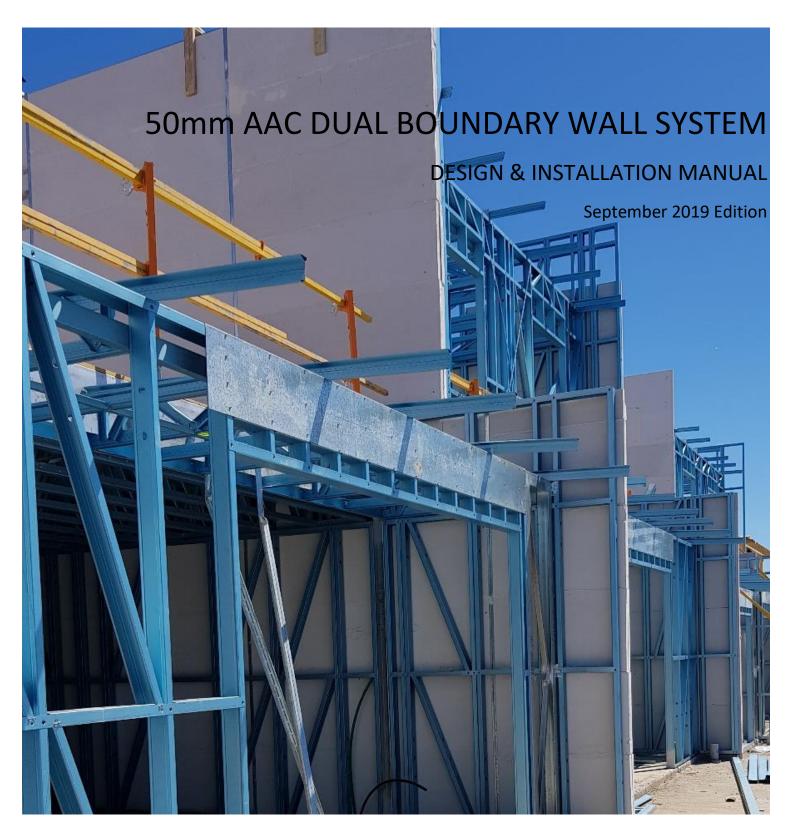


ONE AAC PANEL

AAC FIRE & ACOUSTIC SOLUTIONS



Preface

The ONE AAC PANEL Dual Boundary Wall System Design & Installation Manual has been developed to provide design, installation and technical information to 'end users' ranging from the owner builder, licensed builders, building consultants, designers, architects and engineers.

Although the details provided in this Design & Installation Manual have been developed by ONE AAC and are intended to represent good building practice, the registered professionals involved in the project (such as the licensed builder, architectural designer and engineering consultant) must ensure that the information provided in this Design & Installation Manual is appropriate and suitable for the project.

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Introduction

ONE AAC is known as a market leader in Aerated Autoclaved Concrete (AAC) Panel Solutions for residential and commercial construction.

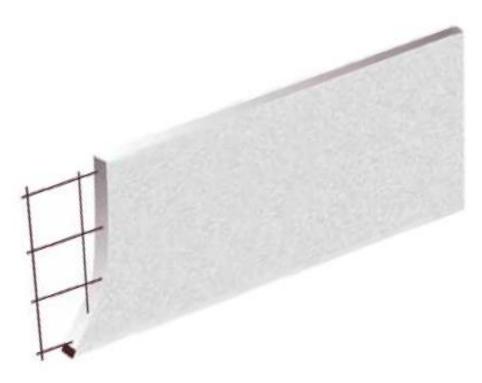
ONE AAC combines 25 years of construction experience, product and systems development knowledge and material distribution expertise, to ensure its customers receive the best construction solutions for their projects, at the best possible price, with the fastest possible turnaround.

ONE AAC supplies to the construction industry and specialises in **Fire** and **Acoustic** Solutions for **wall** and **floor** systems, in both **commercial** and **residential** applications.

Solutions include, but are not limited to:

- Internal Wall Systems (Intertenancy / Party Walls) Low Rise and High Rise
- External Rendered Wall Systems Low Rise and High Rise Façades
- Boundary Walls Single and Dual Wall Options
- Floor and Ceiling Systems
- Fence Systems Boundary and Estate Fencing Solutions

Solutions Can Be Resolved in 50mm or 75mm Thick ONE AAC PANEL - The Choice is Yours.



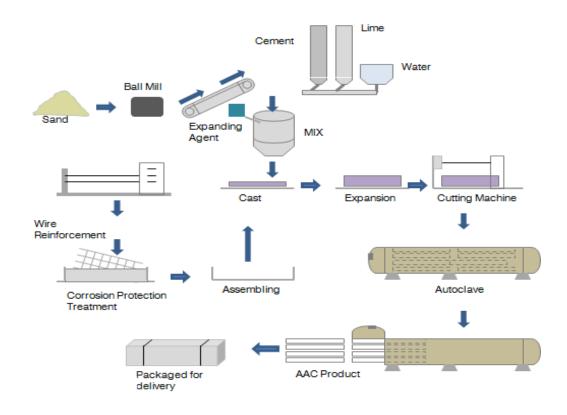
STEEL REINFORCED - 50MM AND 75MM ONE AAC PANEL

What Is AAC? (Lightweight Concrete)

Autoclaved Aerated Concrete (AAC) is manufactured from cement, sand (silica), lime and water, it is aerated by adding an expanding agent to the mix (small amounts of aluminium paste). The mix is poured into a mould (a very large cake tin), to approximately 2/3 of the height of the mould, almost instantly the expanding agent reacts with the other elements, and the mix begins to rise in the mould. (A chemical reaction expands the mixture to form small, finely-dispersed air bubbles).

The moulds are pre-cured in a heated room for several hours. Then the semi-solid material (still in a green state) is transported to the cutting machine. The soft but semi-solid block is sliced into the required panel size using steel wires. Once sliced, the block is steam pressure cured in autoclaves for up to 12 hours. The expanding chemical reaction combined with the Autoclave process is what gives AAC it's unique properties. AAC has excellent thermal insulation and acoustic absorption properties, it has superior fire resistance qualities and is also termite resistant.

Its properties and specification satisfy all relevant building codes. Working with AAC is easy and efficient. AAC is both versatile and economical. AAC meets the diverse demands better than any other material due to the numerous advantages of its physical and mechanical properties.



THE ONE AAC PANEL MANUFACTURING PROCESS

The ONE AAC Panel System - BCA Compliance

The BCA is part of the Australian National Construction Code system and defines minimum standards for buildings. The BCA consists of two volumes:

Volume One - provides requirements for commercial, residential and public building defined as Class 2 to 9 in the BCA. Typical examples include offices, commercial, health buildings, flats and boarding houses.

Volume Two – Housing Provisions, considers domestic construction defined as Class 1 and 10. Typical examples include houses, garages, swimming pools, carports and the like. The BCA is a performance based building code and contains requirements for Structures, Fire Resistance; Damp & Weatherproofing, Sound Transmissions & Insulation and Energy Efficiency.

The ONE AAC Panel System has been assessed to meet and comply with all the necessary performance requirements of the BCA. This design & Installation Manual contains the information necessary to assist in the design of a project.

The designer should ensure the proposed use of the system satisfies the Performance Requirements and provides sufficient design information (including ONE AAC appraisal and installation manuals) to satisfy the requirements of the appropriate authority.

