

MaxiWall Technical Guide



MAXIWALL®



Our Story

MaxiWall panels are lightweight, steel reinforced panels manufactured from Autoclaved Aerated Concrete (AAC). MaxiWall has a cellular structure of extremely small, well dispersed air pockets, formed from gas liberated during the manufacturing process providing many advantages over most other cladding materials.

Designed for homes and buildings built using either timber or steel framing MaxiWall can be used for new dwelling construction, extensions or re-cladding and can also be used in fire rated applications.

1.0 Contents & Use of Manual

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This technical manual contains design, installation and technical information intended for use as a general guide by qualified design and building construction professionals including licensed builders in the construction of external walls for low-rise multi-residential buildings and houses.

This document does not substitute the necessary knowledge, experience and judgment of qualified design and building construction professionals. They should be consulted to ensure that the specific building systems, its components and installations are suitable for the projects and conform to building codes under Australian laws. ATBS is not responsible for ensuring the correctness or suitability of the systems or compliance with federal, state or local laws and regulations, including building, environmental and other codes.

2.0 MaxiWall Panel

The MaxiWall Autoclaved Aerated Concrete (AAC) wall panel is a durable, lightweight, steel reinforced innovative building panel that offers excellent benefits as an external wall system for low-rise multi-residential buildings and houses. Some of the benefits include:

- Environmentally friendly – no toxic gases or hazardous waste
- Quick installation – reduced time and labour costs
- Fire resistant – helps prevent spread of fire
- Energy efficient – high thermal mass and thermal isolation
- Excellent soundproofing – reduces noise transmission significantly
- Durability – not affected by harsh climatic conditions

MaxiWall panels are manufactured using the latest state-of-the-art German production technology and plant. Made from cement, fine aggregates, lime and water, an expansion agent is added to the mixed slurry which causes it to rise like dough containing several closed air pockets that results in its lightweight and energy efficient benefits. The material is molded and wire-cut into dimensioned panels and cooked with steam (autoclaving).

AAC has been used in Europe for more than 70 years and continues to be widely accepted in Australia since its introduction over 20 years ago.

Building homes with the MaxiWall panels deliver a quieter, cooler and comfortable “home living” experience. With four times greater thermal resistance than standard house bricks, the amount of energy required to heat or cool is greatly reduced thus resulting in cost savings to homeowners. MaxiWall panels are lighter than other concrete and masonry products and offer faster installation, easy handling and flexible solutions for external cladding requirements. MaxiWall panels are available in the following dimensions and steel reinforcement.

Thickness:	75mm
Width:	600mm
Length:	1200 to 3000mm
Reinforcement:	Single steel mesh, centrally located
Steel wire:	4 x Ø 5mm longitudinal and transverse bars



3.0 Advantage & Benefit



Environmentally friendly and sustainable

Helps reduce about 30% of environmental waste compared to traditional concrete and 50% of greenhouse gas emissions.



Energy cost savings

Excellent insulation properties with improved thermal efficiency that reduces the heating and cooling load in buildings.



Excellent soundproofing

Effective sound barrier for privacy both from outside noises and other rooms when used as interior partition walls.



Superior fire protection

Non-combustible. Suited for fire-rated applications achieving a two hour rating when installed with approved systems.



Non-toxic substances

Pollutant free building material that does not emit toxic gases or other toxic substances.



Quick construction

Easy to work with, including cutting, shaving and shaping thus reducing construction time and labour costs.



Lightweight and durable

Durable and dimensionally stable, the lightweight cellular properties provide design and construction flexibility.

4.0 MaxiWall External Wall System

The MaxiWall external wall system is designed for the construction of low-rise multi-residential buildings and houses using timber or steel frames. It can also be used for recladding of existing homes and extensions.

The system comprises of 75mm thick MaxiWall AAC wall panels embedded with reinforcing corrosion protected steel mesh in longitudinal and transverse directions, installed vertically over discontinuous or continuous horizontal battens fastened to the load bearing frames.

For fast, construction flexibility and the ability to make easy adjustments on site, the MaxiWall wall panels can be procured in standard lengths of 1200mm, 1800mm 2400mm, 2550, 2700mm, 2850 and 3,000 and in width of 600mm.

The MaxiWall external wall system has an advantage over other wall systems when plaster, stucco or render finishes are used, as no additional preparation work is required. MaxiWall panels can also be used as internal non-load bearing separating, shaft, partition and noise barrier walls including for fences and floors.

5.0 Design Consideration

For MaxiWall external wall system to be effective and economical the following design process to capitalise on the product benefits and architectural features is important.

- Ascertain wind load, soil type and movement and wall frames layout.
- When designing the system ensure it complies with the relevant BCA performance conditions below:
 - › Fire Resistance Level (FRL)
 - › Sound insulation performance (Rw values)
 - › Energy Efficiency (R-Value)
- Determine wall frame spacing, quantity of battens, screw fixing and cantilever distance
- (refer to Table 2 – Fixing Description). Select insulation and/or sarking material to meet
- energy efficiency requirements.
- Ensure fire resistance level and sound insulation adequacy.
- Decide on the exterior surface treatment, as pores of different size on the surface are an inherent characteristic of autoclaved aerated concrete.
- Ensure Project Engineer verifies and approve completed detailed design and documentation as complying with BCA requirements.

The design considerations and installation details shown in this manual are for framed structural systems using MaxiWall panels. The system details show standard design configurations for MaxiWall panels that are used in a typical Australian dwelling house.

When designed and specified in accordance with the technical information contained in this manual, the MaxiWall external wall system for low-rise multi-residential buildings and houses shall be deemed to satisfy the requirements of the National Construction Code Series, Volume One, Building Code of Australia (BCA) for Class 1 and Class 10a Buildings.

The standards and documents referred to in Appendix A of this manual are to be used to determine resistance to actions and to evaluate the material and system performance against the BCA nominated requirements.

The BCA is a performance based document available in two volumes: Volume 1 – Class 2 to Class 9 Buildings and Volume 2 – Class 1 and 10 Buildings (Housing Provisions). It is a uniform set of technical provisions used for the design and construction of buildings and other structures in Australia.

The MaxiWall panel has been issued with CodeMark™ Certificate of Conformity. This certification provides a nationally and internationally accepted process for products assessment for compliance. For current certificate information, please refer to www.certmark.com.au.

6.0 Fixing Specification

The fixing system is established according to the wind category at the site and method of construction, either with the panels fixed at the base, or with the panels suspended from the frame. The MaxiWall panel is fixed to the structural support framing with 24mm or 35mm cold formed top hat section battens to AS 3566.1 – 2002.

Table 1. - Fasteners and Fixings

Connection	Fixing
Top hat to timber frame	12 - 11 x 35mm Hex Head Type 17 Screw
Top hat to steel stud frame	10 - 16 x 16mm Hex Head Tek's Screw
Top hat to MaxiWall panel	14 - 10 x 65mm Hex Head Type 17 Screws**
MaxiWall panel to top hat	14 - 10 x 90mm Hex Head Type 17 Screw 14 - 10 x 100mm Bugle Head Screw
Recommended battens (24mm)	0.42 BMT or greater
Recommended battens (35mm)	0.55 BMT or greater

Fixings Details

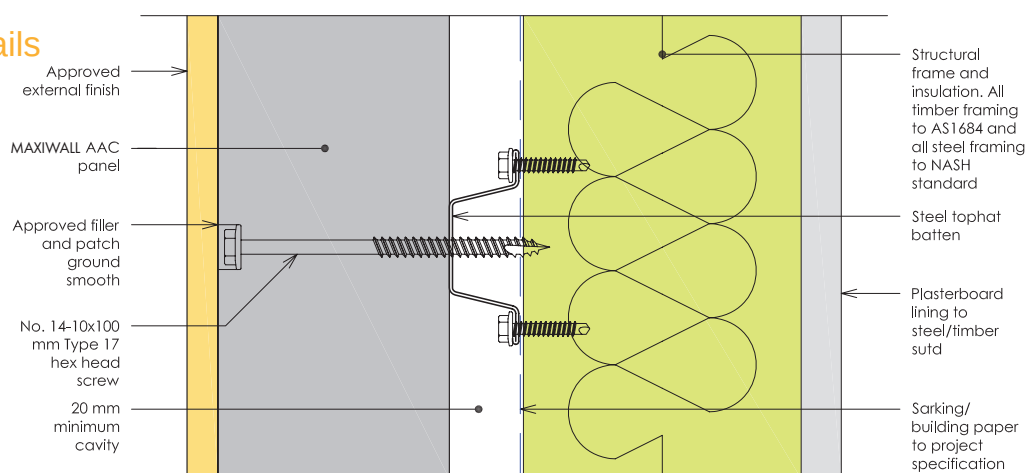


Table 1. - Fasteners and Fixings

Wind Class	Maximum batten spacing (mm)		Panel fixing required per panel per batten (pcs)		Maximum cantilever distance at panel end (mm)	
	General areas	Corners	General areas	Corners	General areas	Corners
N1	1200	1200	2	2	400	400
N2	1200	1200	2	2	400	400
N3	1200	1100	2	3	400	400
N4	1200	700	3	3	400	350
N5	900	500	3	3	400	250
N6	650	350	3	3	350	200

7.0 System Component

Thick-Bed Mortar	<p>A thick-bed bonding mortar with high adhesion strength specifically manufactured for the placement of MaxiWall panels where levelling and bonding application is required for external wall construction.</p> <p>The mortar helps in the integrity of an airtight construction for sound insulation and fire protection at the base of the panels.</p>
AAC Adhesive	<p>The adhesive for MaxiWall panels is a factory prepared blend of carefully selected raw materials such as cement, graded aggregates and strengthening and performance additives. It is a dry mixed product used as a structural thin bed adhesive for adhering the panels in the construction of external walls.</p>
Patch Compound	<p>A pre-mixed, water based jointing and patching compound used for repairing minor chips, cracks and damages particularly to the corners and edges. It can also be used as a filler compound.</p>
Joint Sealant	<p>Designed for sealing joints and wall penetrations that are subjected to high humidity and movements. The joint sealant provides superior integrity for fire and acoustic sealing. Even when excessively stretched sealants help maintain the joint's integrity.</p>
Anti-Corrosion Paint	<p>Used for coating and protection of the exposed steel reinforcement mesh from corrosion after cutting.</p>
Render Coating	<p>Acrylic modified cement based renders designed to provide weather resistant, attractive decorative and durable finishes for application over MaxiWall panels.</p>

