ONE AAC

PANEL

AAC FIRE & ACOUSTIC SOLUTIONS

50mm AAC PANEL DUAL BOUNDARY WALL SYSTEM

DESIGN & INSTALLATION MANUAL

MAY 2025 Edition

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.

Contents

Introduction

ONE AAC Panel is known as a market leader in AS5146 compliant Aerated Autoclaved Concrete (AAC) Panel Solutions for residential and commercial construction.

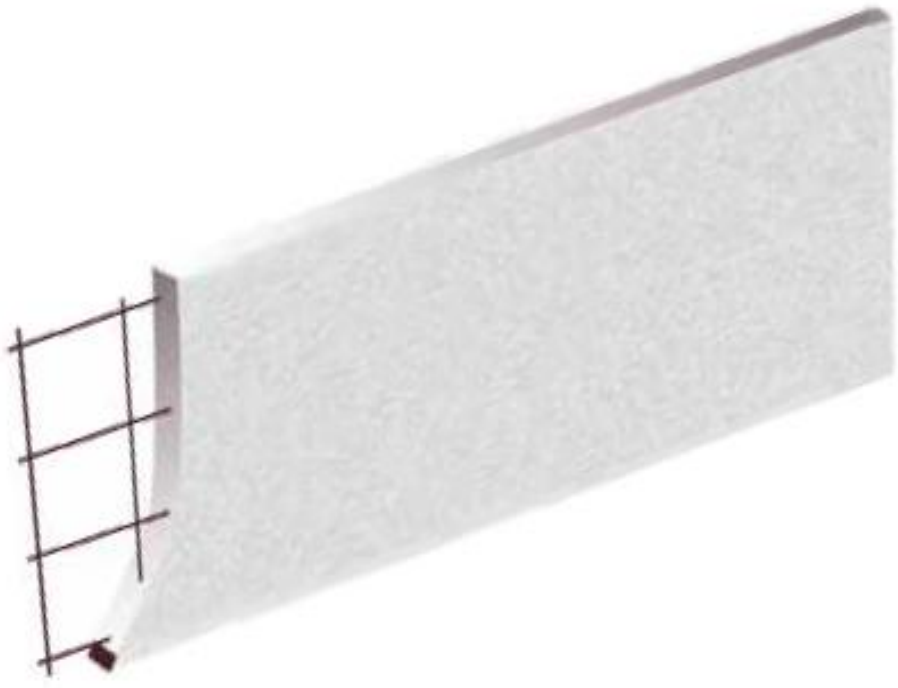
ONE AAC combines 30 years of construction experience, product and systems development knowledge and material distribution expertise, to ensure its customers receive the best construction solutions for their projects, at the best possible price, with the fastest possible turnaround.

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.



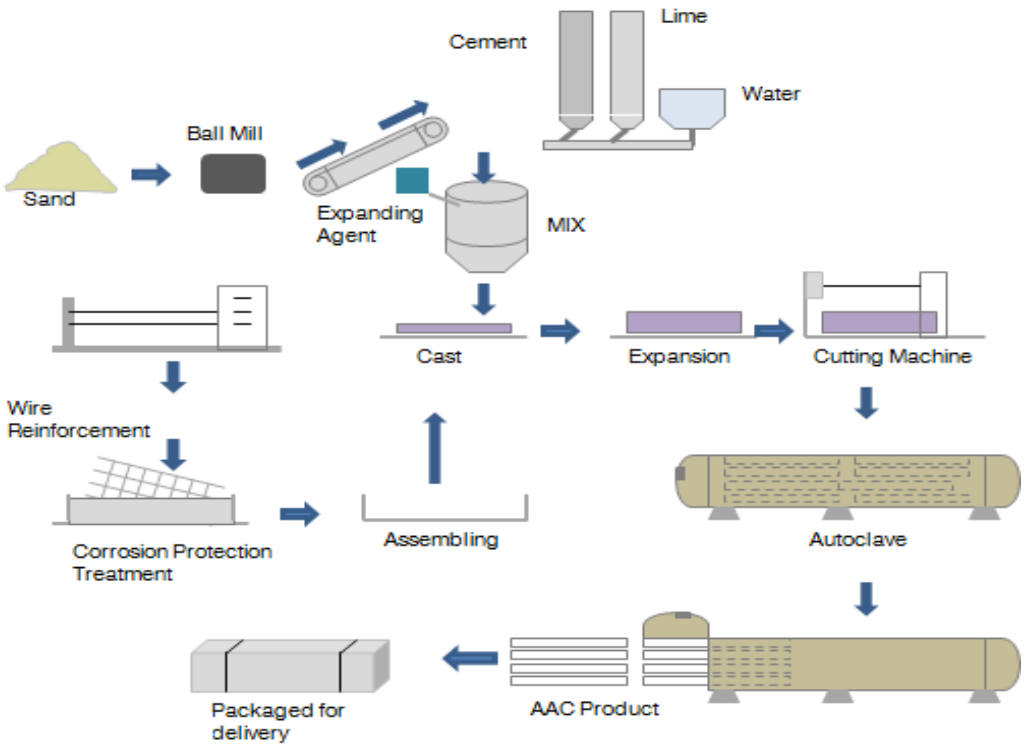
STEEL REINFORCED - 50MM AND 75MM ONE AAC PANEL

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 / NCC 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 4) 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:

CATEGORY	BCA VOLUME 1	BCA VOLUME 2	ABCB HOUSING PROVISIONS
Structural Reliability & Resistance	B1P1, B1P2, B1D4	H1P1, H1D7	N/A
Fire Safety	C2D2, C2D10 Specification 1 Specification 5	H3D3, H3D4, H3D5 Specification 1	9.2.3 9.3.1 & 9.3.4 9.4.1
Weatherproofing Damp Proofing	F1D6, F3D5	H2D6	N/A
Sound Insulation	F7D3, F7D4, F7D5, F7D6	H4D8	10.7.1, 10.7.2 & 10.7.3
Bushfire Construction	G5D3, G5D4	H7D4	N/A
Energy Efficiency – External Walls	J4D6	H6D2	13.2.5

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.

Australian Standard Compliance

All works shall be carried out in accordance with the BCA and where necessary nominated reference standards.

AS 5146 (Parts 1, 2 & 3) - Reinforced Autoclaved Aerated Concrete

- Horizontally oriented ONE AAC panels -refer to tables 3.3G, 3.3H & 3.3I in AS5146.3
- Vertically oriented ONE AAC panels - refer to Tables 3.3A, 3.3B, 3.3C, 3.3D, 3.3E & 3.3F in AS5146.3.

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

Material Properties

ONE AAC Panel Properties (AS 5146.2)	50MM PANELS		75MM XL PANELS	
Property	Value	Units	Value	Units
Ambient[1] Density, $\rho_{amb\ (10\%\ Moisture\ Content)}$	561	kg/m^3	440	kg/m^3
Dry[2] Density, ρ_{dry}	510	kg/m^3	400	kg/m^3
Working[3] Density, $\rho_{design\ (35\%\ Moisture\ Content)}$	689	kg/m^3	540	kg/m^3
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, ϕM	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 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 10% and 15%.
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 Horizontal Panel Dual Boundary System

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.

Horizontal 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.

Horizontal Rear Fixed – AAC Layer 2 - Options & 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 2200mm 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 and the H-Section Joiner Studs of layer 2.

Rear Fixed Fasteners For Metal Frames

- **Option 1:** 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.

- **Option 2:** 14-10 x 45mm Hex Head Type 17 screws can also be used to rear fix through Frame 2 into the C-Section Channel and H-Section Joiner Studs of layer 2. In this case one screw per fixing connection is required.

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.

ONE AAC Vertical Panel Dual Boundary System

ONE AAC PANELS

- 50mm ONE AAC Panel supplied in standard lengths of 2200mm, 2400mm, 2550mm, 2700mm, 2850mm and 3000mm and a standard width of 600mm, and have an average mass of approx. **31kg/m2 for the 50mm thick panels, i.e. 67kg/3000mm panel.**

ONE AAC PANEL Adhesive

- The ONE AAC Panel Adhesive is a polymer modified cement-based adhesive supplied in 20kg bags.