ONE AAC Panel has achieved the CODEMARK CERTIFICATE OF COMFORMITY issued by Global-Mark in Australia (Certificate Number GM_CM30031 Rev 2) to meet all the required provisions of the Building Code of Australia **for Volume One and Volume Two** and has been appraised as an **Alternative Solution** in terms of compliance with the Building Code of Australia as listed below:



- 1. Volume One BP1.1, BP1.2, B1.4 and Volume Two P2.1.1, 3.5.4.0 in respect of structural performance;
- 2. Volume One A5.4, C1.1, C1.9 and Volume Two 3.7.2.4, 3.7.3.2/5 and 3.7.4.3 in respect of fire performance;
- 3. Volume One FP1.4, F1.9 and Volume Two P2.2.2 in respect of damp weatherproofing;
- 4. Volume One F5.2/3/4/5 and Volume Two 3.8.6.2/3/4 in respect of acoustic performance;
- 6. Volume One G5.2 and Volume Two 3.10.5.0(c) in respect of Construction in Bushfire Prone Areas;
- 7. Volume One J1.5 and Volume Two 3.12.1.4 in respect of Building Fabric Thermal Insulation;

The Code Mark Certificate is attached in the Appendix of this Design and Installation Manual or visit www.oneaac.com.au to download a copy.

Standard Compliance

All works shall be carried out in accordance with the Building Code of Australia (BCA) and where necessary nominated reference standards.

AS 1720 Timber Framing Code and AS 1684-2006 National Timber Framing Code

AS 2870-1996 Residential Slabs and Footing Construction and AS 3600-2001 Concrete Structures

AS 3959-2009 Construction of Buildings in Bushfire-Prone Zone Areas

AS 2904-1995 Damp-proof course and flashings

AS 1170 Part 1 Loading Code and AS 1170 Part 2 Wind Code

AS 3660.1-2001 Protection of Buildings against subterranean Termite - Part 1 New Buildings

AS 4055-2006 Wind Loading for Housing

AS 3623 and AS/NZ 4600 - Steel Framing and NASH Standard 2005, Part 1 - Steel Framing

Where standards have been revised, the most current version shall apply

For a copy of the relevant compliance documents visit our website: www.oneaac.com.au

Material Properties

	50MM	PANELS	75MM	PANELS
Property	Value	Units	Value	Units
Ambient 1 Density, $ ho_{amb}$	520	kg/m³	520	kg/m³
Dry 2 Density, $ ho_{ m dry}$	500	kg/m³	500	kg/m³
Working 3 Density, $ ho_{ m design}$	610	kg/m³	622	kg/m³
Permanent Action, G	0.3	kN/m²	0.5	kN/m²
Characteristic Unconfined Compressive Strength, $f_{ m uc}$	1.1	MPa	1.1	MPa
Modulus of Rupture, $f_{\rm ut}$	0.73	MPa	0.73	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

Notes:

- 1. Ambient density is that achieved by the product when it has reached equilibrium at 23°C, 50% RH. The moisture content by mass in this state is typically between 2% and 5%.
- 2. Dry density is the manufacturer's reported density, the typical frame of reference for grading AAC material. It is achieved by oven drying specimens so that the moisture content is 0%.
- 3. Working density is to be used for calculation of effects due to permanent actions.
- 4. Moment capacity quoted is for 600mm wide panels.

Quality from start to finish

ONE AAC and associated manufacturers both adhere to the ISO 9001 international standards for management of quality. With these measures in place plus strict system protocol ONE AAC offers a warranty of 15 years on materials adding peace of mind to your project.

Fire Resistance

AAC materials have exceptional fire resistance and are non-combustible. In the event of fire ONE AAC Panels will not emit any toxic gases or vapours. The ONE AAC Panel System meets the performance requirements of P2.3.1 of the BCA for use as a Dual Boundary Wall, providing a minimum FRL of 60/60/60 – (all data is supported via CSIRO Reports and Assessments as well as independent Fire Engineers Reports).







Photo courtesy of www.budwell.com

Acoustic Performance

The ONE AAC Dual Boundary Wall System offers good acoustic performance. The acoustic performances, meets and exceeds the minimum BCA acoustic requirements. To further increase the acoustic performance, the use of sound insulation and sound rated plasterboard is recommended.

- The Bare 50mm ONE AAC Panel has an Rw = 33
- The ONE AAC PANEL Dual Boundary Wall System easily achieves the minimum $Rw+C_{tr}=50$ (site tested results of $D_{nTw}+C_{tr}=53$ which is equivalent to $Rw+C_{tr}=58$)
- The system complies with the requirements for Discontinuous Construction

Design Principles for the ONE AAC Panel System

The design principles which the ONE AAC Panel System are based on, are those used in both residential framed construction as well as residential concrete frame with light weight frame infill construction.

Low Rise – Multi-Residential Construction

ONE AAC Panels can be used for Low Rise Multi-Residential construction when fixed in accordance with the ONE AAC Panel Systems

Framing Design for the ONE AAC PANEL System

The support structure shall be designed by the frame manufacturer or the relevant design engineer, and should be designed in accordance with the specific codes for timber or steel frame construction types.

Benefits

- Systems comply with the minimum requirements of the BCA for Fire and Acoustics for Discontinuous Construction
- Simple and easy to install, which can be installed by existing trades for continuity of work.
- Does not require the use of fire rated plasterboard to achieve the fire rating.
- Weather resistant during construction, the AAC panels will not bend, soften, grow mold or deteriorate in wet weather
- Fast and achieves significant cost savings over traditional masonry systems



ONE AAC Panel System Components

ONE AAC PANELS

The ONE AAC Panels are steel reinforced and are manufactured from autoclaved aerated concrete with a dry density of 520kg/m³-560kg/m³. The 50mm thick ONE AAC Panels are supplied in standard lengths of 2200mm, 2400mm, and 2550mm and a standard width of 600mm, and have an average mass of approx. 31kg/m² for the 50mm thick panels, i.e. 40kg/2200mm panel.

ONE AAC PANEL Adhesive

The ONE AAC Panel Adhesive is a polymer modified cement-based adhesive supplied in 20kg bags. It is supplied by ONE AAC, mixed on-site with clean water (see instructions printed on the ONE AAC Panel Adhesive bag), and is applied to all edges of the panels (except control joint). ONE AAC Panel Adhesive is also used for bonding Decorative Trims and banding, along with minor patching, repairs and stopping of screw heads on the ONE AAC panels.

Direct Fixed – AAC Layer 1 - Specific Components

Face Fixed Connections Through AAC Layer 1 Into Frame 1

Layer 1 is constructed in a stretcher bond panel layout which is direct fixed to frame 1.

Face Fixed Fasteners

- 14-10 x 75mm Bugle Head Type 17 screws are used to fix the panels of layer 1 directly to the frame of layer 1 for timber frames.
- 14-10 x 75mm Bugle Head Drill Point screws are used to fix the panels of layer 1 directly to the frame of layer 1 for metal frames.
- Two fixings per 600mm panel width (panels laid horizontally) are required into vertical stud intersections at a maximum 900mm spacings.

Rear Fixed – AAC Layer 2 - Options & Specific Components

Rear Fixed Connections Through Frame 2 Into AAC Layer 2

Layer 2 is constructed using a stack bond panel layout which is assembled within the same C-Section and H-Section Joiner Stud system as the ONE AAC PANEL Party Wall System. Layer 2 is temporarily connected to the top of Layer 1 / Frame 1 until Frame 2 is constructed. Once Frame 2 is completed, the temporary supports are removed, and then Layer 2 is rear fixed to Frame 2. Fixings are required at 1500mm nominal vertical spacings and 1100mm nominal horizontal spacings. Fixings are not required in the ground floor bottom plate.

