# Certificate of Conformity

**Certification Body:**

CMI CERTIFICATION
ABN: 81 663 250 815
JAS-ANZ Accreditation
No. Z4450210AK
PO Box 273,
Palmwoods Qld 4555
Australia
P: +61 7 5445 2199
www.cmicert.com.au
office@cmicert.com.au

**Certificate Holder:**

etex inspiring ways of living
Etex Australia Pty Ltd
ABN: 61003621010
31 Military Road, Matraville,
NSW 2036
Australia
P: +61 2 9311 6908
www.innovafibrecement.com.au

**Certificate number: CM40406**

THIS IS TO CERTIFY THAT

## Stratum™ External Wall Cladding System

**Type and/or use of product:**

Stratum™ External Wall Cladding System is a fibre cement external wall cladding system (direct fixed) for residential and commercial buildings.

**Description of product:**

Stratum™ External Wall Cladding System is a 12mm thick fibre cement weatherboard-style system, mechanically fixed directly to the outer face of suitable wall framing.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2022**

| | Volume One | | Volume Two | |
|---|---|---|---|---|
| **Performance Requirement(s):** | B1P1(1), (2)(c) | Structural reliability – Resistance to wind actions | H1P1(1), (2)(c) | Structural reliability – Resistance to wind actions |
| | F3P1 | Weatherproofing - External walls subject to Limitation and Condition No. 2. | H2P2 | Weatherproofing – External walls subject to Limitation and Condition No. 2. |
| **Deemed-to-Satisfy Provision(s):** | C2D2 | Fire resistance and stability – Refer Limitation and Condition 4 for FRLs achieved. | H3D2(1)(d) | Non-combustible building elements – Fibre-reinforced cement sheeting – Panel Only |
| | C2D9 | Lightweight construction– Fibre-reinforced cement sheeting – Panel Only | H3D3 | Fire separation of external walls – Refer Limitation and Condition 4 for FRLs achieved. |
| | C2D10(6)(d) | Non-combustible building elements – Fibre-reinforced cement sheeting – Panel Only | H6D2(1) | Energy Efficiency – Contributes to the overall energy efficiency of the building - Refer A3 |
| | C2D11 | Fire Hazard Properties – Group Number | H7D4(2)(a) | Construction in bushfire prone areas – Subject to Limitation and Condition No. 7, 8 & 9 |
| | G5D3 | Construction in bushfire prone areas – Subject to Limitation and Condition No. 7, 8 & 9 | | |
| | J4D6 | Energy Efficiency – Contributes to the overall energy efficiency of the building - Refer A3 | | |
| **State or territory variation(s):** | G5D3 NSW | | H7D4 NSW, QLD & SA | |

