Certificate of Conformity

Certification Body:

CMI CERTIFICATION
ABN: 81 663 250 815
JAS-ANZ Accreditation
No. Z4450210AK
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Certificate Holder:

Stoddart Group Pty Ltd
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Certificate number: CM40285 Rev1

THIS IS TO CERTIFY THAT

STAAC WALL 50® Dual Zero Boundary Wall

Type and/or use of product:

Low Rise Multi Residential Dual Zero Boundary Wall System.

Description of product:

STAAC WALL 50® Dual Zero Boundary Wall System consists of 50mm AAC 510kg/m³ panels screwed to the structural load bearing frame via horizontal steel top hats and direct fix clips internally.

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

	Volume One		Volume Two	
Performance Requirement(s):	B1P1(1), (2)(a), (b), (c) & (d)	Structural reliability	H1P1(1), (2)(a), (b), (c) & (d)	Structural reliability and resistance
	F3P1	Weatherproofing – Subject to Limitation and Condition 10.	H2P2	Weatherproofing – Subject to Limitation and Condition 10.
Deemed-to-Satisfy Provision(s):	C2D2(2)	Fire Resistance – (90/90/90 from panel side only) – Subject to *Limitation and condition 2.* Refer A3 for FRLs achieved.	H3D2	Non-combustible building elements – Limited to the STAAC Wall 50® Panel only
	C2D10	Non-combustible building elements – Limited to the STAAC Wall 50® Panel only	H3D3	Construction of External Walls – (90/90/90 from panel side only) – Subject to *Limitation and condition 2.* Refer A3 for FRLs achieved.
	J4D6	Energy efficiency - Walls – Refer A3	H6D2(1)(b)(i)	Energy Efficiency – External walls – Refer A3
State or territory variation(s):	Not Applicable		Not Applicable	

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. For Type A & B construction, the use of the STAAC WALL 50® Dual Zero Boundary Wall System must be supported by a site-specific Performance Solution where the BCA requires building elements and/or ancillary elements to be non-combustible. Acceptance or otherwise of the site-specific Performance Solution is at the discretion of the appropriate Authority subject to the regulatory framework of the relevant State or Territory.
2. Fire Resistance Level (FRL) – 90/90/90 is only applicable to walls exposed to fire from the panel side only.
3. 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.
4. The scope of this Certification does not include penetrations. Any proposed penetrations must be referred to the Certificate Holder.
5. The STAAC WALL 50® Dual Zero Boundary Wall are structurally adequate to support minimum Ultimate Limit State pressure of 0.5 kPa and imposed wind loads.

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10

Richard Donarski – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 13/09/2023

Date of expiry: 22/05/2026

6. The panels may only be used in wind category N1, N2 and N3.
7. Construction methods for external walls required to be fire resisting in relation to Class 1 and 10 buildings and structures must comply with Part 9.2.3 of the ABCB Housing Provisions.
8. The wall framing system is to be designed and checked by a qualified professional Structural Engineer to satisfy structural adequacy.
9. Where used in external walls , the AAC panels must be separated from water sensitive framing materials by a pliable building membrane that complies with AS/NZS 4200.1 and that is installed in accordance with AS 4200.2. Such membrane must be vapour permeable for installations in climate zones 6, 7 and 8.
10. To satisfy F3P1 & H2P2 via verification, limited to N1 – N3, the relevant design is required to meet the criteria of F3V1 and/or V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
    (a)(i) have a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table F3V1a/H2V1a; and
    (a)(ii) not be subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
    (a)(iii) include only windows that comply with AS 2047.
    Compliance with Weatherproofing is limited to the tested specimen detailed in A3, deviations from this specimen, is subject to site specific design and approval by the regulatory authority.
11. The installation of STAAC WALL 50® Dual Zero Boundary Wall system must by a suitably qualified tradesperson and not deviate from the contents of the 50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide Version July2023.
12. Other than the items listed, the remainder of the information to be contained in the product's literature is outside the scope of this certification.
13. In all installations the minimum clearance between the underside of panel and the adjoining surface level below must comply with the specification in Part 7.5.7 of the ABCB Housing Provisions.
14. This certification is limited to low rise construction of maximum two storeys.
15. 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.

