Certificate of Conformity

Certification Body:

CMI CERTIFICATION
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Certificate Holder:

Stoddart Group Pty Ltd
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Certificate number: CM40284

THIS IS TO CERTIFY THAT

STAAC WALL 50® - Low Rise Multi-Residential Intertenancy Wall

Type and/or use of product:

Intertenancy Wall System for load bearing and non-load bearing intertenancy / party walls in low rise multi-residential projects.

Description of product:

STAAC WALL 50® Intertenancy Wall System consists of 510kg/m³ AAC panels installed vertically and secured to the structural load bearing frame. The system utilises an aluminium bracket system which provides the wall with a discontinuous construction for acoustic performance.

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) & (d)	Structural reliability	H1P1(1), (2)(a), (b), (c) & (d)	Structural reliability and resistance
Deemed-to-Satisfy Provision(s):	C2D2(2)	Fire resistance and Stability - As applicable - FRL varies, dependant of the configuration of the wall.	H3D2	Non-combustible building elements – Limited to the STAAC Wall 75® Panel only
	C2D10	Non-combustible building elements – Limited to the STAAC Wall 75® Panel only	H3D4	Fire protection of separating walls – As applicable - FRL varies, dependant of the configuration of the wall.
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. 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.
2. This system is suitable for use for the horizontal fire separation between fire compartments in sole-occupancy units only and must not be used for the support of fire rated floors, ceilings or roofs. (AAC separating walls).
3. The timber frames shall be designed in accordance with AS 1720.1:2010 or AS 1684-2010 series, or steel frames in accordance with AS 3623:1993 or AS/NZS 4600:2018.
4. The gap between the framing and the STAAC WALL 50® widths must be a minimum of 20mm.
5. The panels may only be used in wind category N1, N2 and N3.
6. A site specific performance solution is required for sound insulation. Refer to A6 for technical data regarding R_W and $R_W + C_{tr}$ values.

Building classification/s:

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

Glen Gugliotti – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 22/05/2026

Date of expiry: 22/05/2029

7. Only to be installed in accordance with the 50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide August 2025.
8. Project specific load bearing capacities for internal load bearing walls must be configured by the project engineer.
9. For the purpose of this certificate, discontinuous construction is defined in the BCA as a wall system having a minimum 20mm cavity between two separate leaves with no mechanical linkage between leaves except at the periphery.
10. Any party wall with overhang, extra cantilever must be examined by structural engineers engaged by others, not part of this assessment, to ensure that the wall is adequately supported and that there is no additional load that would introduce deflections at various locations that could have a detrimental impact on the structural adequacy of the wall when exposed to fire on either side.
11. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
12. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the scope of this certification.
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.

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:	5 x 4mm diameter steel bars for 2000-2700mm long panels. 5 x 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)	Weight (kg) at 35% M.C.	Length (mm)	Width (mm)	Weight (kg) at 35% M.C.
2000	600	42	2700	600	56
2200	600	46	2850	600	59
2400	600	50	3000	600	62
2550	600	53			