FRAMING

- 70mm & 90mm Timber or Metal Frame

FIRE RATING

- FRL 90/90/90 from an outside fire source

INTERNAL LINING

- Minimum 10mm plasterboard or 6mm fibre cement

WALL HEIGHT

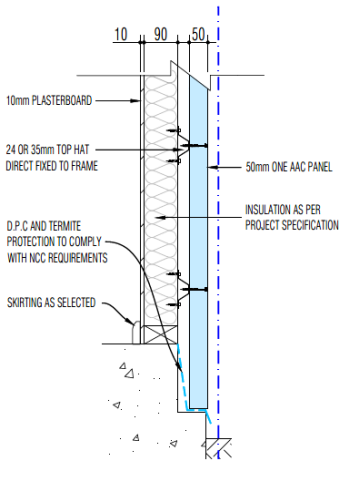
- The Maximum wall height permitted is 15m

Layer 1 – Typically, Face Fixed to Top Hats / Battens

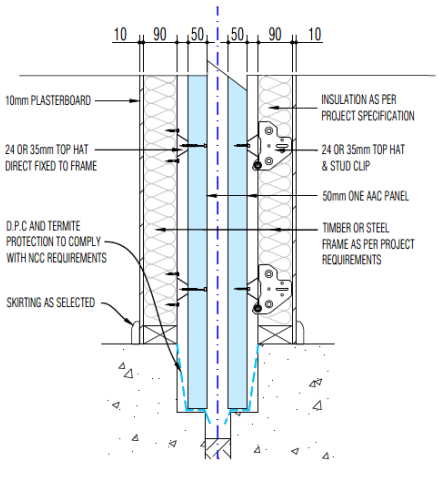
- 24mm or 35mm Top Hat Batten fixed direct to frame
- Top hat screws
  - 10-16 x 16mm Hex Head Self Drilling Screws for metal frames
  - 14-10 x 25mm Hex Head Type 17 screws for timber frames
- Face Fix Panel Screws: 14-10 x 75mm Bugle Head Type 17 screws

Layer 2 – Typically, Rear Fixed to Top Hats / Battens

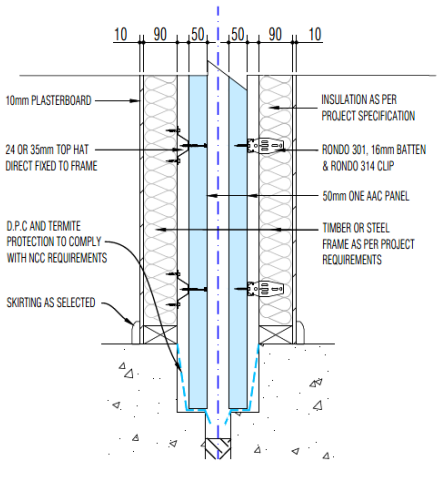
- 24mm or 35mm Top Hat Batten fixed to frame using stud clips
- Top hat stud clip screws
  - 10-16 x 16mm Hex Head Self Drilling Screws for metal frames
  - 14-10 x 25mm Hex Head Type 17 screws for timber frames
- RONDO 301 (16mm) batten fixed to frame with RONDO 314 Clip
- Rear Fix Panel Screws: 14-10 x 45mm Hex Head Type 17 screws



(FACE FIXED)



(FACE FIXED) (REAR FIXED)



(FACE FIXED) (REAR FIXED)

ONE AAC Vertical Panel Installation Design Tables

24MM & 35MM TOP HAT LAYOUT REQUIREMENTS

- Number of Top Hats required – Panel supported on a solid base

Wind Zone	UWP (kPa) Away from corners	UWP (kPa) Within 1200mm of corners	Stud Spacing (mm)	Number Of Top Hats Per Panel					
				Panel Length (mm)					
				<=2400		<=2700		<=3000	
				Panel Location		Panel Location		Panel Location	
				Typical	Corner	Typical	Corner	Typical	Corner
N2	0.67/-0.62	-1.25	600	4	4	4	4	4	4
N3,C1	1.05/-0.98	-1.95	600	4	4	4	4	4	4
N3,C1	1.05/-0.98	-1.95	450	4	4	4	4	4	4
N4,C2	1.56/-1.45	-2.90	450	4	6	4	6	4	6

24MM & 35MM TOP HAT SCREW FIXING REQUIREMENTS

- Number of screws per panel at each Top Hat location – Panel supported on a solid base

Wind Zone	UWP (kPa) Away from corners	UWP (kPa) Within 1200mm of corners	Stud Spacing (mm)	Number Of Screws Per Panel Per Top Hat			
				Panel Location			
				Typical		Corner	
				Top Hat Location		Top Hat Location	
				Ends	Middle	Ends	Middle
N2	0.67/-0.62	-1.25	600	2	2	3	4
N3,C1	1.05/-0.98	-1.95	600	2	3	3	4
N3,C1	1.05/-0.98	-1.95	450	2	3	4	4
N4,C2	1.56/-1.45	-2.90	450	3	3	4	4

16MM BATTEN WITH DIRECT FIX CLIP LAYOUT REQUIREMENTS

- Number of Battens required – Panel supported on a solid base

Wind Zone	UWP (kPa) Away from corners	UWP (kPa) Within 1200mm of corners	Stud Spacing (mm)	Number Of Top Hats Per Panel					
				Panel Length (mm)					
				<=2400		<=2700		<=3000	
				Panel Location		Panel Location		Panel Location	
				Typical	Corner	Typical	Corner	Typical	Corner
N2	0.67/-0.62	-1.25	600	4	5	4	5	4	6
N3,C1	1.05/-0.98	-1.95	600	4	7	4	8	5	9
N3,C1	1.05/-0.98	-1.95	450	4	5	4	5	4	6

16MM BATTEN WITH DIRECT FIX CLIP SCREW FIXING REQUIREMENTS

- Number of Top Hats required – Panel supported on a solid base

Wind Zone	UWP (kPa) Away from corners	UWP (kPa) Within 1200mm of corners	Stud Spacing (mm)	Number Of Screws Per Panel Per Top Hat			
				Panel Location			
				Typical		Corner	
				Top Hat Location		Top Hat Location	
				Ends	Middle	Ends	Middle
N2	0.67/-0.62	-1.25	600	2	2	2	2
N3,C1	1.05/-0.98	-1.95	600	2	2	2	2
N3,C1	1.05/-0.98	-1.95	450	2	2	2	2

Horizontal 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)

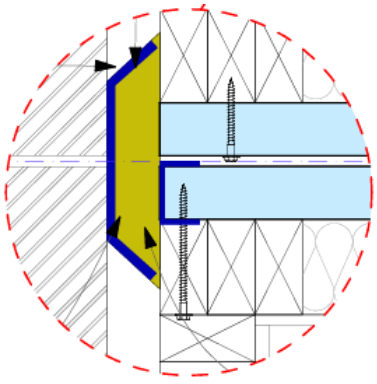
- **Fix panels for Layer 2 in a stack bond pattern using the ONE AAC PANEL Party Wall system components.**

- **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 2200mm horizontal spacings (into the metal components spaced at 2200mm vertical centers)**

- **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:** If 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:
    - 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 face fixed to Frame 2 to comply with the wind zone for the area when or if Layer 1 wall is ever removed.
    - 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
    - High Visibility Work Wear, Steel Cap Boots
    - Gloves, Dust Mask, Goggles, Hearing Protection
- Standard Contractor Tools
    - Hammer, Nail Bag, Tape, Pencil, Level
    - Tin Snips, Chisels, Knife
    - Electric Leads and Power Box
- Power Saw
    - Preferably Dustless
    - Fitted with a Diamond Blade
- Vacuum
- 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:

