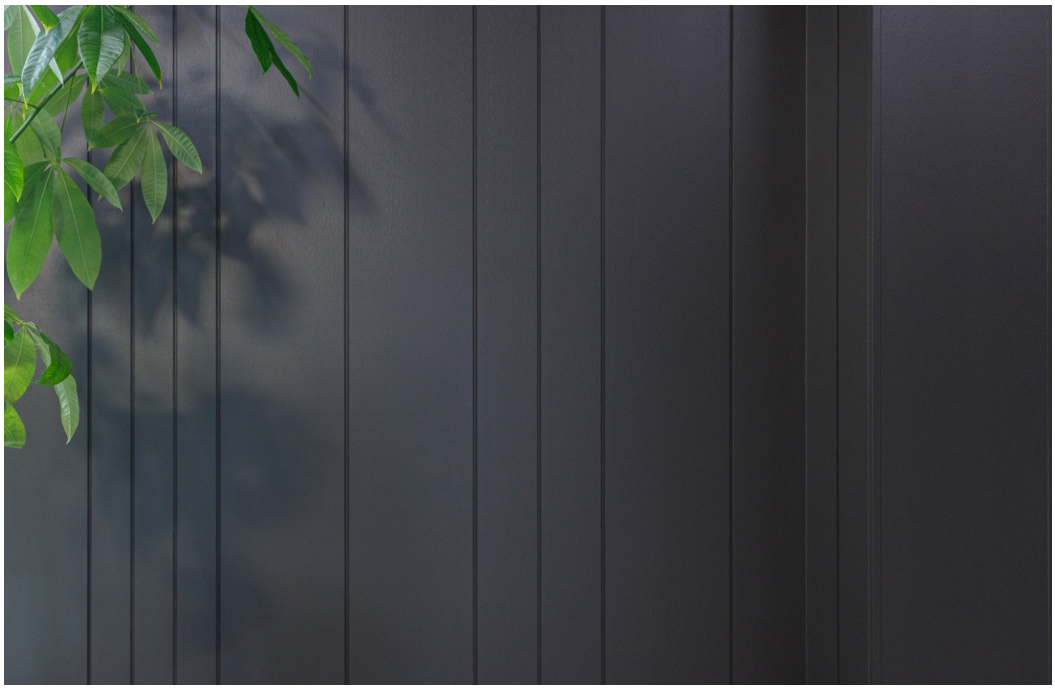
BRANZ Appraised

Appraisal No. 1295 (2026)

AKERA VERTICAL SHIPLAP WEATHERBOARD CLADDING



Appraisal No. 1295 (2026)

BRANZ Appraisals

Technical Assessments of products for building and construction.

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Product

1.1 Akera Vertical Shiplap Weatherboard Cladding is a cavity-based, shiplap-jointed fibre cement wall cladding 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 Akera Vertical Shiplap Weatherboard Cladding consists of Akera fibre cement weatherboards fixed over castellated timber battens or vented battens to form a cavity. The cladding is finished with a latex paint system.

Scope

Timber Framing

2.1 Akera Vertical Shiplap Weatherboard Cladding has been appraised for use as an external wall cladding for timber-framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1 for timber-framed buildings; and,
- with a risk score of 0–20, calculated in accordance with NZBC Acceptable Solution E2/AS1; and,
- situated in Wind Zones up to, and including, Extra High determined in accordance with NZS 3604.

Steel Framing

2.2 Akera Vertical Shiplap Weatherboard Cladding has been appraised for use as an external wall cladding for steel-framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS4 and NASH Building Envelope Solutions; and,
- with a risk score of 0–20, calculated in accordance with NASH Building Envelope Solutions; and,
- situated in Wind Zones up to, and including, Extra High determined in accordance with NZS 3604.

Specific Design

2.3 Akera Vertical Shiplap Weatherboard Cladding 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 for timber-framed buildings; and,
- constructed with framing subject to specific engineering design; and,
- situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa determined in accordance with AS/NZS 1170.2.

Installation over 40 mm Structural Cavity Battens

2.4 Akera Vertical Shiplap Weatherboard Cladding installed over 40 mm structural cavity battens has been appraised as an external wall cladding system for timber-framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1; and,
- situated in NZS 3604 Wind Zones up to, and including, Very High when battens are at maximum 600 mm centres, and NZS 3604 Wind Zone Extra High and specific design wind pressures up to a maximum design differential ULS of 2.5 kPa when battens are at maximum 480 mm centres.