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

**Limitations and conditions:**

**Building classification/s:**

**Richard Donarski – CMI**

**Don Grehan – Unrestricted Building Certifier**

**Date of issue:** 18/07/2024

**Date of expiry:** 18/07/2027

# Certificate of Conformity

| | | |
|---|---|---|
| **1.** | Stratum™ External Wall Cladding System must be installed in accordance with the Stratum™ Weatherboards Technical brochure July 2024. | Class 1,2,3,4,5,6,7,8,9 & 10 |
| **2.** | To satisfy F3P1 & H2P2 via verification requires the site specific evaluation of the relevant design against F3V1 and/or H2V1 to the satisfaction of the Appropriate Authority as defined by the NCC:<br>(i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table F3V1a/H2V1a; and<br>(ii) is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and<br>(iii) includes only windows that comply with AS 2047.<br>This is deemed to include AS 4055 Wind Classifications N1w, N2w, N3w, N4w, C1w & C2w, and excludes AS 4055 Wind Classifications, N5w, N6w, C3w & C4w. Waterproofing applications that exceed 2.5kPa Ultimate Limit State Wind Pressure, and do not exceed 5.97kPa Ultimate Limit State Wind Pressure are outside the scope of this certification and Compliance with Weatherproofing is subject to site specific design and approval by the regulatory authority. Refer to A6. | |
| **3.** | For Class 2 to Class 9 buildings, the Stratum™ External Wall Cladding System is suitable for only Type C Fire-Resisting Construction when fixed to timber stud framing. | |
| **4.** | Compliance with FRL is dependent on the system being constructed in accordance with Stratum™ Weatherboards Technical brochure July 2024 as outlined in A3. Any deviation from the assessed system does not form part of this certificate of conformity.<br>a. For timber and steel framing applications, if the Stratum™ External Wall Cladding System is used as part of a wall system, the wall system achieves an **FRL 60/60/60** when 12mm Stratum™ Weatherboard is installed in conjunction with 1 layer of 16mm GTEK™ Fire and Wet Area Plasterboard on the external fireside. On the internal side, with 1 layer of 10mm GTEK™ Plasterboard to be installed as the internal wall lining.<br>b. For timber and steel framing applications, if the Stratum™ External Wall Cladding System is used as part of a wall system, the wall system achieves an **FRL 90/90/90** when 12mm Stratum™ Weatherboard is installed in conjunction with 2 layers of 16mm GTEK™ Fire and Wet Area Plasterboard on the external fireside where joints in the second layer are to be staggered relative to joints in the first layer or ensuring that the joints in the first layer of plasterboard are lapped by the second sheet. On the internal side, with 1 layer of 10mm GTEK™ Plasterboard is to be installed as the internal wall lining.<br>c. Construction methods for external walls required to be fire resisting in relation to class 1 and 10 buildings and structures must comply with Part 9.2 of the ABCB Housing Provisions. | |
| **5.** | The structural certification is limited to the cladding only and does not include the sub-structure. Stratum™ Weatherboards must be fixed to a structurally adequate external wall frame in accordance with the appropriate span tables in section A3. The structural support members are designed and engineered separately as per project requirements by building designers and engineers. In all cases, it is a requirement that the Stratum™ External Wall Cladding System incorporates either;<br>a. A timber frame constructed in accordance with AS 1684 or AS 1720.1; or<br>b. A cold-formed steel frame constructed in accordance with NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria; or<br>c. Framework compliant with the above minimum requirements and other standards, and the Building Code of Australia as applicable | |
| **6.** | In all installations the minimum clearance between the underside of panel and the adjoining ground surface level below must comply with the specifications in Part 7.5.7 of the ABCB Housing Provisions. | |
| **7.** | Stratum™ External Wall Cladding System is suitable for use on buildings located in a designated Bushfire Prone Area subject to a Bushfire Attack Level (BAL) up to and including BAL–FZ when constructed in accordance with AS 3959:2018 (subject to state and territory variations) as outlined in A3 for a Class 1 building, a Class 2 building, a Class 3 building, or a Class 10a building. | |
| **8.** | Compliance with BAL Low-FZ is limited to the tested system that achieve a minimum of FRL of 30/30/30. Refer A3 for FRL systems. It is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959-2018. | |
| **9.** | In NSW, Stratum™ External Wall Cladding System is suitable for use on buildings located in a designated Bushfire-Prone Area:<br>a. For a Class 1 building, a Class 2 building, a Class 3 building, a Class 4 part of a building, or a Class 10a building when constructed in accordance with AS 3959:2018 except as amended by Planning for Bush Fire Protection for BAL–40.<br>b. For a Class 9 building, that is a special fire protection purpose located in an area subject to a Bushfire Attack Level (BAL) not exceeding BAL–12.5 determined in accordance with AS 3959:2018. | |
| **10.** | The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below. | |

**Scope of certification:** The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the Certificate Holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

# Certificate of Conformity

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity.

**Disclaimer:** The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CMI Certification Pty Ltd (CMI) has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

## APPENDIX A – PRODUCT TECHNICAL DATA

**A1 Type and intended use of product**

As per page 1.

**A2 Description of product**

Stratum™ weatherboards are a 12 mm thick fibre cement weatherboard manufactured by Etex Australia.