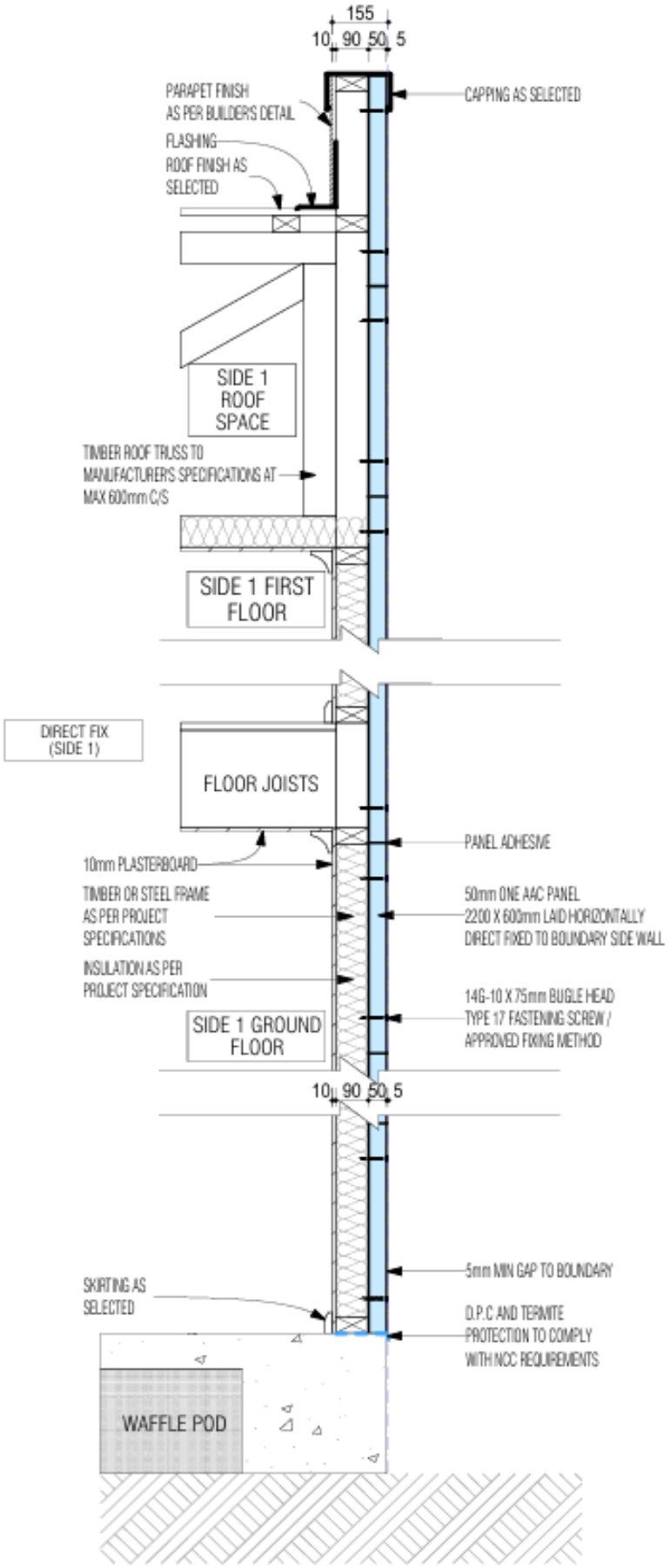
Warranty

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.

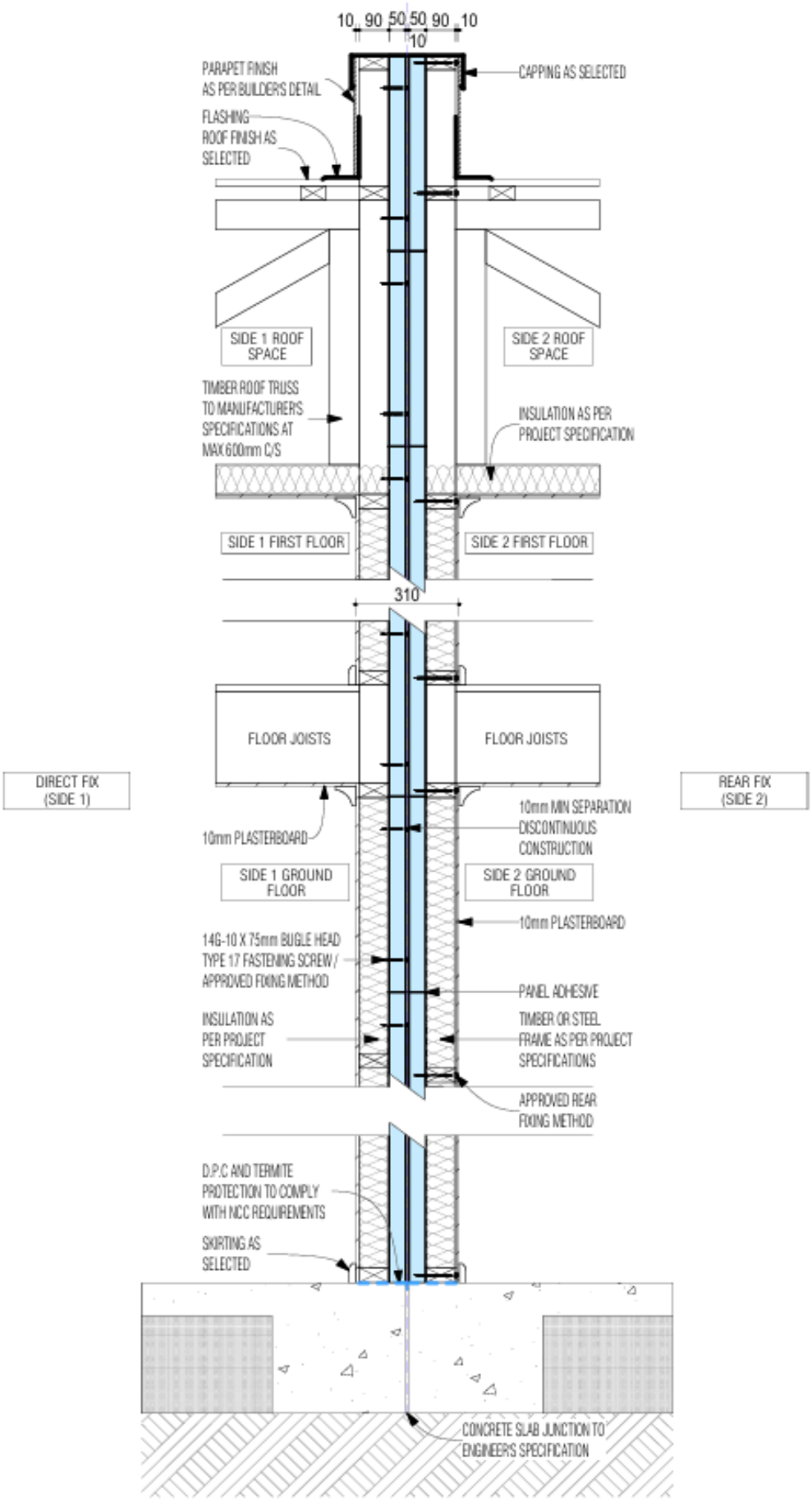
For further details or information on the engineering, design and construction with the ONE AAC Panel System, please contact our sales or technical professionals on 1300 010 222 or visit our website: www.oneaac.com.au to obtain the latest Design & Installation Manuals.



