



## BRANZ Appraised

Appraisal No. 556 [2019]

## NU-WALL ALUMINIUM CLADDING SYSTEM - VERTICAL DIRECT FIXED

### Appraisal No. 556 [2019]

This Appraisal replaces BRANZ  
Appraisal No. 556 [2007]

Amended 10 May 2022



### BRANZ Appraisals

Technical Assessments of  
products for building and  
construction.



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## Product

- 1.1 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is a direct fixed, 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 vertically fixed Nu-Wall weatherboards installed over an absorbent wall wrap, internal and external corner mouldings, vented base channel, board jointers, board locators, soffit caps, joinery flashings and accessories.

## Scope

- 2.1 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed has also been appraised as an external wall cladding for steel-framed 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 steel 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.
- 2.3 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed must only be installed vertically on vertical, flat surfaces. The tops of parapets and balustrades must have a minimum 5° slope and be waterproofed with metal cap flashings in accordance with the Technical Literature.
- 2.4 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone.]*



## Building Regulations

### New Zealand Building Code (NZBC)

3.1 In the opinion of BRANZ, the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed, 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed meets the requirements for loads arising from self-weight, wind and impact [i.e. B1.3.3 (a), (h) and (j)]. See Paragraphs 9.1-9.3.

**Clause B2 DURABILITY:** Performance B2.3.1 (b) 15 years. The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed meets this requirement. See Paragraphs 10.1-10.3.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed meets this requirement. See Paragraphs 14.1-14.5.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed meets this requirement.

## Technical Specification

4.1 System components and accessories for the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed, which are supplied by Aluminium Product Brands NZ Limited are:

### Nu-Wall Weatherboards

- Nu-Wall weatherboards are produced in a variety of profiles with covers ranging from 100 - 200 mm and are powder-coated or anodised on the exposed surfaces. When installed, the cladding is effectively 14.5 mm thick. Nu-Wall weatherboards are supplied in 6 m lengths as standard, but can be supplied up to 9 m long.
- Nu-Wall weatherboards are manufactured from 6063 T5 or 6060 T5 aluminium alloy. The boards and accessories are extruded, cut to length then either powder-coated or anodised.

### Accessories

- **Vented base channel** - an extruded aluminium profile used to locate and secure the bottom of the weatherboards. The vented base channel is powder-coated or anodised and is available in 6 m lengths.
- **External and internal corner moulding** - an extruded aluminium 90° two-piece internal corner mould and 90° two-piece external corner mould. The mouldings are powder-coated or anodised and are available in 6 m lengths.
- **Universal fixing bracket** - an extruded aluminium locator used to secure individual weatherboards. The board locators are 45 mm long and are predrilled for fixing.
- **J-Mould** - an extruded aluminium profile, powder-coated or anodised and available in 6 m lengths.
- **Nu-Wall sill flashing** - an extruded aluminium flashing to provide drainage for the sill area and conceal the ends of the weatherboards at the sill of window and door trim openings. The sill flashing is powder-coated or anodised and is available in 6 m lengths.
- **Nu-Wall jamb flashing** - an extruded aluminium two piece flashing to conceal the ends of the weatherboards at the jambs and sill of window and door trim openings. The jamb flashing is powder-coated or anodised and is available in 6 m lengths.
- **Nu-Wall weatherboard fixings (timber frame)** - 32 mm long, 8 g, Grade 304 stainless steel wood screws.
- **Nu-Wall weatherboard and thermal break fixings (steel frame)** - self drilling 8 g or 10 g TEK screws to Class 3 of AS 3566.2. The screw length must allow a minimum 10 mm penetration through the steel frame.
- **Foam tape** - closed-cell PVC foam tape is used with internal and external corner mouldings and jamb flashings to create a weather resistant seal.
- **Plastic soaker** - extruded polythene 110 mm wide with 2 mm upstands on each edge.



- 4.2 Accessories used with the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed, which are 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 behind non-absorbent, metal-based claddings.
  - **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 behind non-absorbent, metal-based claddings.
  - **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.
  - **Thermal break [steel frame]** – expanded polystyrene [EPS] in accordance with the requirements of NZBC Acceptable Solution E3/AS1, Paragraph 1.1.4 d).
  - **Parapet and inter-storey flashings** – folded from aluminium.
  - **Window and door joinery head flashing** – extruded or folded from aluminium to suit the window or door joinery opening.
  - **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 Aluminium Product Brands NZ Limited or the building contractor, whether on-site or off-site, is under the control of the building contractor. Nu-Wall 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 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 Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed. The Technical Literature must be read in conjunction with this Appraisal. 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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. Dwgans must be fitted flush between the studs at maximum 600 mm centres.