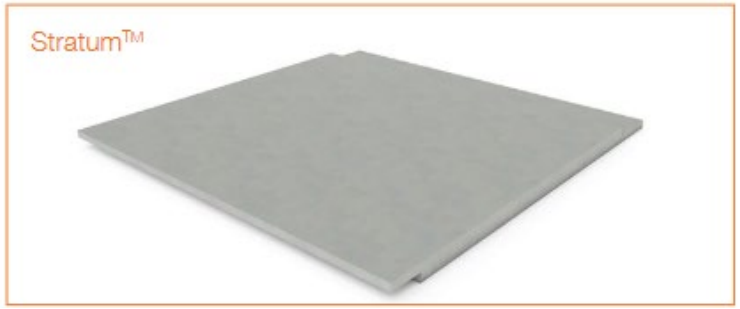
They are acrylic sealed with a 'square' end that is typically joined on a double-stud (off-stud jointing is possible in limited applications).

| Thickness (mm) | Profile | Weight kg/lm | Width (mm) | Length (mm) |
|---|---|---|---|---|
| 12 | Stratum™ | 4.8 | 300 | 4200 |

Weight is based on Equilibrium Moisture Content.

**Stratum™ External Wall Cladding System utilizes:**

- Stratum™ 12 mm thick fibre cement panel
- Internal aluminium corner flashing, external aluminium corner flashing,
- Snap-on external aluminium corner parts B & C,
- Stratum™ joiner,
- EPDM foam gasket,
- Sealant.
- Self-drilling screws and nails, specified by Innova, are supplied by others.
- Durabarrier Rigid Air Barrier System
- GTEK™ Fire and Wet Area 16mm Board
- GTEK™ 10mm Plasterboard




**Stratum™ External Wall Cladding System Accessories**

| Name | Description | Product Code |
|---|---|---|
| Internal Aluminium Corner for Stratum™ | 3000mm x 17mm | INTCNR17 |
| External Aluminium Corner for Stratum™ | 3000mm x 17mm | EXTCNR17 |
| External Aluminium Corner Snap on Corner Part B | 3600mm x 45mm | SNAPCNRB36 |
| External Aluminium Corner Snap on Corner Part C | 3600mm x 45mm | SNAPCNRC36 |
| Stratum™ Joiner | 3000mm x 12mm | STRJNR12 |
| EPDM Foam Gasket Strip | 25m | 845 |
| Sealant | Sikaflex 11FC or similar | 485 |

**A3 Product specification**

**Structural reliability – Resistance to wind actions (B1P1 & H1P1)**

**Stratum™ Fixing and Framing Requirements - Timber and Steel Frame**

| Wind Classification AS 4055 | Max. Design Ultimate Limit State Wind Pressure AS/NZS 1170.2 (kPa) | | Max. Stud Spacing (mm) | | Timber Framing (AS 1684 or AS 1720.1) | Steel Framing (NASH or AS 3623) |
|---|---|---|---|---|---|---|
| | Within 1200mm of Corners | Away from Corners | Within 1200mm of Corners | Away from Corners | | |
| **N1w** | -0.9 | -0.53, +0.62 | 600 | 600 | 3 x 50 x 14G ND Brads (2 x face fixed, 1 x concealed fixed) **OR** 2 x 50 x 2.87 fibre cement clouts (1 x face fixed, 1 x concealed fixed) **OR** 2 x 50 x 2.87 ring shank Dekfast nail (1 x face fixed, 1 x concealed fixed) | min. 0.55mm BMT G550 1 x face fix **AND** 1 x concealed fixing required[5,7] |
| **N2w** | -1.3 | -0.74, +0.86 | | | | |
| **N3w** | -2.03 | -1.16, +1.35 | | | | |
| **N4w** | -3.01 | -1.72, +2.01 | 450 | 450 | 3 x 50 x 14G ND Brads (2 x face fixed, 1 x concealed fixed) | min. 0.75mm BMT G550 1 x face fix **AND** 1 x concealed fixing required [5,7] |
| **N5w** | -4.27 | -2.14, +2.30 | 450 | 450 | suitable, screw fixed only[6,7] 1 x face fixing **AND** 1 x concrete fixing required | |
| **N6w** | -5.77 | -2.88, +3.11 | 300 | 450 | | |
| **C1w** | -1.95 | -0.98, +1.05 | 450 | 450 | 2 x 50 x 2.87 ring shank Dekfast nail (1 x face fixed, 1 x concealed fixed) | |
| **C2w** | -2.9 | -1.45, +1.56 | 450 | 450 | | |
| **C3w** | -4.27 | -2.14, +2.30 | 450 | 450 | suitable, screw fixed only[6,7] 1 x face fixing **AND** 1 x concrete fixing required | |
| **C4w** | -5.77 | -2.88, +3.11 | 300 | 450 | | |