HORIZONTAL PANEL - SINGLE WALL ASSEMBLY

50mm ONE AAC PANEL - DIRECT FIX BOUNDARY TO BOUNDARY WALL DETAIL

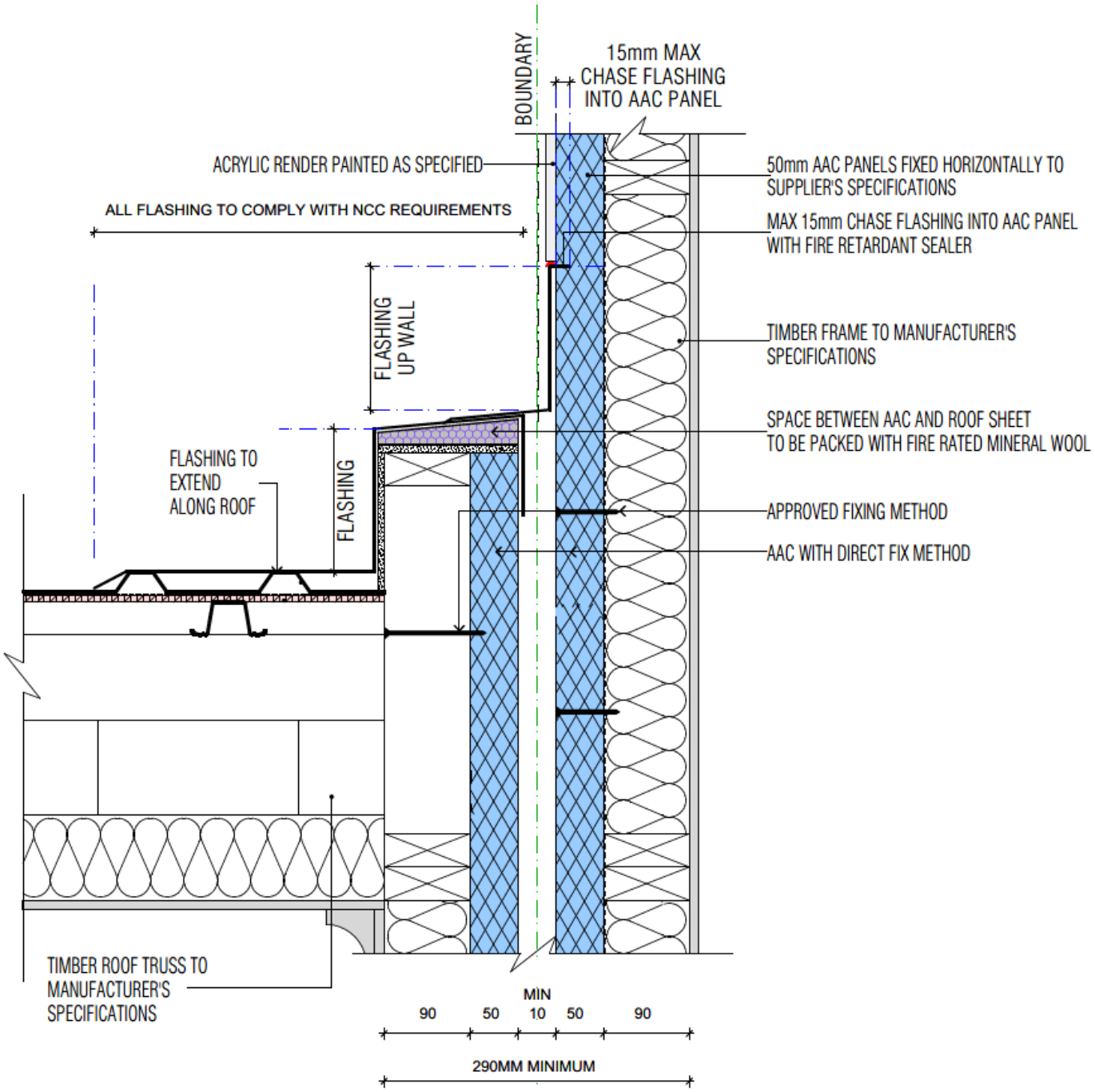
MINIMUM FRL 60/60/60 & (DnTw+Ctr=53) OR Rw+Ctr=58



HORIZONTAL PANEL - DUAL WALL ASSEMBLY

50mm ONE AAC PANEL - DIRECT FIX BOUNDARY TO BOUNDARY WALL DETAIL

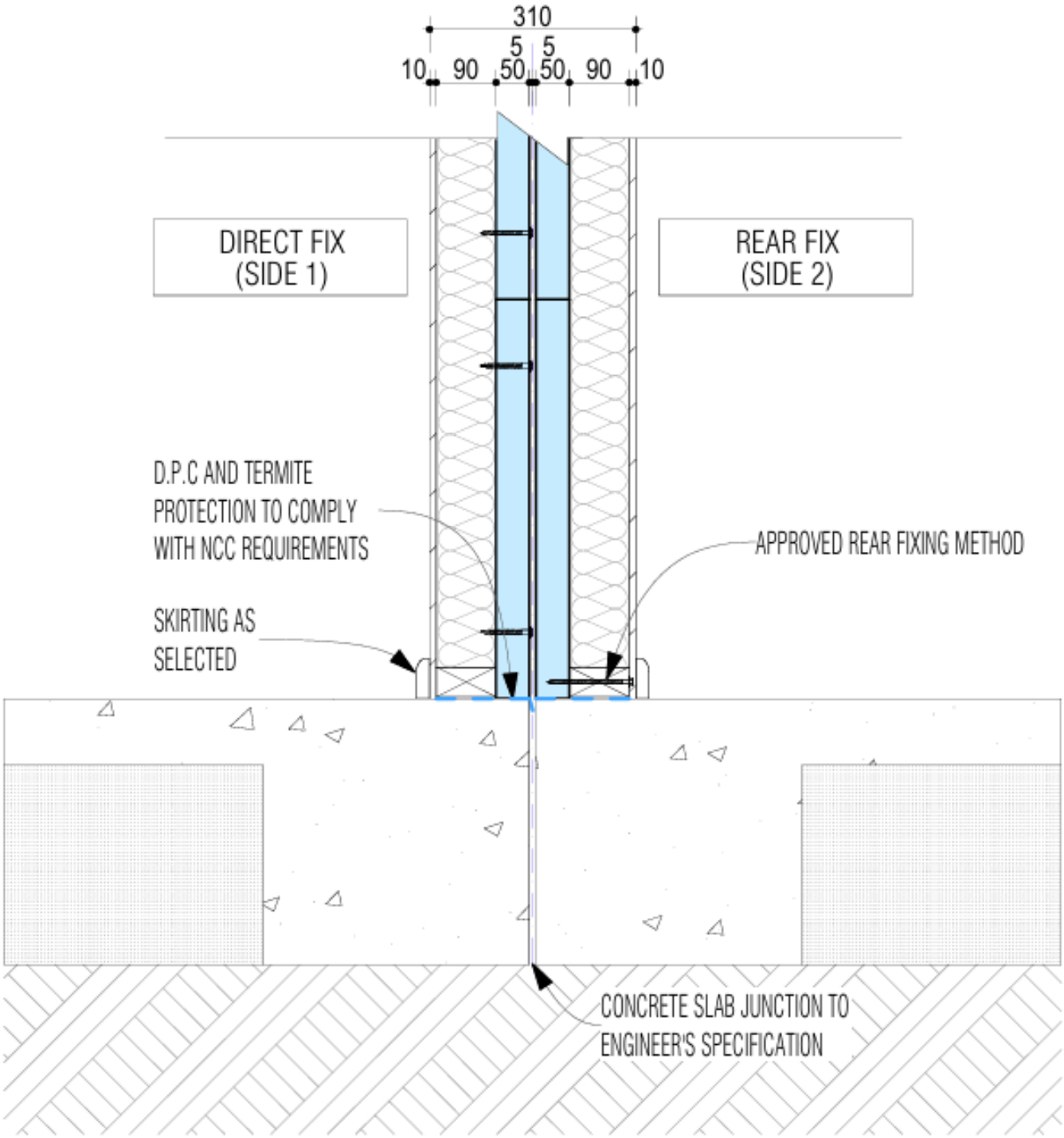
MINIMUM FRL 60/60/60 & (DnTw+Ctr=53) OR Rw+Ctr=58



