

Certificate number: CM40331 Rev1

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THIS IS TO CERTIFY THAT

Walsc® 50mm & 75mm External Wall Cladding System

Type and/or use of product:

Walsc® External Wall Cladding System is used to clad external residential single storey or multi-storey loadbearing walls.

Description of product:

Walsc® 50mm & 75mm External Wall Cladding System comprises lightweight steel reinforced Autoclaved Aerated Concrete (AAC) Wall Panels.

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

BCA 2022 (Amdt. 2)

| | Volume One | Volume Two |
|---|-------------------------|---|
| Performance Requirement(s): | | |
| | B1P1(1),(2)(a), (b)&(c) | Structural stability and resistance – Subject to <i>limitation and condition 10,11 &12.</i> |
| | B1P2 | Structural Resistance - Subject to <i>limitation and condition 10,11 &12.</i> |
| | F3P1 | Weatherproofing – Subject to <i>Limitation and condition 3</i> |
| Deemed-to-Satisfy Provision(s): | | |
| | C2D2(2) | Fire properties for materials and construction – Construction of external walls subject to <i>limitation and condition 2.</i> |
| | C2D10 | Non-combustible building elements |
| | G5D3 | Construction in bushfire prone areas – Subject to <i>limitation and condition 6</i> |
| | J4D6(4) | Energy efficiency – Walls & Glazing |
| State or territory variation(s): | G5D3 (NSW) | H7D4 (NSW, QLD & SA) |


 Glen Gugliotti – CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 01/04/2026

Date of expiry: 17/12/2027



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

Limitations and conditions:

1. Construction shall be in strict accordance with the [Walsc External Wall Cladding System 50 Design & Installation Guide April 2026](#) & [Walsc External Wall Cladding System 75 Light Design and Installation Guide April 2026](#)
2. Compliance with FRL is dependent on the system components being as specified in A3. Any deviation from the tested specimen does not form part of this certificate of conformity.
3. To satisfy F3P1 & H2P2 via verification, the relevant design is required to meet the criteria of F3V1 & H2V2 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
 - a) have a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table F3V1a and Table H2V1a; and
 - b) not be subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
 - c) include only windows that comply with AS 2047
4. Compliance with Weatherproofing is limited to the tested specimen, deviations from this specimen, is subject to site specific design and approval by the regulatory authority.
5. In order to maintain compliance with BAL, it is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959:2018.
6. Compliance with BAL-FZ is limited to the requirements of Section 9.1 of AS 3959:2018 and requires a minimum distance of 10m from the edge of any classified vegetation. This product is not suitable to be installed where the 10m setback distance between the building and the edge of the classified vegetation cannot be achieved.
7. In order to comply with the NSW provisions of G5D3, a site-specific performance solution is to be prepared in line with the Planning for Bush Fire Protection 2019 guidance document.
8. Walsc[®] External Wall Cladding System must be fixed to a structurally adequate external wall frame in accordance with the appropriate span tables in section A3.
9. No assessment has been undertaken on the product for F8D1 of Volume 1or H4D9 of Volume 2 of the 2022 BCA for Condensation management. A pliable building membrane complying with AS/NZS 4200.1:2017 must be installed in accordance with AS/NZS 4200.2:2017 to separate the wall cladding panels from any water sensitive materials.
10. In all cases, it is a requirement that the Walsc[®] External Wall Cladding System incorporates either;
 - a. A timber frame constructed in accordance with AS 1720.1-2010 or AS 1684-2010 series; or
 - b. A cold-formed steel frame and top hat constructed in accordance with AS/NZS 4600:2018; or
 - c. NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria.
11. Testing reports confirm that the Walsc External Wall Cladding systems is adequate to resist permanent, imposed and wind actions, to the exclusion of the remaining actions listed in B1P1(2) and H1P1(2) which may affect compliance with other parts of the NCC and are outside the scope of this Certificate of Compliance. It is the responsibility of building professionals to ensure all other BCA requirements are met.
12. Where timber frames are proposed, they are to be applied where the proposed building is permitted to have timber framing in accordance with the requirements of the BCA. Also see Non-Combustibility A3.
13. 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.

Building classification/s:

Class 1,2 & 10



Certificate of Conformity

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.

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

Walsc® External Wall Cladding System is used to clad external residential single storey or multi-storey loadbearing walls.

A2 Description of product

Walsc® 50mm External Wall Cladding System consists of 50mm (thick) lightweight steel reinforced AAC Panels (vertically aligned or horizontally staggered) x 600mm (wide) up to 3000mm (length). Dry Density 530kg/m³. Refer Components of system below.