C-Section Channel

The 51mm x 27mm x 0.5 BMT C-Section vertical end channels, (typically located at the first and last stud of Layer 2), should be fixed to the frame at a maximum of 1500mm centres, (typically at the base, nogging height and top plate height)

H-Section Joiner Stud

The 51mm x 0.5 BMT H-Section Joiner Stud, (typically at a maximum of 2200mm centres of Layer 2), should be fixed to the frame at a maximum of 1500mm centres, i.e. to each intersecting nogging, bottom plate (except for the ground floor), top plate, and rafter of Layer 2 Frame.



Rear Fixed Fasteners For Timber Frames

• 14-10 x 125mm Bugle Head Type 17 screws are used to rear fix through Frame 2 into the C-Section Channel, H-Section Joiner Studs and panels of layer 2.

Rear Fixed Fasteners For Metal Frames

- 10-16 x 16mm Hex Head Self Drilling Screws are used to rear fix through Frame 2 into the C-Section Channel and the H-Section Joiner Studs of layer 2. Two screws per fixing connection are required.
- 14-10 x 45mm Hex Head Type 17 screws are used to rear fix through Frame 2 into the panels of layer 2, they can also be used to rear fix through Frame 2 into the C-Section Channel and H-Section Joiner Studs of layer 2. One screws per fixing connection are required. As fixings into the AAC are prone to being over tightened and stripping, it is good practice to drive each fixing in opposites directions (a slight direction away from each other)





Fire Rated Sealant

An approved fire rated sealant such as SWIRL Engineering, Fullers FIRESOUND Fire Rated Acoustic Sealant or Bostik FIREBAN ONE Low Modulus Fire Rated Polyurethane Sealant or equivalent must be used in control joints in all fire rated wall applications such as boundary walls.

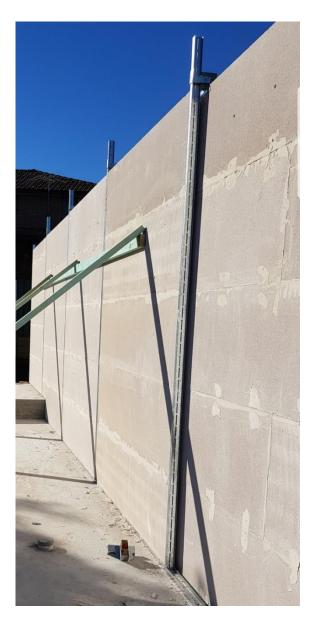


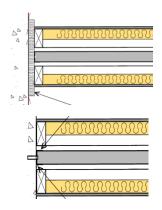
System Installation Process

 Direct fix panel to Frame 1 for Layer 1 in a stretcher bond pattern



- ONE AAC PANEL Adhesive is required to both the horizontal and vertical panel joints for the direct fix stretcher bond system for Layer 1, but is only required to the horizontal joints for the stack bond system used for panels installed on Layer 2 (the adhesive is not required at the H-Section Joiner Stud)
- Fix panels for Layer 2 in a stack bond pattern using the ONE AAC PANEL Party Wall system components.
- Temporary bracing of Layer 2 and / or temporary connections to Layer 1 / Frame 1 are required to support Layer 2 panels until Frame 2 is installed.
- Panels for Layer 2 are rear fixed to Frame 2 once Frame 2 is installed.
 - Vertical C-Section End Channel
 - H-Stud
- Rear Fix Frame 2 into Layer 2 panels at 1500mm vertical spacings (typically through bottom plate, noggins, top plates and rafters) and 1100mm horizontal spacings (typically into metal components spaced at 2200mm centers and into the panel at the metal component midspans)
- Cavity Type Intersections are to be packed tightly with Fire Resistant
 Mineral Wool, all intersections with external walls will also require
 damp proof course between the external wall and the mineral wool
 to prevent moisture wetting the mineral wool to prevent it from
 becoming displaced.
- **Non-Cavity Type Intersections** are to be sealed with a bead of Fire Rated Sealant beneath and to at least one vertical side of the metal C-Section Channel which is fixed to the intersecting T-Junction. Ensure panels are completely inserted into the C-Section Channels.





- **Eaves Detail and Temporary Bracing:** Layer 2 Panels can be canter-levered across to close the eaves void. Layer 2 panel walls should not be left unbraced as they may be prone to being blown over if left unbraced.
- **SPECIAL NOTE:** In the event that Layer 1 dwelling is ever knocked down, and Layer 2 wall is exposed to the elements of the environment, the following needs to be considered and implemented either at the time of installation or addressed at the time Layer 1 is removed:



- o The panels on Layer 2 wall can be rear fixed with additional fasteners to comply with the wind loads for an external wall at the time of installation, alternatively be face fixed to Frame 2 to comply with the wind zone for the area when or if Layer 1 wall is ever removed.
- o The exposed metal components are to be painted to satisfy the corrosion protection requirements for the area either at installation or when or if Layer 1 wall is ever removed.

Basic Tools Required When Working With AAC

The basic tools required when working with AAC are typically used by the carpentry and rendering trades and are readily available and relatively inexpensive when it comes to the complete set up for working with AAC.

Some of the tools required to make the job easy are identified below:

- Personal Protective Equipment
 - o High Visibility Work Wear, Steel Cap Boots
 - o Gloves, Dust Mask, Goggles, Hearing Protection
- Standard Contractor Tools
 - o Hammer, Nail Bag, Tape, Pencil, Level
 - o Tin Snips, Chisels, Knife
 - Electric Leads and Power Box
- Power Saw
 - Preferably Dustless
 - o Fitted with a Diamond Blade
- Power drill / Mixing Drill / Mixing Buckets
- ♦ Cordless Drills and Drive Bits
- Grinder / Reciprocator Saw
- Adhesive Trowel
- Hawk and Steel Trowel
- Nail or Staple Gun
- Sanding Float / Rasp







Delivery Storage & Handling

Delivery

One AAC Panels are packed and delivered to site (15 in a pack for 50mm Panel and 10 in a pack for 75mm Panel) and shall be unloaded or moved with approved lifting devices. For transport and lifting purposes the wet mass of the panels should be used. Packs can weigh between 500kg and 1000kg depending on thickness and length. To minimise double handling and save time the packs should be unloaded as close as possible to the installation area. ONE AAC Panel packs should only be stacked one pack high (on site) and properly supported on level ground. Always consult the project engineer as to the adequacy of the structure to support the packs if they are to be placed on any part of the structure.

Storage

All ONE AAC material should be kept dry and preferably under cover, all care should be taken to avoid damage to the face, ends and edges of the panels. When ONE AAC Panels are stored outside they must be off the ground and protected from the weather.

Manual Handling

Physical manual handling of ONE AAC Panels around the work site should be kept to a minimum, always carry the panels on edge, and support the weight by a two man lift procedure. Where the manual handling becomes excessive with respect to distance from the installation area, ONE AAC recommends the use of trolleys and/or other mechanical devices.

Occupational Health & Safety (OH&S)

ONE AAC Panels, along with all clay, concrete and quarry products contain Crystal line Silica, or Silica Dust. Prolonged exposure to Silica dust without the correct Personal Protection Equipment can be harmful and potentially cause life threatening health hazards such as bronchitis, silicosis and lung cancer.