HORIZONTAL PANEL - BASE & DUAL WALL TO EXTERNAL WALL DETAIL

50mm ONE AAC PANEL - DIRECT FIX BOUNDARY TO BOUNDARY WALL DETAIL

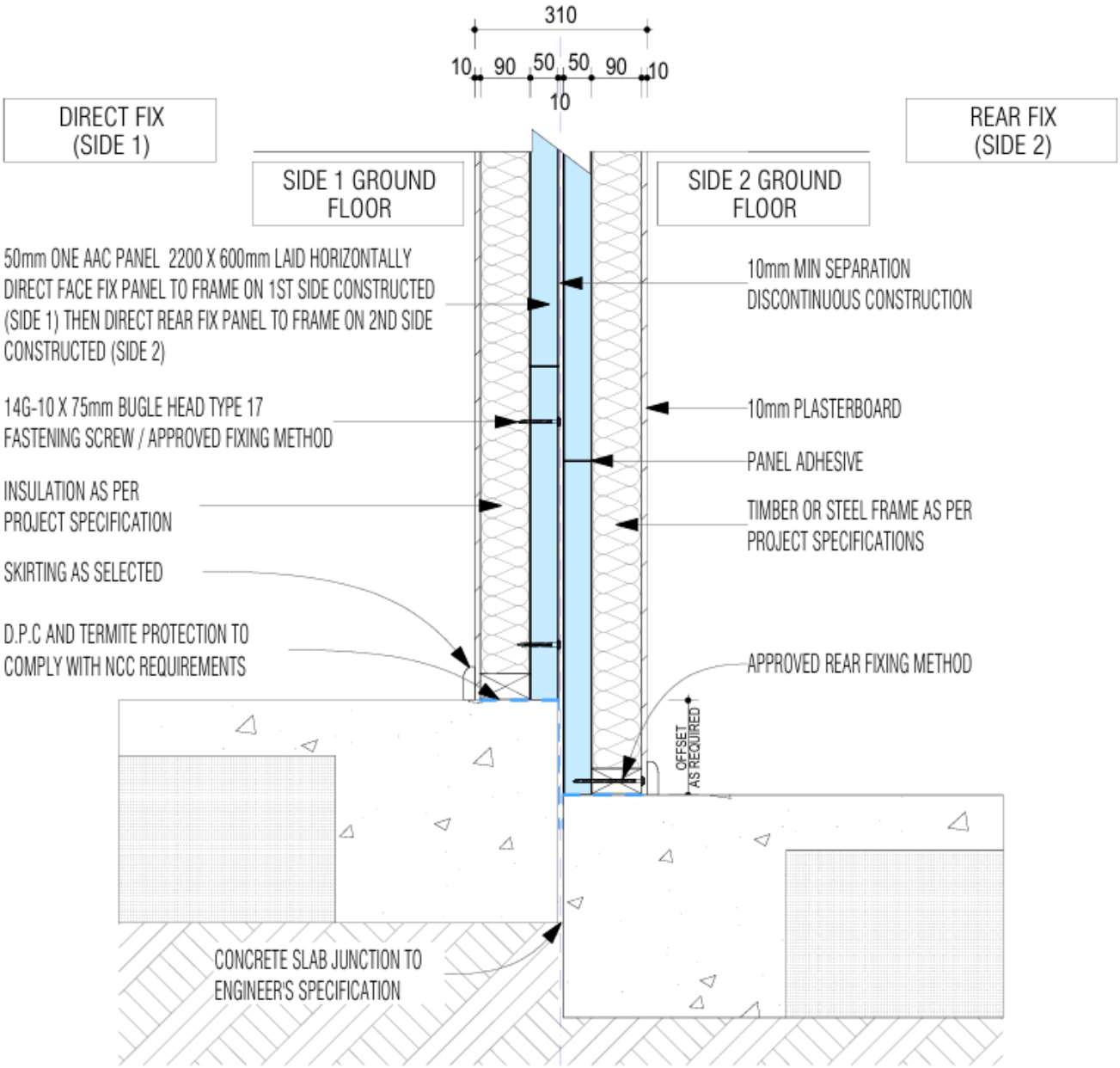
MINIMUM FRL 60/60/60 & (DnTw+Ctr=53) OR Rw+Ctr=58



HORIZONTAL PANEL - BASE DETAIL

50mm ONE AAC PANEL - DIRECT FIX BOUNDARY TO BOUNDARY WALL DETAIL

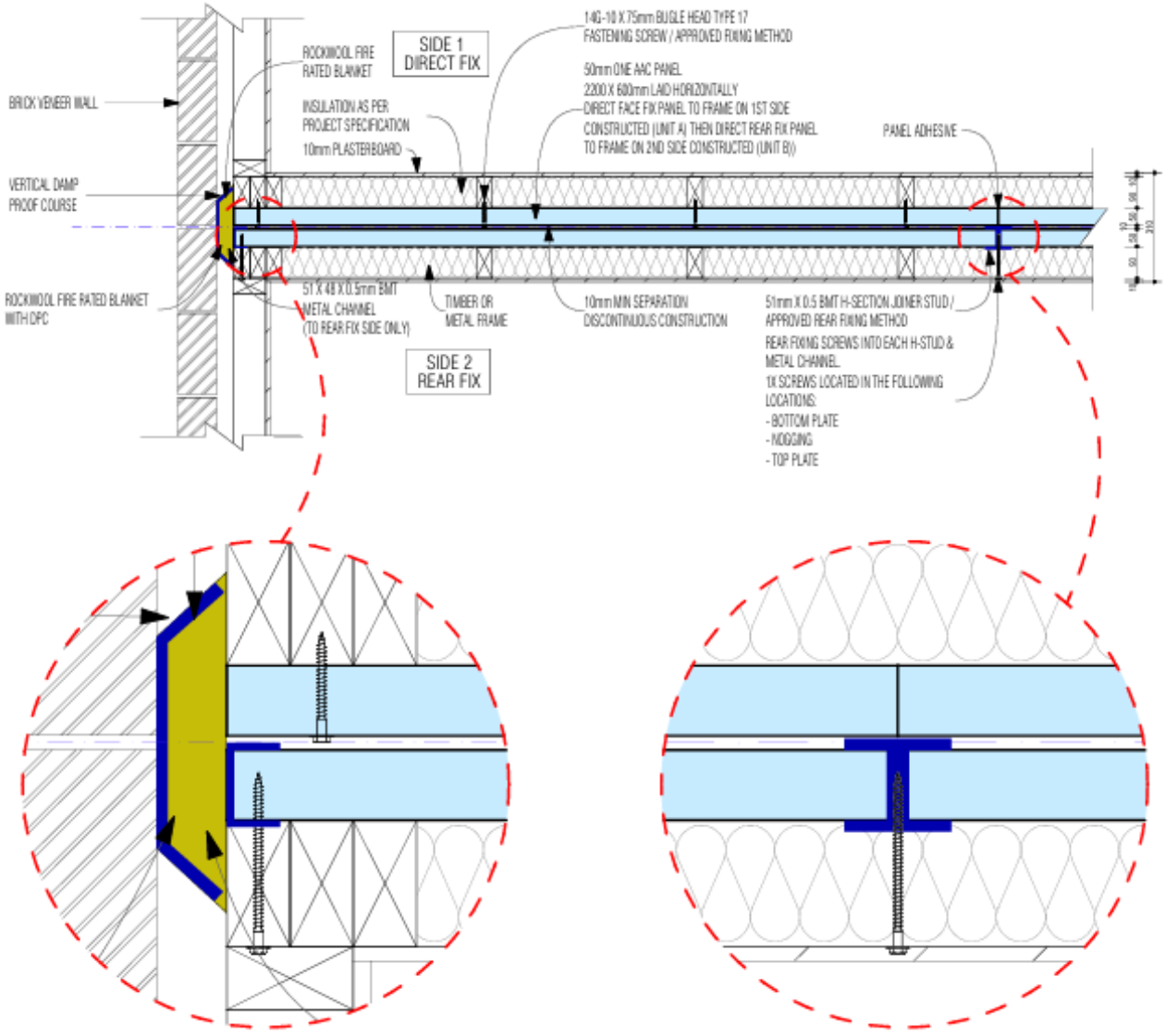
MINIMUM FRL 60/60/60 & (DnTw+Ctr=53) OR Rw+Ctr=58



HORIZONTAL PANEL - STEP DOWN BASE DETAIL

50mm ONE AAC PANEL - DIRECT FIX BOUNDARY TO BOUNDARY WALL DETAIL

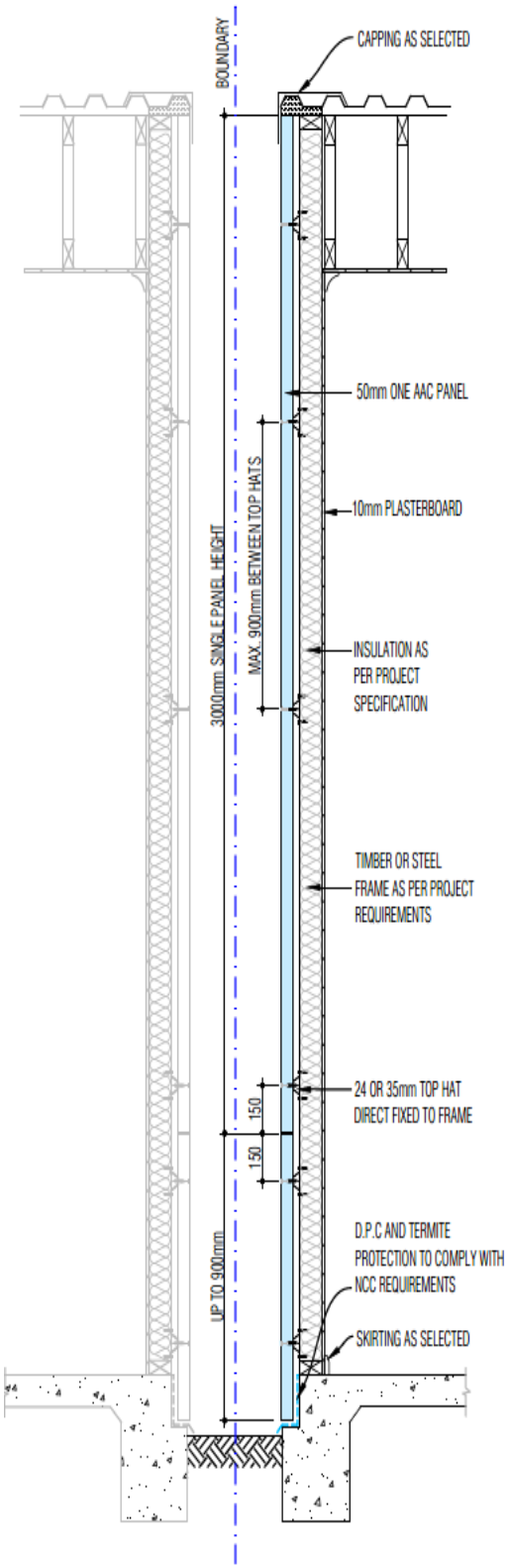
MINIMUM FRL 60/60/60 & (DnTw+Ctr=53) OR Rw+Ctr=58