**Notes:**

1. For Weatherproofing in N1w, N2w, N3w, N4w, C1w, C2w, use either AS/NZS 4200.1 vapour permeable moisture barrier; or Durabarrier Rigid Air Barrier System.
2. For Weatherproofing in N5w, N6w, C3w, C4w, or for max. SLS wind pressures greater than +0.82 kPa & -1.23 kPa (max. ±2.5 kPa), use Durabarrier Rigid Air Barrier System.
3. Joints may be made off-stud in N1w, N2w, N3w for max. 450mm stud spacing, only when the boards being joined are supported by a minimum of 3 studs and by continuous boards above & below.
4. For N4w, N5w, N6w, C1w, C2w, C3w, C4w & for Max, Des. ULS Wind Pressures >2.03kPa, all joints shall be made on double-studs, & all weatherboards shall span at least 3 supports.
5. Screw fixings shall be at minimum 10-18 Buildex Fibre Teks with minimum 2-3 full-threads protruding through the steel sup- porting member. All screws shall be pre-drilled and countersunk with Countersinking Tool.
6. Screw fixings to timber framing shall be at minimum 10-8 Fibre Cement with minimum 35mm embedment into the timber framing. All screws shall be pre-drilled and countersunk with Countersinking Tool
7. All fixing lengths shall be increased; by 6mm when used in conjunction with Durabarrier Rigid Air Barrier System; and, by the thickness of any thermal-break insulation where installed.