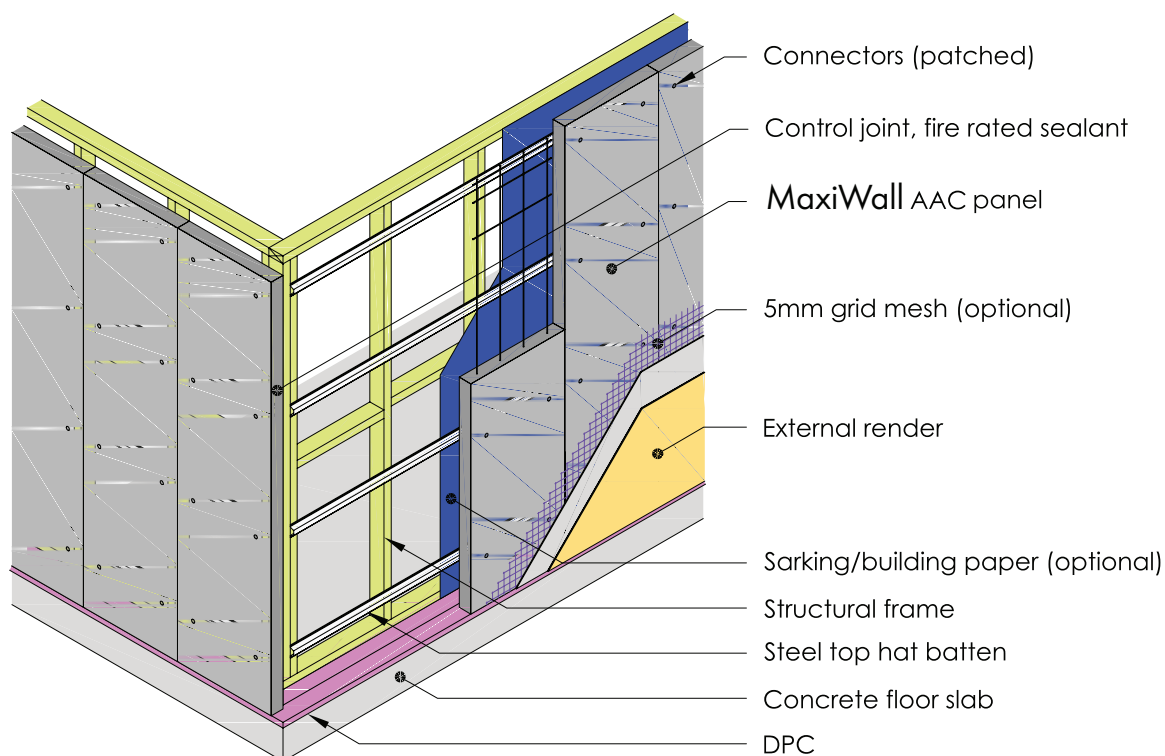
Note: System components are supplied by approved supply partners.