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

STAAC WALL 50® Panel Physical Properties

Thickness:	50mm, tolerance: ±1.5mm
Standard Width:	600mm, tolerance: ±1.5mm
Standard Length:	2000, 2200, 2400, 2550, 2700, 2850, 3000mm, tolerance: ±5mm
Edge Straightness Deviation (max.):	±1.5mm
Reinforcement:	5x 4mm diameter steel bars for 2000-2700mm long panels. 5x 5mm diameter bars for 2850 and 3000mm panels
Nominal Dry Density:	510kg/m^3
Average working density:	689kg/m^3 at 35% moisture content
Average service life density:	561kg/m^3 at 10% moisture content

System Components

STAAC WALL 50® panel	**Length (mm)**	**Width (mm)**
	2000	600
	2200	600
	2400	600
	2550	600
	2700	600
	2850	600
	3000	600
Steel Battens	Perforated steel top hat battens in 24mm and 35mm depth to provide immediate support to STAAC WALL 50® panels.	
24mm & 35mm batten Direct fixing Clip	For supporting 24mm & 35mm battens in constrained space.	
Fasteners & Fixings	- Internal fixing of top hat to timber stud frame; 12-11x35mm hex head type 17 screw. - Fixing of top hat to steel framing; 10-16x16mm hex head self drilling screw. - Face fixing of STAAC WALL 50® panels to top hat 14-10x65mm bugle head type 17 screw.	
Hebel® Mortar	Mortar (supplied in 20kg bags) when required Is used as a thick bed mortar base to provide a level base for STAAC WALL 50® installation as well as providing acoustic and fire protection at the base of the panels.	
Hebel® CSR Adhesive	CSR Adhesive (supplied in 20kg bags) is used for gluing the STAAC WALL 50® panels together at vertical and horizontal joints.	
Hebel® Patch	Minor chips or damage to STAAC WALL 50® panels are to be repaired using Patch (supplied in 10kg bags).	
Hebel® Anti-Corrosion Protection Paint	To coat exposed reinforcement during cutting.	
Backing Rod	Filling of joints with sealant, made from open cell material.	

A3 Product specification

Non-combustibility

The certificate holder has provided the Certificate of Test for Combustibility for Materials in accordance with AS 1530.1:1994 for STAAC WALL 50® – Autoclaved Aerated Concrete (AAC) of density 510kgm^3.
The material is NOT deemed combustible - Limited to the panel only.

Source: *CSIRO; NATA Accreditation No. 165; Report No. FNC12427B dated 30/07/2019.*

FRL Systems - CSIRO Report FCO-3241

Contact the Certificate Holder for construction details and drawingsd to achieve Fire-resistance level (FRL) - 90/90/90 from panel side only.

