



# Certificate of Conformity

Certificate number: CM40443

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**THIS IS TO CERTIFY THAT**

## Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems

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

Intertenancy Wall System (for Low Rise Multi-Residential Buildings).

**Description of product:**

Intertenancy & Party Wall Systems comprising several proprietary components including non-load bearing steel reinforced Autoclaved Aerated Concrete (AAC) panels installed vertically. Refer A2 below.

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

**BCA 2022 (Amdt. 1)**

	Volume One	Volume Two
<b>Performance Requirement(s):</b>	F7P2 & F7P4 Sound insulation rating of walls – Subject to <i>limitation and condition 5 &amp; 6</i> .	H4P6(2) Sound insulation – Subject to <i>limitation and condition 5 &amp; 6</i> .
<b>Deemed-to-Satisfy Provision(s):</b>	B1D4(b)(ii) Structural resistance C2D2(2) Fire resistance and stability – FRL’s – Subject to <i>limitation and condition 2 &amp; 3</i> . C2D10(5)(e) Non-Combustible Building Elements	H1D7(4)(a) Structural reliability and resistance H3D4 Fire protection of separating walls – FRL’s – Subject to <i>limitation and condition 2 &amp; 3</i> . H4D8 Sound Insulation
<b>State or territory variation(s):</b>	Part F7 (NT), Part J4 (NT)	Part H6 (NSW, NT & TAS)

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

**Limitations and conditions:**

- The Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems must be installed in accordance with [Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems Design & Installation Guide, Version 1, August 2025](#).
- The structural certification is limited to the panel only and does not include the sub-structure. The Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems must be fixed to a structurally adequate wall frame in accordance with Section 6 of [Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems Design & Installation Guide, Version 1, August 2025](#). The structural support members are designed and engineered separately as per project requirements and to the required Fire Resistance Level (FRL) of the wall by building designers and engineers. In all cases, it is a requirement that the Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems incorporates either;
  - A timber frame constructed in accordance with AS 1684 or AS 1720.1; or
  - A cold-formed steel frame constructed in accordance with NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria; or

**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:** 19/09/2025

**Date of expiry:** 19/09/2028



# Certificate of Conformity

- c. Framework compliant with the above minimum requirements and other standards, and the Building Code of Australia as applicable
3. To comply with the FRL construction must be in strict accordance with the [Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems Design & Installation Guide, Version 1, August 2025](#). Any deviation from this does not form part of this Certificate of Conformity.
4. Project specific load bearing capacities for internal load bearing walls must be configured by the project engineer.
5. A site specific performance solution is required for sound insulation as the acoustic performance of the 50mm and 75mm ACC Panels will need to be used in conjunction with other sound insulation materials. Refer to A3 for the acoustic performance of the 50mm and 75mm ACC panels.
6. For the purpose of this certificate, discontinuous construction is defined in the BCA as a wall system having a minimum 20 mm cavity between two separate leaves, with—
  - a. for masonry, where wall ties are required to connect leaves, the ties are of the resilient type; and
  - b. for other than masonry, there is no mechanical linkage between leaves except at the periphery.The above systems where the panel has less than 20 mm cavity between 2 separate leaves and mechanical linkage other than at the periphery are not suitable for discontinuous construction.
7. 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.
8. 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](http://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

ACC Inter-Tenancy Wall System consists of 50mm or 75mm thick AAC panels orientated vertically, fixed at the top and bottom of the panel to either steel or timber wall framing.

50mm AAC Panel		75mm AAC Panel	
<b>Thickness:</b>	50mm	<b>Thickness:</b>	75mm
<b>Width:</b>	600mm	<b>Width:</b>	600mm
<b>Lengths:</b>	2200, 2400, 2550, 2700, 2850 & 3000mm	<b>Lengths:</b>	1800, 2200, 2400, 2550, 2700, 2850 and 3000mm
<b>Reinforcement:</b>	Single layer steel mesh, centrally located	<b>Reinforcement:</b>	Single layer steel mesh, centrally located
<b>Steel Reinforcement:</b>	5 x Ø 4.5mm longitudinal bars and 6-8 x Ø 4.5mm transverse bars depending on panel length	<b>Steel Reinforcement:</b>	5 x Ø 4.5mm longitudinal bars and 6-8 x Ø 4.5mm transverse bars depending on panel length