- 7.3 Timber wall framing 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, vertical joints and window and door openings for the support and fixing of Nu-Wall weatherboards.

#### **Steel Framing**

- 7.5 Steel framing must be to a specific design meeting the requirements of the NZBC.
- 7.6 The minimum framing specification is 'C' section studs and nogs of overall section size of 75 mm web and 32 mm flange. Steel thickness must be minimum 0.55 mm.
- 7.7 In all cases, studs must be at maximum 600 mm centres. Dwargs must be fitted flush between the studs at maximum 600 mm centres.

#### **General**

- 8.1 Punchings in the vented base strip provide a minimum ventilation opening area of 1,000 mm<sup>2</sup> 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.
- 8.3 At deck or low pitch roof/wall junctions, the bottom edge of the Nu-Wall 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. 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 fixing lengths must be increased by a minimum of the thickness of the underlay.
- 8.5 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 2-storeys or 7 m in height, in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.9.4 b).
- 8.6 Where the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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.

#### **Structure**

- 9.1 The mass of the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed, when installed on the wall, is approximately 6 kg/m<sup>2</sup>. The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is therefore considered a light wall cladding in terms of NZS 3604.

#### **Impact Resistance**

- 9.2 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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

- 9.3 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is suitable for use in all Building Wind Zones of NZS 3604 up to, and including, Extra High.

### Durability

#### Serviceable Life

- 10.1 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is expected to have a serviceable life of at least 25 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 galvanised TEK screws for fixing to steel framing and AliBat battens must only be used in hidden areas within NZS 3604 corrosion zones B and C. The fixing of Nu-Wall 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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 2 years] 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. More frequent washing may be required in harsh environments [e.g. coastal marine, industrial or geothermal]. Repainting of the powder coating may be considered necessary at some stage during the life of the cladding 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed.]*

### Control of External Fire Spread

#### Vertical Fire Spread

- 12.1 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 to 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

- 12.2 Nu-Wall weatherboards are composed entirely of aluminium and are therefore defined as non-combustible, as per NZBC Acceptable Solution C/AS2 Definitions. When Nu-Wall weatherboards are uncoated or have a directly applied surface finish of no more than 1 mm in thickness, they can be used within 1 m of the relevant boundary. This meets the requirements of Paragraph 5.4 of NZBC Acceptable Solution C/AS1 and Paragraph 5.8.2 a) of NZBC Acceptable Solution C/AS2.
- 12.3 Refer to NZBC Acceptable Solutions C/AS1 and C/AS2, and Verification Method C/VM2 for fire resistance rating and control of external fire spread requirements for external walls.



## Prevention of Fire Occurring

- 13.1 Nu-Wall weatherboards are considered a non-combustible material and need not be separated from heat sources such as fireplaces, heating appliances, flues 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, flues and chimneys. Part 7 of NZBC Verification Method C/VM1 and 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed, 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 formed by the weatherboards must be sealed off from the roof and sub-floor space to meet compliance with NZBC Clause E2.3.5.
- 14.3 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed 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 Nu-Wall Aluminium Cladding System - Vertical Direct Fixed where there is a designed drainage path for moisture that penetrates the cladding, does not reduce the requirement for junctions and penetrations to remain weather resistant.

## Internal Moisture

### Water Vapour

- 15.1 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is not a barrier to the passage of water vapour, and when installed in accordance with this Appraisal and the Technical Literature will not create or increase the risk of moisture damage resulting from condensation. Refer to Paragraph 15.2 for specific requirements for steel-framed buildings.
- 15.2 Where the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is installed over a steel frame, **an expanded polystyrene thermal break must be installed over each steel member behind the building wrap** to provide a thermal break, in accordance with the requirements of NZBC Acceptable Solution E3/AS1, Paragraph 1.1.4 d). The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is then installed over the top of the thermal break, in accordance with the Technical Literature and this Appraisal.

## Installation Information

### Installation Skill Level Requirement

- 16.1 All design and building work must be carried out in accordance with the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed Technical Literature and this Appraisal by competent and experienced tradespersons conversant with the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed. 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

17.1 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 rest of the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed. Flexible building 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.