System Components

Component	Detail	Description
AAC Panel	**Name**	STAAC WALL 50®
	Material	AAC as tested 682kg/m^3 600mm wide, 50mm thick and 2400mm to 3000mm long. Manufacturer states Dry Density to be 510kg/m^3
	Installation	Installed vertically and laterally supported by aluminium clips at the top and bottom that are fixed to the structural frame. Vertical joints clued together with CSR Hebel Adhesive. Panels may be filled at the bottom with Hebel Mortar or with CSR Hebel Adhesive.
Furring Channel and Fixing	**Name**	Tophat and clips
	Product	Tophat - RONDO #303 with RONDO 311D direct fixing clip Tophat – 24mm deep (min) steel tophat screw fixed to framing
	Material	Galvanised mild steel.
	Installation	The RONDO #303 tophat is screw fixed to the STAAC WALL 50® with a 14-10x65mm bugle head screw and clip fixed to the RONDO 311D direct fixing clip. RONDO 311D direct fixing clip is screw fixed to timber frame with 2/12-11x35 type 17 hex head screws or for steel frame 2/10-16x16 Hex Tek screws. The STAAC WALL 50® is screw fixed to the 24mm deep (min) steel top hat with a 12-11 x 65 type 17 hex head screw. The tophat is screw fixed to timber frame with 2/12-11x35 type 17 hex head screws or for steel frame 2/10-16x16 Hex Tek screws.
Structural Timber Frame	**Name**	Timber wall and floor framing
	Material	Structural timber designed in accordance with AS 1684 or AS 1720.1.
	Installation	Installed in accordance with above standards or project engineers specifications.
Structural Steel Frame	**Name**	Steel wall and floor framing
	Material	Light gauge structural steel frame designed in accordance with “AS/NZS 4600” or “Residential and low-rise steel framing: NASH Standard – Residential and Low-Rise Steel Framing, Part 1 or Part 2”
	Installation	Installed in accordance with above standards or project engineers specifications.
Wall Linings	**Name**	Internal Wall Linings
	Material	**Material** – Specification **Plasterboard** – 10mm Gyprock plus **Plasterboard** – Any other standard grade, water grade, acoustic grade, fire grade plasterboard manufactured in accordance with AS 2589 and with a density greater 5.7kg/m^2. **Fibre Cement** – Any 6mm fibre cement manufactured in accordance with AS 2908.2 and greater than 6mm in thickness with or without tiles.
	Installation	Linings may be fixed with “screw and glue” installation methods in accordance with manufacturer’s specifications Lining joints shall be taped and set in accordance with manufacturer’s specifications.
Insulation	**Name**	Wall Insulation
	Material	Polyester, glasswool or Rockwool or no insulation may be installed in wall cavities without detrimentally affecting their FRL.

	Installation	Installed in accordance with project specifications.
Vertical and horizontal panel join filling	**Name**	Joint Sealant.
	Material	CSR FireSeal™ sealant over PE backing rod.
	Installation	CSR FireSeal™ sealant shall be installed in gaps up to 10mm wide and 10mm deep over PE backing rod.

Source: *CSIRO; NATA Accreditation No. 165; Assessment Report No. FCO-3241 dated 07/08/2017.*

Thermal calculations

HORIZONTALLY INSTALLED FACADE WALL SYSTEM incorporating STAAC WALL 50® (dry density 510 kg/m³) (4% M.C.)	**Insulation path**		**All Wall (bridged)**			
	Total R, m² K/W		**Total R, m² K/W**		**Total R, m² K/W**	
	Summer	**Winter**	**Summer**	**Winter**	**Summer**	**Winter**
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 600mm centres (13mm Gyprock Plasterboard)	R3.55	R3.35	R2.70	R2.59	U0.370	U0.386
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (13mm Gyprock Plasterboard)	R3.55	R3.35	R2.51	R2.42	U0.399	U0.414
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 600mm centres (1x16mm Fyrchek Plasterboard)	R3.57	R3.37	R2.74	R2.63	U0.365	U0.381
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (1x16mm Fyrchek Plasterboard)	R3.57	R3.37	R2.54	R2.45	U0.393	U0.408
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 600mm centres (2x13mm Fyrchek Plasterboard)	R3.63	R3.42	R2.86	R2.74	U0.350	U0.365
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (2x13mm Fyrchek Plasterboard)	R3.63	R3.42	R2.67	R2.57	U0.375	U0.389
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 600mm centres (2x16mm Fyrchek Plasterboard)	R3.66	R3.46	R2.92	R2.80	U0.343	U0.358
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (2x16mm Fyrchek Plasterboard)	R3.66	R3.46	R2.74	R2.63	U0.366	U0.380
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 600mm centres (13mm Gyprock Plasterboard)	R3.35	R3.15	R2.60	R2.48	U0.385	U0.403
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 450mm centres (13mm Gyprock Plasterboard)	R3.35	R3.15	R2.42	R2.32	U0.414	U0.431
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 600mm centres (1x16mm Fyrchek Plasterboard)	R3.37	R3.16	R2.63	R2.51	U0.380	U0.398
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 450mm centres (1x16mm Fyrchek Plasterboard)	R3.37	R3.16	R2.45	R2.35	U0.408	U0.425
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 600mm centres (2x13mm Fyrchek Plasterboard)	R3.43	R3.22	R2.74	R2.62	U0.365	U0.382
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 450mm centres (2x13mm Fyrchek Plasterboard)	R3.43	R3.22	R2.57	R2.46	U0.389	U0.406
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 600mm centres (2x16mm Fyrchek Plasterboard)	R3.46	R3.25	R2.80	R2.67	U0.357	U0.374
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.5 HP and 20mm steel batten and steel studs at 450mm centres (2x16mm Fyrchek Plasterboard)	R3.46	R3.25	R2.64	R2.52	U0.379	U0.396