The ONE AAC Panel itself does not cause health problems, however when cutting, drilling, chasing, sanding, etc., the exposure to high volumes of dust is increased, which increases the potential for health problems to occur, unless standard precautionary measures are taken. Repeatedly breathing in high volumes of dust over many years, may lead to health problems.

It is most unlikely to breath in high volumes of fine silica dust when stacking, loading or laying panels, however when cutting, drilling, chasing, sanding, etc., it is imperative that safety masks, hearing and eye protection is worn. Ensure the mask fits properly and is approved for use with dust. Protective clothing should also be worn e.g. high visibility long sleeve shirt and long pants. These should be washed often and not in the same wash as other clothes.

The site should be cleaned of dust every day, and when using power tools these should be tagged for use as required and be fitted with efficient and well maintained dust extraction devices. The ONE AAC Panel Installer on site has a responsibility to inform all employees of these Health and Safety requirements under the Occupational Health and Safety Act.

Personal Protective Equipment (PPE)

When working with AAC, ONE AAC recommends (as a minimum) that the following PPE is worn:

- ♦ P1 or P2 Dust masks complying with AS/NZS1715 and AS/NZS1716
- ♦ Glasses / Goggles complying with AS1336
- ♦ Ear Plugs / Ear Muffs Class 5
- ♦ Gloves, long sleeve shirt and pants to prevent possible skin irritation and skin cancer from working outdoors
- ♦ Steel Cap Boots

Cutting

ONE AAC Panels can be easily cut, drilled, or chased using power or hand tools. When working with ONE AAC Panels ensure that the PPE as previously described is worn. As an added measure of containing the dust when working with AAC products, ONE AAC recommends the use of dust extraction equipment.

To make cutting of the ONE AAC Panel easier, rotate panels so they are stacked flat, i.e. panel on panel, then simply adjust the depth of the saw blade to the thickness of the panel, and cut the required panels before removing it from the stack. Any exposed reinforcement during cutting must be coated with the ONE AAC Panel Corrosion Protection Touch Up Paint. For a copy of the full range of ONE AAC Panel MSDS sheets, visit the website; www.oneaac.com.au

Hazardous Materials

With reference to the BCA, regarding Hazardous Building Materials, AAC Panels are non-hazardous, provided that all safety precautions included in this literature are adhered to.

Warranty & Guarantee

ONE AAC Panels are quality building products, and come with the following Warranty and Guarantee:

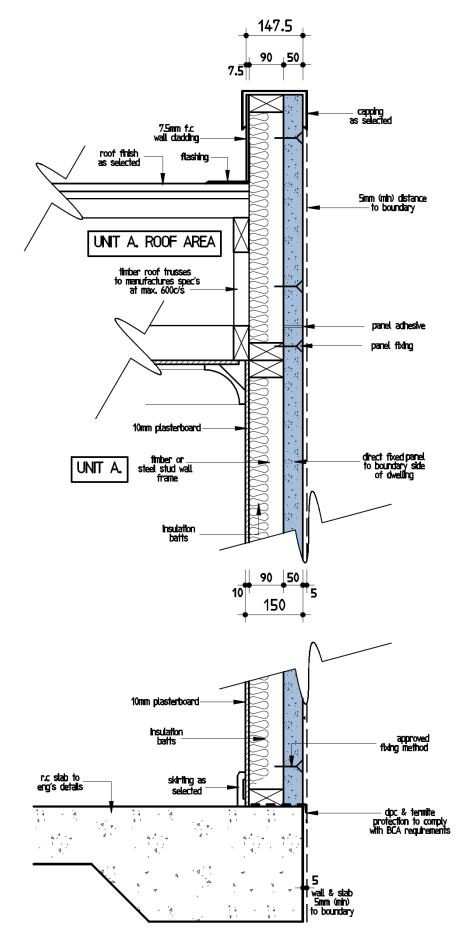
Warranty

ONE AAC Panels and associated materials, when installed as a Dual Boundary wall systems, are warranted for a minimum of **15 years** (from the date of purchase), not only meeting, but exceeding the **7 year** requirement outlined in the BCA and the relevant Australian Standards. The ONE AAC Panel products are designed to have a life span significantly in excess of this minimum period.

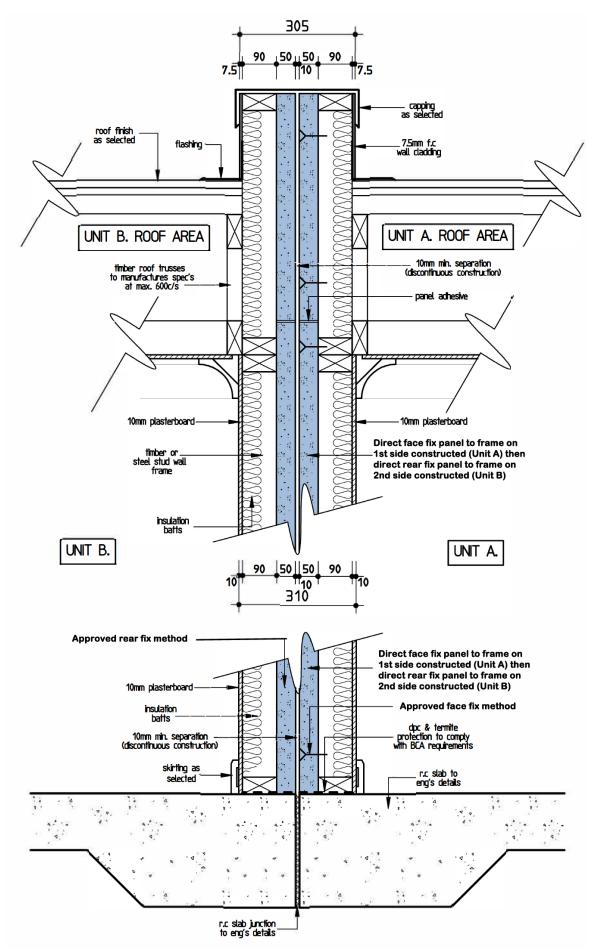
Guaranteed

ONE AAC Panel Autoclaved Aerated Concrete products are guaranteed to be free of defect in material and manufacture.

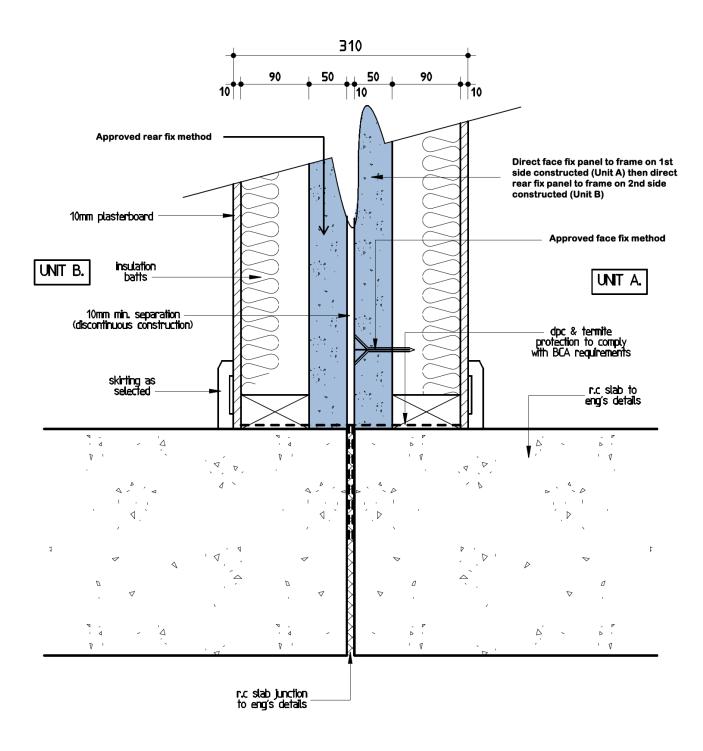
For further details or information on the engineering, design and construction with the ONE AAC Panel System, please contact our sales or technical professionals on 1300 010 222 or visit our website: www.oneaac.com.au to obtain the latest Design & Installation Manuals.



