

Certification Body:

global-mark
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Global-Mark Pty Ltd,

Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia Ph: +61 2 9886 0222 www.global-mark.com.au

Certificate Holder:

ONE AAC PANEL

485 Campbelltown Rd Denham Court NSW 2565

Ph: 1300 010 222 www.oneaac.com.au Certificate number: CM30031 Rev 4

THIS TO CERTIFY THAT

ONE AAC PANEL

Type and/or use of product:

ONE AAC PANELS are 50mm and 75mm thick reinforced AAC (Autoclaved Aerated Concrete) Panels for use in all building types (BCA Volumes 1 & 2), in the following applications:

- Fire, thermal & acoustic rated cladding for load bearing, External Walls of timber or steel framed wall structures.
- Fire, thermal & acoustic rated cladding for load bearing, Dual Boundary External Walls
 of timber or steel framed wall structures.
- Fire, thermal & acoustic rated wall system for load bearing, Internal Separating Walls
 of timber or steel framing between separate occupancies in multi-unit buildings.
- Fire, thermal & acoustic rated Flooring systems for timber or steel framed floor structures.

Description of product:

Reinforced Autoclaved Aerated Concrete (AAC) Panels compliant with AS 5146, in the following sizes:

- 50mm thickness x 600mm width and lengths of 2,200mm, 2,400mm, 2,550mm,
 2,700mm, 2,850mm & 3,000mm and
- 75mm thickness x 600mm width and lengths of 1,800mm, 2,200mm, 2,400mm,
 2,700mm, 2,850mm, 3,000mm & 3,300mm, and
- Custom length panels (up to the above maximum lengths) are also available in the above thicknesses and widths

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.

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.

The purpose of Global-Mark construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions
In placing the CodeMark mark on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the expertise of external bodies (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 23/06/2025

Date of expiry: 17/05/2028







	F3P1	Weatherproofing	H2P2	Weatherproofing
Deemed-to-Satisfy Provision(s):	Deemed-to-Satisfy Provision(s): B1D4 (b)(ii) Determine and form		H1D7 (4)(a)	Wall cladding
C2D2		Fire resistance and stability – Type of construction required	H3D3	Fire Separation of external walls
	Specification 1	Fire-resistance of building elements	Specification 1	Fire-resistance of building elements
	Specification 5	Fire resisting construction	HP 9.2.3	Construction of external walls
	C2D10	Non-combustible material		
			HP 9.3.1	Fire Protection of separating walls
			HP 9.3.4	Fire Protection – Horizontal projections
			HP 9.4.1	Fire Protection of garage top dwellings - Walls
	F7D3	Determination of airborne sound insulation ratings	HP 10.7.1	Sound insulation requirements
	F7D4	Determination of impact sound insulation ratings	HP 10.7.2	Determination of airborne sound insulation ratings
	F7D5	Sound insulation rating of floors	HP 10.7.3	Construction of sound insulated walls
	F7D6	Sound insulation rating of walls		
	F8D3	Condensation management	H4D9	Condensation management
G5D3		Construction in bushfire prone areas – Protection of residential buildings	H7D4 (2)	Construction in bushfire prone areas
	G5D4	Construction in bushfire prone areas – Protection of certain Class 9 buildings		
	J3D8	External walls of a sole occupancy unit of a Class 2 building or Class 4 part of a building		
	J4D6	Building fabric – Walls and glazing	HP 13.2.5	Building fabric – External walls
State or territory variation(s):	NT B1D4 (b)(ii)	Structural resistance		
QLD B1D4 (b)(ii)		Structural resistance		
	WA B1D4 (b)(ii)	Structural resistance	WA H1D7 (4)(a)	Wall cladding
			HP NSW 9.4.1	Fire Protection of garage top dwellings – Walls
			HP NSW 9.4.3	Fire Protection of garage top dwellings – Separating floors