Deflection Head Track	For positioning and restraining the base connection of the panels at ground level. The deflection head trach is nominally 51 x 50 x 0.7mm BMT x 3000mm length.
Wall Brackets	The brackets are proprietary components which enable the STAAC WALL 50® panel to be fixed to the wall frame. This provides a cavity space, which can result in increased acoustic insulation performance. The bracket is nominally 76mm x 43mm x 1.6mm BMT x 50mm wide aluminium angle.
Steel battens	Perforated Top Hats are used to fix the STAAC WALL 50® panel to the structural support framing. The nominal width available is 24mm and 35mm – incorporating perforated flanges for ease of installation on to external wall frame. For use with top hat direct fix clip.
24mm & 35mm batten Direct fixing Clip	For supporting 24mm & 35mm battens in constrained space.
Fasteners & Fixings	- Fixing of top hat / angle bracket to timber stud frame: 12-11 x 35mm hex head type 17 screw. - Fixing angle bracket to AAC panel: 12-11x40mm hex head type 17 screw. - Internal fixing of STAAC WALL 50® panel to tophat from inside: 12-11x40mm hex head type 17 screw. - Fixing of top hat / angle bracket to steel framing; 10-16 x 16mm hex head self drilling screw. - Fixing of STAAC Wall 50® panels to bottom angle 14-10 x 65mm bugle head type 17 screw
Hebel® Adhesive	Hebel® Adhesive (supplied in 20kg bags) is used for bonding the panels together at vertical joints.
Hebel® Mortar	Hebel® Mortar (supplied in 20kg bags) is used to provide a level base for panel installation as well as providing acoustic and fire protection at the base of the panels. Used in some STAAC WALL 50® Intertenancy Discontinuous Wall base arrangements.
Hebel® Patch	Minor chips or damage to STAAC WALL 50® panels are to be repaired using Hebel Patch (supplied in 10kg bags).
Hebel® Anti-Corrosion Protection Paint	To coat exposed reinforcement during cutting.
Bradford Insulation	The STAAC WALL 50® panel Intertenancy Discontinuous Wall System incorporates Bradford Insulation materials.
Gyprock™ Plasterboard	The STAAC WALL 50® Intertenancy Discontinuous Wall System incorporates Gyprock™ plasterboard on both sides. The type, thickness and densities of plasterboard will be as per the specified wall requirements. Additional information is available from CSR Gyprock.

Fire & Acoustic Sealant	To attain the specified FRL and / or R_W requirements, all perimeter gaps and penetrations must be carefully and completely sealed with a fire and acoustic rated sealant installed to manufacturer's specifications. Sealant is specified in A3.
Backing Rod	Backing rod is used to enable correct filling of joints with sealant. It is recommended that backing rod be of open cell type to enable sealant to cure from behind. The diameter of backing rod must be appropriate for the width of the gap being filled.

A3 Product specification

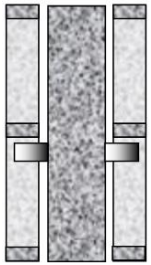
Non-combustibility

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.*

Fire Resistant Levels - FRLs

For construction details and drawings to achieve the stated FRLs refer to section 15 of the 50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide August 2025

Description	Central Core	Framing	Lining	Fixings	Performance
	STAAC Wall 50® panel	Loadbearing or non-loadbearing timber or steel framing	No internal linings	Aluminium clips	7.2m high (max) FRL 60/60/60 or FRL –/60/60
			The proposed internal linings are to be installed by traditional glue and nail/screw fixing methods and must be either; • Sound Grade Plasterboard (10mm & 13mm) • Moisture Grade Plasterboard (10mm & 13mm) • Standard Plasterboard minimum 5.7kg/m^2 (10mm & 13mm) • Fire Grade Plasterboard (10mm & 13mm) • Fibre Cement (6mm & 9mm) • Wall lining may be omitted within the ceiling space only for ceiling heights up to 1.5 m	Aluminium clips	7.2m high (max) FRL 90/90/90 or FRL –/90/90 10m high (max) FRL 60/60/60

Variations to tested systems

1. The panels are secured to the structural frame on both sides of the central core using the following methods:
2. The STAAC WALL 50® panel are secured to the structural frame on both sides of the central core by 76mm x 43mm x 1.6mm thick aluminium clips 50mm wide. The aluminium clips on each side of each panel, top and bottom and spaced at a maximum 3000mm centres vertically. Clips shall be no more than 600mm apart horizontally and centrally located within the panel width.
3. The aluminium clips are screw fixed to the STAAC WALL 50® panel with two 14-10x40mm hex head screws. The aluminium clips are fixed to the timber framing with 2 × 12-11x35mm Hex head screws. The aluminium clips are fixed to steel framing with two 10-16×16mm hex head screws.
4. The aluminium brackets used on either side of the panel does not require to be aligned with each other. In cases where the floor joist on one unit is higher than the other unit, the panels are acceptable to be fixed where the brackets on each side of the panel are not aligned. The brackets can be fixed to top and bottom plates of stud frames on each side. The criteria below shall be met in the installation of the panels.
   a. the bracket to panel joint on each side does not exceed 600mm max. and;
   b. the brackets are fixed to studs or nogging on each side within 150mm from the flooring of that side of the panel and;
   c. the maximum bracket fixing for ground floor panels does not exceed 2900mm for 50mm panels.