NOTES:

- The above tables give Total R & Total U values for the thermally bridged whole wall surface (no glazing).
- The All Wall (bridged) results do not have any thermal break product present, and metal battens are fixed direct onto metal studs, but not noggins.
- Assumes thermal resistance of STAAC WALL 50® (dry density 510kg/m³) is R0.313 m².K/W for 4.0% M.C.
- R-values calculated per AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for building.

Source: *James M Fricker; Report No. i107g; Determination of R values by calculation in accordance with AS/NZS 4859 Parts 1&2:2018; Dated 21/06/2019*

Thermal calculations

HORIZONTALLY INSTALLED FACADE WALL SYSTEM incorporating STAAC WALL 50® (dry density 510 kg/m³)	Insulation path		All Wall (bridged)			
	Total R, m² K/W		Total R, m² K/W		Total R, m² K/W	
	Summer	Winter	Summer	Winter	Summer	Winter
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 600mm centres (13mm Gyprock Plasterboard) - (reflective wrap)	R4.04	R3.86	R3.15	R3.04	U0.318	U0.328
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (1x16mm Fyrchek Plasterboard) - (reflective wrap)	R4.06	R3.88	R2.97	R2.88	U0.337	U0.347
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (2x13mm Fyrchek Plasterboard) - (reflective wrap)	R4.12	R3.93	R3.09	R2.99	U0.324	U0.334
STAAC WALL 50® SYSTEM with Bradford Gold Wall Batt R2.7 HP and 20mm steel batten and steel studs at 450mm centres (2x16mm Fyrchek Plasterboard) - (reflective wrap)	R4.15	R3.97	R3.15	R3.05	U0.318	U0.328

NOTES:

- The above tables give Total R & Total U values for the thermally bridged whole wall surface (no glazing).
- The All Wall (bridged) results do not have any thermal break product present, and metal battens are fixed direct onto metal studs, but not noggins.
- Assumes thermal resistance of STAAC WALL 50® (dry density 510kg/m³) is R0.313 m².K/W for 4.0% M.C.
- R-values calculated per AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for building.

Source: *James M Fricker; Report No. i107g; Determination of R values by calculation in accordance with AS/NZS 4859 Parts 1&2:2018; Dated 11/03/2020.*

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

The installation of the STAAC WALL 50® Houses and Low Rise Multi Residential 50mm Intertenancy and Dual Zero Boundary Walls must not deviate from the contents of the50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide Version July2023.

1. The STAAC WALL 50® is only to be installed by a suitably qualified tradesperson or a builder in accordance with the 50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide Version July2023.
2. The walls are constructed in accordance with AS 5146.3:2018.
3. Stud wall support frame to be designed and certified by others.