1			
NT Part F7	Sound transmission & insulation	HP NT 10.7	Sound insulation
		TAS H4D9	Condensation management
NSW G5D3	Construction in bushfire prone areas – Protection of residential buildings	NSW H7D4 (2)	Construction in bushfire prone areas
NSW G5D4	Construction in bushfire prone areas – Protection of certain Class 9 buildings		
VIC G5D4	Construction in bushfire prone areas – Protection of certain Class 9 buildings		
NSW J3D8	External walls of a sole occupancy unit of a Class 2 building or Class 4 part of a building		
NSW J4D6	Building fabric – Walls and glazing	HP NSW 13.2.5	Energy efficiency – External walls
NSW Section J	Energy efficiency: Class 2 or Class 4 part of a building (up to V3 BASIX dwellings & BASIX Alterations and additions) – NCC 2019 A1 NSW Section J Class 2 or Class 4 part of a building (V4 or later BASIX dwellings) plus Class 3, 5, 6, 7, 8 & 9 buildings – NCC 2022 Section J	NSW Part H6	Energy efficiency: Up to V3 BASIX dwellings & BASIX Alterations and additions – NCC 2019 A1 NSW 2.6 V4 or later BASIX dwellings – NCC 2022 NSW Part H6
		NT Part H6	Energy efficiency
		HP NT 13.2.5	Energy efficiency building fabric – External walls
TAS Part J3	Elemental provisions for a sole-occupancy unit of a Class 2 building or a Class 4 part of a building	TAS Part H6	Energy efficiency – NCC 2019 (A1) 2.6
		HP TAS 13.2	Energy efficiency – NCC 2019 3.12



SUBJECT TO THE FOLLOWING LIMIT	ATIONS AND C	ONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION	I STATEMENTS IN APPENDIX B	
Limitations and conditions:			Building classification/s:	
Volume 1 – B1P1, B1P2, B1D4	Volume 1 – B1P1, B1P2, B1D4 & Volume 2 – H1P1, H1D7			
Volume 1 – NT B1D4, QLD B1D4, WA B1D4	&	Volume 2 – WA H1D7		
Installation Manuals (for External Walls and/o AS/NZS1170.2), construction details and fixing relevant ONE AAC Design & Installation Manu Supporting stud frame design & certification s	or Dual Bounda g methods mus als for Externa shall be conduc	sign wind pressure limits documented within the relevant ONE AAC Design & ry Walls – refer Appendix B2). Wind pressures (as determined by AS4055 or t follow the relevant details contained within the engineering detail sections of the Walls and/or Dual Boundary Walls, refer Appendix B2. ted by a suitably qualified engineer in accordance with AS 1684 "Timber Framing 0 "Cold-formed steel structures", for Steel framing.		
Volume 1 – B1P1 (2)(e), (f) & (i)		Volume 2 – H1P1 (2)(e), (f) & (i)	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10	
Snow, liquid pressure and earth pressure action	ons are exclude	d.		
Volume 1 – B1P4	&	Volume 2 – H1P2	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10	
Compliance for flood hazard areas is excluded	l.			
Volume 1 – C2D2, Specification 1 & Specification 1 Refer to relevant construction options, details		Volume 2 – H3D3 & Specification 1 Housing Provisions – 9.2.3, 9.3.1, 9.3.4, 9.4.1 & HP NSW 9.4.1 & HP NSW 9.4.3 ncluded in the relevant ONE AAC Design & Installation Manuals, refer Appendix B2:	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10	
in the External Wall Manual) ONE AAC Intertenancy wall FRLs of 60/0		fire sources) up to 120/120/120 are achievable (refer construction system options 0 or 120/120/120 are achievable (refer construction system options in the Party		
Wall Manual) ONE AAC Dual Boundary wall FRLs of 60	1/60/60 annly (refer construction system options in the Dual Boundary Wall Manual)		
		achieve FRLs up to 90/90/90 for fire sources above and below when a Ceiling		
x 0.5mm BMT) at spacing of 600mm ma	ax	plasterboard is directly fixed to joists or furring channels (minimum 28mm x 35mm		
	n system optio	ns in Appendix A3 & the relevant Wall or Floor System Manuals, refer Appendix B2.		
Volume 1 – C2D10			2, 3, 4, 5, 6, 7, 8 & 9	
in the relevant ONE AAC Design & Installation	Manuals, refe	n is based on the system being installed using components & accessories as detailed Appendix B2. Substitution of wall system components &/or accessories may be nents &/or accessories must be maintained for this certificate to remain valid.		
Volume 1 – C2D10 (1)(a)			2, 3, 4, 5, 6, 7, 8 & 9	
		truction elements and their components must be non-combustible for all external are required to be fire-resisting, timber framing and components may not be used.		