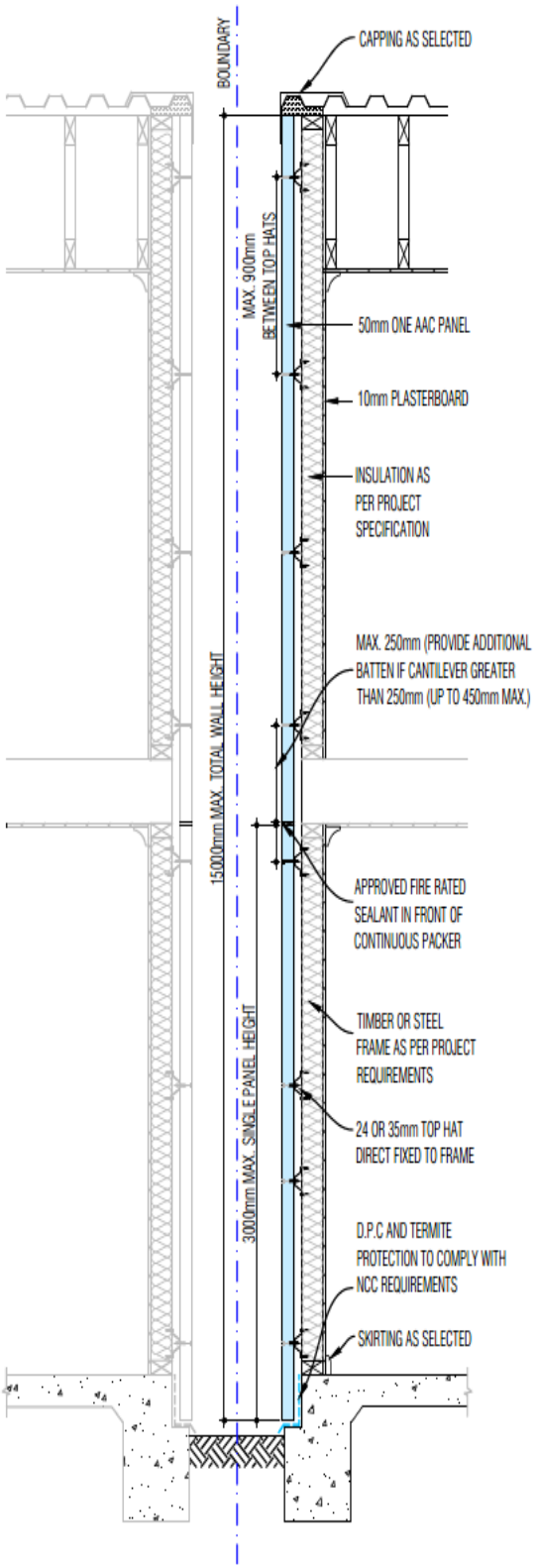
HORIZONTAL PANEL - DUAL WALL JUNCTION TO BRICK VENEER WALL

50mm ONE AAC PANEL - DIRECT FIX BOUNDARY TO BOUNDARY WALL DETAIL

MINIMUM FRL 60/60/60 & (DnTw+Ctr=53) OR Rw+Ctr=58



SINGLE PANEL HEIGHT
(900MM + 3000MM)

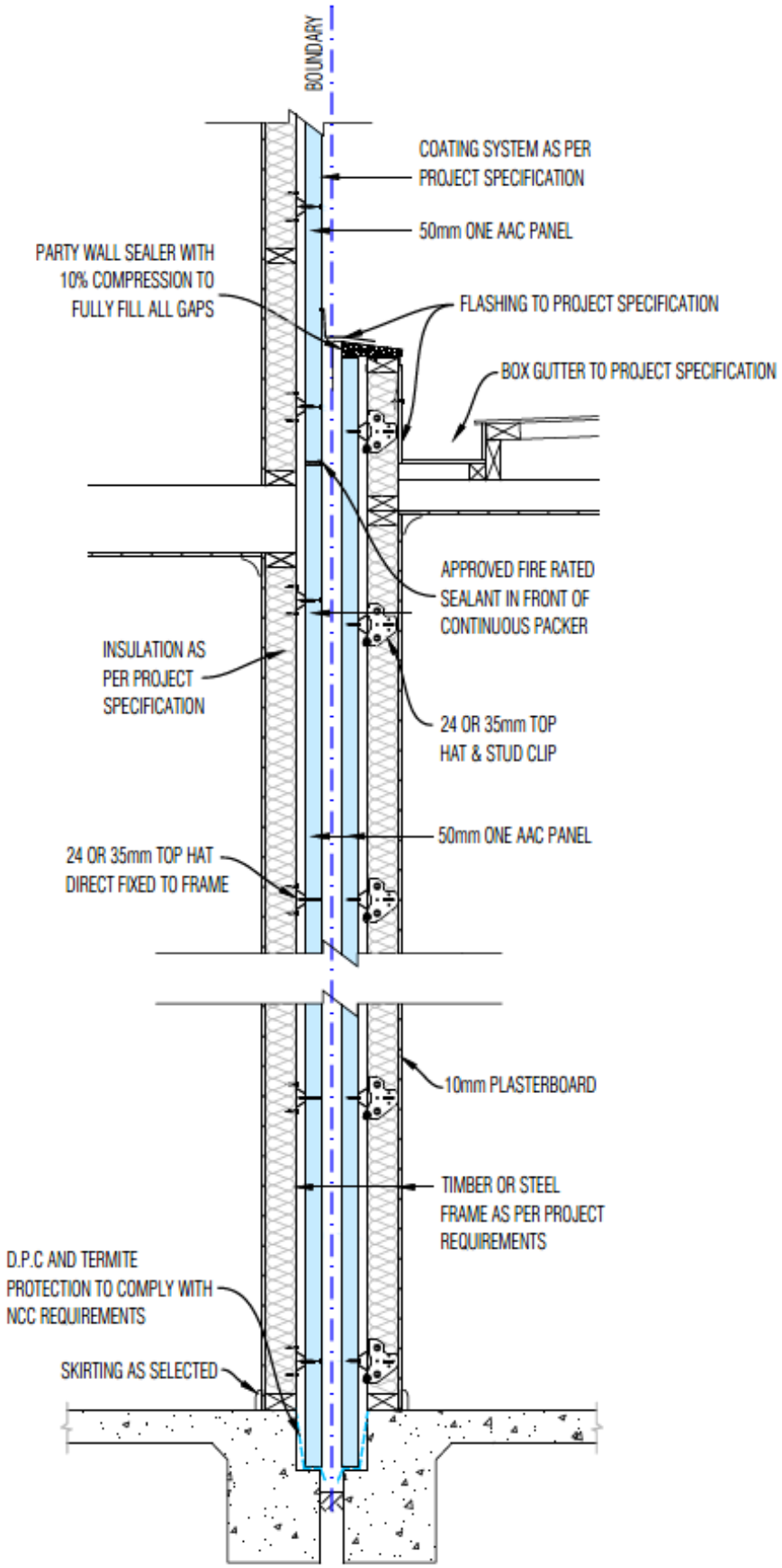


PANEL HEIGHT
(3000MM UPTO 15,000MM)