2.5 Akera Vertical Shiplap Weatherboard Cladding must only be installed vertically on vertical, flat surfaces.

2.6 Akera Vertical Shiplap Weatherboard Cladding must only be used with window and doors that comply with NZBC Acceptable Solution E2/AS1 or that are covered by a valid BRANZ Appraisal or NZ CodeMark certification.

Building Regulations

New Zealand Building Code (NZBC)

3.1 **In the opinion of BRANZ, Akera Vertical Shiplap Weatherboard Cladding, 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. Akera Vertical Shiplap Weatherboard Cladding meets the requirements for loads arising from self-weight, wind, impact and creep [i.e. B1.3.3 (a), (h), (j) and (q)]. See Paragraphs 9.1-9.3.

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.2. Akera Vertical Shiplap Weatherboard Cladding meets these requirements. See Paragraphs 10.1 and 10.2.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. Akera Vertical Shiplap Weatherboard Cladding meets this requirement. See Paragraphs 14.1-14.5.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Akera Vertical Shiplap Weatherboard Cladding meets this requirement.

Technical Specification

4.1 System components and accessories for Akera Vertical Shiplap Weatherboard Cladding which are supplied by CLAD Solutions Limited are:

Akera shiplap weatherboards

- Akera shiplap weatherboards are 12 mm thick fibre cement weatherboards manufactured of a cellulose-cement composite to meet the requirements of AS/NZS 2908.2. The weatherboards are factory-primed, ready for painting and are coloured grey. They are identified by 'Akera' and a batch code printed on the back of the boards.
- Akera shiplap weatherboards are available in five profiles:
  - **AKS 200** - 200 mm wide, in 3,000 or 3,600 mm lengths.
  - **AKS 300** - 300 mm wide, in 3,000 or 3,600 mm lengths.
  - **AKS 301** - 300 mm wide with one groove, in 3,000 or 3,600 mm lengths.
  - **AKS 302** - 300 mm wide with two grooves, in 3,000 or 3,600 mm lengths.
  - **AK 350** - 350 mm wide, square edge, in 3,600 mm lengths.

Accessories

- **Vented Timber Cavity Batten** - 45 x 20 mm timber cavity batten with castellations on one face and a sloping top, LOSP treated to H3.1, available 2,700 mm long.

- **40 mm Structural Horizontal Cavity Batten** - 45 x 40 mm timber cavity batten with wide castellations on the back face and narrow slots on the front face and a sloping top, LOSP treated to H3.1, available 2,700 mm long.
- **12 mm Internal Corner Profile** – 1.2 mm thick aluminium flashing, 3,000 mm long.
- **12 mm External Corner Profile** – 1.2 mm thick aluminium flashing, 3,000 mm long.
- **12 mm Trim Flashing** - 1.2 mm thick aluminium flashing, 3,000 mm long.
- **Horizontal Z Flashing** - 0.9 mm thick alternative option for horizontal joints, 3,000 mm long.
- **35 mm Drained Inter-storey Flashing** - 0.9 mm aluminium flashing, 3,000 mm long.
- **53 mm Drained Inter-story Flashing** - 0.9 mm aluminium flashing, 3,000 mm long.
- **Flat Back Flashing** - 70 mm wide x 0.9 mm aluminium flashing, 3,000 mm long.
- **Trim Flashing Jointer** - 0.9 mm aluminium flashing, 100 mm long.

4.2 Accessories specific to Akera Vertical Shiplap Weatherboard Cladding, which are supplied by the building contractor are:

- **Fixings for 20 mm cavity battens and flashings** - 40 x 2.8 mm or longer flat head nails for timber framing or 50 mm x 10 g countersunk screws for steel framing.
- **Fixings for weatherboards to 20 mm cavity battens** – 65 x 2.87 mm D-head or 65 x 3.1 mm round head ring shank nails (for flexible wall underlay) or 75 x 3.06 mm D-head or 75 x 3.1 mm round head ring shank nails (for rigid wall underlay up to 10 mm thick).
- **Nail fixings for 40 mm structural cavity battens to timber frame** - 65 x 2.87 mm (for flexible wall underlay) or 75 x 3.06 mm (for rigid wall underlay up to 13 mm thick) RounDrive ring shank nails.
- **Screw fixings for 40 mm structural cavity battens to timber frame** - 75 mm x 10 g (for flexible wall underlay) or 80 mm x 10 g (for rigid wall underlay up to 13 mm thick) or 90 mm x 10 or 12 g countersunk screws.
- **Fixings for weatherboards to 40 mm structural cavity battens** - 50 x 2.87 mm D-head ring shank nails or 50 x 3.1 mm round head ring shank nails.
- **20 mm cavity battens for steel framing** - Drispace Vent VB20 Ventilated Batten.
- **Fixings for weatherboards to steel framing** - 65 mm x 10-12 g (for flexible wall underlay) or 75 mm x 10-12 g (for rigid wall underlay up to 10 mm thick) countersunk screws.
- **Penetration seal** - Marshall Trade-Seal or an alternative penetration seal with a current BRANZ Appraisal or NZ CodeMark certification for use with a wall underlay and with a serviceable life equal to that of the cladding.

