Fire Occurring

13.1 Ultraclad® weatherboards are considered a non-combustible material and need not be separated from heat sources such as fireplaces, heating appliances and chimneys. However, when used in conjunction with, or attached to heat sensitive materials, the heat sensitive material must be separated from 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.

External Moisture

- 14.1 The Ultraclad® Horizontal Weatherboard Cavity System, when installed in accordance with this Appraisal and the Technical Literature prevents the penetration of moisture that could cause undue dampness or damage to building elements.
- 14.2 The cavity must be sealed off from the roof and subfloor space to meet compliance with NZBC Clause E2.3.5.
- 14.3 The Ultraclad® Horizontal Weatherboard Cavity System allows excess moisture present at the completion of construction to be dissipated without permanent damage to building elements to meet compliance with NZBC Clause E2.3.6.
- 14.4 The details given in the Technical Literature for weather sealing are based on the design 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 Technical Literature. Weathertightness details that are developed by the designer are outside the scope of this Appraisal and are the responsibility of the designer for compliance with the NZBC.
- 14.5 The use of the Ultraclad® Horizontal Weatherboard Cavity System where there is a designed cavity drainage path for moisture that penetrates the cladding, does not reduce the requirement for junctions and penetrations to remain weather-resistant.



Installation Information

Installation Skill Level Requirement

15.1 All design and building work must be carried out in accordance with the Ultraclad® Horizontal Weatherboard Cavity System Technical Literature and this Appraisal by competent and experienced tradespersons conversant with the Ultraclad® Horizontal Weatherboard Cavity System. 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 License Class.

System Installation

Building Underlay and Flexible Sill and Jamb Tape Installation

16.1 The selected building underlay and flexible sill and jamb tape system must be installed by the building contractor in accordance with the underlay and tape manufacturer's instructions prior to the installation of the cavity battens and the rest of the Ultraclad® Horizontal Weatherboard Cavity System. Flexible wall underlay must be installed horizontally and be continuous around corners. Underlay must be lapped 75 mm minimum at horizontal joints and 150 mm minimum over studs at vertical joints. Generic rigid sheathing materials must be installed in accordance with NZBC Acceptable Solution E2/AS1 and be overlaid with a flexible wall underlay. Proprietary systems shall be installed in accordance with the manufacturer's instructions. Particular attention must be paid to the installation of the building underlay and sill and jamb tapes around window and door openings to ensure a continuous seal is achieved and all exposed wall framing in the opening is protected.

Cavity Battens

- 16.2 Cavity battens must be installed over the building wrap to the wall framing at maximum 600 mm centres where the studs are at maximum 600 mm centres or at 400 mm centres where the studs are at 400 mm centres. The battens must be fixed in place with 40 x 2.5 mm hot-dip galvanised flat head nails at maximum 800 mm centres.
- 16.3 Where studs are at greater than 450 mm centres and a flexible wall underlay is being used, a wall underlay support must be installed over the underlay at maximum 300 mm centres horizontally to prevent the wrap bulging into the cavity space when bulk insulation is installed in the wall frame cavity.

Aluminium Joinery Installation

16.4 Aluminium joinery and associated head flashings must be installed by the building contractor in accordance with the Technical Literature. A 7.5–10 mm nominal gap must be left between the joinery reveal and the wall framing so a PEF rod and air seal can be installed after the joinery has been secured in place.

Ultraclad® Aluminium Weatherboard Installation

- Ultraclad® weatherboards may be cut on-site by power saw fitted with an aluminium cutting blade. Holes and cut-outs may be formed by drilling a number of holes around the perimeter of the opening required, or by using a holesaw suitable for cutting aluminium. When cutting the weatherboards on-site, a strip of masking tape must be applied to each side of the cut line to prevent the weatherboard finish from being damaged.
- 16.6 Ultraclad® weatherboards must be installed starting at the bottom of the wall. The first course of weatherboards must overhang the bottom plate by a minimum of 50 mm.
- 16.7 Before the weatherboards and starter strip are installed, the corner mouldings must be fixed in place. The corner mouldings must be continuous in length from the underside of the first weatherboard course to the soffit or top of the wall.
- 16.8 When the wall being clad is longer than 6 m, a board jointer must be fixed in place over a cavity batten directly over a stud. The jointer must be fixed plumb and must be continuous from the underside of the first weatherboard course to the soffit or top of the wall.