VERTICAL PANEL - SINGLE WALL ASSEMBLY

50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL

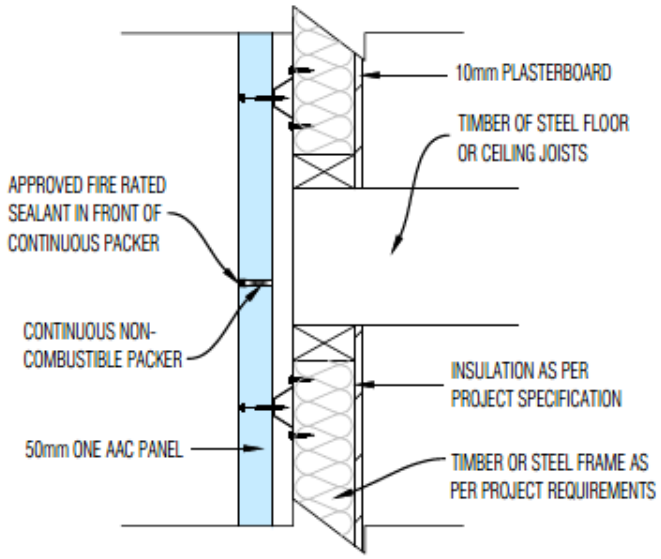
MINIMUM FRL 90/90/90 & (DnTw+Ctr=53) OR Rw+Ctr=58



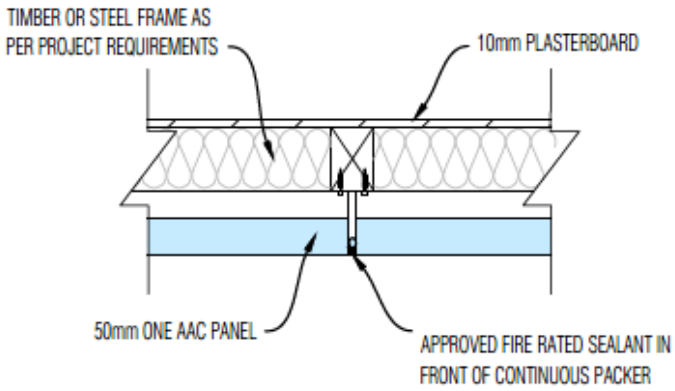
VERTICAL PANEL – BASE & DUAL WALL TO EXTERNAL WALL DETAIL

50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL

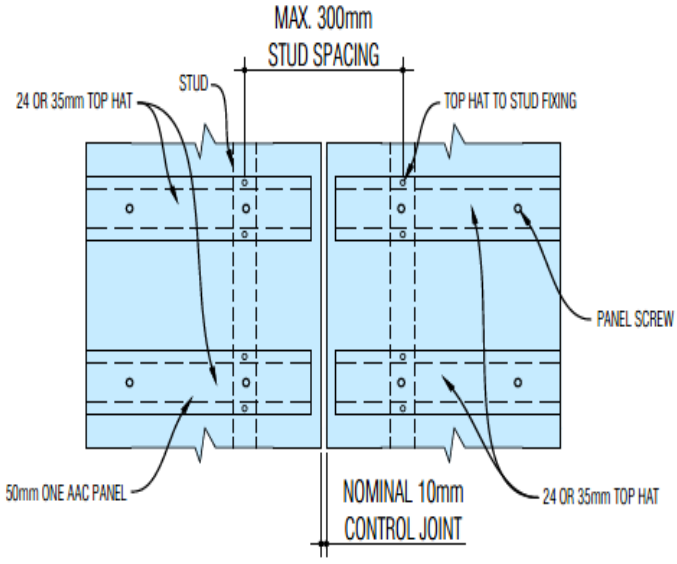
MINIMUM FRL 90/90/90 & (DnTw+Ctr=53) OR Rw+Ctr=58



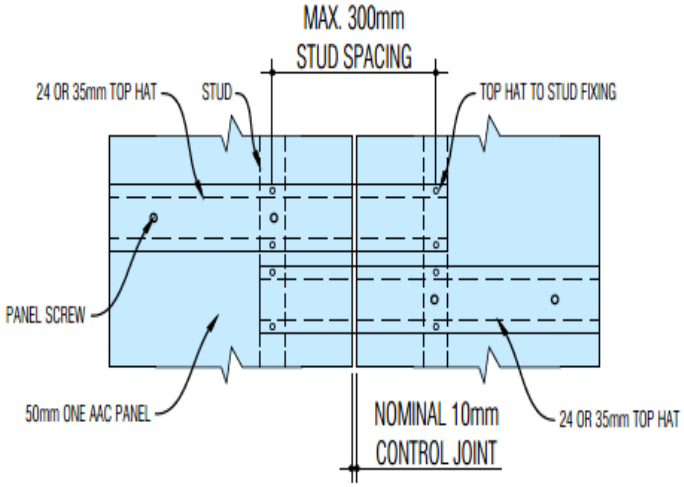
HORIZONTAL CONTROL JOINT



VERTICAL CONTROL JOINT



VERTICAL CONTROL JOINT



VERTICAL CONTROL JOINT

VERTICAL PANEL – CONTROL JOINT DETAILS

50mm ONE AAC PANEL - BOUNDARY TO BOUNDARY WALL DETAIL

MINIMUM FRL 90/90/90 & (DnTw+Ctr=53) OR Rw+Ctr=58

Certificate of Conformity

Certification Body:

global-mark

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

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

	Volume One		Volume Two including Housing Provisions	
Performance Requirement(s)	**B1P1**	Structural reliability	**H1P1**	Structural stability and resistance to actions
	B1P2	Structural resistance		

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

Certificate of Conformity

		F3P1	Weatherproofing	**H2P2**	Weatherproofing
	Deemed-to-Satisfy Provision(s):	**B1D4 (b)(ii)**	Determination of structural resistance of materials and forms of construction	**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

Certificate of Conformity

		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

Certificate of Conformity

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B	
Limitations and conditions:	**Building classification/s:**
Volume 1 – B1P1, B1P2, B1D4 **&** **Volume 2 – H1P1, H1D7** **Volume 1 – NT B1D4, QLD B1D4, WA B1D4** **&** **Volume 2 – WA H1D7** External and Zero Boundary wall systems have maximum design wind pressure limits documented within the relevant ONE AAC Design & Installation Manuals (for External Walls and/or Dual Boundary Walls – refer Appendix B2). Wind pressures (as determined by AS4055 or AS/NZS1170.2), construction details and fixing methods must follow the relevant details contained within the engineering detail sections of the relevant ONE AAC Design & Installation Manuals for External Walls and/or Dual Boundary Walls, refer Appendix B2. Supporting stud frame design & certification shall be conducted by a suitably qualified engineer in accordance with AS 1684 "Timber Framing Code" for Timber framing and NASH Standard or AS/NZS 4600 "Cold-formed steel structures", for Steel framing.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – B1P1 (2)(e), (f) & (i) **&** **Volume 2 – H1P1 (2)(e), (f) & (i)** Snow, liquid pressure and earth pressure actions are excluded.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – B1P4 **&** **Volume 2 – H1P2** Compliance for flood hazard areas is excluded.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – C2D2, Specification 1 & Specification 5 **&** **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** Refer to relevant construction options, details & conditions included in the relevant ONE AAC Design & Installation Manuals, refer Appendix B2: • ONE AAC External wall FRLs (for External and Internal fire sources) up to 120/120/120 are achievable (refer construction system options in the External Wall Manual) • ONE AAC Intertenancy wall FRLs of 60/60/60, 90/90/90 or 120/120/120 are achievable (refer construction system options in the Party Wall Manual) • ONE AAC Dual Boundary wall FRLs of 60/60/60 apply (refer construction system options in the Dual Boundary Wall Manual) • ONE AAC Floor Systems using 75mm thick AAC panels achieve FRLs up to 90/90/90 for fire sources above and below when a Ceiling system using 2 x 16mm or 3 x 13mm Gyprock Fyrchek plasterboard is directly fixed to joists or furring channels (minimum 28mm x 35mm x 0.5mm BMT) at spacing of 600mm max • For additional FRLs refer to construction system options in Appendix A3 & the relevant Wall or Floor System Manuals, refer Appendix B2.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – C2D10 Non-combustibility relates to AAC material only. Certification is based on the system being installed using components & accessories as detailed in the relevant ONE AAC Design & Installation Manuals, refer Appendix B2. Substitution of wall system components &/or accessories may be permitted, the general performance specifications of components &/or accessories must be maintained for this certificate to remain valid.	2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – C2D10 (1)(a) In a building required to be of Type A or B construction, construction elements and their components must be non-combustible for all external walls, common walls and non-loadbearing internal walls that are required to be fire-resisting, timber framing and components may not be used.	2, 3, 4, 5, 6, 7, 8 & 9