8.0 Installation Detail

Single storey construction - Isometric view

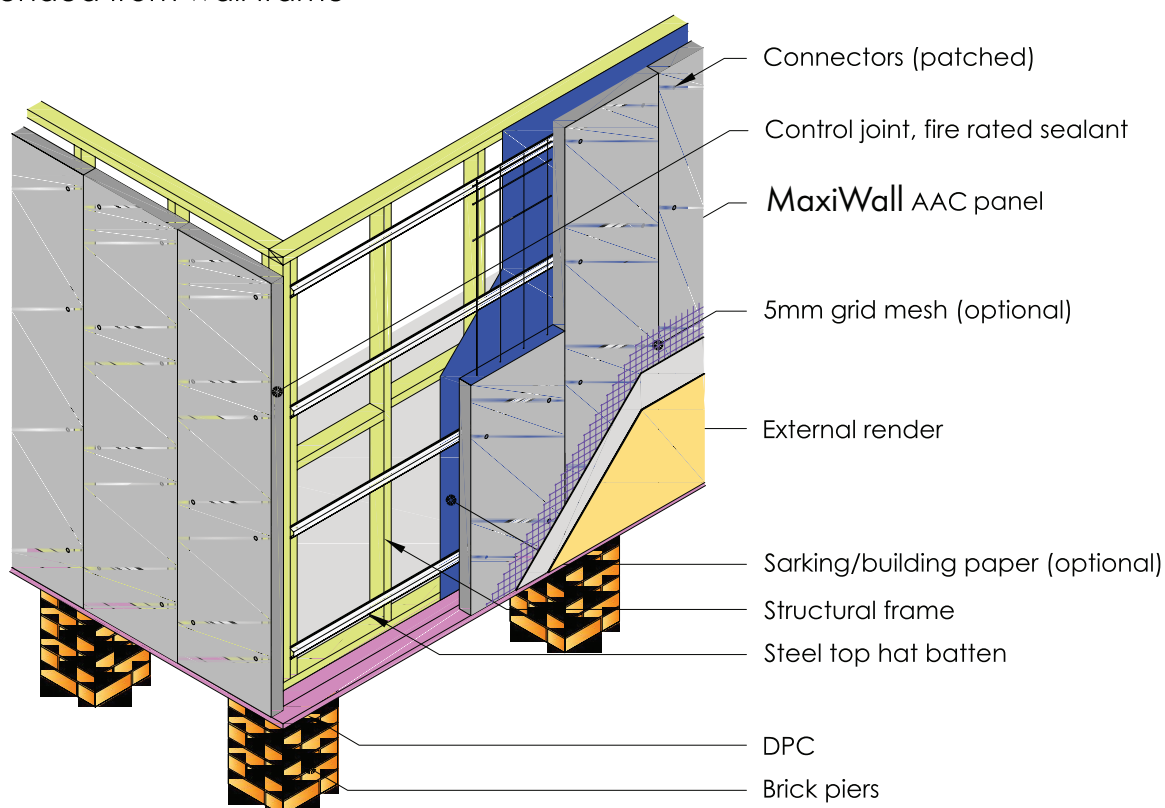
1a

- Panel supported at base



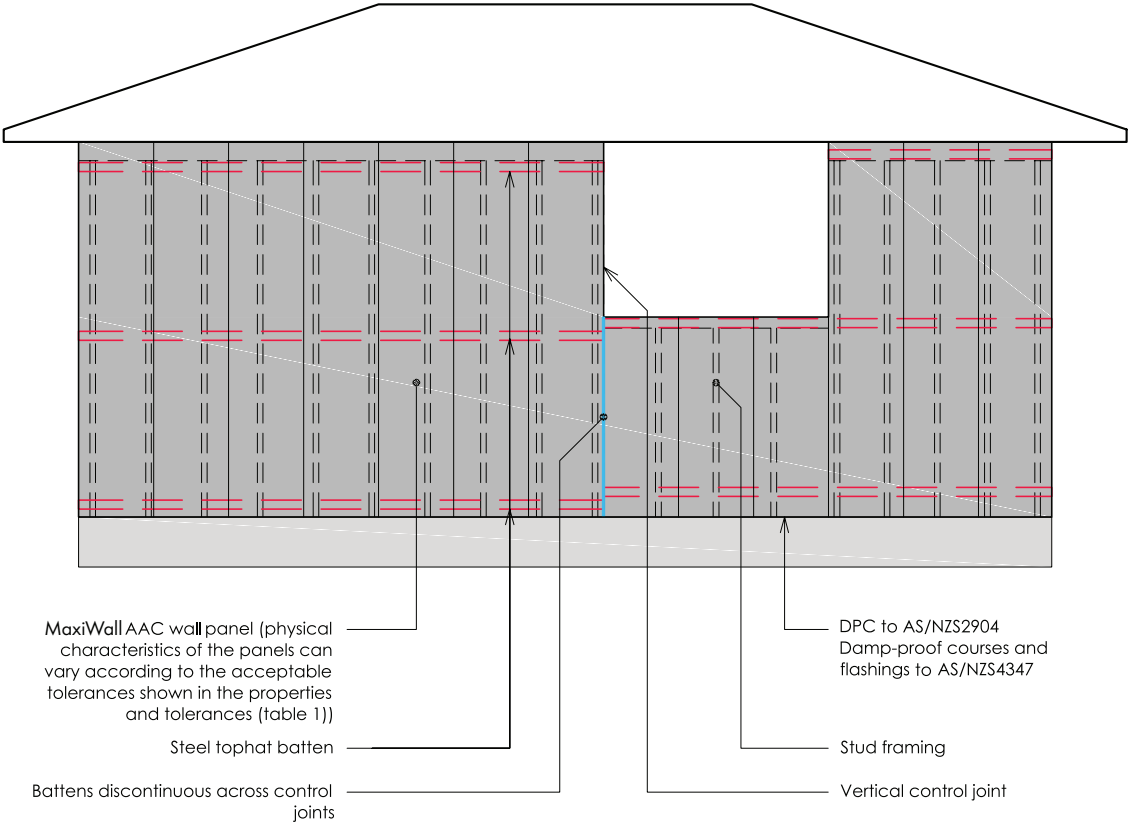
1b

- Panel suspended from wall frame



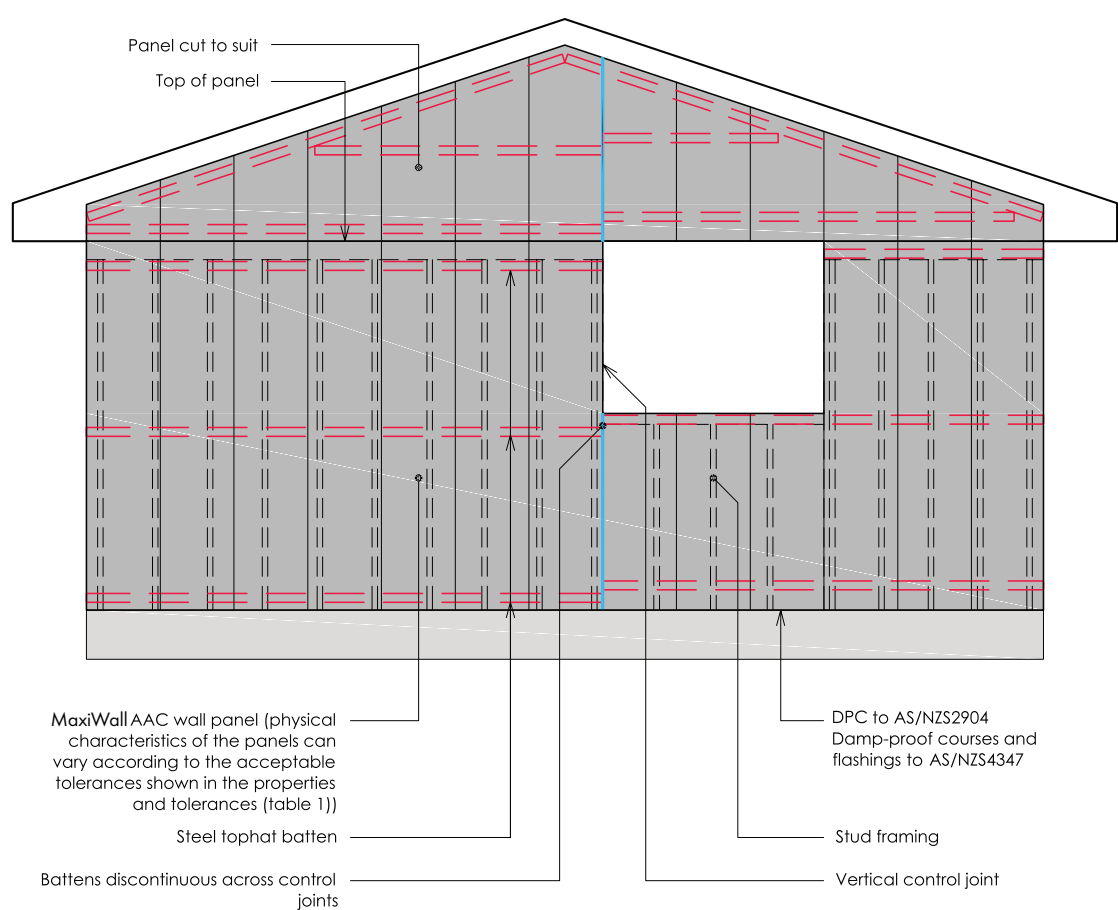
2a Detail Elevation - Single Storey Construction