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- 16.9 The starter strip must be fixed through the cavity battens to the wall framing behind the first course of weatherboards. The starter strip for the Ultraclad® weatherboards must be fixed level and a 20 mm gap must be maintained between each end of the starter strip and the corner moulds or board jointer. The starter strip for the Vertical Plank must be fixed level and 3 mm diameter holes must be drilled in the base of the channel at 600 mm centres to allow for drainage.
- 16.10 Ultraclad® weatherboards are cut to length allowing a 4 mm gap at each end of the board for expansion. The first course of weatherboards must be locked into the tongue of the starter strip and must then be secured at the top of the board with board locators fixed through the cavity battens to the stud.
- 16.11 Subsequent courses of weatherboards must be installed over the tongue of the board locator from the course below, and must be secured at the top of the board with locators fixed through the cavity batten to the stud at maximum 600 mm centres.
- 16.12 Board fixing is carried out using 50 x 3.3 mm stainless steel screws.
- 16.13 Window and door joinery head and jamb flashings must be installed in accordance with the Technical Literature.

Finishing

16.14 The Ultraclad® Horizontal Weatherboard Cavity System is pre-finished and does not require painting at the completion of installation. Touch up of scratches and the like must be completed in accordance with the instructions of Vulcan Steel Ltd.

Health and Safety

17.1 Hearing and eye protection must be worn while cutting Ultraclad® weatherboards and accessories.

Basis of Appraisal

The following is a summary of the technical investigations carried out:

Tests

- 18.1 The following testing on the Ultraclad® Horizontal Weatherboard Cavity System has been completed by BRANZ:
 - The Ultraclad® Horizontal Weatherboard Cavity System has been tested to the version of NZBC Verification Method E2/VM1 as contained within NZBC Clause E2, Amendment 5, August 2011. BRANZ expert opinion on NZBC Clause E2 code compliance for the Ultraclad® Horizontal Weatherboard Cavity System was based on testing and evaluation of all details within the scope and as stated within this Appraisal. The testing assessed the performance of the foundation detail, window head, jamb and sill details, meter box head, jamb and sill details, vertical board joints, internal and external corners. In addition to the weathertightness test, the details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the system will meet the performance levels of NZBC Acceptable Solution E2/AS1 for drained cavity claddings.
 - Uniform wind face load tests to simulate wind pressures on Ultraclad® standard weatherboard were carried out by BRANZ, and the results were used in assessing the Ultraclad® Horizontal Weatherboard Cavity System.
 - A racking test was completed to examine the performance of the Ultraclad® Horizontal Weatherboard Cavity System when the system was subjected to both serviceability and ultimate level seismic racking deflections, taken to be ±8 mm and ±36 mm respectively. The system did not show signs of damage for the entire test program.

Other Investigations

- 19.1 Structural and durability opinions have been provided by BRANZ technical experts.
- 19.2 Site inspections have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.
- 19.3 The Technical Literature for the Ultraclad® Horizontal Weatherboard Cavity System has been examined by BRANZ and found to be satisfactory.

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Quality

- 20.1 The manufacture of Ultraclad® weatherboards has been examined by BRANZ, including methods adopted for quality control. Details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 20.2 The quality of materials, components and accessories supplied by Vulcan Steel Ltd is the responsibility of Vulcan Steel Ltd.
- 20.2 Quality of installation on-site of components and accessories supplied by Vulcan Steel Ltd and the building contractor is the responsibility of the installer.
- 20.3 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and joinery, building wraps, flashing tapes, air seals, joinery head flashings and cavity battens in accordance with the instructions of Vulcan Steel Ltd.
- 20.4 Sub-trades are responsible for installation of penetrations, flashings etc. that are relevant to their trade in accordance with the Ultraclad® Horizontal Weatherboard Cavity System Technical Literature.
- 20.5 Building owners are responsible for the maintenance of the Ultraclad® Horizontal Weatherboard Cavity System in accordance with the instructions of Vulcan Steel Ltd.

Sources of Information

- AS/NZS 1170:2002 Structural design actions.
- NZS 3602:2003 Timber and wood-based products for use in building.
- 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.





In the opinion of BRANZ, Ultraclad® Horizontal Weatherboard Cavity System is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to Vulcan Steel Ltd, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

- 1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.

2. Vulcan Steel Ltd:

- a) continues to have the product reviewed by BRANZ;
- b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
- c) abides by the BRANZ Appraisals Services Terms and Conditions;
- d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
- 3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by Vulcan Steel Ltd.
- 4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
- BRANZ provides no certification, guarantee, indemnity or warranty, to Vulcan Steel Ltd or any third party.

For BRANZ

Claire Falck Chief Executive

Nate of Issue

Date of Issue:

18 September 2024