Walsc® 75mm External Wall Cladding System consists of 75mm (thick) lightweight steel reinforced AAC Panels (vertically aligned) x 600mm (wide) up to 3300mm (length). Dry Density 450kg/m³. Refer Components of system below.

Components

| Product | Description |
|---|---|
| Top Hat Batten/ Lipped C Channel Batten | For Vertically Aligned systems, use 24x30mm 0.42BMT top hat batten, G550 galvanised. For Horizontally Staggered system, use 24x40mm 0.42BMT lipped C channel batten, G550 galvanised. |
| Fixing Screws | Refer to the fixing details for each system in the System Performance section of this guide for specification of fixing type and size. As a minimum, all fixings shall be Class III corrosion resistance (minimum) as per AS 3566.2-2002. |
| Walsc® AAC Adhesive | Cement based adhesive is required to be applied fully at all panel joints, except the control joint where Fire Rated Sealant to be used and can also be used to patch up minor damaged areas. |
| Corrosion Protection Paint | When panels are cut, the exposed ends of the reinforcement must be treated with corrosion protection paint. |
| Flexible Sealant | External grade polyurethane sealant Bostik Seal 'N' Flex 1 must be used in all control joints for non-fire rated walls. |
| Fire Rated Sealant | Fire rated sealant that achieves the required FRL and has been tested and approved for AAC must be used in all control joints throughout the fire rated wall. |

A3 Product specification

Structural

Fixing Specification for Vertically Aligned 50mm AAC Panel Installations

| Fixing Type | Fixing Specifications |
|---------------------|--|
| AAC panel to batten | For 50mm panel: 14-10x65mm type 17 hex head screw (see fixing table below) |
| Batten to stud | For timber studs: 2/12-11x35mm type 17 hex head screws per stud |
| | For steel studs: 2/10-16x16mm self-drilling hex head screws per stud |

Fixing Table for Vertically Aligned 50mm AAC Panel Installations

| | | Wind Class (as per AS 4055-2012) | | | |
|---------------|------------------------------|----------------------------------|------|-------|-------|
| | | N1 | N2 | N3/C1 | N4/C2 |
| General areas | Max. Batten spacing (mm) | 1200 | 1200 | 1200 | 1200 |
| | Fixings per panel per batten | 2 | 2 | 3 | 3 |
| At corners | Max. Batten spacing (mm) | 1200 | 1200 | 1000 | 800 |
| | Fixings per panel per batten | 2 | 2 | 3 | 3 |

Fixing Specification for Horizontally Staggered 50mm AAC Panel Installations

| Fixing Type | Fixing Specifications |
|---------------------|--|
| AAC panel to batten | For timber studs & 50mm panel: 14-10x125mm type 17 hex head screw (see fixing table below) |
| | For steel studs & 50mm panel: 14-10x95mm self-drilling hex head screw (see fixing table below) |
| Batten to stud | For timber studs: 12-11x35mm type 17 hex head screws @ 1200mm cts |
| | For steel studs: 10-16x16mm self-drilling hex head screws @ 1200mm cts |

Fixing Table for Horizontally Staggered 50mm AAC Panel Installations

| | | Wind Class (as per AS 4055-2021) | | | |
|---------------|------------------------------|----------------------------------|------|-------|-------|
| | | N1 | N2 | N3/C1 | N4/C2 |
| General areas | Max. Batten spacing (mm) | 1200 | 1200 | 1200 | 1200 |
| | Fixings per panel per batten | 2 | 2 | 2 | 3 |
| At corners | Max. Batten spacing (mm) | 1200 | 1200 | 1000 | 800 |
| | Fixings per panel per batten | 2 | 3 | 3 | 3 |

Fixing Specification for Vertically Aligned 75mm AAC Panel Installations

| Fixing Type | Fixing Specifications |
|---------------------|---|
| AAC panel to batten | For 75mm Light panel: 14-10x100mm type 17 hex head screw (see fixing table below) |
| Batten to stud | For timber studs: 2/12-11x35mm type 17 hex head screws per stud |
| | For steel studs: 2/10-16x16mm self-drilling hex head screws per stud |

Fixing Table for Vertically Aligned 75mm AAC Panel Installations

| | | Wind Class (as per AS 4055-2021) | | | |
|---------------|-------------------------------|----------------------------------|------|-------|-------|
| | | N1 | N2 | N3/C1 | N4/C2 |
| General areas | Max. stud spacing (mm) | 600 | 600 | 600 | 600 |
| | Max. top hat spacing (mm) | 1200 | 1200 | 1200 | 900 |
| | Fixings per panel per top hat | 2 | 2 | 2 | 2 |
| At corners | Max. stud spacing (mm) | 600 | 600 | 600 | 450 |
| | Max. top hat spacing (mm) | 1200 | 1200 | 1200 | 900 |
| | Fixings per panel per top hat | 2 | 2 | 3 | 3 |