Hip Roof Elevation



2b Detail Elevation - Single Storey Construction

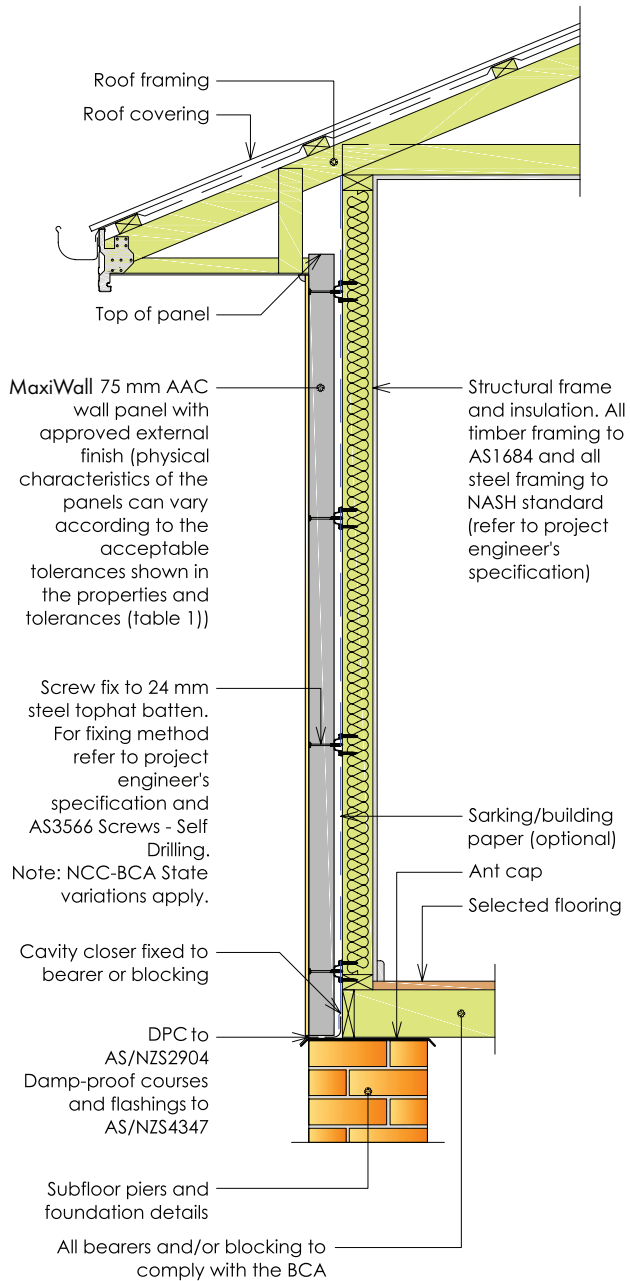
Gable End Elevation



Installation Detail

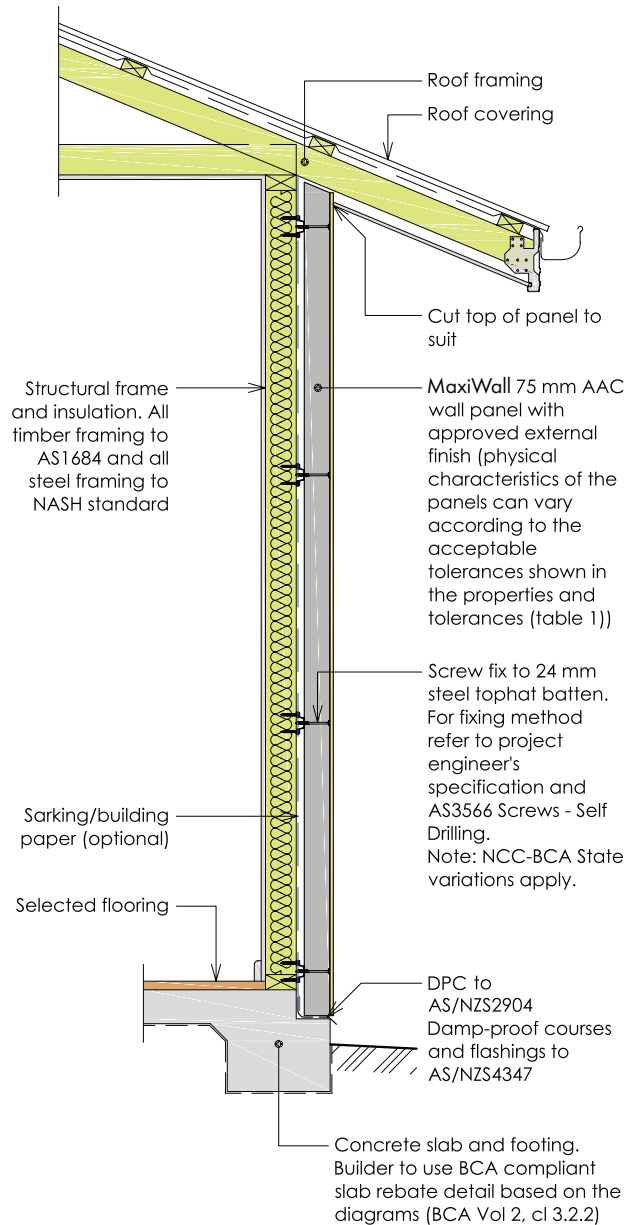
3a - Single storey House Design

Detail section -
Timber frame with suspended floor
Panels suspended from frame



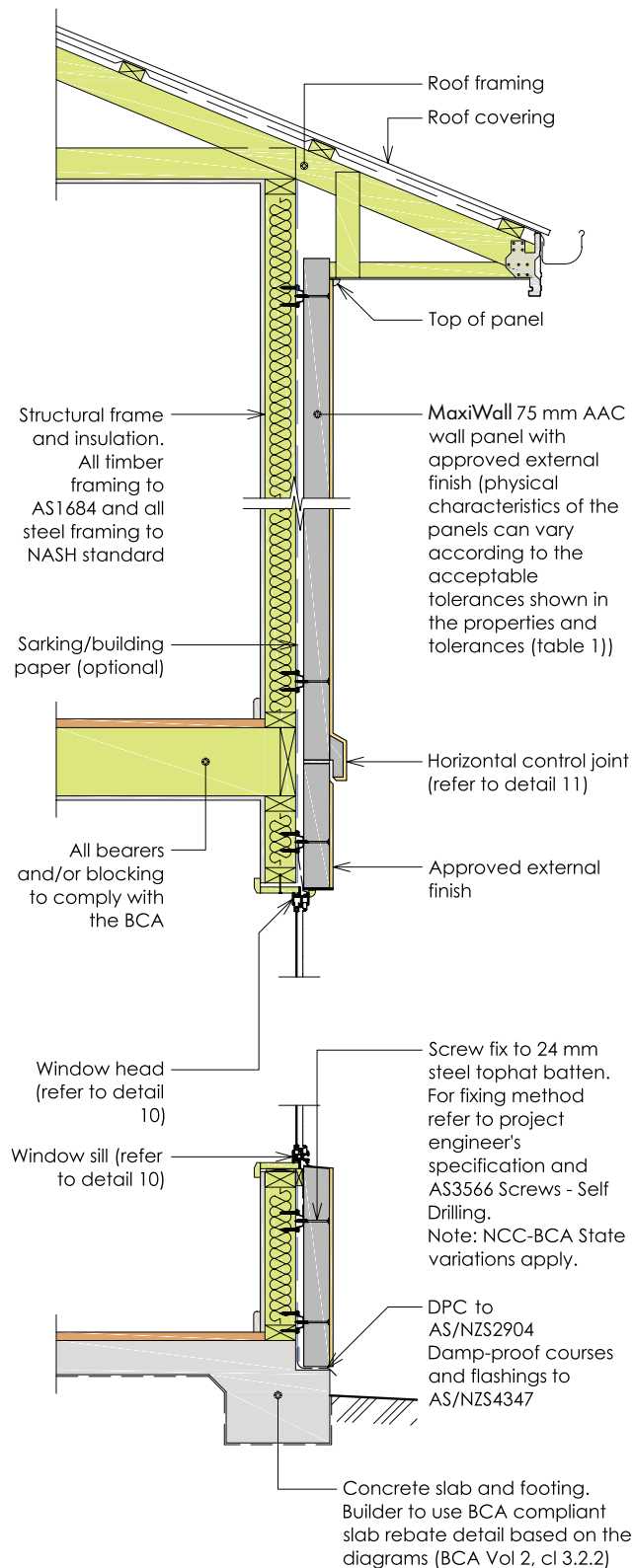
3b - Single storey house design

Detail Section -
Steel frame with in-situ concrete slab
Panels supported on slab



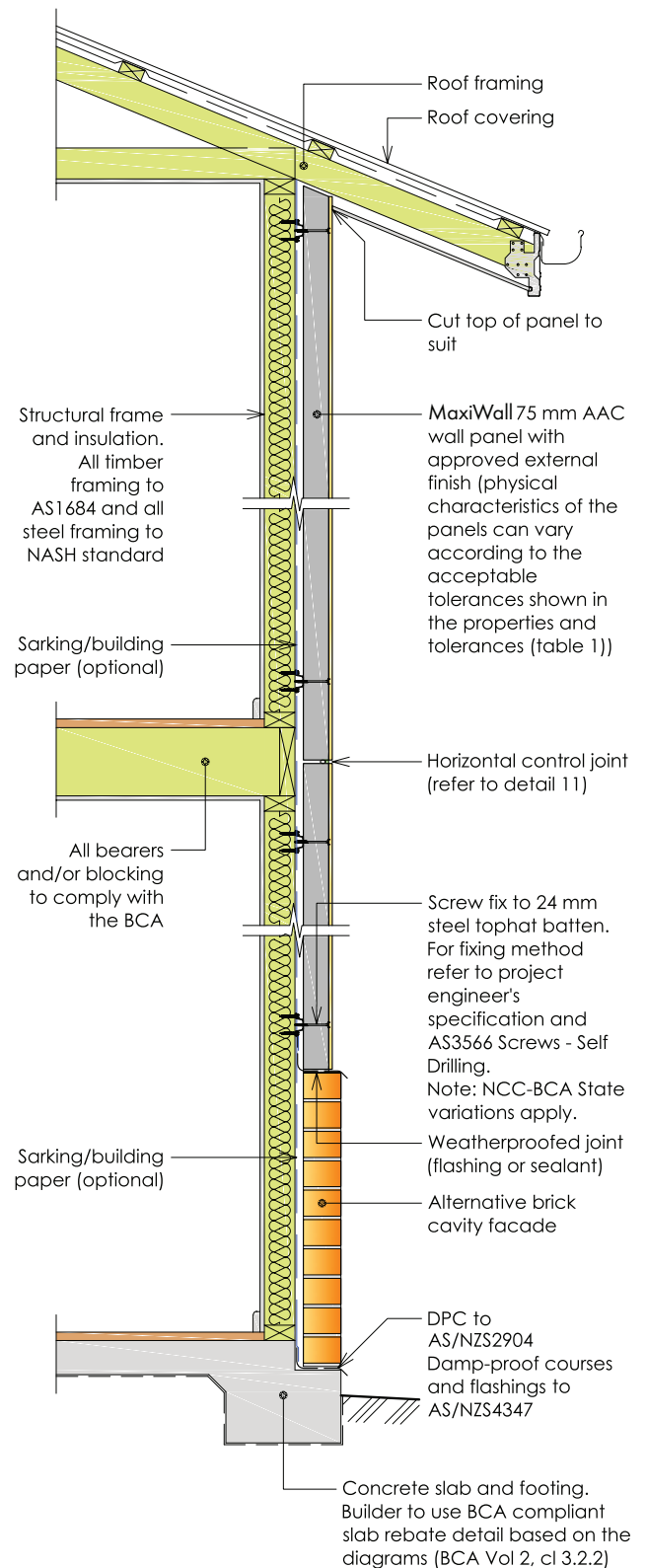
4a Two Storey Design

Typical timber frame section
Window and horizontal control joint



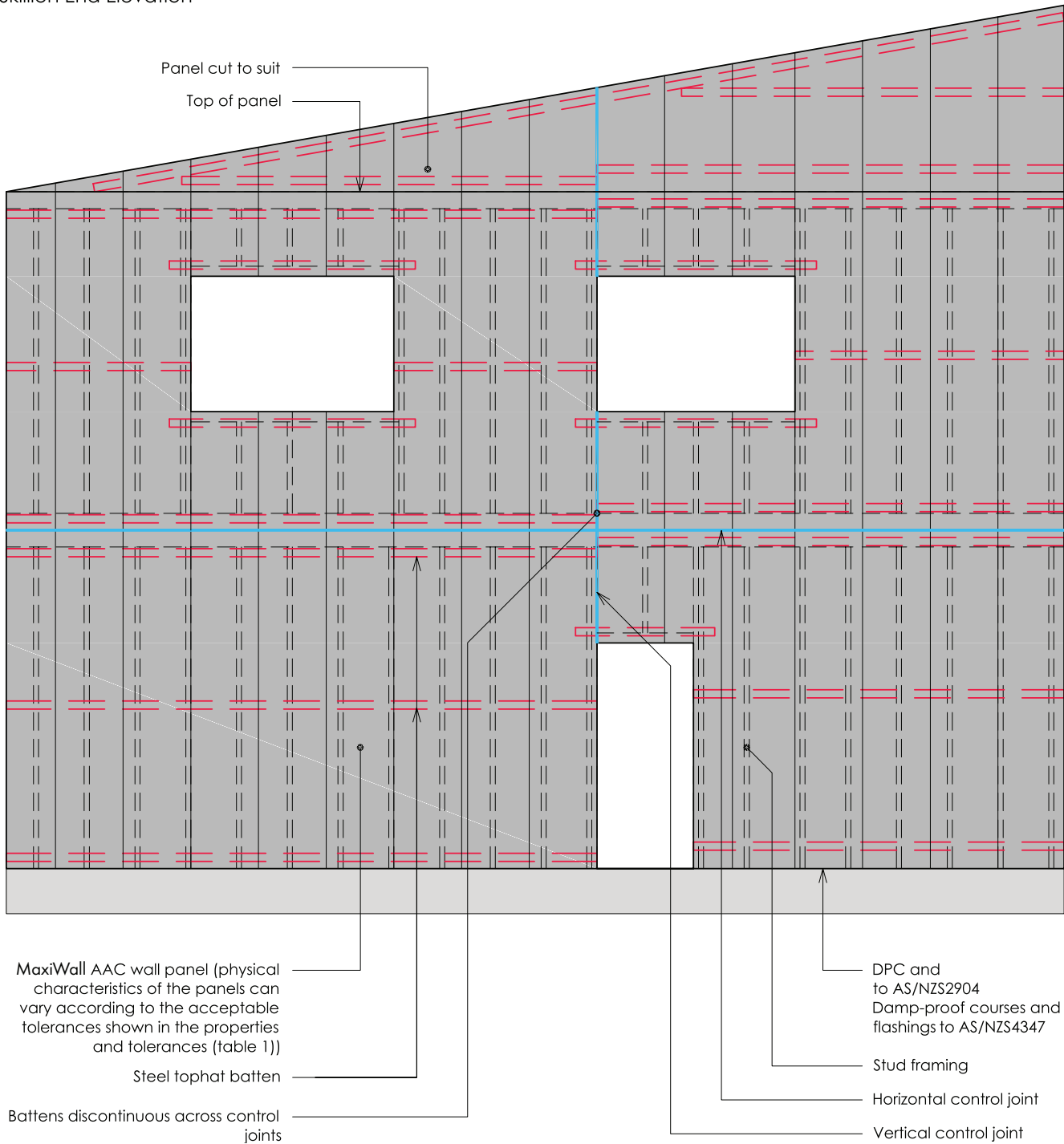
4b Two storey design

Typical steel frame section or engineered timber joists
Decorative facade treatment