8. ***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024.*

| | |
|---|---|
| **Material Testing (C2D9)** | Stratum™ has been subject to BCA Specification 6 Structural tests for lightweight construction Test Methods outlined in S6C10 material tests. The relevant S6C10(a) standard adopted by reference in the BCA for Stratum™ is AS/NZS 2908 Part 2 – Cellulose-cement products — Flat sheets. The material properties of Stratum™ have been determined by testing in accordance with AS/NZS 2908.2 by an Accredited Testing Laboratory, Stratum™ Weatherboard is classified Type A, Category 4 in accordance with AS/NZS 2908.2:2000.<br><br>***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024.* |
| **Fire resistance Level (C2D2(2) & H3D3)** | The fire performance of Stratum™ External Wall Cladding System as an external wall to achieve a Fire Resistance Level (FRL), as required by Clause C2D2 for Type A Fire-Resisting Construction, including Specification 5 & Part 9.2.3(2) of the ABCB Housing Provisions has been verified by prototype testing & assessment performed by an Accredited Testing Laboratories in accordance with the requirements of AS 1530.4:2014, and as detailed in Stratum™ Weatherboards Technical brochure July 2024.<br><br>Stratum™ External Wall Cladding System incorporating 12mm Stratum™ weatherboard, installed on a stud framed wall maximum 6.5m in height, either 90 mm deep timber studs or 92 mm deep 0.75mm bmt steel studs, at maximum 600mm spacing, noggins at maximum 1200mm spacing, fixing spacing maximum 200mm, including; sarking between Stratum™ and 16mm GTEK™ Fire and Wet Area Plasterboard fixed to the external face of the framing; optional insulation in the framing cavity; jointing and base slab connection details; floor junction detail; framed wall trussed roof detail; internal lining of 10mm GTEK™ Standard Plasterboard; if tested in accordance with AS 1530.4:2014 will likely achieve an FRL of:<br><br>- **60/60/60** with 1x16mm GTEK™ Fire and Wet Area Plasterboard installed on the external face of the framing as well as 10mm GTEK™ Standard Plasterboard on the inside.<br>- **90/90/90** with 2x16mm GTEK™ Fire and Wet Area Plasterboard installed on the external face of the framing as well as 10mm GTEK™ Standard Plasterboard on the inside.<br><br>**NOTE:** All exterior walls must have vapour permeable moisture barrier directly behind the Stratum™. No adhesives are to be used when installing GTEK™ Fire and Wet Area 16mm and the Stratum™. Nails or screws must be used.<br><br>***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and Warringtonfire Australia Pty Ltd Report number: FAS200381, Revision: R1.3 dated 08/07/2022.* |
| **Non-combustible (C2D10 & H3D2)** | Stratum™ Weatherboards are suitable for use where non-combustible materials are required in accordance with C2D10(6)(d) and H3D2(1)(d) of the Building Code of Australia as fibre-reinforced cement sheeting that complies with AS/NZS 2908.2:2000. Non-combustibility has also been verified by material testing performed by an Accredited Testing Laboratories in accordance with the requirements of AS 1530.1:1994. Non-combustible does not extend to include the joiners for the purpose of C2D10.<br><br>***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and Ignis Labs Pty Ltd Test Report No. IGNL-6089-01R I01 R01 dated 27/06/2022.* |
| **Fire Hazard Properties (C2D11)** | The Stratum™ weatherboard achieved a Group Number of 1, and Average Specific Extinction Area (ASEA) of 10.9 m2/kg<br><br>***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and AWTA Product Testing Report No. 22-001353 dated 09/05/2022.* |
| **Bushfire Protection (G5D3 & H7D4)** | **BAL-40**<br><br>The use of the Stratum™ External Wall Cladding System incorporating Stratum™ weatherboards as described in *Stratum™ Weatherboards Technical brochure July 2024* has been assessed by an accredited testing laboratory to be an acceptable use of the product to satisfy the prescribed requirements of AS 3959:2018 as part of an external wall to achieve a bushfire resistance performance of BAL– 40, with particular reference to requirements for joint sealing and the detailing requirements Clause 3.6.1 for vents, weepholes, gaps and screening materials.<br><br>**BAL-FZ**<br><br>Stratum™ External Wall Cladding System incorporating Stratum™ weatherboards in conjunction with GTEK™ Fire and Wet Area 16 mm on the external side of the wall framing and GTEK™ 10mm Standard Plasterboard on the internal side of the wall framing, detailed per Sections 8.1 & 8.3 of Fire Assessment Report FAS200381 R1.3 (8 July 2022), has been assessed by an accredited testing laboratory as achieving FRL's that exceed the AS 3959:2018 BAL-FZ Clause 9.4.1(c) requirement for 30/30/30 when tested from the outside<br><br>***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and Warringtonfire Report No: 23616-R7.0, Ref: No: FAS220109 dated 27/05/2022.* |

**Weatherproofing (F3P1 & H2P2)**

The Stratum™ External Wall Cladding System weatherproofing test in accordance with FV1.1 and V2.2.1, **incorporating a vapour permeable moisture barrier conforming with AS 4200.1:2017 and installed in accordance with AS 4200.2:2017**, is recognised for those applications with stud spacings up to 600 mm as detailed in Stratum™ Weatherboards Technical brochure July 2024 Table 04 with **maximum design serviceability limit state wind pressures of +0.82 kPa and -1.23 kPa**, and **maximum design ultimate limit state wind pressures of ± 2.5kPa.**

***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and Ian Bennie and Associates Test Reports No. 2019-019-S5 dated 29/06/2019 and Test Report No. 2019-019-S8 dated 17/12/2019*

**Energy Efficiency (J4D6, H6D2(1))**

The Total R-values of Stratum™ External Wall Cladding System have been determined as:

| Total R-values ($m^2K/W$) incorporating thermal bridging in accordance with AS/NZS 4859.1:2018 | | | |
|---|---|---|---|
| Timber Framing (with R2.5 batts) | | Steel Framing (with R2.5 batts) | |
| **Winter** | **Summer** | **Winter** | **Summer** |
| 2.39 ($U_T$ = 0.42 $W/m^2K$) | 2.28 ($U_T$ = 0.42 $W/m^2K$) | 2.02 ($U_T$ = 0.42 $W/m^2K$) | 1.94 ($U_T$ = 0.42 $W/m^2K$) |

These insulation R-values and Total R-values may be used:

- as inputs into an analysis for determining heating and cooling load limits using house energy rating software in accordance with S42C2 for demonstrating compliance with Clause H6D2(1)(a), or
- to satisfy the requirements of 13.2.5, where lightweight walls are required to include minimum insulation R-values or Total R-values.