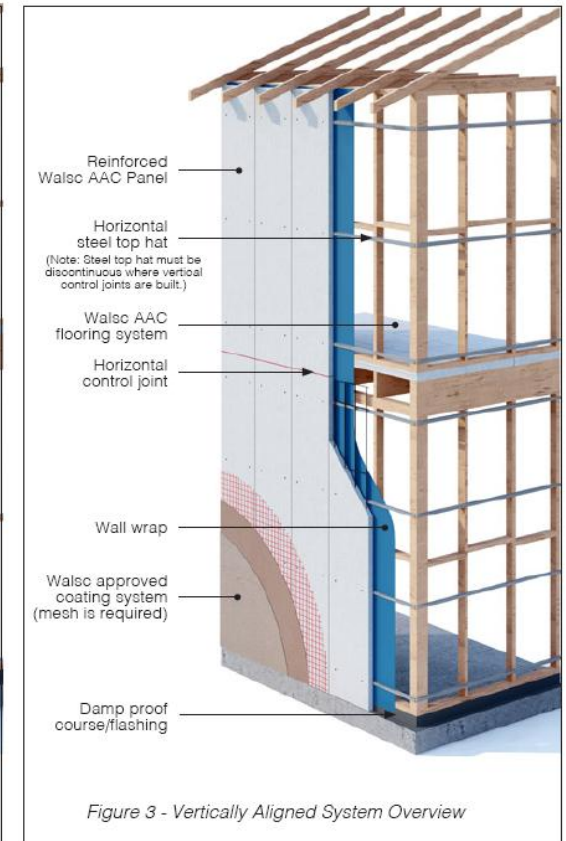
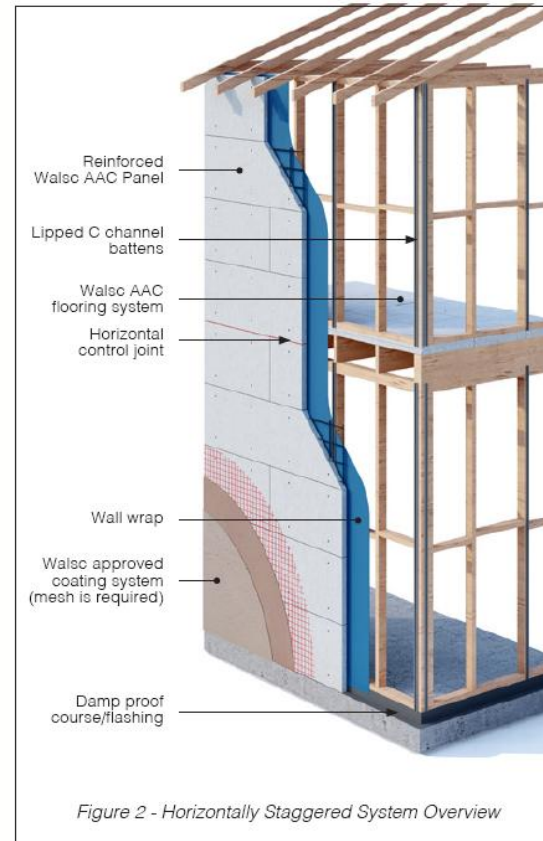
Weatherproofing

Cavity wall testing in accordance with AS/NZS 4284:2008 and 2022 NCC, F3V1 & H2V2 with a nominated serviceability limit state pressure +820 Pa and -1230 Pa. This is equivalent to an N4 & C2 wind classification as per AS 4055-2012. Components consisted of Walsc® Panel, BMT top hats, Bradford Thermosteal wall wrap, Backing rod, Polyurethane sealant, Wall wrap tape, Damp proof course and flashing, T17 hex head screws.

Source: Ian Bennie & Associates; Report number 2021-022-S1; Walsc 50mm AAC Reinforced Panel – Weatherproofing to AS/NZS 4284:2008 & V2.2.1; Dated 21/04/2021 & 11 & Venn Engineering; Report number VE-SIP2106031C; Walsc External Wall Cladding System for Low-rise Residential Buildings – Weatherproofing 50mm & 75mm; Dated 25/10/2024.