7.2m high (max) Conditions:

1. The timber frames shall be designed in accordance with AS 1720.1:2002(R2016) or AS 1684 Series or steel frames in accordance with AS 3623:1993(R2018) or AS 4600:2018.
2. Typical service penetrations, such as 19mm copper pipes, 65mm uPVC pipes, GPO outlets and electrical cable penetrations that may penetrate the outer linings without special treatments provided the clearance between the edge of the service and opening cut in the lining does not exceed 6mm. Services shall not penetrate the STAAC Wall 50® core for System types B and C.
3. For larger penetrations of metallic services and cables through the outer linings only the opening around the penetrations shall be sealed with a tested fire rated sealant.
4. If openings have been cut in the linings it shall be reinstated with similar materials to ensure the contribution of the lining material is maintained.
5. Subject to the above the lining materials can be fixed to the structural framing following the general requirements currently specified by Stoddart for non-fire-resistant plasterboard.
6. Service penetrations that penetrate the STAAC WALL 50® panel core in the roof space (System Type A) shall be protected by systems that can achieve an FRL of -/90/90 when penetrating the wall system as described in Section 3. (However, it should be noted that applicable legislation may restrict service penetrations through separating walls, regardless of tested performance).
7. The gap between the framing and the STAAC WALL 50® panel widths must be a minimum of 20mm.

Source: *WarringtonFire Australia Pty Ltd Report No. FAS190160 Rev 21.0, reference No. 45771, dated 23/02/2023, expiry 28/02/2028 and CSIRO; NATA Accreditation No. 165; Assessment Report No. FCO-3255 Revision D; Dated 17/10/2017*

10m high (max) FRL 60/60/60 Conditions:

1. The maximum height of the 50 mm Party Wall is not to exceed 10 m and is to be constructed in accordance with the construction methods section 15 of the 50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide August 2025.
2. The AAC panels are to be fixed to the timber frame using aluminium brackets fixed on both sides of the panels. The maximum distance between the aluminium brackets is not to exceed 2,950 mm
3. The AAC panels must not bear any structural load other than the weight of other AAC panels stacked above them
4. 50 mm Party Wall shall be used to separate two adjacent fire compartments only. At either side of the wall there shall be only one fire compartment, therefore all intermediate floor shall be non-fire-resisting.
5. All 50 mm Party Wall vertical joints, horizontal joints, base connection must be constructed as per the 50mm Intertenancy and Dual Zero Boundary Walls for House & Low Rise Multi Residential Building Design and Installation Guide August 2025.
6. Where 50 mm Party Wall is used as a corner junction, an entire thickness of 50 mm AAC panel must overlap the AAC panel that meets perpendicularly.
7. Where the AAC panels meet perpendicularly, the panels shall have the following options for vertical joint:
   a. Compressed Rockwool tack-nailed to the side of the 50 AAC panel; or
   b. 10 mm wide, 10 mm deep CSR Fireseal Sealant with backing rod either side of panel control joint
8. Wall studs may be varied to include steel framing designed in accordance with “Cold-formed steel structures: AS/NZS 4600” or “Residential and low-rise steel framing: NASH Standard – Residential and Low-Rise Steel Framing, Part 1 or Part 2” and a minimum of 64 mm deep.