(Note: All fixings must be hot-dip galvanised or stainless steel. Hot-dip galvanising must comply with AS/NZS 4680 and stainless steel fixings must be Grade 316.)

4.3 Accessories used with Akera Vertical Shiplap Weatherboard Cladding to a generic specification in accordance NZBC Acceptable Solutions E2/AS1, E2/AS4 or covered by a relevant and valid BRANZ Appraisal or NZ CodeMark Certification, which are supplied by the building contractor, are:

- Flexible wall underlay
- Flexible wall underlay restraint
- Rigid wall underlay
- Flexible flashing tape
- Thermal break (steel framing)
- Vertical cavity battens
- Cavity base closer/vermin strip
- Flexible air seals
- Sill support bars
- Window head flashing
- Flashings
- Scribers and cover boards
- Sealant

Paint System Specification

4.4 Paint systems are not supplied by CLAD Solutions Limited and have not been assessed, and are therefore outside the scope of this Appraisal.

4.5 Before installing Akera shiplap weatherboards, all cut edges or exposed edges must be sealed on-site with a primer suitable for the selected proprietary acrylic paint system.

4.6 All exposed faces, including top edges at sills and bottom edges of the Akera shiplap weatherboard, trim and accessories must be finished with a latex exterior paint system complying with AS 3730.

Handling and Storage

5.1 Handling and storage of all materials supplied by CLAD Solutions Limited, whether on-site or off-site, is under the control of the building contractor and shall be handled according to the requirements in the Technical Literature.

5.2 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:

- Akera Vertical Shiplap Weatherboard Technical Manual - Cavity Fixed, dated December 2025.
- Akera Vertical Shiplap Weatherboard Technical Manual - 40 mm Structural Horizontal Cavity Batten, dated December 2025.
- Akera Cladding to Steel Framing - Technical Supplement, dated December 2025.
- Akera Vertical Shiplap weatherboard on steel framing, dated December 2025.

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 framing 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 a building 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.

7.3 Studs must be at maximum 600 mm centres. Nogs/dwangs must be in a continuous line and be fitted flush between the studs. Nogs/dwangs must be spaced at maximum 600 mm centres in NZS 3604 Wind Zones up to, and including, Very High.

7.4 40 mm structural cavity battens can be spaced at 600 mm centres for NZS 3604 Wind Zones up to, and including, Very High and must be spaced at 480 mm centres for NZS 3604 Wind Zone Extra High or up to ULS 2.5 kPa wind pressure.

7.5 The maximum moisture content of timber framing must be in accordance with NZBC Acceptable Solution E2/AS1.

Steel Framing

7.6 Steel framing must comply with NASH Standard Part Two for buildings or parts of buildings within the scope limitations of NASH Standard Part Two. Buildings or parts of buildings outside the scope of NASH Standard Part Two must be to a specific design. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NASH Standard Part Two.

7.7 The minimum framing specification is 'C' section studs and nogs/dwangs of overall section size of 75 mm web and 32 mm flange. Steel thickness must be minimum 0.55 mm and a minimum grade G2.

7.8 Studs must be at maximum 600 mm centres in Low, Medium, High and Very High Wind Zones and maximum 400 mm centres for the NASH Building Envelope Solutions Extra High Wind Zone and specifically designed buildings, with nogs/dwangs fitted flush between the studs at maximum 600 mm centres.

General

8.1 When Akera Vertical Shiplap Weatherboard Cladding is used for specifically designed buildings up to design differential 2.5 kPa ULS wind pressure, only the weathertightness aspects of the cladding and maximum framing centres are within the scope of this Appraisal. All other aspects of the building need to be specifically designed and are outside the scope of this Appraisal.