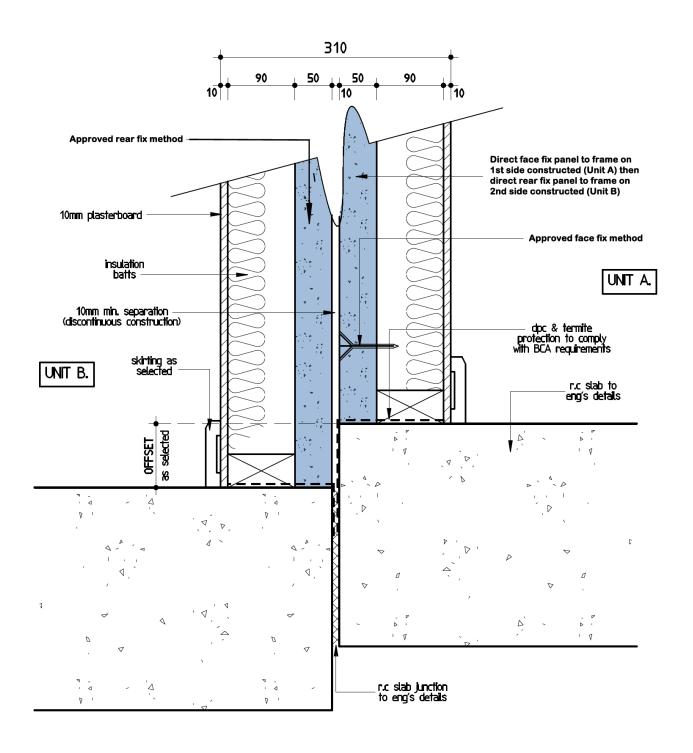
50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL SINGLE WALL ASSEMBLY: MINIMUM FRL 60/60/60 & (DnTw,+ Ctr= 53) or Rw+ Ctr= 58



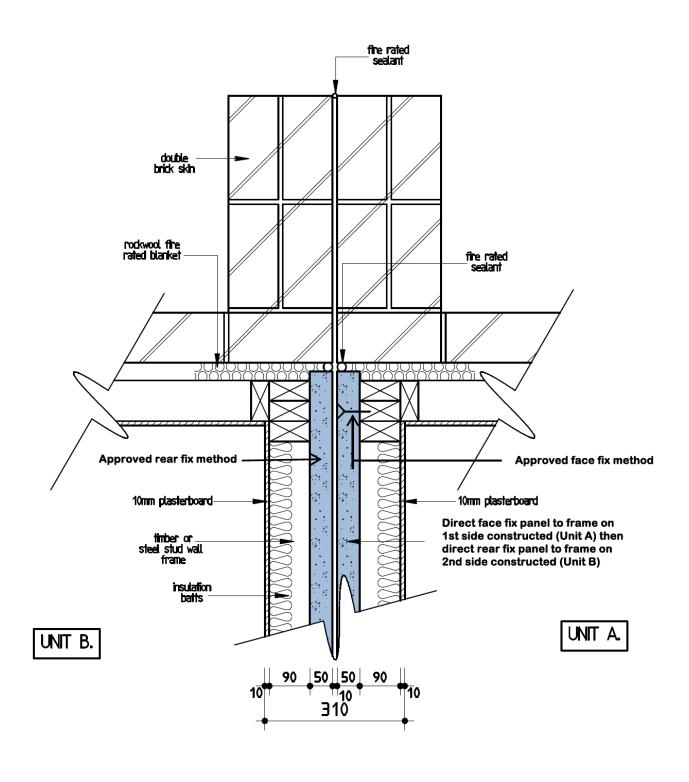
50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL DUAL WALL ASSEMBLY: MINIMUM FRL 60/60/60 & (DnTw,+ Ctr= 53) or Rw+ Ctr= 58



50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL BASE DETAIL: MINIMUM FRL 60/60/60 & (DnTw,+ Ctr= 53) or Rw+ Ctr= 58



50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL BASE DETAIL WITH STEP DOWN: MINIMUM FRL 60/60/60 & (DnTw,+ Ctr= 53) or Rw+ Ctr= 58



50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL DUAL WALL JUNCTION - BRICK VENEER TO DOUBLE BRICK NIB WALL MINIMUM FRL 60/60/60 & (DnTw,+ Ctr= 53) or Rw+ Ctr= 58



Certificate of Conformity

Certification Body:



Global-Mark Pty Ltd,

Type and/or use of product:

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

Certificate Holder:

485 Campbelltown Rd Denham Court NSW

Description of product:

ONE AAC PANEL THIS TO CERTIFY THAT

Reinforced Autoclaved Aerated Concrete (AAC) Panels in the following sizes:

Certificate number: CM30031 Rev 3

- 50mm thickness (2,200mm, 2,400mm & 2,550mm length x 600mm width), and

steel framed walls.

Fire, thermal & acoustic rated cladding for load-bearing, single leaf external timber or

ONE AAC PANELS are reinforced AAC (Autoclaved Aerated Concrete) Panels for use in all

building types (BCA Vol 1 & 2), in the following applications:

Fire, thermal & acoustic rated cladding for load-bearing, dual zero boundary external timber or steel framed walls.

Thermal & acoustic rated flooring panels for timber or steel framed floor structures. separate occupancies in residential apartments.

Fire barrier with thermal & acoustic rating between timber or steel framing of

75mm thickness (1,800mm, 2,200mm, 2,400mm, 2,700mm, 2,850mm, 3,000mm & 3,300mm lengths x 600mm width)

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

BCA 2022

	Volume One		Volume Two and Ho	Volume Two and Housing Provisions (HP)
Performance Requirement(s)	B1P1	Structural reliability	H1P1	Structural stability and resistance to actions
	B1P2	Structural resistance		
Deemed-to-Satisfy Provision(s):	B1D4 (b)(ii)	Determination of structural resistance of materials and forms of construction	H1D7 (4)(a)	Wall cladding

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 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 with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

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 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 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 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 sertified herein. In issuing this Certificate of Approval Global-Mark has relied on the expertise of external bodies (laboratories, and technical experts)

en Ilda

Herve Michoux

Slobal-Mark Managing Director

Peter Gardner

Unrestricted Building Certifier

Date of expiry: 17/05/2025

Date of issue: 01/05/2023

Page 1 of 10

Certificate number: CM30031

This certificate is only valid when reproduced in its entirety.