Source: *SGA Report No. 115620-FAR2-r2 dated 01/03/2023*

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

The installation of the STAAC WALL 50® - Low Rise Multi-Residential Intertenancy Wall system must 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 August 2025.

- Services shall not penetrate the STAAC WALL 50® panel core for System types B and C (refer A3).
- Typical service penetrations may penetrate the outer linings without special treatments provided the clearance between the edge of the service and opening cut in the lining does not exceed 6mm.
- Service penetrations that penetrate the STAAC WALL 50® core in the roof space (System Type A) shall be protected by systems that can achieve an FRL of -/90/90 when penetrating the wall system (applicable legislation may restrict service penetrations through separating walls, regardless of tested performance).
- Penetrations for service installations must comply with Clause C4D15 in Volume 1 of the BCA for Class 2 to 9 buildings.
- The systems and all services penetrations and the like are installed with all junctions acoustically sealed so that negligible sound transmission occurs at these points.
- The gap between the framing and the STAAC WALL 50® widths must be a minimum of 20mm.

A6 Other relevant technical data

Acoustic

Where a minimum field acoustic performance rating is required to be achieved, specific project advice should be sought from a specialist Acoustic Consultant to determine whether the systems and installation methods are applicable and suitable.

Panel only with no plasterboard or other lining: Rw = 35dB, Rw+Ctr = 31dB.

Source: *Acoustic Logic report 20130786.1/0209A/R0/GW dated 02/09/2013.*

Acoustic Performance Opinion

Nominal Wall Thickness		R_W / R_W+C_{tr}		Cavity Insulation Both Sides	Wall Lining Both Sides
Stud Depth		Stud Depth			
70mm	90mm	70mm	90mm		
236mm	276mm	38 / 29	40 / 31	Nil	13mm Plasterboard Standard
		61 / 47	64 / 50	90mm Bradford Gold Batt R2.0	
230mm	270mm	38 / 28	39 / 29	Nil	10mm Plasterboard Standard
		58 / 45	60 / 47	90mm Bradford Gold Batt R2.0	
228mm	268mm	39 / 30	40 / 31	Nil	9mm Fibre Cement Sheet
		64 / 50	67 / 52	90mm Bradford Gold Batt R2.0	

Source: *Acoustic Logic Consultancy Report 20140366.35/0202A/R6/GW dated 02/02/2018.*

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Fire Safety Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
2. Structural Resistance Provisions A5G3(1)(e). A report issued by a professional engineer.

B2 Reports

1. CSIRO; NATA Accreditation No. 165; Report No. FCO-3255 Revision D; Fire resistance performance if tested in accordance with AS 1530.4:2014; Dated 17/10/2017. Report provides FRLs for compliance with C2D2(2) & H3D4.
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 02/09/2019. Report confirms the non-combustibility of the STAAC Wall 75® Panel complying with C2D10 & H3D2 of the panel only.
3. WarringtonFire Australia Pty Ltd; NATA Accreditation No. 3277; Report No FAS190160 Revision R21.0; Reference No. 45771; Fire resistance performance if tested in accordance with AS 1530.4:2014; Dated 23/02/2023, expiry 28/02/2028. Report provides FRLs for compliance with C2D2(2) & H3D4.
4. SGA Fire – A Jensen Hughes Company; Report No. 115620-FAR2-r2; Determination of FRL by calculation; Fire-Resistance of HEBEL® 50mm Low Rise Party Wall; Dated 01/03/2023.
5. PACE Structural; Report No. PS25075; Structural Design Certificate of STAACWall50 Intertenancy and Dual Zero Boundary Walls for House and Low Rise Multi Residential Building; Dated 01/10/2025. Report confirms the structural design capacity calculations of the Stoddart STAACWall50 Intertenancy system comply with B1P1(1), (2)(a), (b), (c) & (d) and H1P1(1), (2)(a), (b), (c) & (d).

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