For the purposes of determining the J4D6 Total System U-Value of wall-glazing construction as a combination of wall and glazing components comprising the envelope of a building, the contributions of $U_T$ in the above table may be used for this purpose. J4D6(4) requires wall components of a wall-glazing system to achieve a minimum Total R-value of:

- R1.0 where the wall is less than 80% of the wall-glazing construction, or
- The Total R-value specified in Table J4D6a where the wall is 80% or more of the wall-glazing construction

The Stratum™ External Wall Cladding System meets the Table J4D6a Minimum Deemed-to-Satisfy Total R-value requirements with the exception of Class 3 or 9c building or Class 9a ward areas in Climate Zones 1, 3, 4, 6, 7 & 8.

***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024.*

**A4 Manufacturer and manufacturing plant(s)**

This field is optional. Contact the Certificate Holder for details.

**A5 Installation requirements**

The Stratum™ External Wall Cladding System must be installed in accordance with the Stratum™ Weatherboards Technical brochure July 2024.

**A6 Other relevant technical data**

**Weatherproofing (F3P1 & H2P2)**

The weatherproofing performance of Stratum™ External Wall Cladding System installed in applications where an external wall;

(i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with NCC 2022, BCA Volume One Table F3V1(a), Volume Two Table H2V(a); and

(ii) is subjected to an absolute ultimate limit state wind pressure of more than 2.5kPa but not more than 5.97kPa, see Section Structural reliability – Resistance to wind actions for specific configuration requirements; and

(iii) includes only windows that comply with AS 2047;

has been verified by a combination of prototype testing in accordance with the requirements of AS/NZS 4284, wind strength testing of the Stratum™ External Wall Cladding System, a Certificate of Accreditation, and other documentary evidence.

Based on these results, the Stratum™ External Wall Cladding System, incorporating a vapour permeable moisture barrier conforming with AS 4200.1 and installed in accordance with AS 4200.2, is limited to external wall applications where the design serviceability limit state wind pressure, calculated in accordance with AS/NZS 1170.2 Structural Design Actions Part 2: Wind Actions, does not exceed +0.82kPa and -1.23kPa.

This is deemed to include AS 4055 Wind Classifications N1w, N2w, N3w, N4w, C1w & C2w, and excludes AS 4055 Wind Classifications, N5w, N6w, C3w & C4w.

The optional inclusion of Durabarrier Rigid Air Barrier System (as tested and reported above), to replace the "Vapour Permeable Moisture Barrier", as shown in Stratum™ Weatherboards, Technical Brochure, July 2024, has the effect of increasing the maximum design serviceability limit state wind pressure, calculated in accordance with AS/NZS 1170.2 Structural Design Actions Part 2: Wind Actions, to ±2.5kPa.

This is deemed to include AS 4055 Wind Classifications N1w, N2w, N3w, N4w, N5w, N6w, C1w, C2w, C3w & C4w).

The optional inclusion of "16mm GTEK™ Fire and Wet Area";

- between the wall framing and the "Vapour Permeable Moisture Barrier*", shown in the Stratum™ Weatherboards Technical brochure July 2024.Figure 37 or
- between the wall framing and the Durabarrier Rigid Air Barrier, and the additional requirements specific to achieving the required fire safety performance, is not considered to affect the weatherproofing performance as tested and assessed above.

***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and Ian Bennie and Associates Test Reports No. 2019-019-S5 dated 29/06/2019 and Test Report No. 2019-019-S8 dated 17/12/2019*

**Rising Damp (F1P4 & H2P3)**

The damp-proofing performance of the Stratum™ External Wall Cladding System to prevent unhealthy or dangerous conditions, or loss of amenity and undue dampness or deterioration of building elements is primarily achieved based on detailing that requires the Stratum™ External Wall Cladding System to be installed with a minimum 150mm clearance to well drained open ground or finished concrete or concrete/tiled level. In addition, a damp proof course (not supplied by Innova) is detailed beneath the bottom plate, see *Stratum™ Weatherboards Technical brochure July 2024, Figure 2.*