### Helix 50/75mm AAC Intertency and Party Wall Systems

System	Variant	Plasterboard	Stud Framing 450mm (up to 600mm c/c)	Insulation Glasswool	Gap (up to 80mm)	Panel Thickness (mm)	Gap (up to 80mm)	Insulation Glasswool	Stud Framing	Plasterboard
PARTY WALL 50/75mm, timber or steel frames	1	1x13mm, 10.5kg/m <sup>2</sup> (impact resistant, fire-rated, acoustic plasterboard)	Timber 70x45, or Steel 70x35x0.55min.	min. R2.0, 70mm, 10kg/m <sup>3</sup>	20	50	20	min. R2.0, 70mm, 10kg/m <sup>3</sup>	Timber 70x45, or Steel 70x35x0.55min.	1x13mm, 10.5kg/m <sup>2</sup> (impact resistant, fire-rated, acoustic plasterboard)
	2	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard	Timber 70x45, or Steel 70x35x0.55min.	min. R2.0, 70mm, 10kg/m <sup>3</sup>	40	50	40	min. R2.0, 70mm, 10kg/m <sup>3</sup>	Timber 70x45, or Steel 70x35x0.55min.	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard
	3	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard	Timber 90x45, or Steel 92x35x0.55min.	min. R2.0, 70mm, 10kg/m <sup>3</sup>	20	50	20	min. R2.0, 70mm, 10kg/m <sup>3</sup>	Timber 90x45, or Steel 92x35x0.55min.	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard
	4	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard	Timber 70x45, or Steel 70x35x0.55min.	min. R2.0, 70mm, 10kg/m <sup>3</sup>	20	75	20	min. R2.0, 70mm, 10kg/m <sup>3</sup>	Timber 70x45, or Steel 70x35x0.55min.	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard

System	Variant	Plasterboard	Stud Framing 450mm (up to 600mm c/c)	Insulation Glasswool	Gap (up to 80mm)	Panel Thickness (mm)	Gap (up to 80mm)	Insulation Glasswool	Stud Framing	Plasterboard
INTERTENANCY WALL large, concealed water services both sides	5	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard	Steel 64x35x0.55min. @450mm c/c	min. 75mm, 11kg/m <sup>3</sup> or 50mm, 14kg/m <sup>3</sup>	20	75	20	min. 75mm, 11kg/m <sup>3</sup> or 50mm, 14kg/m <sup>3</sup>	Steel 64x35x0.55min. @450mm c/c	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard
	6	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard	Steel 64x35x0.55min. @450mm c/c	min. 75mm, 11kg/m <sup>3</sup> or 50mm, 14kg/m <sup>3</sup>	20	75	20	min. 75mm, 11kg/m <sup>3</sup> or 50mm, 14kg/m <sup>3</sup>	Steel 64x35x0.55min. @450mm c/c	1x13mm, 9.8kg/m <sup>2</sup> water- resistant plasterboard
	7	1x13mm, 9.8kg/m <sup>2</sup> water- resistant plasterboard	Timber 90x45, or Steel 92x35x0.55min.	min. R2.0, 70mm, 10kg/m <sup>3</sup>	20	50	20	min. R2.0, 70mm, 10kg/m <sup>3</sup>	Timber 90x45, or Steel 92x35x0.55min.	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard
CORRIDOR WALL concealed water services one side	8	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard	-	-	-	75	15	50mm 14kg/m <sup>3</sup>	Steel 64x35x0.55min. @450mm c/c	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard
	9	1x13mm, 9.8kg/m <sup>2</sup> water- resistant plasterboard	-	-	-	75	15	50mm 14kg/m <sup>3</sup>	Steel 64x35x0.55min. @450mm c/c	1x13mm, 9.8kg/m <sup>2</sup> water- resistant plasterboard
SHAFT WALL adjacent to wet or common areas	10	-	-	-	-	75	-	-	-	1x13mm, 9.8kg/m <sup>2</sup> water- resistant plasterboard
	11	-	-	-	-	75	-	-	-	1x13mm, 8.4kg/m <sup>2</sup> standard plasterboard
	12	-	-	-	-	75	-	-	-	1x13mm, 10.5kg/m <sup>2</sup> (moisture resistant, fire- rated plasterboard)
	13	-	-	-	-	75	-	-	-	1x13mm, 10.8kg/m <sup>2</sup> (fire- rated plasterboard)
SHAFT WALL adjacent to dry habitable rooms	14	-	-	-	-	75	50mm 14kg/m <sup>3</sup>	28mm steel f/c direct fixed by clips	1x13mm, 9.8kg/m <sup>2</sup> water- resistant plasterboard	
SERVICES WALL (up to 3.3m height)	15	-	-	-	-	75	-	-	-	NO plasterboard