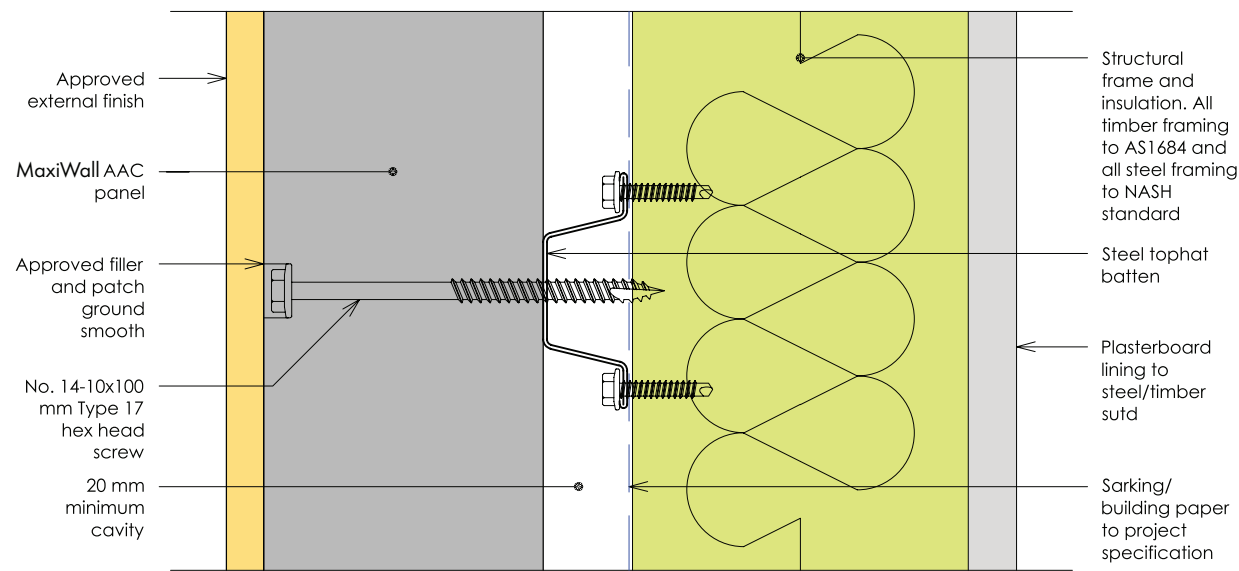


5 Detail Elevation - Two Storey Construction

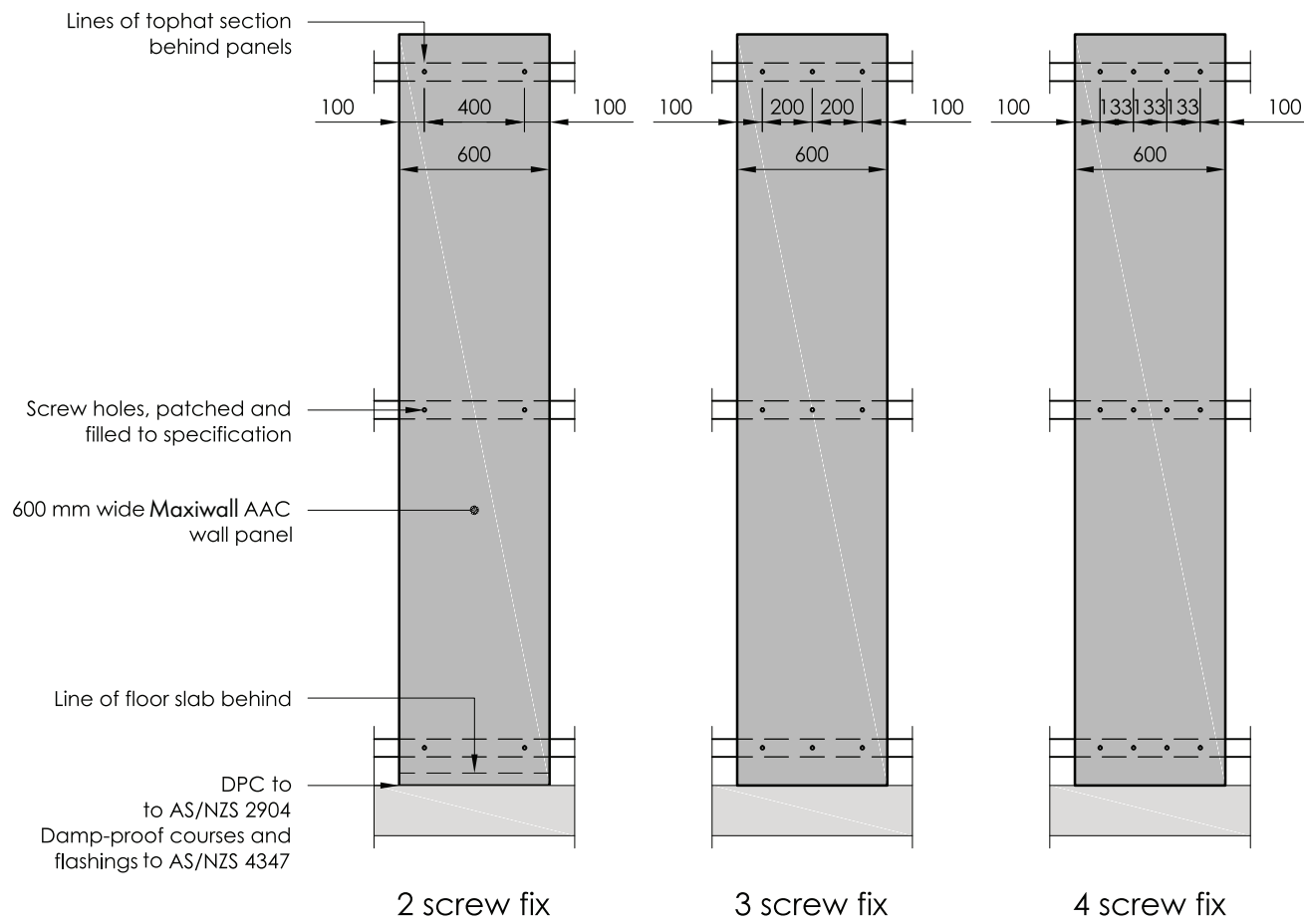
Skillion End Elevation



6a Detail Section - External Wall System Fixing



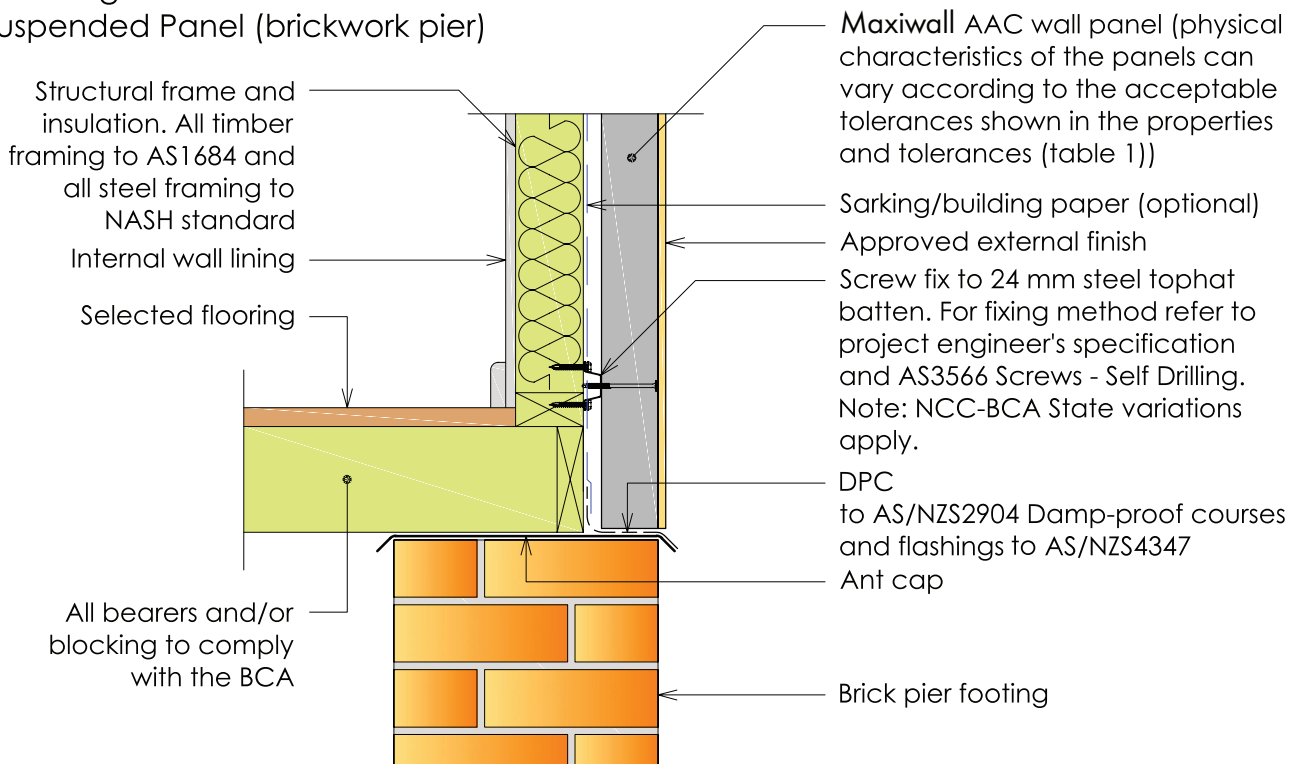
6b Detail Elevation - Screw Layout Drawing



Installation Detail

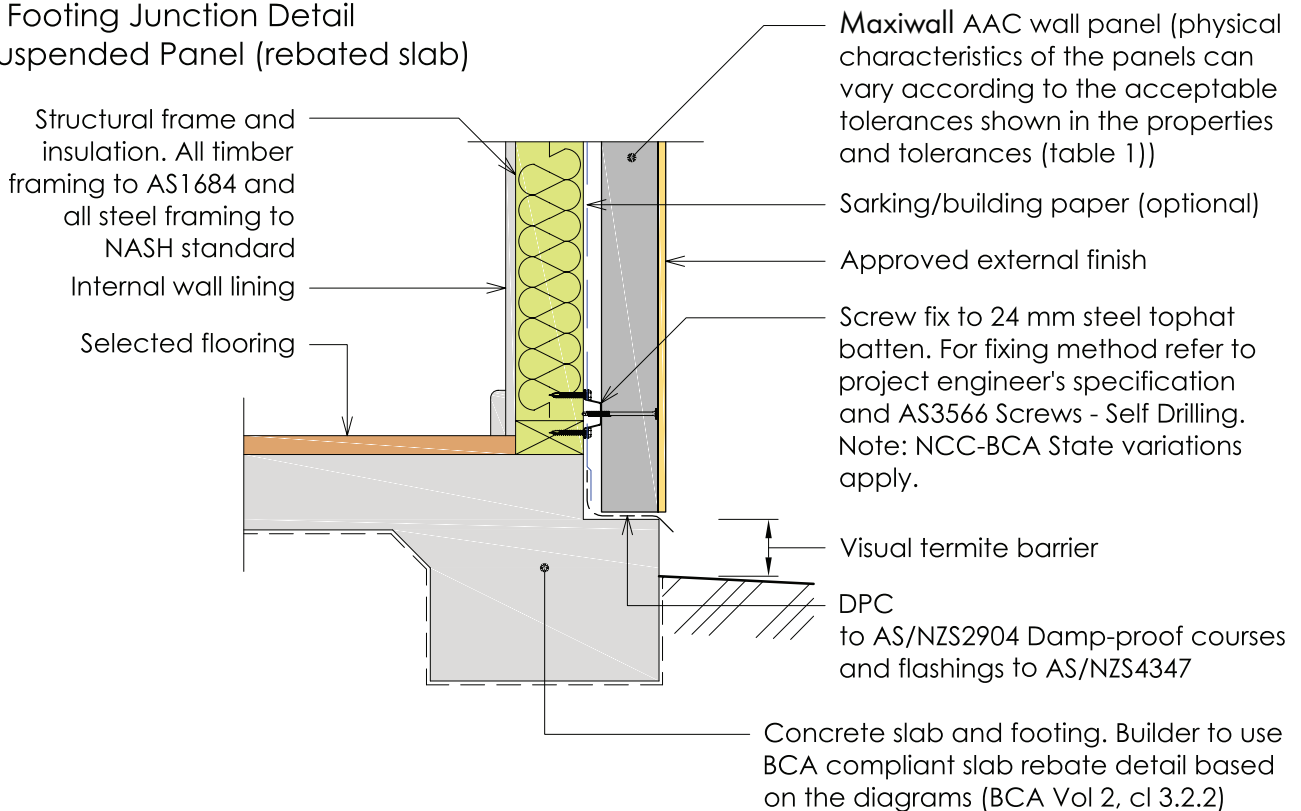
7a Footing Junction Detail

- Suspended Panel (brickwork pier)