### Nu-Wall Weatherboard Installation

- 17.2 Nu-Wall 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.
- 17.3 Establish the lowest point where the cladding is to start and ensure that the vented base channel can extend minimum 50 mm below the bottom plate. The vented base channel should be installed level around the building perimeter and must be fixed through the channel upstand into the bottom plate. A gap must be maintained between each end of the vented base channel and the corner moulds to allow the corner mould to finish flush with the bottom of the channel.
- 17.4 Fix the base section of the corner mouldings in place. The corner mouldings must be continuous in length from the underside of the vented base channel to the soffit, top of the wall or inter-storey joint.
- 17.5 Nu-Wall vertical weatherboards must be installed starting at a corner. Where possible, the full thickness of the weatherboard profile should occur wherever there is a vertical break. The weatherboards must overhang the bottom plate by a minimum of 50 mm.
- 17.6 When the wall being clad is higher than two storeys, an inter-storey drained joint must be installed at the floor joist level.
- 17.7 Nu-Wall weatherboards are cut to length allowing a 1 mm gap per metre of board for expansion. The first course of weatherboards must be slotted into the vented base channel and must then be secured at the side of the board with universal fixing brackets fixed to the dwangs at maximum 600 mm centres. Ensure that the fixing bracket engages correctly with the fixing fin of the board and that the board is held firmly with no sideways pressure on it. This should eliminate distortion or cupping of the weatherboard.
- 17.8 Subsequent weatherboards must be locked into the channel of the board beside it, and must be secured at the side of the board with universal fixing brackets fixed to the dwangs at maximum 600 mm centres.
- 17.9 Board fixing into timber framing is carried out using 32 mm long, 8 g stainless steel screws. Fixing into steel framing is carried out with self-drilling 8 g or 10 g TEK screws.
- 17.10 Window and door joinery flashings must be installed in accordance with the Technical Literature.

### Aluminium Joinery Installation

17.11 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.

### Finishing

17.12 The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed is prefinished 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 Aluminium Product Brands NZ Limited.

## Health and Safety

18.1 Hearing and eye protection must be worn while cutting Nu-Wall weatherboards and accessories.

## Basis of Appraisal

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

### Tests

19.1 The following testing on the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed has been completed by BRANZ:

- BRANZ expert opinion on NZBC E2 code compliance for the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed was based on testing and/or evaluation of all details within the scope and as stated within this Appraisal. The Nu-Wall Aluminium Cladding System - Vertical Direct Fixed was tested using the relevant components of NZBC Verification Method E2/VM1 [as contained within NZBC Clause E2, Amendment 4] alongside a panel of vertical profiled metal cladding installed as per NZBC Acceptable Solution E2/AS1. The testing assessed the performance of the foundation detail, window head, jamb and sill details and vertical board joints against the performance of the profiled metal cladding system. 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 direct fixed profiled metal claddings.
- Weathertightness performance limits testing of different Nu-Wall weatherboard profiles was completed to determine their expected performance limits when subjected to the relevant components of the NZBC Verification Method E2/VM1 test method.
- Wind face load and fastener pull through testing. BRANZ determined design wind suction pressures, and by comparing these pressures with AS/NZS 1170 pressure coefficients, the fixing requirements were determined for timber and steel framed walls.

### Other Investigations

- 20.1 Structural and durability opinions have been provided by BRANZ technical experts.
- 20.2 Site inspections have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.
- 20.3 The Technical Literature for the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed has been examined by BRANZ and found to be satisfactory.

### Quality

- 21.1 The manufacture of Nu-Wall weatherboards and aluminium accessories has been examined by BRANZ, and details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 21.2 The quality of materials, components and accessories supplied by Aluminium Product Brands NZ Limited is the responsibility of Aluminium Product Brands NZ Limited.
- 21.3 Quality of installation on-site of components and accessories supplied by Aluminium Product Brands NZ Limited and the building contractor is the responsibility of the installer.
- 21.4 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 inter-storey flashings in accordance with the instructions of Aluminium Product Brands NZ Limited.
- 21.5 Sub-trades are responsible for installation of penetrations, flashings etc that are relevant to their trade in accordance with the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed Technical Literature.
- 21.6 Building owners are responsible for the maintenance of the Nu-Wall Aluminium Cladding System - Vertical Direct Fixed in accordance with the instructions of Aluminium Product Brands NZ Limited.



## Sources of Information

- AS/NZS 1170:2002 Structural design actions - General principles.
- 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.

## Amendments

### Amendment No. 1, dated XX Month 2022

This Appraisal has been amended to update the system name.



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Appraisal No. 556 [2019]  
15 October 2019

NU-WALL ALUMINIUM CLADDING  
SYSTEM - VERTICAL DIRECT FIXED



In the opinion of BRANZ, **Nu-Wall Aluminium Cladding System - Vertical Direct Fixed** 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 **Aluminium Product Brands NZ Limited**, 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. **Aluminium Product Brands NZ Limited:**
  - 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 workmanship;
  - 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 **Aluminium Product Brands NZ Limited**.
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.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Aluminium Product Brands NZ Limited** or any third party.

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For BRANZ

**Chelydra Percy**

Chief Executive

Date of Issue:

10 May 2022