## System Components

<b>Aluminium Wall Brackets</b>	<p>Helix 50/75mm AAC Party Wall Systems are mechanically fixed to either steel or timber wall framing (by others) using horizontal aluminium wall brackets. The brackets must be angles not smaller than 76mm x 43mm x 50mm in size and fabricated from a minimum of 1.6mm thick Grade 5005 aluminium.</p> <p>In all cases the supporting structure must be designed accordance to AS 1684 for timber or NASH; or AS/NZS 4600 for steel, with the steel having a minimum thickness of 0.55mm BMT; with recognition of the Helix 50/75mm AAC Party Wall Systems spanning and fixing requirements.</p>
<b>Damp Proof Course</b>	Damp proof course (DPC) must conform with AS/NZS 2904 Section 6 and Table 2 performance criteria.
<b>Flashings</b>	Flashings supplied by others must be designed and installed in general accordance with SA HB 39:2015 - Installation Code for Metal Roofing and Wall Cladding.
<b>Panel Screws</b>	<p>2-off 14-10 Bugle Head or Hex Head Type 17 screw (Class 3 or 4) shall be used to fix Helix panel to Aluminium Wall Brackets. Screw length shall be 10mm shorter than panel thickness. Screws shall be:</p> <ul style="list-style-type: none"> <li>a) at least Class 3 for moderate and mild exposure environments;</li> <li>b) at least Class 4 for severe marine further than 100m from breaking surf, marine and industrial exposure environments; and</li> <li>c) Class 4 stainless steel for severe marine exposure environments within 100m of breaking surf.</li> </ul>
<b>Bracket Screws</b>	<p>For timber framing, 2-off 25 x 2.5mm galvanized nails or 2-off 12-11 x 35mm hex head type 17 screws (Class 3 or 4). For steel framing, 2-off 10-16 x 16mm wafer head/hex head screws (Class 3 or 4). Screws shall be:</p> <ul style="list-style-type: none"> <li>a) at least Class 3 for moderate and mild exposure environments;</li> <li>b) at least Class 4 for severe marine further than 100m from breaking surf, marine and industrial exposure environments; and</li> <li>c) Class 4 stainless steel for severe marine exposure environments within 100m of breaking surf.</li> </ul>
<b>Thin Bed Adhesive Mortar</b>	The thin-bed adhesive mortar shall have a characteristic tensile strength equal to or greater than the characteristic tensile strength of the AAC, and be C1E classification in accordance with AS ISO 13007.1.
<b>Mineral Wool – Horizontal Joints</b>	100mm wide, 13mm thick, mineral wool fibre strips with a density of not less than 110kg/m <sup>3</sup> .
<b>Steel &amp; Plasterboard – Horizontal Joints</b>	Continuous steel channel, 76 x 32 x 0.75mm BMT, or 76 x 50 x 0.70mm Deflection Track or J-Track, fixed back to back with 10-16 x 16mm wafer head screws at 600mm max. c/c, with 16mm Fire rated plasterboard fixed to panel with 10 x 50mm bugle head laminating screw @ 400mm max. c/c on one side of the joint.

## A3 Product specification

### Structural Performance (B1D4(b)(ii) & H1D7(4)(a))

Helix 50/75mm AAC Intertenancy and Party Wall System panels have been tested in accordance with AS 5146.1, load-bearing Party Walls have been designed in accordance with AS 5146.3.

Helix 50/75mm AAC Intertenancy and Party Wall Systems are designed such that the panels are not intended to carry vertical loads other than their self-weight.

Wind pressure actions perpendicular to the surface are resisted by panel strength and fixing requirements as detailed in [Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems Design & Installation Guide, Version 1, August 2025](#). The steel or timber framing must be designed independently, taking into account internal pressures, and control joints are required at regular intervals to allow for building movement.

Helix 75mm Intertenancy/Corridor/Shaft/Services Walls are designed to resist Design Ultimate Limit State Wind Pressures up to 0.375kPa. In all cases, Helix panels shall be temporarily braced to resist construction loads, including wind.

### Fire Safety Performance (C2D2 & H3D4)

Helix 50/75mm Party Wall Systems have been tested and assessed as having the capacity to maintain an FRL of 60/60/60, 90/90/90 or 120/120/120 as applicable, and meet non-combustible construction requirements in conjunction with steel framing and non-combustible insulation when installed in accordance with **Section 3.2 Fire Safety Performance** of the [Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems Design & Installation Guide, Version 1, August 2025](#).

### Non Combustibility (C2D10(5)(e))

Helix panels including mortar are classified non-combustible and may be used wherever a non-combustible material is required.