Volume 1 – C2D10 (6)			2, 3, 4, 5, 6, 7, 8 & 9
In external wall applications, flexib Installation Manual for External W		wrap) materials shall be installed in accordance with the ONE AAC Design &	
Volume 1 – F3P1	&	Volume 2 – H2P2	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
ONE AAC External walls & Zero Bo	undary walls are considere	d to remain Weatherproof, when the external wall:	
 is subject to Ultimate Limit Sta deflections of the supporting state include only windows that cor 	ate (ULS) wind pressures no structures are limited to Sp mply with AS 2047, and	tor scores are determined in accordance with Tables F3V1a or H2V1a, and of exceeding ±2.5 kPa, and pan/250 for the Serviceability Limit State (SLS) wind pressures, and all wall or Zero Boundary wall design & installation manuals, refer Appendix B2.	
Volume 1 – G5D3	&	Volume 2 – H7D4	Class 1, 2 & 3 buildings & 10a
	tion in Bushfire Areas (whe	structed in accordance with AS3959:2018 including Amendments 1 & 2, or NASH re applicable), ONE AAC Panels are permitted for use as external wall cladding in and including BAL–FZ.	buildings or decks immediately adjacent or connected to such buildings
In Queensland (per QLD G5D2 & Q types), mangrove communities and		the classified vegetation is Group F rainforest (excluding wet sclerophyll forest high, are excluded.	
as external wall cladding in buildin	gs subject to Bushfire Atta	structed in accordance with Specification 43, ONE AAC Panels are permitted for use ck Level not exceeding BAL–12.5. The the scope of application of the clause.	Class 9a, 9b & 9c buildings & Class 10a buildings or decks immediately adjacent or connected to such buildings
Volume 1 – J3D8		is the scope of approach of the states.	Class 2 building or Class 4 part of a
Volume 1 – NSW J3D8 & TAS Part	13		building
The wall system contributes towar	ds the Total wall system U sulation shall be included v	or R value, which is to be determined in accordance with Volume 1 – J3D8 (2) & within the wall system, as outlined in the relevant Design & Installation Manual &	, and the second
Volume 1 – J4D6	&	Housing Provisions – 13.2.5	Class 1, 3, 5, 6, 7, 8, 9 & 10 buildings
Volume 1 – NSW J4D6	&	Housing Provisions – NSW 13.2.5, NT 13.2.5 & TAS 13.2	
•	cific state variation. Insula	or R value, which is to be determined in accordance with Volume 1 – J4D6 $\&$ tion shall be included within the wall system, as outlined in the relevant Design $\&$	
Volume 1 – NSW G5D3	&	Volume 2 – NSW H7D4	Class 1, 2 & 3 buildings, Class 4 part
•	ccordance with Planning fo	ng in designated bushfire prone areas, subject to Bushfire Attack Level up to and or Bush Fire Protection 2019 including addendum November 2022, when the	of a building & Class 10a buildings of decks immediately adjacent or connected to such buildings
- AS3959: 2018 including Ame 2022, or where applicable,	endments 1 & 2, except as	modified by Planning for Bush Fire Protection 2019 including addendum November	



 NASH Standard – Steel Framed Construction in Bushfire Areas, except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022.

Except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022.

The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection 2019 including addendum November 2022.

Site specific conditions have not been considered for the compliance assessment, these may include:

- the development consent following consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning and Assessment Act 1979 if required, or
- the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development

Planning for Bush Fire Protection 2019 including addendum November 2022 requires a performance-based application in bushfire prone areas subject to Bushfire Attack BAL–40 and BAL–FZ. Construction in NSW's bushfire prone areas subject to Bushfire Attack BAL–40 and BAL–FZ have not been considered in this assessment.

Volume 1 - NSW G5D4

In designated bushfire prone areas subject to Bushfire Attack Levels not exceeding BAL–12.5, determined in accordance with Planning for Bush Fire Protection including addendum November 2022, ONE AAC Panels are permitted for use as external wall cladding, when the building is constructed in accordance with:

- 1. For class 9 buildings, Specification 43 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, or
- 2. For class 10a buildings or decks AS3959: 2018 including Amendment 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022 and S43C13

The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection 2019 including addendum November 2022.