Where weatherproofing is required:

1. External coating system to be in accordance with AS 5146.3:2018 and comply with AS/NZS 4548.5:1999 and must be suitable and compatible with AAC substrate (with priming where required).
2. External coating system shall contain an embedded fibreglass mesh reinforcing coat with maximum aperture of 10 mm by 10 mm and minimum weight of 145 g/m^2 (incorporated in the base levelling coat) and 200mm wide positioned centrally over panel adhesive joints for vertically orientated panels.
3. The first (texture) coat and second (finish) coats must be acrylic latex coatings complying with AS/NZS 4548.1:1999.
4. The coatings must be suitable and compatible with AAC STAAC WALL 50® substrate (with priming where required).
5. Coatings to comply with AS/NZS 4548.5:1999.
6. Coating manufacturer to specify minimum coating dry film thickness to comply with AS/NZS 4548.5:1999.
7. The following External coating systems are acceptable for use with STAAC Wall 50®:
   - Rockcote Armorflex
   - Dulux AcraTex

A6 Other relevant technical data

Acoustic Properties	Predicted Rating: RW = 67; Ctr-15, RW+ Ctr=52 ***Source:*** *Acoustic Logic Consultancy Report 20140366.35/0202A/R6/GW dated 02/02/2018.*

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Energy Efficiency Provisions A5G3(1)(e). A report issued by a professional engineer.
2. Fire Safety Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a report from a professional engineer.
3. Structural Resistance Provisions A5G3(1)(e). A report issued by a professional engineer.
4. Weatherproofing Provisions A5G3(1)(d)&(f). Reports from Accredited Testing Laboratories and other form of documentary evidence.

B2 Reports

1. CSIRO; NATA Accreditation No. 165 Assessment report FCO-3241; Fire-resistance level (FRL) in accordance with AS1530.4:2014; Dated 07/08/2017. Report provides FRLs for compliance with C2D2(2) H3D3.
2. CSIRO; NATA Accreditation No. 165; Report No. FNC12427B; Certificate of Test for Combustibility Test for Materials in accordance with as 1530.1:1994; Dated 30/07/2019. Report confirms the non-combustibility of the STAAC Wall 75® Panel complying with C2D10 & H3D2 of the panel only.
3. PACE Structural; Report PS23021; Structural Design Certificate of STAACWall50 Intertenancy and Dual Zero Boundary Walls for House and Low Rise Multi Residential Building; Dated 01/08/2023. Report confirms the structural design capacity calculations on the Stoddart STAACWall50 Dual Zero Boundary Walls for House and Low Rise Multi Residential Building comply with B1P1(1), (2)(a), (b), (c) & (d) and H1P1(1), (2)(a), (b), (c) & (d)
4. AECOM; Expert opinion on the weathertightness testing by CSIRO (Rep. DTF1021) to FV1 & V2.2.1; Dated 02/04/2020. Report provides professional opinion that Performance Requirements for weatherproofing have been met based on previous testing of Hebel AAC systems (F3P1 and H2P2)
5. AECOM; Expert opinion on the weathertightness for Zero Boundary applications up to N2; Dated 06/11/2017. Report provides professional opinion that Performance Requirements for weatherproofing have been met based on previous testing of Hebel AAC systems (F3P1 and H2P2)
6. AECOM; Expert opinion on the weathertightness for Zero Boundary applications up to N3; Dated 07/11/2017. Report provides professional opinion that Performance Requirements for weatherproofing have been met based on previous testing of Hebel AAC systems (F3P1 and H2P2)
7. CSIRO; NATA Accreditation No. 165; Report No. DTF1021; Water penetration testing to the Verification Methods FV1 & V2.2.1; Dated 27/01/2015. Report has been referenced in AECOM report for compliance with Performance Requirements for weatherproofing (F3P1 and H2P2).
8. James M Fricker; Report No. i107g; Determination of R values by calculation in accordance with AS/NZS 4859.1:2018; Dated 11/03/2020. Report confirms R-value achieved by the STAAC Wall Systems (J4D6 & H6D2(1)(b)(i)).
9. James M Fricker; Report No. i107g; Determination of R values by calculation in accordance with AS/NZS 4859.1:2018; Dated 21/06/2019. Report confirms R-value achieved by the STAAC Wall Systems (J4D6 & H6D2(1)(b)(i)).

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