### Acoustic (H4D8 & F7D6)

*Helix 50/75mm Party Wall Systems (1, 2, 3 & 4) & Intertenancy Wall Systems (5, 6 & 7)*

System	Helix Panel Thickness (mm)	Plasterboard	Min. Stud Depth (mm)	Frame-Panel Gap (mm)	R <sub>w</sub> (dB)	R <sub>w</sub> +C <sub>tr</sub> (dB)
1. Party Wall	50	1 x 13mm fire-rated/acoustic/impact resistant 10.5kg/m <sup>2</sup>	70	20	64	50
2. Party Wall	50	1 x 13mm standard 8.4kg/m <sup>2</sup>	70	40	64	50
3. Party Wall	50	1 x 13mm standard 8.4kg/m <sup>2</sup>	90	20	64	50
4. Party Wall	75	1 x 13mm standard 8.4kg/m <sup>2</sup>	70	20	64	50
5. Intertenancy Wall	75	1 x 13mm standard 8.4kg/m <sup>2</sup>	64	20	64	50
6. Intertenancy Wall	75	Side A: 1 x 13mm standard 8.4kg/m <sup>2</sup> Side B: 1 x 13mm water-resistant 9.8kg/m <sup>2</sup>	60	20	64	50
7. Intertenancy Wall	75	1 x 13mm water-resistant 9.8kg/m <sup>2</sup>	64	20	65	51

*Helix 75mm Corridor Wall Systems, Shaft Wall Systems and Services Wall Systems*

System	Helix Panel Thickness (mm)	Plasterboard	Min. Stud Depth (mm)	Frame-Panel Gap (mm)	R <sub>w</sub> (dB)
8. Corridor Wall	75	1 x 13mm standard 8.4kg/m <sup>2</sup>	64	15	54
9. Corridor Wall	75	1 x 13mm water-resistant 9.8kg/m <sup>2</sup>	64	15	55
10. Shaft Wall	75	1 x 13mm water-resistant 9.8kg/m <sup>2</sup>	-	-	31
11. Shaft Wall	75	1 x 13mm standard 8.4kg/m <sup>2</sup>	-	-	31
12. Shaft Wall	75	1 x 13mm 11.1kg/m <sup>2</sup> (moisture resistant, fire-rated)	-	-	32
13. Shaft Wall	75	1 x 13mm 10.8kg/m <sup>2</sup> (fire-rated plasterboard)	-	-	31
14. Shaft Wall	75	1 x 13mm water-resistant 9.8kg/m <sup>2</sup>	28mm f/c	-	32
15. Services Wall	75	-	-	-	30

## A4 Manufacturer and manufacturing plant(s)

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

## A5 Installation requirements

The Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems must be installed in accordance [Helix Panel 50/75mm AAC Intertenancy & Party Wall Systems Design & Installation Guide, Version 1, August 2025](#).

## A6 Other relevant technical data

**Thermal Performance** Helix 50/75mm AAC Intertenancy and Party Wall Systems incorporating 50mm or 75mm thickness panel, aluminium wall brackets, R2.0m2K/W, and 10mm plasterboard lining achieves the following Total R-values in accordance with AS/NZS 4859.1:2018.

Variant	Stud Framing 450mm (up to 600mm c/c)	Insulation Glasswool	Gap (mm)	Panel Thickness (mm)	Gap (mm)	Insulation Glasswool	Stud Framing	Total R-Value (m2K/W)	
								Winter (Heat flow outwards)	Summer (Heat flow inwards)
1, 2	Timber 70x45	R2.0, 70mm	20-40	50	20-40	R2.0, 70mm	Timber 70x45	4.6	4.4
1, 2	Steel 76x35x0.55	R2.0, 70mm	40	50	40	R2.0, 70mm	Steel 76x35x0.55	3.7	3.5
3	Timber 90x45	R2.0, 70mm	20	50	20	R2.0, 70mm	Timber 90x45	4.8	4.5
3	Steel 92x35x0.55min.	R2.0, 70mm	20	50	20	R2.0, 70mm	Steel 92x35x0.55	3.7	3.6
4	Timber 70x45	R2.0, 70mm	20	75	20	R2.0, 70mm	Timber 70x45	4.8	4.6
4	Steel 76x35x0.55	R2.0, 70mm	30	75	20	R2.0, 70mm	Steel 76x35x0.55	4.0	3.8

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Acoustic Provisions A5G3(1)(d). Reports from Accredited Testing Laboratories.
2. Fire Safety Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Structural Resistance Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.

### B2 Reports

1. Acronem Consulting Australia Pty Ltd; Report No. ACA 250714; SUNPOR 50MM/75MM AAC INTERTENANCY AND PARTY WALL SYSTEMS NCC 2022(AMDT.2), VOLUMES ONE, TWO & ABCB HOUSING PROVISIONS – INTERNAL, COMMON AND SEPARATING WALLS; Dated 13/08/2025. This report provides evidence and validates the below test reports for compliance with; F7P2, F7P4, B1D4(b)(ii), C2D2(2), C2D10(5)(e), C2D11(1)(b), J4D6, H4P6(2), H1D7(4)(a), H3D4, H4D8, H6D2 & C2D11(3)

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