Fire Resistance Level (FRL) 120/120/120 Walsc® 50mm External Wall Cladding System

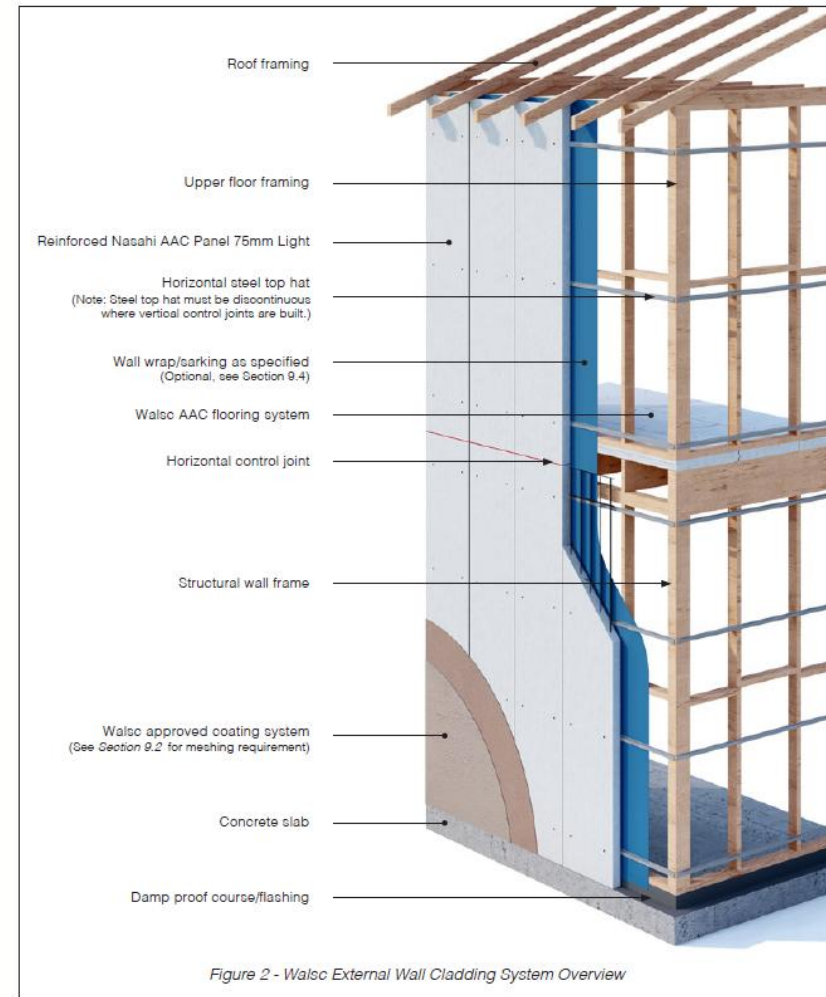
- Vertically aligned or Horizontally staggered 50mm reinforced Walsc® AAC panels based on 600mm centres.
- 24mm top hat battens fixed to the studs at 900mm, 800mm, 200mm, 2200mm and 2800mm centres on timber or steel frames.
- Wall cavity filled with Knauf Earthwool R1.5 glass insulation batts with a single layer of 10mm plasterboard installed horizontally. (See Thermal table below for alternate insulation values)
- Brackets & Fixings Vertical Aligned Installations
 - AAC panel to batten
 - 14-10 × 65mm long hex head T17 screws.
 - Batten to stud
 - Timber studs – 2/12-11 × 35mm long hex head T17 screws per stud.
 - Steel studs – 2/10-16 × 16mm long self-drilling hex head T17 screws per stud.
- Brackets & Fixings Horizontally Aligned Installations
 - AAC panel to batten
 - Timber studs - 14-10 × 125mm long hex head T17 screws.
 - Steel studs – 14-10 × 95mm self-drilling hex head screws
 - Batten to stud
 - Timber studs – 12-11 × 35mm long hex head T17 screws @ 1200 cts.
 - Steel studs – 10-16 × 16mm long self-drilling hex head T17 screws @ 1200 cts.
- Walsc AAC Cement based adhesive is required to be applied fully at all panel joints.
- A fire rated sealant that achieves the required FRL and has been tested and approved for AAC must be used in all control joints



Source: Walsc External Wall Systems 50 - Design & Installation Guide V.202409

Fire Resistance Level (FRL) 240/240/180 Walsc® 75mm External Wall Cladding System

- Vertically aligned Nasahi® AAC panel 75mm light
- Continuous horizontal 24mm top hat battens fixed to the structural frame at 900mm centres.
- Wall cavity filled with Knauf Earthwool R1.5 glass insulation batts with a single layer of 10mm plasterboard installed horizontally. (See Thermal table below for alternate insulation values)
- Brackets & Fixings Vertical Aligned Installations
 - AAC panel to top hat
 - 14-10 × 90mm long hex head T17 screws.
 - Top hat to stud
 - Timber studs – 2/12-11 × 35mm long hex head screws per stud.
 - Steel studs – 2/10-16 × 16mm long self-drilling hex head screws per stud.
- Walsc AAC Cement based adhesive is required to be applied fully at all panel joints.
- A fire rated sealant that achieves the required FRL and has been tested and approved for AAC must be used in all control joints



Source: Walsc External Wall Cladding System 75 Light Boundary Wall - Design and Installation Guide_V.202409

Bushfire – BAL-FZ

BAL-FZ is based on the Walsc® 50mm panel having an FRL 120/120/120 and Walsc® 75mm panel having an FRL 240/240/180 in accordance with Clause 9.4.1(c) AS 3959:2018.