***Source:*** *Acronem Consulting Report ACA 200821 dated 26/06/2024 and Stratum™ Weatherboards Technical brochure July 2024*

## APPENDIX B – EVALUATION STATEMENTS

**B1 Evaluation methods**

1. Energy Efficiency Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a certificate or report from a professional engineer or other appropriately qualified person.
2. Fire Safety Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a certificate or report from a professional engineer or other appropriately qualified person.
3. Structural Resistance Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a certificate or report from a professional engineer or other appropriately qualified person.
4. Weatherproofing Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a certificate or report from a professional engineer or other appropriately qualified person.

**B2 Reports**

1. Acronem Consulting Australia Pty Ltd; Report No. ACA 200821; Innova Stratum™ External Wall Cladding System, NCC 2022 Volumes One, Two & Housing Provisions – External Walls; Dated 26/06/2024. This report provides evidence and validates the below test reports for compliance with; B1P1(1), (2)(c), H1P1(1), (2)(c), F3P1, H2P2, C2D2, H3D3, C2D9, C2D10(6)(d), H3D2(1)(d), C2D11, J4D6, H6D2(1), G5D3 & H7D4(2)(a). Test reports validated:
    a. Warringtonfire Aus Pty Ltd; NATA Accreditation No. 3277; Report No. FAS200381 Revision 1.3; Assessment of FRLs ; Dated08/07/2022. Report provides evidence of FRLS for compliance with C2D2(2) & H3D3.
    b. Acronem Consulting Australia Pty Ltd; Calculation No. W230501a; Calculation of Total Thermal Resistance, Stratum™ External Wall Cladding System (R2.5 batts, 90x45mm timber studs at 600mm centres &10mm plasterboard; Dated 01/05/2023. Calculations are in accordance with H6D2(1) and J4D6.
    c. Acronem Consulting Australia Pty Ltd; Calculation No. W230501b Calculation of Total Thermal Resistance, Stratum™ External Wall Cladding System (R2.5 batts, 90x35mm steel studs at 600mm centres &10mm plasterboard; Dated 01/05/2023. Calculations are in accordance with H6D2(1) and J4D6.
    d. BRANZ Test Report DC11346-001; Material testing of Fibre-cement product; Dated 19/09/2019. Testing in accordance with Specification 6 Material Testing for compliance with C2D9.
    e. BRANZ Test Report: DC14165-01-1, Properties of Fibre-Cement Weatherboard, Type A Category 4; Dated 24/12/2021. Testing in accordance with Specification 6 Material Testing for compliance with C2D9.
    f. Ian Bennie Associates; NATA Accreditation #2371; Test Report No. 2019-109 Report 1 - ASTM E695-79 impact test modified to the requirements of NCC Vol. 1; Dated 11/02/2020. Testing in accordance with Specification 6 Material Testing for compliance with C2D9.
    g. Ian Bennie Associates; NATA Accreditation #2371; Test Report No. 2019-109 Report 2 - Surface Indentation Tests to NCC; Dated 14/02/2020. Testing in accordance with Specification 6 Material Testing for compliance with C2D9.
    h. Ignis Labs Pty Ltd; Test Report No. IGNL-6089-01R I01 R01; Dated 27/06/2022. Report provides evidence for compliance with C2D10 & H3D2.
    i. AWTA Product Testing Pty Ltd; Test Report No. 22-001353; Dated 09/05/2022. Report documents the results of testing in accordance with AS 5637.1 with group number and ASEA for compliance with C2D11.
    j. Warringtonfire Report No: 23616-R7.0, Ref: No: FAS220109; Dated 27/05/2022. Report provides evidence for compliance with G5D3 & H7D4.
    k. Ian Bennie and Associates; NATA Accreditation No. 2371; Test Report No. 2019-019-S5; Dated 29/06/2019. Report provides evidence for compliance with F3P1 & H2P2.
    l. Ian Bennie and Associates; NATA Accreditation No. 2371; Test Report No. 2019-019-S8; Dated 17/12/2019. Report provides evidence for compliance with F3P1 & H2P2.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.