Certificate of Conformity

•	\RK'
	CODEMA

C2D2				
		Fire resistance and stability – Type of construction required	H3D3	Fire Separation of external walls
Specification 1	ation 1	Fire-resistance of building elements	Specification 1	Fire-resistance of building elements
Specification 5	ation 5	Fire resisting construction	HP 9.2.3	Construction of external walls
			HP 9.3.1	Fire Protection of separating walls
			HP 9.3.4	Fire Protection – Horizontal projections
	5.1		HP 9.4.1	Fire Protection of garage top dwellings - Walls
F1D6		Damp-proofing		
F3D5 (1)(b)	(p)	Weatherproofing – Wall cladding	H2D6 (4)	Weatherproofing – Roof and wall cladding
F7D3		Determination of airborne sound insulation ratings	HP 10.7.2	Determination of airborne sound insulation ratings
F7D4		Determination of impact sound insulation ratings		
F7DS		Sound insulation rating of floors		
F7D6		Sound insulation rating of walls	HP 10.7.1	Sound insulation requirements
			HP 10.7.3	Construction of sound insulated walls
65D3		Construction in bushfire prone areas – Protection of residential buildings	H7D4 (2)(a)	Construction in bushfire prone areas
G5D4		Construction in bushfire prone areas – Protection of certain Class 9 buildings		
J4D6		Building fabric – Walls and glazing	HP 13.2.5	Building fabric – External walls
State or territory variation(s): NT B1D4 (b)(ii)	4 (b)(ii)	Structural resistance	WA H1D7 (4)(a)	Wall cladding
QLD B1D4 (b)(ii)	D4 (b)(ii)	Structural resistance		
WA B1D4 (b)(ii)	04 (b)(ii)	Structural resistance	HP NSW 9.4.1	Fire Protection of garage top dwellings – Walls
SA F1D6(2)	2(2)	Damp-proofing	HP NSW 9.4.3	Fire Protection of garage top dwellings – Separating floors
NT Part F7	F7	Sound transmission & insulation	HP NT 10.7	Sound insulation
NSW G5D3	5D3	Construction in bushfire prone areas – Protection of residential buildings	NSW H7D4 (2)(a)	Construction in bushfire prone areas
NSW G5D4	5D4	Construction in bushfire prone areas – Protection of certain Class 9 buildings		

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	VIC GSD4	of certain Class 9 buildings			
	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 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	Alterations and 2022 NSW Part
	NT Part J4	Building Fabric	NT Part H6	Energy efficiency	
			HP NT 13.2.5	Energy efficiency - building fabric – External walls	- External walls
	TAS Section J	Energy Efficiency — Class 2 and Class 4 part of a building — NCC 2019 (A1) Section J	TAS Part H6	Energy efficiency – NCC 2019 (A1) 2.6	2.6
			HP TAS 13.2	Energy Efficiency – NCC 2019 3.12	
SUBJECT TO THE FOLLON	WING LIMITATIONS A	SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B	IN APPENDIX A AND	EVALUATION STATEMENTS IN APP	ENDIX B
Limitations and conditions:				Building classification/s:	n/s:
Volume 1 – B1P1	∞	Volume 2 – H1P1		1, 2, 3, 4, 5, 6, 7, 8, 9 & 10	& 10
The wall systems as described hav (refer Appendix B2). Wind load lin detail sections of the relevant ON!	ve maximum design w mits, construction det IE AAC Design & Install	The wall systems as described have maximum design wind load limits documented within the relevant ONE AAC Design & Installation Manuals (refer Appendix B2). Wind load limits, construction details and fixing methods must follow the relevant details contained within the engineering detail sections of the relevant ONE AAC Design & Installation Manuals, refer Appendix B2.	Contained within the	Manuals ingineering	
Volume 1 – B1P1 (2)(e), (f) & (i) & Snow liquid procesure and earth procesure artipus are excluded	& Serions are ex	Volume 2 – H1P1 (2)(e), (f) & (i)		1, 2, 3, 4, 5, 6, 7, 8, 9 & 10	& 10
Volume 1 – B1P4	ø	Volume 2 – H1P2		1, 2, 3, 4, 5, 6, 7, 8, 9 & 10	& 10
Compliance for flood hazard areas is excluded.	s is excluded.				
Volume 1 – C2D10				2,3,4,5,6,7,8&9	
Non-combustibility relates to AAC material only.	C material only.				
This certification is based upon th Installation Manuals, refer Appenperformance specifications of con	ne system being installidix B2. Substitution on ponents &/or access	This certification is based upon the system being installed using components & accessories as specified in the relevant ONE AAC Design & Installation Manuals, refer Appendix B2. Substitution of wall system components &/or accessories may be permitted, however the general performance specifications of components &/or accessories must be maintained for this certificate to remain valid.	elevant ONE AAC Desi nitted, however the g alid.	yn & eneral	
Volume 1 – C2D10 (1)(a)				2,3,4,5,6,7,8&9	

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Volume 1 – C2D10 (6)	2, 3, 4, 5, 6, 7, 8 & 9
In external wall applications, flexible sarking membrane (wall wrap) materials shall be installed in accordance with the relevant ONE AAC Design & Installation Manuals, refer Appendix B2.	
Volume 1 – Specification 1 & Volume 2 – Specification 1 &	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Housing Provisions – 9.2.3, 9.3.1, 9.3.4, 9.4.1, NSW 9.4.1 & NSW 9.4.3	
Refer to relevant construction options, details & conditions, included in the relevant ONE AAC Design & Installation Manuals, refer Appendix B2.	
 External wall FRLs of up to 120/120/90 or 120/120/120 are achievable (refer construction options). Intertenancy wall FRLs of 60/60/60, 90/90/90 or 120/120/120 are achievable (refer construction options). Dual Zero Boundary wall FRLs of 60/60/60 apply. 	
Volume 1 – Specification 1 & Volume 2 – Specification 1	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Compliance for Fire resistance of the ONE AAC flooring system is excluded from this certificate.	
Volume 1 – G5D3 In designated Bushfire prone areas, when the building is constructed in accordance with AS3959:2018 including Amendment 1 & 2, ONE AAC Panels are permitted for use as external wall cladding in buildings subject to Bushfire Attack Level in all zones up to and including BAL-FZ.	Class 2, 3 and Class 10a building or decks immediately adjacent or connected to Class 2 or 3 building
Volume 2 – H7D4	Class 1 & 10a building or deck
In designated Bushfire prone areas, when the building is constructed in accordance with AS3959:2018 including Amendments 1 & 2, or NASH Standard — Steel Framed Construction in Bushfire Areas, ONE AAC Panels are permitted for use in buildings subject to Bushfire Attack Level up to & including BAL–FZ.	associated with a Class 1 building
Volume 1 – G5D4	Class 9a, 9b, 9c and Class 10a
In designated bushfire prone areas when the building is constructed in accordance with Specification 43, ONE AAC Panels are permitted for use only in buildings subject to Bushfire Attack Level not exceeding BAL-12.5.	buildings or decks immediately adjacent or connected to Class 9a, 9b
Construction in BAL–19, BAL–29, BAL–40 and BAL–FZ fall outside the scope of application of the clause.	or 9c buildings
Volume 1 – J4D6 & NSW J4D6 & NT 13.2.5 & NT 13.2.5	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
The wall system contributes towards the Total wall system U or R value, which is to be determined in accordance with Volume 1–14D6 & Housing Provisions – 13.2.5.	
Insulation shall be included within the wall system, as outlined in the relevant Design & Installation Manual & according to project specifications.	
Volume 1 – NSW G5D3	2, 3, Class 4 part of a building & 10a
In designated bushfire prone areas, subject to Bushfire Attack Level BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in accordance with the	building or deck immediately