Non-Combustibility

| Component | Non-Combustibility |
|------------------------------------|---|
| 50mm or 75mm Walsc® AAC Panel | The 50mm and 75mm Walsc® AAC panel is deemed to be non-combustible based on the materials composition |
| Steel top hat | This component is made from galvanized steel. The steel and galvanizing zinc is non-combustible. This component considered to be non-combustible |
| Shelf/Corner shelf angle | This component is made from galvanized steel. The steel and galvanizing zinc is non-combustible. This component considered to be non-combustible |
| Wall wrap | The BCA allows sarking-type materials to be used where non-combustible material is required provided the sarking type material has a thickness of not more than 1 mm and flammability index not greater than 5. Wall wrap may be used for this system provided it has a thickness of not more than 1 mm in thickness and flammability index of not greater than 5 when tested to AS 1530.2. |
| Sealing and waterproof tape | The BCA Volume allows for bonded laminated materials where: <ul style="list-style-type: none"> i. Each lamina, including any core, is non-combustible; and ii. each adhesive layer does not exceed 1 mm in thickness and the total thickness of the adhesive layer does not exceed 2 mm; and iii. the Spread-of-Flame Index and the Smoke-Developed Index of the bonded laminated material as a whole do not exceed 0 and 3 respectively when tested in accordance with AS/NZS 1530.3. Sealing and waterproof tape are suitable for use in this system provided they satisfy the above criteria. |
| AAC panel and top hat fixing screw | This component is made from steel or galvanized steel. The steel and galvanized zinc is non-combustible. This component considered to be non-combustible |
| Plasterboard | The BCA allows plasterboard to be used where non-combustible material is required |
| Stud frame | This component is made from galvanised steel. The steel and galvanizing zinc is non-combustible. This component considered to be non-combustible Where timber frames are proposed, they are to be applied where the proposed building is permitted to have timber framing in accordance with the requirements of the BCA. Where applied, the FRL established by the tested wall system is considered to be consistent. This is evaluated as per Ignis advice IGNS-25106-01R IO1R00; dated 25/09/2025. |
| Walsc® AAC adhesive | This component is based on 30%-60% Portland cement. Cementitious based materials are typically non-combustible. This component is considered to be exempt from the requirements as established by the BCA. |
| Corrosion protection paint | In accordance with the requirements of the BCA, Paint is exempt from the requirements of non-combustibility. BCA Volume 2 does not provide any requirements for paints on external walls. |
| Sealant | In accordance with the requirements of the BCA Volume One, Sealants are exempt from the requirements of non-combustibility. BCA Volume 2 does not provide any requirements for sealants applied on an external wall. |
| Render coating | This component is made of a cementitious type of material. These are typically non-combustible. This component is considered to be non-combustible provided test evidence against AS 1530.1 is provided. |
| Paint finish | BCA Volume 1 provides a concession for paint finish. BCA Volume 2 does not provide any concessions for paints applied on an external wall |

Source: Ignis Solutions; Report number IGNS-25106-01R IO1R00; - External Wall Fire FRL - 50mm & 75mm with Timber Frame Assessment; Dated 25/09/2025 & Ignis Solutions; Report number IGNS-9172 IO1R02 – Walsc 50mm & 75mm AAC Panel Systems; Dated 16/07/2021 & CSIRO; NATA Accreditation No. 165, Report number FSV 2009; Fire-resistance test on a load bearing vertical separating element – Steel Frame; 50mm FRL 120/120/120; Dated 08/07/2019 & CSIRO; NATA Accreditation No. 165, Report number FSV 2201; Fire-resistance test on a load bearing vertical separating element – Steel Frame; 75mm FRL 240/240/180; Dated 01/06/2021; & Assurance Construction Laboratories; Report number ACTC-8303-99R102R01; Walsc 50mm and 75mm AAC Panel Fire Assessment Report; Dated 25/08/2025.