CodeMark Australia

Certificate of Conformity

Volume 1 – C2D10 (6) In external wall applications, flexible sarking membrane (wall wrap) materials shall be installed in accordance with the ONE AAC Design & Installation Manual for External Walls, refer Appendix B2.	2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – F3P1 & Volume 2 – H2P2 ONE AAC External walls & Zero Boundary walls are considered to remain Weatherproof, when the external wall: 1. has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Tables F3V1a or H2V1a, and 2. is subject to Ultimate Limit State (ULS) wind pressures not exceeding ±2.5 kPa, and 3. deflections of the supporting structures are limited to Span/250 for the Serviceability Limit State (SLS) wind pressures, and 4. include only windows that comply with AS 2047, and 5. design & installation complies with the ONE AAC External wall or Zero Boundary wall design & installation manuals, refer Appendix B2.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – G5D3 & Volume 2 – H7D4 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 (where applicable), 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. In Queensland (per QLD G5D2 & QLD H7D4(3)), areas where the classified vegetation is Group F rainforest (excluding wet sclerophyll forest types), mangrove communities and grasslands under 300mm high, are excluded.	Class 1, 2 & 3 buildings & 10a buildings or decks immediately adjacent or connected to such buildings
Volume 1 – G5D4 In designated Bushfire prone areas, when the building is constructed in accordance with Specification 43, ONE AAC Panels are permitted for use as external wall cladding in buildings subject to Bushfire Attack Level not exceeding BAL–12.5. Construction in BAL–19, BAL–29, BAL–40 & BAL–FZ are outside 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 **Volume 1 – NSW J3D8 & TAS Part J3** The wall system contributes towards the Total wall system U or R value, which is to be determined in accordance with Volume 1 – J3D8 (2) & J3D9 or specific state variation. Insulation shall be included within the wall system, as outlined in the relevant Design & Installation Manual & according to project specifications.	Class 2 building or Class 4 part of a building
Volume 1 – J4D6 & Housing Provisions – 13.2.5 **Volume 1 – NSW J4D6 & Housing Provisions – NSW 13.2.5, NT 13.2.5 & TAS 13.2** 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.	Class 1, 3, 5, 6, 7, 8, 9 & 10 buildings
Volume 1 – NSW G5D3 & Volume 2 – NSW H7D4 ONE AAC Panels are permitted for use as external wall cladding in designated bushfire prone areas, subject to Bushfire Attack Level up to and including BAL–29, determined in accordance with Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with: - AS3959: 2018 including Amendments 1 & 2, except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, or where applicable,	Class 1, 2 & 3 buildings, Class 4 part of a building & Class 10a buildings or decks immediately adjacent or connected to such buildings

Certificate of Conformity

	- 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.	Class 9 buildings that have a special fire protection purpose & Class 10a buildings or decks immediately adjacent or connected to such buildings
	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.	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
	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.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10

Certificate of Conformity

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 PANELS	
Property	Value	Units	Value	Units
Ambient[1] Density, $\rho_{amb\ (10\%\ Moisture\ Content)}$	561	kg/m³	440	kg/m³
Dry[2] Density, ρ_{dry}	510	kg/m³	400	kg/m³
Working[3] Density, $\rho_{design\ (35\%\ Moisture\ Content)}$	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, ϕM	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	

ONE AAC – Intertenancy Wall FRLs and Acoustic Performance

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

Certificate of Conformity

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 AAC SYSTEM	System details – 70mm Frames The following Systems are all based on **50mm/75mm** ONE AAC Panel, 20-40mm Cavity, 70mm Frame Thickness, and 10mm Plasterboard internal linings	Total R Value m2K/W 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 AAC SYSTEM	System details – 90mm Frames The following Systems are all based on **50mm/75mm** ONE AAC Panel, 20-40mm Cavity, 90mm Frame Thickness, and 10mm Plasterboard internal linings	Total R Value m2K/W 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**

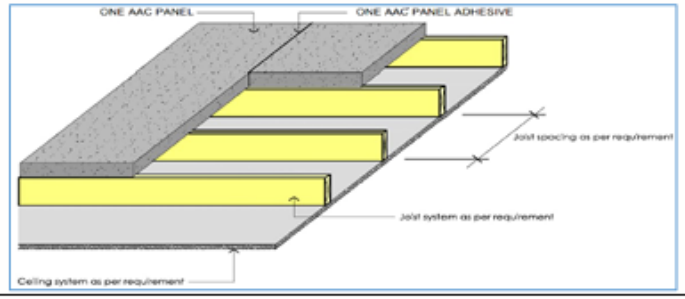
ONE AAC Flooring Systems achieve various FRLs as per the following extracts from the Technical Literature:

ONE AAC Floor System – 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

Certificate of Conformity

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

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.

Certificate of Conformity

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

Certificate of Conformity

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

Certificate of Conformity

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	-
4	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	-
6*	Enertren	ONE-007 V.4	10 Feb 2022	Compliance review of ONE AAC systems against NCC	-
7*	Enertren	ONE-013 V.3	10 Feb 2022	Compliance review of ONE AAC systems against NCC	-
8*	ONE AAC PANEL	Batch Testing 50mm Panel	15 Mar 2018	Quality control structural test document	-
9*	Enertren	AS4055-2006 Connection Design	9 Apr 2013	Structural calculation report	-
10*	Enertren	ONE-011 V.1	10 Feb 2022	Structural Design Certification	-
11*	Enertren	ONE-012 V.3	10 Feb 2022	Structural Design Certification	-
12*	BEMAC Laboratories	10953 – 50mm x 2.7m mesh panel	6 Mar 2017	Structural test report	1393
13*	BEMAC Laboratories	10953 – 50mm x 3.0m mesh panel	4 May 2017	Structural test report	1393
14*	Pace Structural	PS 18013 – 50mm AAC Zero Boundary Walls	22 Jan 2025	Structural Design Certification	-
15*	Pace Structural	PS 18022 – 50mm AAC Party Walls	22 Jan 2025	Structural Design Certification	-
16*	Pace Structural	PS 20116 – 75mm AAC Flooring	23 Jan 2025	Structural Design Certification	-
17*	Pace Structural	PS 20123 – 75mm AAC External Walls	23 Jan 2025	Structural Design Certification	-
18*	Pace Structural	PS 18153 – 75mm AAC Vert External Walls	23 Jan 2025	Structural Design Certification	-
19*	Pace Structural	PS 18158 – 75mm AAC Party Walls	20 Mar 2025	Structural Design Certification	-
20*	Pace Structural	PS 19167 – 75mm AAC Flooring	11 Apr 2021	Structural Design Certification	-
21*	Pace Structural	PS 20145 – 50mm AAC External Walls	22 Jan 2025	Structural Design Certification	-
22*	Mahaffey Associates	BAS/25/L01/9830	26 Feb 2025	Durability assessment report	-
23*	The Coatings Consultancy	TCC18025-B-20231018	18 Oct 2023	Durability assessment report	-
24*	CSIRO	FNC12427A	2 Sep 2019	Fire Test Report	165
25*	CSIRO	FNC12490	22 Nov 2019	Fire Test Report	165
26*	CSIRO	FCO-2532 Rev G	20 Aug 2024	Fire Assessment Report	165
27*	CSIRO	FCO-3003 Rev F	3 Dec 2024	Fire Assessment Report	165
28*	CSIRO	FCO-3241 Rev D	3 Dec 2024	Fire Assessment Report	165
29*	CSIRO	FCO-3255 Rev G	1 Sep 2021	Fire Assessment Report	165
30*	CSIRO	FCO-3451 Rev D	30 Aug 2024	Fire Assessment Report	165
31*	WarringtonFire Australia	FAS200114 – 24917 R3.1	26 May 2022	Fire Assessment Report	3277
32*	WarringtonFire Australia	FAS190160 – 45771 R21.0	23 Feb 2023	Fire Assessment Report	3277
33*	WarringtonFire Australia	FAS200249 – 27915 RIR 28.3	25 Sep 2024	Fire Assessment Report	3277

Certificate of Conformity

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.

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: info@oneaac.com.au
Web: **www.oneaac.com.au**