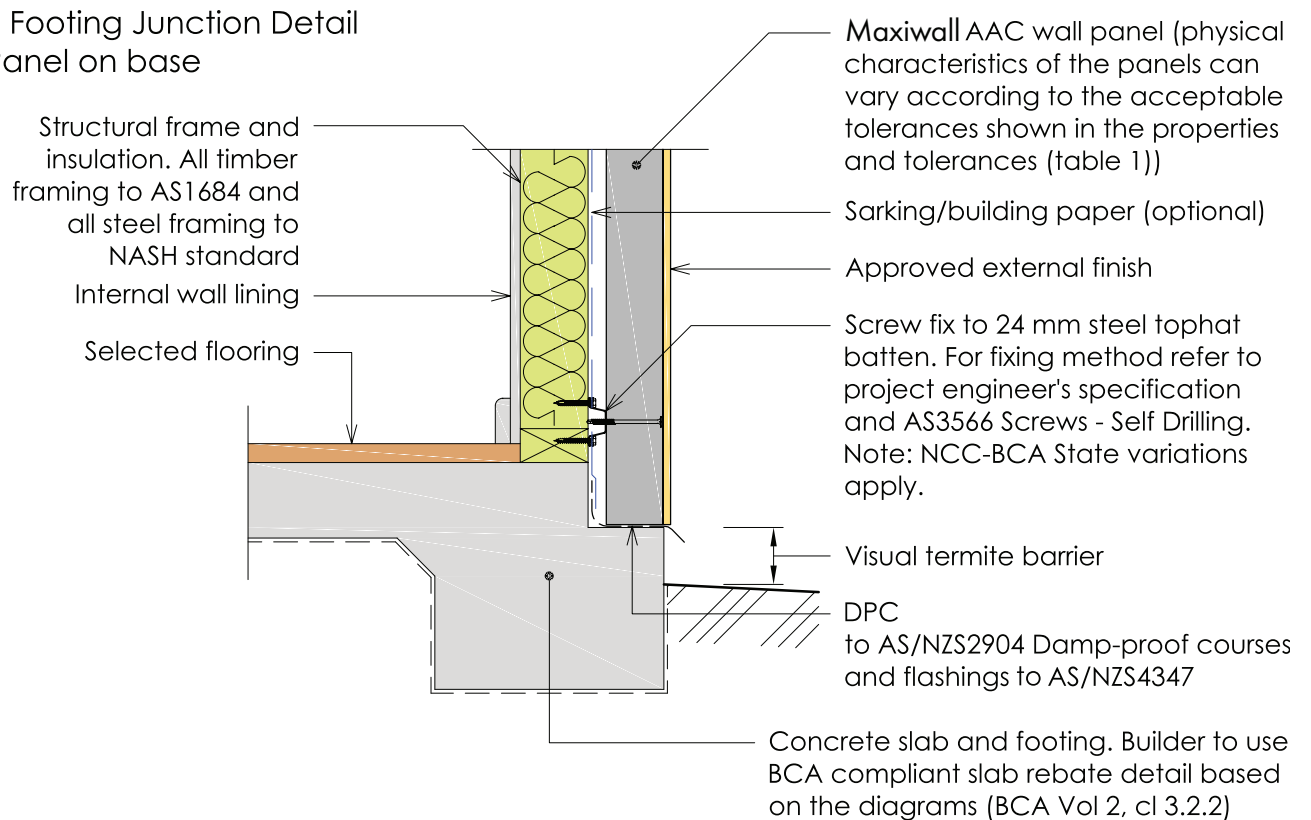


7b Footing Junction Detail

- Suspended Panel (rebated slab)