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Certificate of Conformity

The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019, including addendum Neworber 2022. Site specific conditions arising from: the development consent tollowing consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning addendum New Rassessment Act 1997 frequency. The development consent value bushfire salety authority issued under section 1008 of the Rural Fires Act 1997 for the purposes of integrated development consent value bushfire assessment. The Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with: As3999, 2018 including Amenidement 1.8.2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with: As3999, 2018 including Amenidement 1.8.2 except as a modified by Planning for Bush Fire Protection 2019 including addendum November 2022. NoVember 2022. ONE AAC Bands are permitted for use. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including addendum November 2022. ONE AAC Bands are permitted for use. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the 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 the Planning for Bush Fire Protection 2019 including addendum November 2022. The compliance assessment and the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including addendum November 2022. The compliance assessment Act 1979 if required. or the development consent to fill goving consultation with the NSW Subshifire prone areas subject to Bushfire Attack BAL—72. Construction in NSW's bushfire prone areas subject to Bushfire Attack Leve	including Amendments 1 & 2, except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, ONE AAC. Panels are permitted for use.	IE AAC adjacent or connected to building class 2, 3 or Class 4 part of a building
tation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning rafety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of ment. addendum November 2022 requires a performance-based application in bushfire prone construction in NSW's 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 construction in NSW's bushfire prone areas subject to Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with: 2 except as modified by Planning for Bush Fire Protection 2019 including addendum on in Bushfire Area Except as amended by the Planning for Bush Fire Protection 2019 including similated to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including tation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of ment. addendum November 2022 requires a performance-based application in bushfire prone construction in NSW's bushfire prone areas subject to Bushfire Attack BAL-40 & BAL-FZ ire Attack Levels not exceeding BAL-12.5, determined in accordance with the Planning for ember 2022, ONE AAC Panels are permitted for use when the building is constructed in	tified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019, including	ncluding
tration with the NSW Rural Fire Service under section 4.14 of the Environmental Planning safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of ment. The strack Levels BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in accordance with the lendum November 2022, when the building is constructed in accordance with: 2 except as modified by Planning for Bush Fire Protection 2019 including addendum on in Bushfire Area Except as amended by the Planning for Bush Fire Protection 2019 including safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of ment. The Attack Levels not exceeding BAL-12.5, determined in accordance with the Planning for Bush Fires Act 1997 for the purposes of ment. The Attack Levels not exceeding BAL-12.5, determined in accordance with the Planning for ember 2022, ONE AAC Panels are permitted for use when the building is constructed in smber 2022, ONE AAC Panels are permitted for use when the building is constructed in		
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re Attack Levels BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in bushfire prone Construction in NSW's 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-72. EATTACK Levels BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in accordance with the lendum November 2022, when the building is constructed in accordance with: 2 except as modified by Planning for Bush Fire Protection 2019 including addendum on in Bushfire Area Except as amended by the Planning for Bush Fire protection 2019 including safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of ment. 3 addendum November 2022 requires a performance-based application in bushfire prone construction in NSW's bushfire prone areas subject to Bushfire Attack BAL-40 & BAL-FZ ire Attack Levels not exceeding BAL-12.5, determined in accordance with the Planning for ember 2022, ONE AAC Panels are permitted for use when the building is constructed in	pliance assessment.	
ne areas subject to Bushfire Attack Levels BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in accordance with the ection 2019 including addendum November 2022, when the building is constructed in accordance with: Steel Framed construction in Bushfire Area Except as amended by the Planning for Bush Fire protection 2019 including addendum or tred for use. It of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including ing from: Consent following consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning for tonsent with a bushfire safety authority issued under section 1008 of the Rural Fires Act 1997 for the purposes of opment for the compilance assessment. Protection 2019 including addendum November 2022 requires a performance-based application in bushfire prone track BAL-40 & BAL-FZ in this assessment.		e prone nd BAL-FZ
		Class 1 & 10a building or deck
	oject to Bushfire Attack Levels BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in accordance with tl i including addendum November 2022, when the building is constructed in accordance with:	ice with the associated with a Class 1 building
	ndments 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum	wn
	ed Construction in Bushfire Area Except as amended by the Planning for Bush Fire protection 2019 ber 2022,	019
no 45 di Q	tified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including	ıcluding
g)	llowing consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning required, or ith a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of	lanning poses of
u 0	pliance assessment.	
re Attack Levels not exceeding BAL–12.5, determined in accordance with the Planning for mber 2022, ONE AAC Panels are permitted for use when the building is constructed in	2019 including addendum November 2022 requires a performanca-based application in bushfire prone 10 & BAL–FZ. Construction in NSW's bushfire prone areas subject to Bushfire Attack BAL–40 & BAL–FZ ssment.	e prone BAL-FZ
re Attack Levels not exceeding BAL–12.5, determined in accordance with the Planning for mber 2022, ONE AAC Panels are permitted for use when the building is constructed in		Class 9 building that is a special fire
accordance with:	bject to Bushfire Attack Levels not exceeding BAL–12.5, determined in accordance with the Planning for idendum November 2022, ONE AAC Panels are permitted for use when the building is constructed in	nning for protection purpose; and a Class 10a ted in building or deck immediately

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 a) For class 9 buildings, Specification 43 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, or b) For class 10a buildings or decks, AS3959: 2018 including Amendments 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2012 and 543.713 	adjacent or connected to such building
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 BAL-19, BAL-29, BAL-40 and BAL-FZ fall outside the scope of application of the clause.	
Volume 1 – VIC G5D4	Class 4 part of a building, Class 9a,
In designated bushfire prone areas when the building is constructed in accordance with Specification 43, ONE AAC Panels are permitted for use only in buildings subject to Bushfire Attack Level not exceeding BAL–12.5.	9b, 9c and Class 10a buildings or decks immediately adjacent or
Construction in BAL–19, BAL–29, BAL–40 and BAL–FZ fall outside the scope of application of the clause.	connected to Class 4 parts, Class 9a, 9b or 9c buildings
Volume 1 – NSW J4D6, NT Part J4, TAS Part J & Housing Provisions – NSW 13.2.5, NT 13.2.5, TAS 13.2	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
The wall system contributes towards the Total wall system U or R value, which is to be determined in accordance with Volume 1 – J4D6 & Housing Provisions – 13.2.5 or specific state variation.	
Insulation shall be included within the wall system, as outlined in the relevant Design & Installation Manual & according to project specifications.	
General	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
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.	