Thermal Performance

| Walsc® 50mm RESIDENTIAL EXTERNAL WALL SYSTEMS | Insul Path | | All Surface (bridged) | | | |
|--|------------------------------|--------|------------------------------|--------|--------------------------------|--------|
| | Total R, m ² ·K/W | | Total R, m ² ·K/W | | Total U, W/(m ² ·K) | |
| | Winter | Summer | Winter | Summer | Winter | Summer |
| Timber framing | | | | | | |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and pine stud (70 x 35mm) at 600mm centres (10mm plasterboard) | R1.86 | R1.82 | R1.80 | R1.76 | U0.556 | U0.567 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and pine stud (70 x 45mm) at 600mm centres (10mm plasterboard) | R2.75 | R2.61 | R2.44 | R2.34 | U0.409 | U0.428 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and pine stud (70 x 45mm) at 600mm centres (10mm plasterboard) | R3.25 | R3.10 | R2.77 | R2.67 | U0.361 | U0.374 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R3.28 | R3.09 | R2.89 | R2.75 | U0.347 | U0.363 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R3.48 | R3.28 | R3.02 | R2.89 | U0.331 | U0.346 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R3.78 | R3.59 | R3.21 | R3.08 | U0.312 | U0.324 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R3.97 | R3.79 | R3.33 | R3.21 | U0.300 | U0.311 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and pine stud (70 x 35mm) at 450mm centres (10mm plasterboard) | R1.86 | R1.82 | R1.78 | R1.75 | U0.561 | U0.571 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and pine stud (70 x 45mm) at 450mm centres (10mm plasterboard) | R2.75 | R2.61 | R2.38 | R2.29 | U0.420 | U0.438 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and pine stud (70 x 45mm) at 450mm centres (10mm plasterboard) | R3.25 | R3.10 | R2.68 | R2.59 | U0.373 | U0.386 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R3.28 | R3.09 | R2.81 | R2.69 | U0.356 | U0.372 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R3.48 | R3.28 | R2.93 | R2.81 | U0.341 | U0.355 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R3.78 | R3.59 | R3.11 | R3.00 | U0.322 | U0.334 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R3.97 | R3.79 | R3.22 | R3.11 | U0.311 | U0.321 |

The above table gives Total R & Total U values (Australia) for the thermally bridged whole wall surface (no glazing). For New Zealand (8% M.C.) Total R values will be R0.044 less. The All Wall (bridged) results do not have any thermal break products present. 50mm Walsc® AAC Panel assumed to have 0.151 thermal conductivity at 4% M.C. based on assumed 0.128 conductivity at 530 kg/m³ dry density. Results are unchanged for 16mm or 24mm battens as that gap is not reflective. R-values calculated per AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.

Thermal Performance (Cont.)

| Walsc® 50mm RESIDENTIAL EXTERNAL WALL SYSTEMS | Insul Path | | All Surface (bridged) | | | |
|---|------------------------------|--------|------------------------------|--------|--------------------------------|--------|
| | Total R, m ² ·K/W | | Total R, m ² ·K/W | | Total U, W/(m ² ·K) | |
| | Winter | Summer | Winter | Summer | Winter | Summer |
| Steel framing | | | | | | |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and steel stud (76 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R1.86 | R1.82 | R1.63 | R1.60 | U0.615 | U0.626 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R2.75 | R2.61 | R2.17 | R2.08 | U0.461 | U0.481 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.25 | R3.10 | R2.43 | R2.35 | U0.412 | U0.426 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.28 | R3.09 | R2.46 | R2.36 | U0.406 | U0.423 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.48 | R3.28 | R2.56 | R2.46 | U0.390 | U0.406 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.78 | R3.59 | R2.70 | R2.61 | U0.370 | U0.384 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.97 | R3.79 | R2.79 | R2.70 | U0.359 | U0.371 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and steel stud (76 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R1.86 | R1.82 | R1.58 | R1.55 | U0.633 | U0.643 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R2.75 | R2.61 | R2.07 | R1.99 | U0.483 | U0.502 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.25 | R3.10 | R2.30 | R2.23 | U0.436 | U0.449 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.28 | R3.09 | R2.34 | R2.25 | U0.428 | U0.445 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.48 | R3.28 | R2.42 | R2.33 | U0.413 | U0.428 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.78 | R3.59 | R2.54 | R2.46 | U0.394 | U0.407 |
| 50MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.97 | R3.79 | R2.61 | R2.54 | U0.383 | U0.394 |

The above table gives Total R & Total U values (Australia) for the thermally bridged whole wall surface (no glazing). For New Zealand (8% M.C.) Total R values will be R0.044 less. The All Wall (bridged) results do not have any thermal break products present. 50mm Walsc® AAC Panel assumed to have 0.151 thermal conductivity at 4% M.C. based on assumed 0.128 conductivity at 530 kg/m³ dry density. Results are unchanged for 16mm or 24mm battens as that gap is not reflective. R-values calculated per AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.