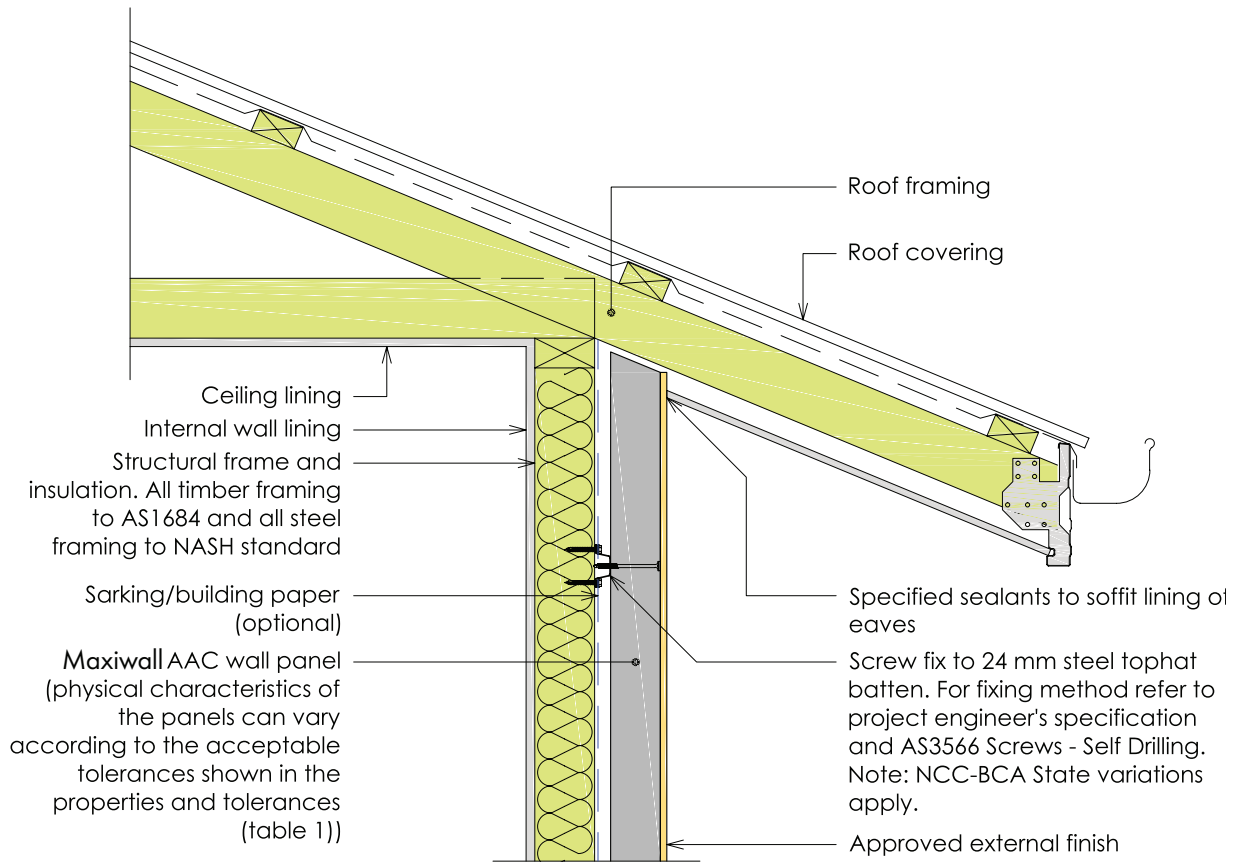


7c Footing Junction Detail - Panel on base

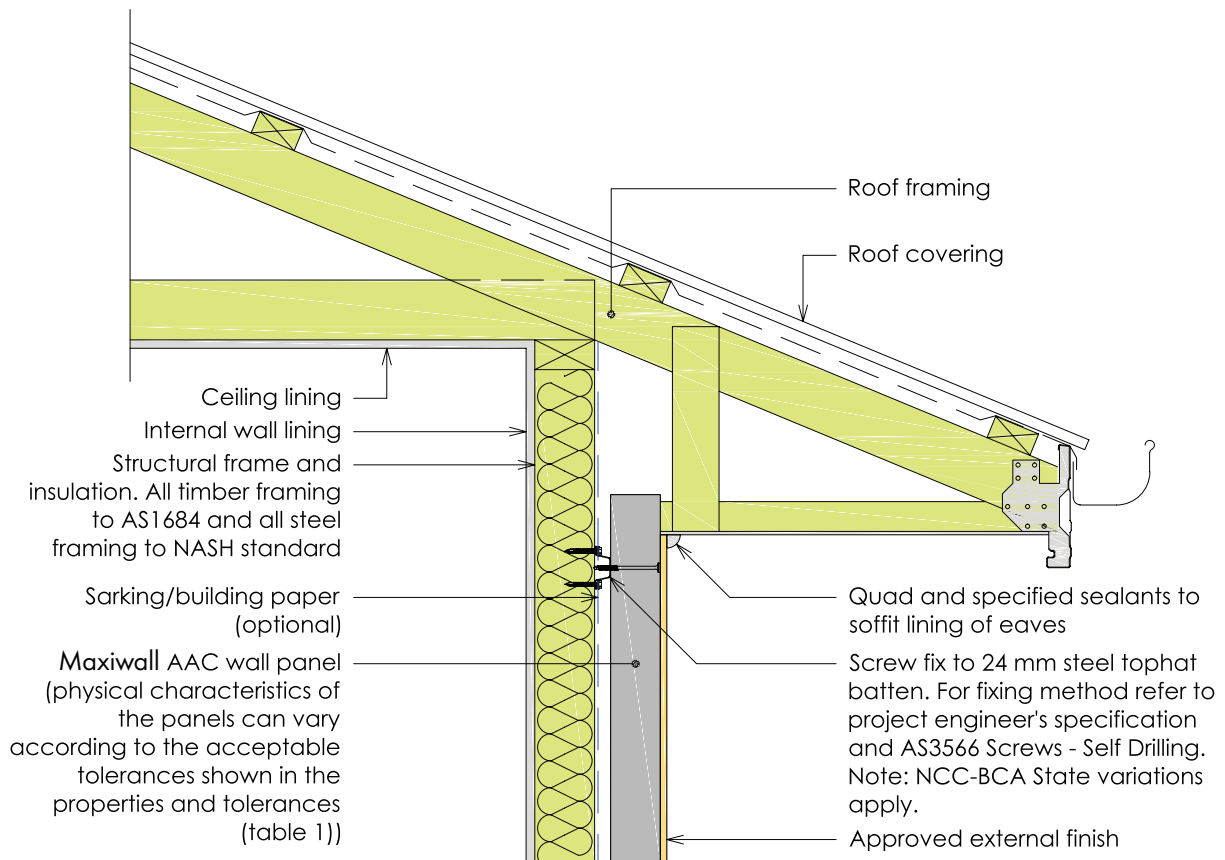


Installation Detail

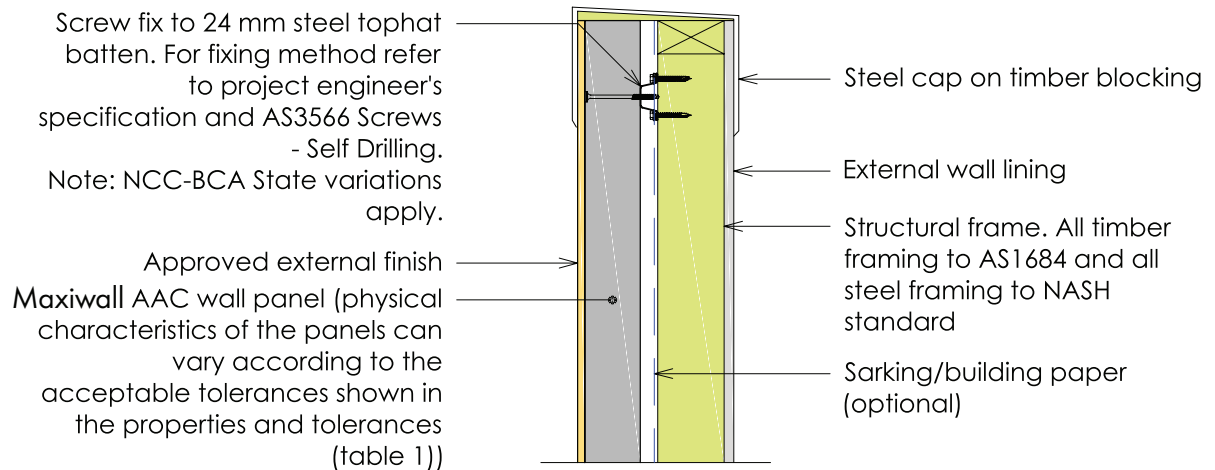
3a - Wall to Eaves Junction Detail
- Panel to Soffit



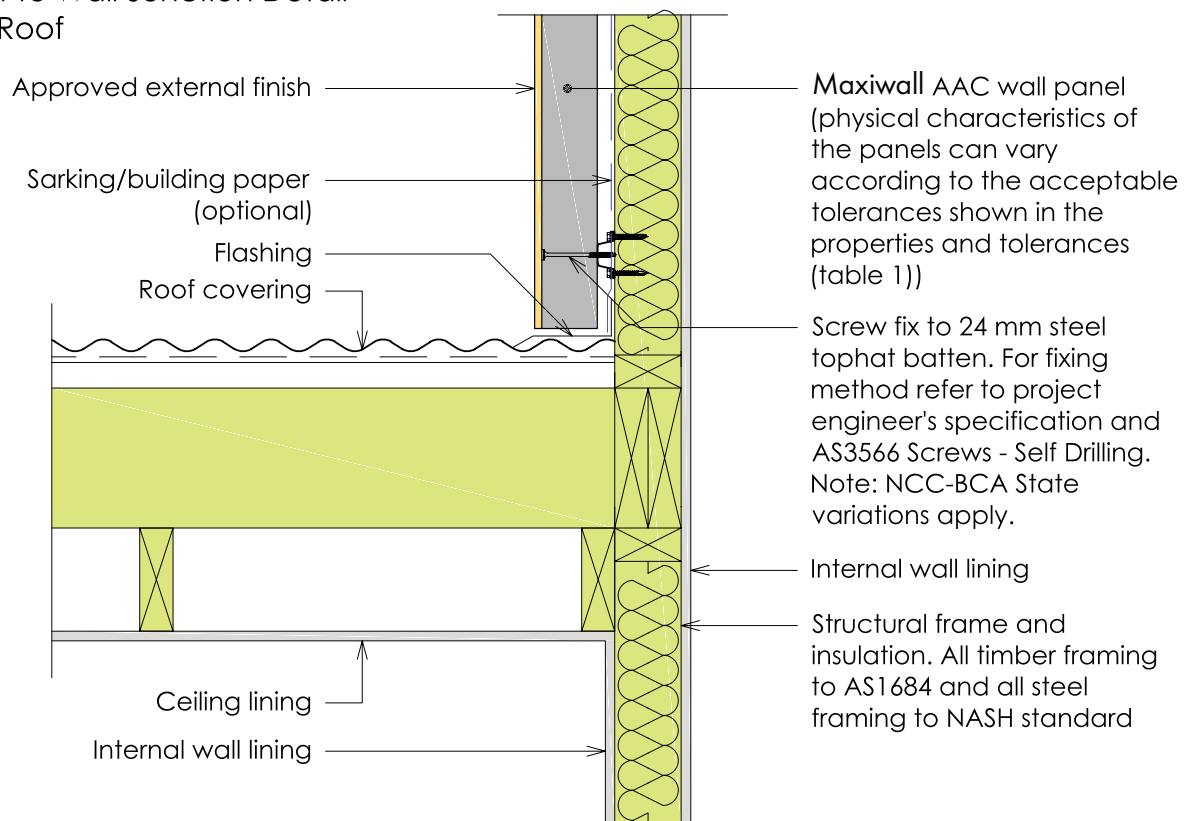
3b - Wall to Eaves Junction Detail
- Panel to Underside of Frame



8c - Roof to Wall Junction Detail - Parapet Capping



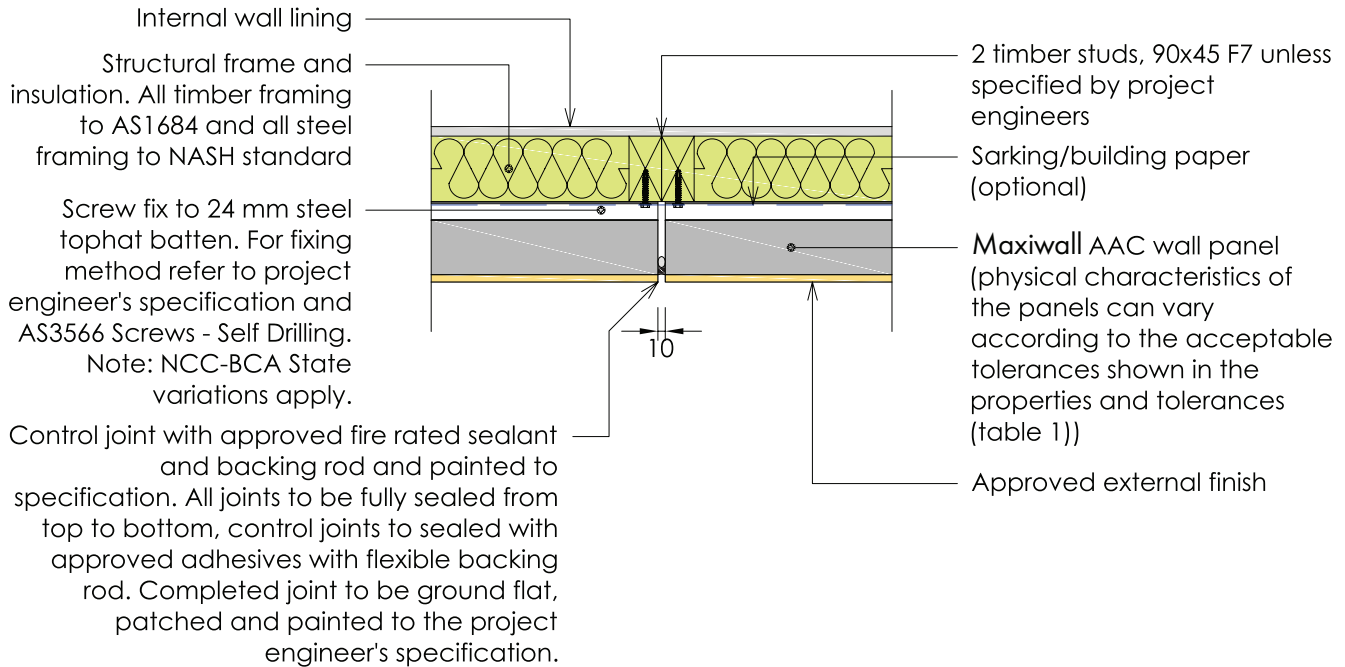
8d - Roof to Wall Junction Detail - Skillion Roof