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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

Refer to items 1, 2, 3, 4 & 5 listed in Appendix B2:

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

A4 Manufacturer and manufacturing plant(s)

ONE AAC PANEL

485 Campbelltown Rd

Denham Court NSW 2565

www.oneaac.com.au Ph: 1300 010 222

A5 Installation requirements

Refer to items 1, 2, 3, 4 & 5 listed in Appendix B2:

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

A6 Other relevant technical data

Refer to items 1, 2, 3, 4 & 5 listed in Appendix B2:

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

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

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APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methodsThe 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	ltems 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 & 20
BCA Volume Two	H1P1	A2G2 (2) (a) & (c)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	ltems 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 & 20
BCA Volume One	B1P2	A2G2 (2) (a) & (c)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	ltems 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 & 20
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, 34, 35
BCA Volume Two	H1D7 (4)(a)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	ltems 1, 2, 3, 4, 5, 6, 7, 34, 35
BCA Volume One	C2D10	A2G3 (2) (a)	A5.2 (1) (d) – Test report	Items 26 & 33
BCA Volume One	C2D2	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
BCA Volume One	Specification 1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
BCA Volume One	Specification 5	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
BCA Volume Two	H3D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
BCA Volume Two	Specification 1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
Housing Provisions	9.2.3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
Housing Provisions	9.3.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
Housing Provisions	9.3.4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
Housing Provisions	9.4.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
BCA Volume One	F1D6	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 34, 35
BCA Volume One	F3D5 (1)(b)	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 34, 35
BCA Volume Two	H2D6 (4)	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 34, 35
BCA Volume One	F7D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
BCA Volume One	F7D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
BCA Volume One	F7D5	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
BCA Volume One	F7D6	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
Housing Provisions	10.7.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
Housing Provisions	10.7.2	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
Housing Provisions	10.7.3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	ltems 36, 37, 38, 39, 40, 41, 42 & 43
BCA Volume One	G5D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume One	G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume Two	H7D4(2)(a)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume One	J4D6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
Housing Provisions	13.2.5	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
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, 34, 35
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, 34, 35

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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, 34, 35
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, 34, 35
Housing Provisions	NSW 9.4.1	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
Housing Provisions	NSW 9.4.3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33
BCA Volume One	SA F1D6(2)	A2G3 (2) (a) & (b)	A5G3 (1) (e) & (f) – Expert judgement & Other documentary evidence	Items 1, 34, 35
BCA Volume One	NT F7	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
Housing Provisions	NT 10.7	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 36, 37, 38, 39, 40, 41, 42 & 43
BCA Volume One	NSW G5D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume Two	NSW H7D4(2)(a)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume One	NSW G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume One	VIC G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test report & Expert judgement	Items 21, 22, 23, 24, 26, 27, 29, 30, 32 & 33
BCA Volume One	NSW J4D6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
BCA Volume One	NSW Section J	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
BCA Volume One	NT Part J4	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
BCA Volume One	TAS Section J	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
BCA Volume Two	NSW Part H6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
Housing Provisions	NSW 13.2.5	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
BCA Volume Two	NT Part H6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
Housing Provisions	NT 13.2.5	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
BCA Volume Two	TAS Part H6	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44, 45, 46, 47, 48 & 49
Housing Provisions	TAS 13.2	A2G3 (2) (a) & (b)	A5G3 (1) (e) – Expert judgement	Items 44. 45. 46. 47. 48 & 49

B2 ReportsThe 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	March 2022	Client published design & installation manual		
2	ONE AAC PANEL	Flooring Design & Installation Manual	March 2022	Client published design & installation manual		
3	ONE AAC PANEL	Party Wall Design & Installation Manual	March 2022	Client published design & installation manual	T.	
4	ONE AAC PANEL	Dual Zero Boundary Wall Design & Installation Manual	March 2022	Client published design & installation manual	1	
5	ONE AAC PANEL	Dual Zero Boundary Wall Construction Details	March 2022	Client published drawings and details	3 1	
*9	Enertren	ONE-007 V.4	10 Feb 2022	Compliance review of ONE AAC systems against NCC	1	
7*	Enertren	ONE-013 V.3	10 Feb 2022	Compliance review of ONE AAC systems against NCC	1	
*8	ONE AAC PANEL	Batch Testing 50mm Panel	15 Mar 2018	Quality control structural test document	E.	
*6	Enertren	AS4055-2006 Connection Design	13 Apr 2009	Structural calculation report	100	
10*	Enertren	ONE-011 V.1	10 Feb 2022	Structural Design Certification	310	
11*	Enertren	ONE-012 V.3	10 Feb 2022	Structural Design Certification	31	
12*	BEMAC Laboratories	10953	6 Mar 2017	Structural test report	1393	
13*	BEMAC Laboratories	10953	4 May 2017	Structural test report	1393	
14*	Pace Structural	PS 18109	27 Feb 2020	Structural Design Certification		

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Pace Structural	PS 18013	13 May 2020	Structural Design Certification	•
Pace Structural	PS 18022	13 May 2020	Structural Design Certification	,
Pace Structural	PS 20116	25 Aug 2020	Structural Design Certification	1
Pace Structural	PS 20123	28 Aug 2020	Structural Design Certification	1
Mahaffey Associates	BAS/13/L02/9830	30 Jul 2013	Durability assessment report	i i
The Coatings Consultancy	TCC18025-B-20200612	12 Jun 2020	Durability assessment report	1
	FSV 1525	15 Feb 2012	Fire test report	165
CSIRO	COT 2363	15 Feb 2012	Fire test certificate	165
	FCO 2915	30 Mar 2012	Fire assessment report	165
	FCO 2944	29 Aug 2012	Fire assessment report	165
	FCO 3023	20 Sep 2013	Fire assessment report	165
	FNC-11128	9 May 2014	Fire test report	165
CSIRO	FCO 3111	20 Apr 2014	Fire assessment report	165
WarringtonFire	FAS190191 RIR1.1	25 May 2020	Regulatory information report – Fire	3277
EXOVA WarringtonFire	24917-02	11 Mar 2013	Fire assessment report	3277
WarringtonFire	FAS200114 R1.0	24 Apr 2020	Fire assessment report	3277
CSIRO	FCO-3255 Rev D	17 Oct 2017	Fire assessment report	165
CSIRO	FCO-2532 Rev F	12 Aug 2021	Fire assessment report	165
CSIRO	FNC12427A	2 Sep 2019	Fire test certificate	165
Enertren	ONE-009 V.1	5 Sep 2019	Weatherproofing assessment report	1
AECOM	2021.04.08_FV1.1_HEB	8 Apr 2021	Weatherproofing assessment report	i i
Renzo Tonin & Assoc	TG553-01F02	6 Feb 2014	Acoustic assessment report	
Koikas Acoustics	2679C20150827	3 Jun 2015	Acoustic assessment report	1
Koikas Acoustics	2878C20151112	12 Nov 2015	Acoustic assessment report	
Koikas Acoustics	2878C20181031	9 Nov 2016	Acoustic assessment report	
AcousticLogic	201307861.1/0209A/R0/GW	2 Sep 2013	Acoustic assessment report	a
AcousticLogic	20140366.35/0202A/R6/GW	2 Feb 2018	Acoustic assessment report	,
AcousticLogic	20171728.13/0507A/R6/GW	1 May 2019	Acoustic assessment report	
AcousticLogic	20171728.18/1302A/R1/GW	13 Feb 2020	Acoustic assessment report	t
Enertren	75mm Panel R-Value	27 Nov 2015	Thermal assessment report	C
Enertren	ONE-AAC Cladding Wall 75mm R Values	9 Apr 2013	Thermal assessment report	
James M Fricker	i107e	1 Oct 2020	Thermal assessment report	
James M Fricker	107.23i – 107.29i	1 Sep 2020	Thermal assessment report (timber frame)	r.
James M Fricker	107.23i – 107.29i	1 Sep 2020	Thermal assessment report (steel frame)	E

* 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.

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Notes:

ONE AAC PANEL

Head Office:

485 Campbelltown Rd

Denham Court NSW 2565

Tel: **1300 010 222 (AAC) or 02 9756 5029**

Mobile: 0439 28 30 30

Email: <u>info@oneaac.com.au</u>

Web: <u>www.oneaac.com.au</u>