Site specific conditions arising from the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development are site specific and have not been considered for the compliance assessment.

Construction in NSW in BAL-19, BAL-29, BAL-40 & BAL-FZ are outside the scope of application of the clause.

Volume 1 - VIC G5D4

In designated Bushfire prone areas subject to Bushfire Attack Level not exceeding BAL—12.5, ONE AAC Panels are permitted for use as external wall cladding, when the building is constructed in accordance with Specification 43.

Construction in VIC in BAL-19, BAL-29, BAL-40 & BAL-FZ are outside the scope of application of the clause.

General

The supporting structures including stud frame & cavity sub framing, plus internal linings shall be designed & specified by a suitably qualified design professional in accordance with manufacturer guidelines and installed by suitably qualified and trained building professionals, in accordance with manufacturer guidelines and the relevant ONE AAC Design and Installation Manuals, refer Appendix B2.

Class 9 buildings that have a special fire protection purpose & Class 10a buildings or decks immediately adjacent or connected to such buildings

Class 9a, 9b & 9c buildings & Class 4 part of a building associated with such buildings, plus Class 10a buildings or decks immediately adjacent or connected to such buildings

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



APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

Refer to page 1 of this certificate.

A2 Description of product

Refer to page 1 of this certificate.

A3 Product specification

ONE AAC	50MM PANELS 75MM XL F		L PANELS	
Property	Value	Units	Value	Units
Ambient 1 Density, Pamb (10% Moisture Content)	561	kg/m³	440	kg/m³
Dry ² Density, ρ_{dry}	510	kg/m³	400	kg/m³
Working ³ Density, p _{design} (35% Moisture Content)	689	kg/m³	540	kg/m³
Characteristic Compressive Strength of AAC f'm	2.8	MPa	2.38	MPa
Average Compressive Strength of AAC	3.2	MPa	2.8	MPa
Characteristic Modulus of Rupture, f'ut	0.6	MPa	0.4	MPa
Design Ultimate Limit State Bending Capacity, øM	0.12	kNm	0.25	kNm
Design Serviceability Limit State Deflection Limit, δ_{max}	SPAN/240		SPAN/240	
Coefficient of contraction	0.4	mm/m	0.4	mm/m
Coefficient of thermal expansion	10	x10 ⁻⁶ /°C	10	x10 ⁻⁶ /°C

ONE AAC External Walls & Intertenancy Walls achieve various FRL's and Acoustic ratings as per the following extracts from the Technical Literature:

ONE AAC – External Wall FRLs

EXTERNAL PANEL	INTERNAL PLASTERBOARD LINING	FRL OUTSIDE	FRL INSIDE	IMAGE
50mm Or 75mm	10mm – 13mm Standard Plasterboard	120/120/90	-/-/-	
50mm Or 75mm	1 X 13mm Fire Rated Plasterboard	120/120/120	-/60/60	
50mm Or 75mm	1 X 16mm Fire Rated Plasterboard	120/120/120	60/60/60	
50mm Or 75mm	2 X 13mm Fire Rated Plasterboard	120/120/120	90/90/90	
50mm Or 75mm	2 X 16mm Fire Rated Plasterboard	120/120/120	120/120/120	

SYSTEM	PANEL	CONSTRUCTION TYPE	FRL	Rw+Ctr
1 – 60 LB Stack Bond & Vertical H-Stud	50mm	Framed: Timber or Steel Frame	60/60/60	53
1S – 60 NLB Stack Bond & Vertical H-Stud	50mm	Slab to Slab: Timber or Steel frame infill	-/60/60	53
2 – 90 LB (H-Stud Not Permitted) Stretcher & Vertical	50mm	Framed: Timber or Steel Frame	90/90/90	53
2S – 90 NLB (H-Stud Not Permitted) Stretcher & Vertical	50mm	Slab to Slab: Timber or Steel frame infill	-/90/90	53
3 – 120 LB Vertical Panel	75mm	Framed: Timber or Steel Frame	120/120/120	55
3S – 120 NLB Vertical Panel	75mm	Slab to Slab: Timber or Steel frame infill	-/120/120	55

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ONE AAC External Walls achieve Thermal Performance (R values) as per the following extracts from the Technical Literature:

ONE AAC External Walls on 70mm (nom) Stud Frames

ONE	System details – 70mm Frames	Total R Va	lue m2K/W
AAC SYSTEM	The following Systems are all based on 50mm/75mm ONE AAC Panel, 20- 40mm Cavity, 70mm Frame Thickness, and 10mm Plasterboard internal linings	Summer 50mm/75mm	Winter 50mm/75mm
NS-1-70	Panel + Cavity + No Sarking + Frame + No Insulation + Plasterboard	0.72/0.89	0.74/0.91
SS-1-70	Panel + Cavity + SS Sarking + Frame + No Insulation + Plasterboard	1.33/1.50	1.46/1.63
NS-2-70	Panel + Cavity + No Sarking + Frame + R2.0 Insulation + Plasterboard	2.63/2.80	2.84/3.01
SS-2-70	Panel + Cavity + SS Sarking + Frame + R2.0 Insulation + Plasterboard	2.63/2.80	2.84/3.01

ONE AAC External Walls on 90mm (nom) Stud Frames

ONE	System details – 90mm Frames	Total R Va	lue m2K/W
AAC SYSTEM	The following Systems are all based on 50mm/75mm ONE AAC Panel, 20- 40mm Cavity, 90mm Frame Thickness, and 10mm Plasterboard internal linings	Summer 50mm/75mm	Winter 50mm/75mm
NS-1-90	Panel + Cavity + No Sarking + Frame + No Insulation + Plasterboard	0.72/0.89	0.74/0.91
SS-1-90	Panel + Cavity + SS Sarking + Frame + No Insulation + Plasterboard	1.34/1.51	1.50/1.67
NS-2-90	Panel + Cavity + No Sarking + Frame + R2.0 Insulation + Plasterboard	2.63/2.80(min)	2.84/3.01(min)
NS-3-90	Panel + Cavity + No Sarking + Frame + R2.5 Insulation + Plasterboard	3.11/3.28(min)	3.24/3.41(min)
SS-2-90	Panel + Cavity + No Sarking + Frame + R2.5 Insulation + Plasterboard	3.11/3.28(min)	3.24/3.41(min)
DS-1-90	Panel + 40mm Cavity + DS Sarking + Frame + R2.5 Insulation + Plasterboard	3.49/3.66	3.83/4.00
FS-1-90	Panel +Cavity+ FS Sarking +Frame+R2.0 Insulation +Plasterboard	5.00/5.17	5.20/5.37

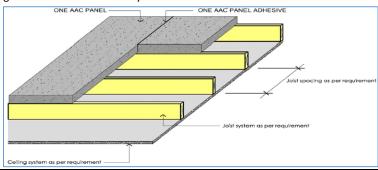
ONE AAC Flooring Systems achieve various FRLs as per the following extracts from the Technical Literature:

$\label{eq:one-system} \textbf{-} \textbf{Fire Performance for Fire from Above}$

FIRE RATING PERFORMANCE - FIRE FROM ABOVE -TABLE 'A'

RATING - Fire from Above (Minutes)	Maximum Joist Spacing (mm)	ONE AAC PANEL Material Above Joists	Fire Rated Plasterboard Material Below Joists
120	600	75mm Panel	Nil

Typical arrangement of ONE AAC Floor system



ONE AAC Floor System with Fire Resistant Ceiling Systems – Fire Performance for Fire from Below FIRE RATING PERFORMANCE - FIRE FROM BELOW - FLOOR / CEILING SYSTEM -TABLE 'B'

RATING - Fire From Below (FRL)	Maximum Joist Spacing (mm)	ONE AAC PANEL Material Above Joists	Fire Rated Plasterboard Material Below Joists
120/120/120	600	75mm Panel	3 layers of 16mm FR PB
90/90/90	600	75mm Panel	2 Layers of 16mm FR PB or 3 layers of 13mm FR PB
60/60/60	600	75mm Panel	2 Layers of 13mm FR PB
30/30/30	450	75mm Panel	1 Layer of 13mm FR PB or 1 layer of 16mm FR PB

KEY: FRPB

Fire Rated Plasterboard

Joists Timber or Steel Joists as per Engineer's requirements



For system component details & specifications refer to the Product Technical Literature listed as items 1, 2, 3, 4 & 5 in Appendix B2:

- ONE AAC PANEL External Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Floor System Design and Installation Manual, May 2025.
- ONE AAC PANEL Party Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Dual Boundary Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Dual Boundary Wall Construction Guide (DWG & Photos), September 2019.