8.2 Ground clearance to finished floor levels as set out in NZS 3604 must always be adhered to.

8.3 The horizontal separation between the wall cladding and the adjacent ground must be maintained in accordance with NZS 3604.

8.4 The bottom of cladding must have separations, clearances and overlaps in accordance with NZBC Acceptable Solution E2/AS1.

8.5 All external walls shall have barriers to airflow in accordance with NZBC Acceptable Solution E2/AS1 and for specifically designed buildings up to a 2.5 kPa design differential ULS wind pressure a rigid underlay is required.

8.6 Penetrations through Akera Vertical Shiplap Weatherboard Cladding shall be in accordance with NZBC Acceptable Solution E2/AS1 and the Technical Literature.

8.7 Inter-storey junctions in claddings are required in accordance with NZBC Acceptable Solution E2/AS1 and shall be detailed in accordance with the Technical Literature.

8.8 Where Akera Vertical Shiplap Weatherboard Cladding abuts other cladding systems, designers must detail the junction to meet their own requirements and the performance requirements of the NZBC. The Technical Literature provides guidance for using Akera Vertical Shiplap Weatherboard Cladding at junctions. Details not included with the Technical Literature have not been assessed and are outside the scope of this Appraisal.

Structure

Mass

9.1 The mass of Akera Vertical Shiplap Weatherboard Cladding, when installed on the wall, ranges from 15.1 to 15.6 kg/m^2 and is therefore considered a light wall cladding in terms of NZS 3604 and NASH Standard Part Two.

Impact Resistance

9.2 Akera Vertical Shiplap Weatherboard Cladding has good resistance to hard and soft body impacts likely to be encountered in normal residential use. The likelihood of impact damage to the cladding when used in light commercial situations should be considered at the design stage, and appropriate protection such as the installation of bollards and barriers provided for vulnerable areas.

Wind Zones

9.3 Akera Vertical Shiplap Weatherboard Cladding installed on 20 mm cavity battens is suitable for use in all 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 or NASH Building Envelope Solutions. Akera Vertical Shiplap Weatherboard Cladding is also suitable for use where timber-framed buildings are specifically designed, up to 2.5 kPa design differential ULS wind pressure.

9.4 Akera Vertical Shiplap Weatherboard Cladding installed on 40 mm structural cavity battens spaced at 600 mm centres is suitable for use in all Wind Zones of NZS 3604 up to, and including, Very High where buildings are designed to meet the requirements of NZBC Acceptable Solution E2/AS1. Akera Vertical Shiplap Weatherboard Cladding installed on 40 mm structural cavity battens spaced at 480 mm centres is also suitable for use where timber-framed buildings are in the Extra High Wind Zone of NZS 3604, or specifically designed up to 2.5 kPa design differential ULS wind pressure.

Durability

10.1 Akera Vertical Shiplap Weatherboard Cladding meets the performance requirements of NZBC Clause B2.3.1 (b) 15 years for the weatherboards and flashings.

Serviceable Life

10.2 Akera Vertical Shiplap Weatherboard Cladding installations are expected to have a serviceable life of at least 35 years, provided the paint coating system is maintained in accordance with this Appraisal, to ensure the Akera shiplap weatherboards and fixings remain dry in service. Akera Vertical Shiplap Weatherboard Cladding must be painted within 30 days of fixing.

10.3 Coastal locations can be very 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. These coastal locations are defined in NZS 3604 as Zone D. To achieve an extended serviceable life in Zone D, battens must be fixed with stainless steel fasteners. Fixings outside Zone D may be hot-dip galvanised steel.

10.4 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 use of Akera Vertical Shiplap Weatherboard Cladding in areas subject to microclimatic conditions requires specific design in accordance with NZS 3604 and is outside the scope of this Appraisal.

Maintenance

11.1 Regular maintenance in accordance with the Technical Literature is essential for Akera Vertical Shiplap Weatherboard Cladding to continue to meet the NZBC durability performance provision and to maximise its serviceable life.

11.2 Annual inspections must be made to ensure that all aspects of the cladding system, including the paint coating system, flashings and any sealed joints remain in a weatherproof condition. Any damaged areas, or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant and paint coatings must be repaired in accordance with the sealant or paint coating manufacturer's instructions.

11.3 All exterior surfaces require an annual clean, a thorough soft wash with soapy water. Caustic-based preparations should never be used. Paint systems must be recoated at approximately 7-15 year intervals in accordance with the paint manufacturer's instructions.