Source: James M Fricker; Report number i523a2; Thermal Performance Calculations AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018 – 50mm; Dated 13/07/2021

Thermal Performance (Cont.)

| Walsc® 75mm RESIDENTIAL EXTERNAL WALL SYSTEMS | Insul Path | | All Surface (bridged) | | | |
|--|------------------------------|--------|------------------------------|--------|--------------------------------|--------|
| | Total R, m ² ·K/W | | Total R, m ² ·K/W | | Total U, W/(m ² ·K) | |
| | Winter | Summer | Winter | Summer | Winter | Summer |
| Timber framing | | | | | | |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and pine stud (70 x 35mm) at 600mm centres (10mm plasterboard) | R2.11 | R2.08 | R2.05 | R2.02 | U0.487 | U0.495 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and pine stud (70 x 45mm) at 600mm centres (10mm plasterboard) | R3.00 | R2.86 | R2.72 | R2.61 | U0.368 | U0.383 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and pine stud (70 x 45mm) at 600mm centres (10mm plasterboard) | R3.50 | R3.36 | R3.06 | R2.96 | U0.327 | U0.338 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R3.53 | R3.35 | R3.16 | R3.03 | U0.316 | U0.330 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R3.73 | R3.54 | R3.30 | R3.17 | U0.303 | U0.315 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R4.03 | R3.84 | R3.50 | R3.38 | U0.286 | U0.296 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and pine stud (90 x 45mm) at 600mm centres (10mm plasterboard) | R4.22 | R4.04 | R3.63 | R3.51 | U0.275 | U0.285 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and pine stud (70 x 35mm) at 450mm centres (10mm plasterboard) | R2.11 | R2.08 | R2.04 | R2.01 | U0.490 | U0.498 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and pine stud (70 x 45mm) at 450mm centres (10mm plasterboard) | R3.00 | R2.86 | R2.66 | R2.56 | U0.376 | U0.390 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and pine stud (70 x 45mm) at 450mm centres (10mm plasterboard) | R3.50 | R3.36 | R2.98 | R2.89 | U0.336 | U0.346 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R3.53 | R3.35 | R3.09 | R2.97 | U0.323 | U0.337 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R3.73 | R3.54 | R3.22 | R3.10 | U0.310 | U0.322 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R4.03 | R3.84 | R3.41 | R3.29 | U0.293 | U0.304 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and pine stud (90 x 45mm) at 450mm centres (10mm plasterboard) | R4.22 | R4.04 | R3.52 | R3.42 | U0.284 | U0.293 |

The above table gives Total R & Total U values (Australia) for the thermally bridged whole wall surface (no glazing). For New Zealand (8% M.C.) Total R values will be R0.077 less. The All Wall (bridged) results do not have any thermal break products present. 75mm Walsc® AAC Panel assumed to have 0.128 thermal conductivity at 4% M.C. based on assumed 0.109 conductivity at 450 kg/m³ dry density. Results are unchanged for 16mm or 24mm battens as that gap is not reflective. R-values calculated per AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.

Thermal Performance (Cont.)

| Walsc® 75mm RESIDENTIAL EXTERNAL WALL SYSTEMS | Insul Path | | All Surface (bridged) | | | |
|---|------------------------------|--------|------------------------------|--------|--------------------------------|--------|
| | Total R, m ² -K/W | | Total R, m ² -K/W | | Total U, W/(m ² -K) | |
| | Winter | Summer | Winter | Summer | Winter | Summer |
| Steel framing | | | | | | |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and steel stud (76 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R2.11 | R2.08 | R1.92 | R1.89 | U0.522 | U0.530 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.00 | R2.86 | R2.52 | R2.43 | U0.397 | U0.412 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.50 | R3.36 | R2.82 | R2.73 | U0.355 | U0.366 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.53 | R3.35 | R2.85 | R2.74 | U0.351 | U0.365 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R3.73 | R3.54 | R2.97 | R2.86 | U0.337 | U0.350 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R4.03 | R3.84 | R3.13 | R3.02 | U0.320 | U0.331 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 600mm centres (10mm plasterboard) | R4.22 | R4.04 | R3.23 | R3.13 | U0.309 | U0.319 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm reflective still air space, and steel stud (76 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R2.11 | R2.08 | R1.88 | R1.85 | U0.533 | U0.541 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R1.50 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.00 | R2.86 | R2.43 | R2.35 | U0.411 | U0.426 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 70mm R2.00 bulk insulation, and steel stud (76 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.50 | R3.36 | R2.70 | R2.62 | U0.370 | U0.381 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.00 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.53 | R3.35 | R2.74 | R2.64 | U0.366 | U0.380 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.20 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R3.73 | R3.54 | R2.84 | R2.74 | U0.352 | U0.365 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.50 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R4.03 | R3.84 | R2.98 | R2.89 | U0.335 | U0.346 |
| 75MM WALSC AAC PANEL (4% M.C.) SYSTEM with 24mm batten and 90mm R2.70 bulk insulation, and steel stud (92 x 35mm x 0.55BMT) at 450mm centres (10mm plasterboard) | R4.22 | R4.04 | R3.07 | R2.99 | U0.325 | U0.335 |