A4 Manufacturer and manufacturing plant(s)

ONE AAC PANEL

485 Campbelltown Rd Denham Court NSW 2565 Ph: 1300 010 222

www.oneaac.com.au

A5 Installation requirements

For external walls using ONE AAC panels in Horizontal orientation, refer to the following span table (from ONE AAC PANEL External Wall System Design and Installation Manual, May 2025):

ONE AAC External Walls - Horizontal Panels Spanning and Fixing Guide (50mm & 75mm panels)					
TABLE	Max Horizontal Spacing For Battens and Panel Screws		Max Panel Screw Spacing Vertically		
Wind Zone	Corner Zone	Typical Zone	Corner Zone	Typical Zone	
N2, N3, C1	600	900	500 (2 screws/600mm)	500 (2 screws/600mm)	
N4, C2	600	600	250 (3 screws/600mm)	500 (2 screws/600mm)	
N5, C3	450	450	250 (3 screws/600mm)	250 (3 screws/600mm)	

Alternately refer to AS 5146.3:2018 – Tables 3.3 A, B, C, D, E, F, G, H & I.

Refer to the Product Technical Literature listed as items 1, 2, 3, 4 & 5 in Appendix B2:

- ONE AAC PANEL External Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Floor System Design and Installation Manual, May 2025.
- ONE AAC PANEL Party Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Dual Boundary Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Dual Boundary Wall Construction Guide (DWG & Photos), September 2019.

Additional construction details not included in the above Technical Literature may be found in AS 5146.3:2018 – Sections 4.4, 5.4 & 6.3.

A6 Other relevant technical data

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Refer to the Product Technical Literature listed as items 1, 2, 3, 4 & 5 in Appendix B2:

- ONE AAC PANEL External Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Floor System Design and Installation Manual, May 2025.
- ONE AAC PANEL Party Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Dual Boundary Wall System Design and Installation Manual, May 2025.
- ONE AAC PANEL Dual Boundary Wall Construction Guide (DWG & Photos), September 2019.

And any referenced documents within the technical literature identified in Appendices A3 & A5.



APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2022:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
BCA Volume One B1P1	A2G2 (2) (a) & (c)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
			20, 21, 22, 23, 41 & 42
BCA Volume Two H1P1	A2G2 (2) (a) & (c)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
			20, 21, 22, 23, 41 & 42
BCA Volume One B1P2	A2G2 (2) (a) & (c)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
			20, 21, 22, 23, 41 & 42
BCA Volume One F3P1	A2G2 (2) (a), (c) & (d)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 4, 40, 41 & 42
BCA Volume Two H2P2	A2G2 (2) (a), (c) & (d)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 4, 40, 41 & 42
BCA Volume One B1D4 (b)(ii)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
			20, 21, 41 & 42
BCA Volume Two H1D7 (4)(a)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,
			20, 21, 41 & 42
BCA Volume One C2D2	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume One Specification 1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume One Specification 5	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume Two H3D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume Two Specification 1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
Housing Provisions 9.2.3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume One C2D10	A2G3 (2) (a)	A5.2 (1) (d) – Test report	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
Housing Provisions 9.3.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
Housing Provisions 9.3.4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
Housing Provisions 9.4.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume One F7D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
BCA Volume One F7D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
BCA Volume One F7D5	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
BCA Volume One F7D6	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
Housing Provisions 10.7.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
Housing Provisions 10.7.2	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
Housing Provisions 10.7.3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
BCA Volume One F8D3	A2G3 (2) (a) & (b)	A5G3 (1) (f) – Other documentary evidence	Item 1
BCA Volume Two H4D9	A2G3 (2) (a) & (b)	A5G3 (1) (f) – Other documentary evidence	Item 1
BCA Volume One G5D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume One G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume Two H7D4 (2)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume One J3D8	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62



Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
BCA Volume One J4D6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
Housing Provisions 13.2.5	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume One NT B1D4 (b)(ii)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 41 & 42
BCA Volume One QLD B1D4 (b)(ii)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 41 & 42
BCA Volume One WA B1D4 (b)(ii)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 41 & 42
BCA Volume Two WA H1D7 (4)(a)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 41 & 42
Housing Provisions NSW 9.4.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
Housing Provisions NSW 9.4.3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38 & 39
BCA Volume One NT F7	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
Housing Provisions NT 10.7	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 & 53
BCA Volume Two TAS H4D9	A2G3 (2) (a) & (b)	A5G3 (1) (f) – Other documentary evidence	Item 1
BCA Volume One NSW G5D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume Two NSW H7D4 (2)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume One NSW G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume One VIC G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 24, 25, 26, 27, 28, 30 & 31
BCA Volume One NSW J3D8	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume One NSW J4D6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume One NSW Section J	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
Housing Provisions NSW 13.2.5	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume Two NSW Part H6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume Two NT Part H6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
Housing Provisions NT 13.2.5	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume One TAS Part J3	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
BCA Volume Two TAS Part H6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62
Housing Provisions TAS 13.2	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 1, 2, 3, 4, 5, 6, 7, 54, 55, 56, 57, 58, 59, 60, 61 & 62



APPENDIX B cont'd

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2022

Ref	Author	Reference	Date	Description	NATA Registration
1	ONE AAC PANEL	External Wall Design & Installation Manual	May 2025	Client published design & installation manual	-
2	ONE AAC PANEL	Flooring Design & Installation Manual	May 2025	Client published design & installation manual	-
3	ONE AAC PANEL	Party Wall Design & Installation Manual	May 2025	Client published design & installation manual	-
ļ	ONE AAC PANEL	Dual Zero Boundary Wall Design & Installation Manual	May 2025	Client published design & installation manual	-
5	ONE AAC PANEL	Dual Zero Boundary Wall Construction Details	Sep 2019	Client published drawings and details	-
<u>;</u> *	Enertren	ONE-007 V.4	10 Feb 2022	Compliance review of ONE AAC systems against NCC	-
*	Enertren	ONE-013 V.3	10 Feb 2022	Compliance review of ONE AAC systems against NCC	-
*	ONE AAC PANEL	Batch Testing 50mm Panel	15 Mar 2018	Quality control structural test document	-
*	Enertren	AS4055-2006 Connection Design	9 Apr 2013	Structural calculation report	-
.0*	Enertren	ONE-011 V.1	10 Feb 2022	Structural Design Certification	-
1*	Enertren	ONE-012 V.3	10 Feb 2022	Structural Design Certification	-
2*	BEMAC Laboratories	10953 – 50mm x 2.7m mesh panel	6 Mar 2017	Structural test report	1393
3*	BEMAC Laboratories	10953 – 50mm x 3.0m mesh panel	4 May 2017	Structural test report	1393
4*	Pace Structural	PS 18013 – 50mm AAC Zero Boundary Walls	22 Jan 2025	Structural Design Certification	-
5*	Pace Structural	PS 18022 – 50mm AAC Party Walls	22 Jan 2025	Structural Design Certification	-
6*	Pace Structural	PS 20116 – 75mm AAC Flooring	23 Jan 2025	Structural Design Certification	-
7*	Pace Structural	PS 20123 – 75mm AAC External Walls	23 Jan 2025	Structural Design Certification	-
.8*	Pace Structural	PS 18153 – 75mm AAC Vert External Walls	23 Jan 2025	Structural Design Certification	-
9*	Pace Structural	PS 18158 – 75mm AAC Party Walls	20 Mar 2025	Structural Design Certification	-
0*	Pace Structural	PS 19167 – 75mm AAC Flooring	11 Apr 2021	Structural Design Certification	-
1*	Pace Structural	PS 20145 – 50mm AAC External Walls	22 Jan 2025	Structural Design Certification	-
2*	Mahaffey Associates	BAS/25/L01/9830	26 Feb 2025	Durability assessment report	-
3*	The Coatings Consultancy	TCC18025-B-20231018	18 Oct 2023	Durability assessment report	-
4*	CSIRO	FNC12427A	2 Sep 2019	Fire Test Report	165
5*	CSIRO	FNC12490	22 Nov 2019	Fire Test Report	165
6*	CSIRO	FCO-2532 Rev G	20 Aug 2024	Fire Assessment Report	165
7*	CSIRO	FCO-3003 Rev F	3 Dec 2024	Fire Assessment Report	165
8*	CSIRO	FCO-3241 Rev D	3 Dec 2024	Fire Assessment Report	165
9*	CSIRO	FCO-3255 Rev G	1 Sep 2021	Fire Assessment Report	165
0*	CSIRO	FCO-3451 Rev D	30 Aug 2024	Fire Assessment Report	165
1*	WarringtonFire Australia	FAS200114 – 24917 R3.1	26 May 2022	Fire Assessment Report	3277
2*	WarringtonFire Australia	FAS190160 – 45771 R21.0	23 Feb 2023	Fire Assessment Report	3277
3*	WarringtonFire Australia	FAS200249 – 27915 RIR 28.3	25 Sep 2024	Fire Assessment Report	3277