11.4 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 Akera Vertical Shiplap Weatherboard Cladding.)*

Prevention of Fire Occurring

12.1 Akera 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 heat sources such as fireplaces, heating appliances and chimneys. NZBC Acceptable Solutions C/AS1 and C/AS2 provide methods for separation and protection of combustible materials from heat sources.

Control of External Fire Spread

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

Vertical Fire Spread

13.2 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

13.3 Where required by NZBC Acceptable Solutions 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 Systems

13.4 Akera weatherboards achieve a Type A classification when tested to ISO 5660.1 in accordance with the requirements of the NZBC Building Product Specifications.

13.5 Cladding materials must comply with the fire performance requirements of NZBC Acceptable Solutions C/AS1 or C/AS2 based on the building height, distance of the external wall to the relevant boundary and if the building is sprinklered. Akera Vertical Shiplap Weatherboard Cladding has not been assessed for use where these requirements apply.

External Moisture

14.1 Akera Vertical Shiplap Weatherboard Cladding, when installed in accordance with this Appraisal and the Technical Literature, prevents the penetration of water that could cause undue dampness or damage to building elements.

14.2 The drained cavity must be sealed off to restrict air movement between the drained cavity; and: floor, wall and roof framing, and attic roof space, and subfloor space as required by NZBC Acceptable Solution E2/AS1.

14.3 Construction moisture must be managed in accordance with NZBC Acceptable Solution E2/AS1 to ensure construction moisture is not permitted to damage building elements.

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 Akera Vertical Shiplap Weatherboard Cladding, where there is a designed cavity drainage path for moisture that penetrates the cladding, does not reduce the requirements for junctions, penetrations etc. to remain weather-resistant.

Internal Moisture

Water Vapour

15.1 Akera Vertical Shiplap Weatherboard Cladding 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.

15.2 Where Akera Vertical Shiplap Weatherboard Cladding is installed over a steel frame, a thermal break must be installed to the outside face of each steel member meeting the requirements of NZBC Acceptable Solutions E3/AS1, E2/AS4 and NASH Building Envelope Solutions.

15.3 Buildings must be constructed with an adequate combination of thermal resistance and ventilation, and space temperature must be provided to all habitable spaces, bathrooms, laundries and other spaces where moisture may be generated or may accumulate.

Installation Information

Installation Skill Level Requirement

16.1 All design and building work must be carried out in accordance with the Akera Vertical Shiplap Weatherboard Cladding Technical Literature and this Appraisal by competent and experienced tradespeople conversant with Akera Vertical Shiplap Weatherboard Cladding. 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.

System Installation

Wall Underlay and Flexible Sill and Jamb Tape Installation

17.1 The selected wall underlay and flexible flashing tape must be installed in accordance with the underlay and tape manufacturer's instructions, prior to the installation of the cavity battens and Akera Vertical Shiplap Weatherboard Cladding. 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 or NASH Building Envelope Solutions 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 wall underlay and flexible flashing tapes around window and door openings and penetrations to ensure a continuous seal is achieved and all exposed wall framing in the opening is protected.

17.2 Where studs are at greater than 450 mm centres and a flexible wall underlay is being used, a flexible wall underlay restraint in accordance with the Appraisal technical specification must be installed over the underlay to prevent the insulation from bulging the building underlay into the cavity.

20 mm Cavity Battens Fixed to Nogs/Dwangs

17.3 Cavity battens must be installed over the wall underlay to the wall framing (nogs/dwangs) at maximum 600 mm centres. The battens must be installed with the top edge sloping away from the wall underlay towards the back of the weatherboards. The 20 mm cavity battens must be fixed by the cladding fixings through the timber battens to the timber framing.

40 mm Cavity Battens Fixed to Studs

17.4 The 40 mm structural cavity battens must be structurally fixed to the wall framing (studs) at maximum 600 mm centres using the fixings specified in the Technical Literature.

Cavity Battens - Steel Framing

17.5 Cavity battens are fixed to all steel framing members with a thermal break fixed to the exterior side of the framing. The battens will be fixed by the cladding fixings so are tacked in position at approximately 400 mm centres.

Akera Vertical Shiplap Weatherboard Cladding Installation

17.6 Akera shiplap weatherboards may be cut on-site by power saw. Holes and cut-outs may be formed by drilling a number of holes around the perimeter of the opening required and tapping out the centre with a hammer, or by using a hole saw. Blades and drill bits should be tungsten carbide tipped.