The above table gives Total R & Total U values (Australia) for the thermally bridged whole wall surface (no glazing). For New Zealand (8% M.C.) Total R values will be R0.077 less. The All Wall (bridged) results do not have any thermal break products present. 75mm Walsc® AAC Panel assumed to have 0.128 thermal conductivity at 4% M.C. based on assumed 0.109 conductivity at 450 kg/m³ dry density. Results are unchanged for 16mm or 24mm battens as that gap is not reflective. R-values calculated per AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings.

Source: James M Fricker; Report number i523a; Thermal Performance Calculations AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018 – 75mm; Dated 07/07/2021

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

Installation must be conducted in accordance with the [Walsc External Wall Cladding System 50 Design & Installation Guide April 2026](#) & [Walsc External Wall Cladding System 75 Light Design and Installation Guide April 2026](#)

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Fire Safety Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
2. Structural Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Weatherproofing Provision A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
4. Energy Efficiency Provisions A5G3(1)(d). Reports from Accredited Testing Laboratories.

B2 Reports

1. Venn Engineering; Report number VE-SIP2107141E; External Wall Cladding System for Multi-Residential Buildings – Structural 50mm & 75mm; Dated 25/10/2024. Report Supports Compliance with B1P1(1),(2)(a)(b)&(c), B1P2 and H1P1(1), (2)(a),(b)&(c),(3).
2. Venn Engineering; Report number VE-SIP2106031C; Walsc External Wall Cladding System for Low-rise Residential Buildings – Weatherproofing 50mm & 75mm; Dated 25/10/2024. Report supports compliance with F3P1 & H2P2.
3. Ian Bennie & Associates; Report number 2021-022-S1; Walsc 50mm AAC Reinforced Panel – Weatherproofing to AS/NZS 4284:2008 & V2.2.1; Dated 21/04/2021. Report supports compliance with F3P1 & H2P2.
4. Ignis Solutions; Report number IGNS-25106-01R I01R00; Timber Frame Assessment; Dated 25/09/2025. Report provides evidence for compliance with H3D3.
5. CSIRO; NATA Accreditation No. 165, Report number FSV 2009; Fire-resistance test on a load bearing vertical separating element – Steel Frame; 50mm FRL 120/120/120 - AS 1530.4:2014; Dated 08/07/2019. Report provides FRLs for compliance with C2D2(2), G5D3, H3D3 & H7D4.
6. Ignis Solutions; Report number IGNS-9172 I01 R02 – Walsc 50mm & 75mm AAC Panel Systems; Dated 16/07/2021. Report provides evidence for compliance with H3D2.
7. CSIRO; NATA Accreditation No. 165, Report number FSV 2201; Fire-resistance test on a load bearing vertical separating element – Steel Frame; 75mm FRL 240/240/180 – AS 1530.4:2014; Dated 01/06/2021. Report provides FRLs for compliance with C2D2(2), G5D3, H3D3 & H7D4.
8. James M Fricker; Report number i523a; Thermal Performance Calculations AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018 – 75mm; Dated 07/07/2021. Thermal Calculations supports compliance with J4D6(3) & H6D2(1)(b)(i).
9. James M Fricker; Report number i523a2; Thermal Performance Calculations AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018 – 50mm; Dated 13/07/2021. Thermal Calculations supports compliance with J4D6(3) & H6D2(1)(b)(i).
10. Assurance Construction Laboratories; Report number ACTC-8303-99RI02R01; Walsc 50mm and 75mm AAC Panel Fire Assessment Report; Dated 25/08/2025 Report provides FRLs for compliance with C2D2(2), G5D3, H3D3 & H7D4
11. Clarkson Consulting Services Pty Ltd; . File Reference: WALSC AAC_Performance Solution Report V1.1_250822; Performance Solution Report for WALSC AAC External Wall Cladding System; Dated 22/08/2025. Report provides evidence for compliance with H2P1, H2P2 & H2P3.

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