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Ref	Author	Reference	Date	Description	NATA Registration
34*	BRANZ	FC12946-02-05	23 Dec 2024	Fire Assessment Report	IANZ 37
35*	BRANZ	FC12969-02-02	23 Dec 2024	Fire Assessment Report	IANZ 37
36*	SGA Fire	115620-FAR2-r2	1 Mar 2023	Fire Assessment Report	-
37*	WarringtonFire Australia	FAS190160 RIR21.0	27 Feb 2023	Fire Assessment Report	3277
38*	Jensen Hughes	115620-FAR10-r2	27 Apr 2023	Fire Assessment Report	-
39*	Jensen Hughes	FAS200088 – 26162 RIR3.7	27 Nov 2024	Fire Assessment Report	3277
40*	Enertren	ONE-009 V.1	5 Sep 2019	Weatherproofing Assessment Report	-
41*	AECOM	2021.04.08_FV1.1_HEB	8 Apr 2021	Weatherproofing Assessment Report	-
42*	Xavier Knight	220912 Rev 06	8 Aug 2024	Weatherproofing Assessment Report	-
43*	Koikas Acoustics	2679C20150827NK v1	3 Jun 2015	Acoustic Test Report	-
44*	Koikas Acoustics	2878C20151112MFC v1	12 Nov 2015	Acoustic Test Report	-
45*	Koikas Acoustics	2878C20181031NK v2	9 Nov 2016	Acoustic Assessment Report	-
46*	Renzo Tonin & Assoc	TG553-01F02 (rev 0)	6 Feb 2014	Acoustic Assessment Report	-
47*	AcousticLogic	201307861.1/0209A/R0/GW	2 Sep 2013	Acoustic Assessment Report	-
48*	AcousticLogic	20140366.35/0202A/R6/GW	2 Feb 2018	Acoustic Assessment Report	-
49*	AcousticLogic	20171728.13/0507A/R6/GW	1 May 2019	Acoustic Assessment Report	-
50*	AcousticLogic	20171728.18/1302A/R1/GW	13 Feb 2020	Acoustic Assessment Report	-
51*	AcousticLogic	20210103.13/1105A/R0/TB	11 May 2023	Acoustic Assessment Report	-
52*	AcousticLogic	2010861.19/0508A/R3/GW	5 Aug 2016	Acoustic Assessment Report	-
53*	PKA Acoustic Consulting	PKA-A071	18 Apr 2023	Acoustic Assessment Report	-
54*	Enertren	75mm AAC Panel R-Value	27 Nov 2015	Thermal Assessment Report	-
55*	Enertren	ONE-AAC Cladding Wall 75mm R Values	9 Apr 2013	Thermal Calculation Report	-
56*	CSR Insulation	NR-12140	10 Oct 2012	Thermal Test Report	993
57*	James M Fricker	107w2509p-w26111p	15 Apr 2024	Thermal Calculation Report	-
58*	James M Fricker	107w25011n-w2520	29 Apr 2024	Thermal Calculation Report	-
59*	James M Fricker	107w25011n-w2520	29 Apr 2024	Thermal Calculation Report	-
60*	James M Fricker	107w26011n-w2720	8 Mar 2024	Thermal Calculation Report	-
61*	James M Fricker	107.23i – 107.29ii	1 Sep 2020	Thermal Calculation Report (timber frame)	-
62*	James M Fricker	107.23i – 107.29ii	1 Sep 2020	Thermal Calculation Report (steel frame)	-

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