17.7 Prior to cladding, ensure all pipes and penetrations have been sealed as per NZBC Acceptable Solution E2/AS1.

17.8 Weatherboards must be dry prior to installation. Before the weatherboards are installed, cut ends exposed to the exterior must be sealed with an acrylic sealer to provide a suitable surface for the sealant to adhere to.

17.9 Akera Vertical Shiplap Weatherboard Cladding must be installed starting at the side of the wall. The bottom edge of weatherboards must overhang the bottom plate by a minimum of 50 mm.

17.10 Before the weatherboards are installed, check the set out is correct and corner detail prepared to suit the selected option, e.g. corner profile external box corner. The necessary flashings, including window flashings, must be installed before commencing weatherboard fixing.

17.11 The minimum laps of Akera Vertical Shiplap Weatherboard Cladding are predetermined by the machine joint detail. Weatherboards should be set out so as near to a full board as possible will finish to the jambs of windows and doors.

17.12 Akera Vertical Shiplap Weatherboard Cladding shall be strictly installed in accordance with the fixing instructions given in the manufacturer's Technical Literature. Particular attention shall be paid to the requirement to pre-drill all fixings when using countersunk screws. Check D head gun nails or screw fixings finish 2 mm below the weatherboard surface. All fixings must penetrate the framing or structural cavity batten by a minimum of 35 mm.

Joinery Installation

17.13 Joinery must be installed in accordance with the appraised Technical Literature and any Technical Literature of the joinery manufacturer. The joinery must be installed plumb, level and fixed in accordance with NZBC Acceptable Solution E2/AS1 or the joinery manufacturer's Technical Literature.

Inspections

17.14 The Technical Literature must be referred to during the inspection of Akera Vertical Shiplap Weatherboard Cladding installations.

Finishing

17.15 The paint coating manufacturer's instructions must be followed at all times for application of the paint finish. Akera shiplap weatherboards and trim must be clean and dry before painting commences.

Health and Safety

18.1 Protective equipment must be worn/used as required by the Technical Literature and manufacturer's instructions.

Basis of Appraisal

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

Tests

19.1 The following testing on Akera Vertical Shiplap Weatherboard Cladding has been completed by BRANZ:

- Testing in accordance with AS/NZS 2908.2 including dimensional characteristics, MoR, bending strength properties, density, water permeability, frost resistance, warm water, soak-dry and heat-rain.
- Face load and small scale connection testing.

- Testing in accordance with ISO 5660.1. Akera shiplap weatherboards achieved a Type A classification. Testing was carried out in accordance with the NZBC Building Product Specifications.

Other Investigations

20.1 Structural, durability, weathertightness and fire 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 manufacturer's Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

21.1 The quality management system of the manufacture of Akera shiplap weatherboards has been assessed and registered as meeting the requirements of ISO 9001.

21.2 The quality of materials, components and accessories supplied by CLAD Solutions Limited is the responsibility of CLAD Solutions Limited.

21.3 Quality on-site is the responsibility of the installer, in accordance with the Akera Vertical Shiplap Weatherboard Cladding Technical Literature.

21.4 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and joinery, wall underlays, flashing tapes, air seals and cavity battens in accordance with the instructions of CLAD Solutions Limited.

21.5 Sub-trades are responsible for the installation of penetrations, flashings etc. that are relevant to their trade in accordance with the Akera Vertical Shiplap Weatherboard Cladding Technical Literature.

21.6 Building owners are responsible for the maintenance of Akera Vertical Shiplap Weatherboard Cladding in accordance with the instructions of CLAD Solutions Limited.

Sources of Information

- AS 3730 Guide to the properties of paints for buildings.
- AS/NZS 1170:2002 Structural design actions.
- AS/NZS 2908.2:2000 Cellulose-cement products - Flat sheet.
- AS/NZS 4680:2006 Hot-dip galvanized (zinc) coatings on fabricated ferrous articles.
- ISO 5660.1:2002 Heat release rate (cone calorimeter method).
- NASH Building Envelope Solutions: 2019.
- NASH Standards Part Two: 2019 Light steel-framed buildings.
- NZS 3602:2003 Timber and wood-based products for use in building.
- NZS 3603:1993 Timber structures standard.
- NZS 3604:1999 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.

BRANZ

In the opinion of BRANZ, Akera Vertical Shiplap Weatherboard Cladding 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 CLAD Solutions 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. CLAD Solutions 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 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 CLAD Solutions 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 CLAD Solutions Limited or any third party.

For BRANZ

Claire Falck
Chief Executive

Date of Issue:
23 February 2026