Installation Detail

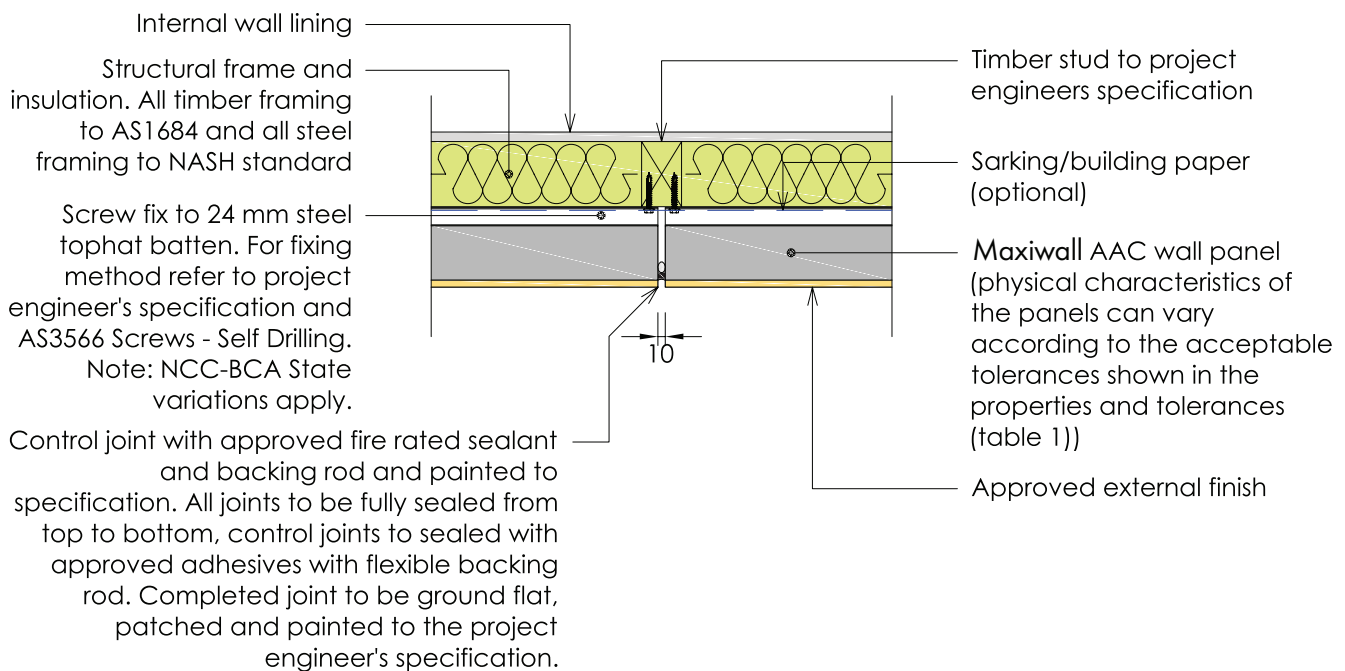
9a - Control Joint to Frame Detail

- Double stud

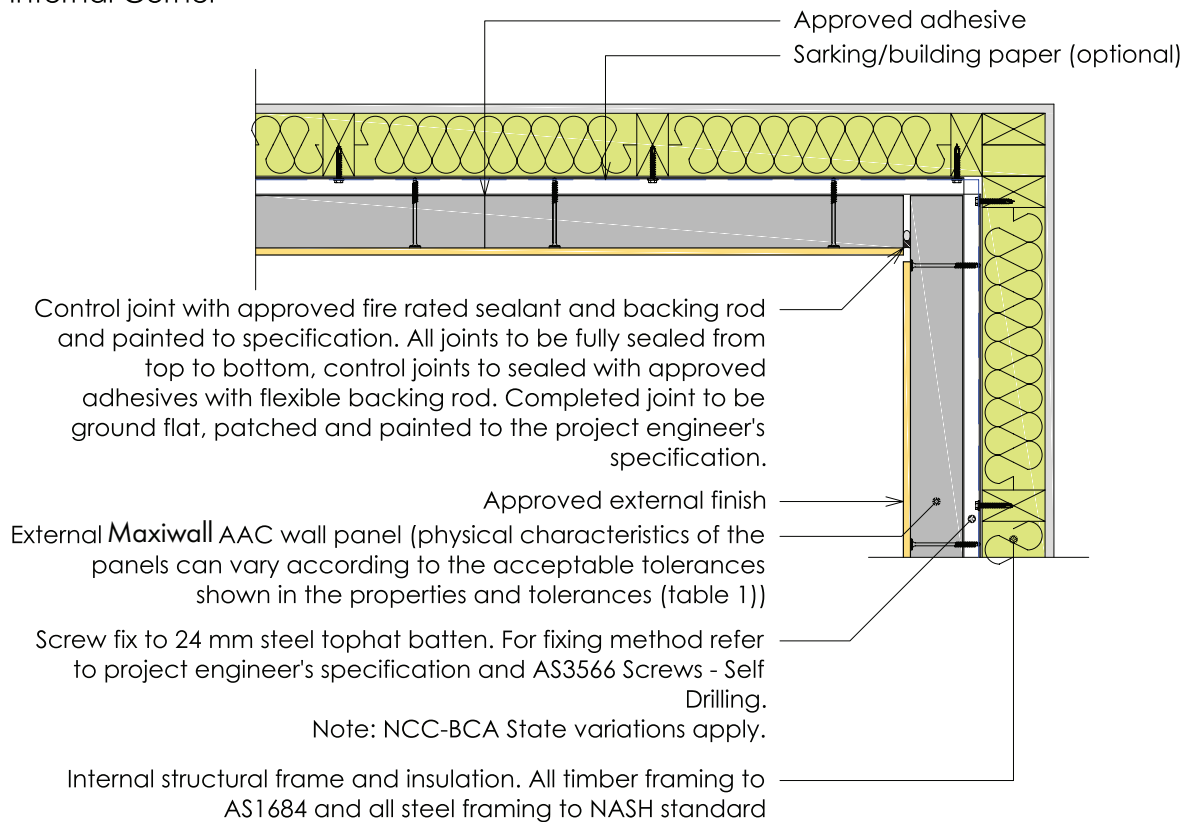


9b - Control Joint to Frame Detail

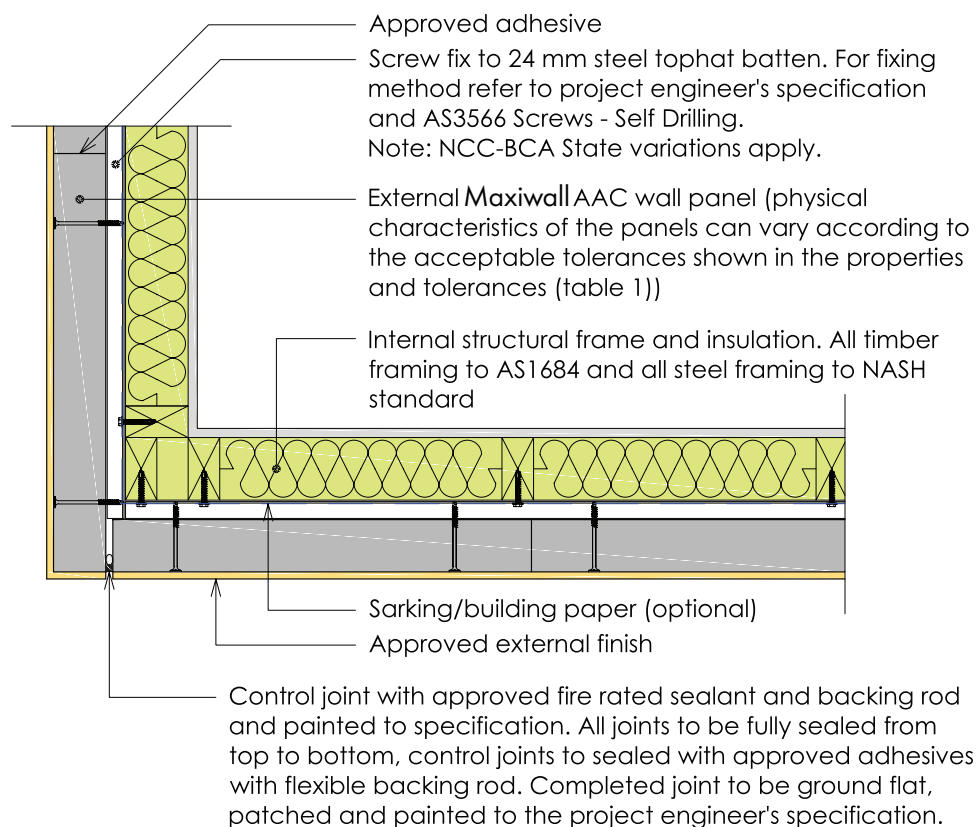
- Single stud



9c - Control Joint to Frame Detail
- Internal Corner

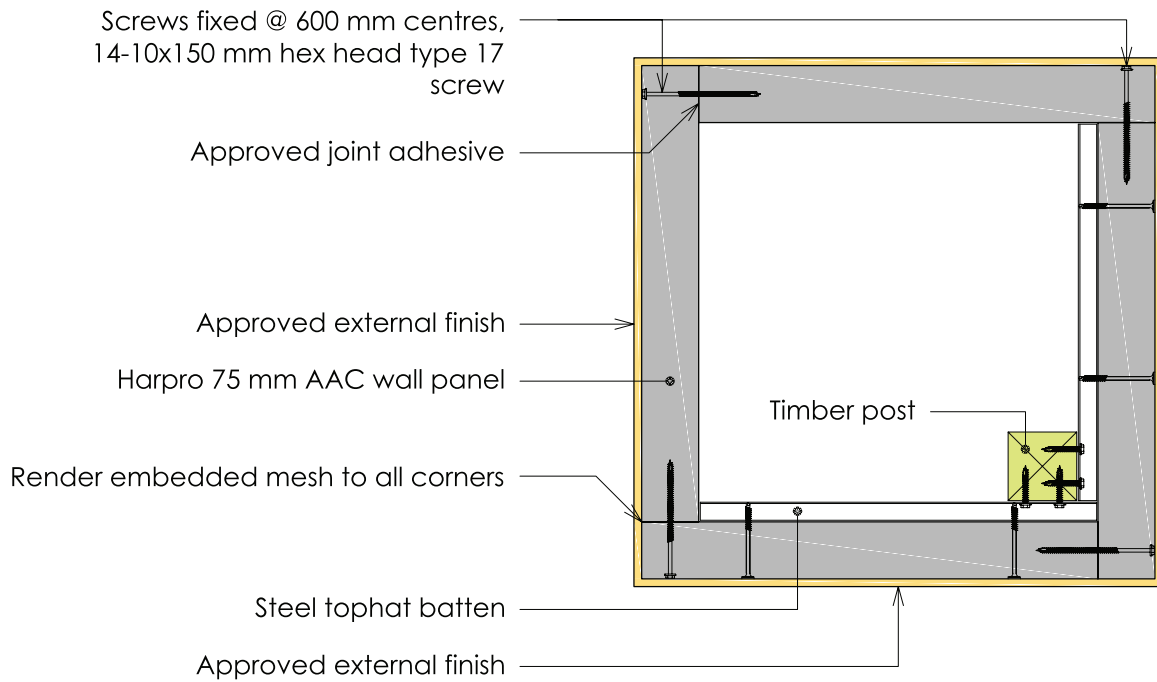


9d - Control Joint to Frame Detail
- External Corner

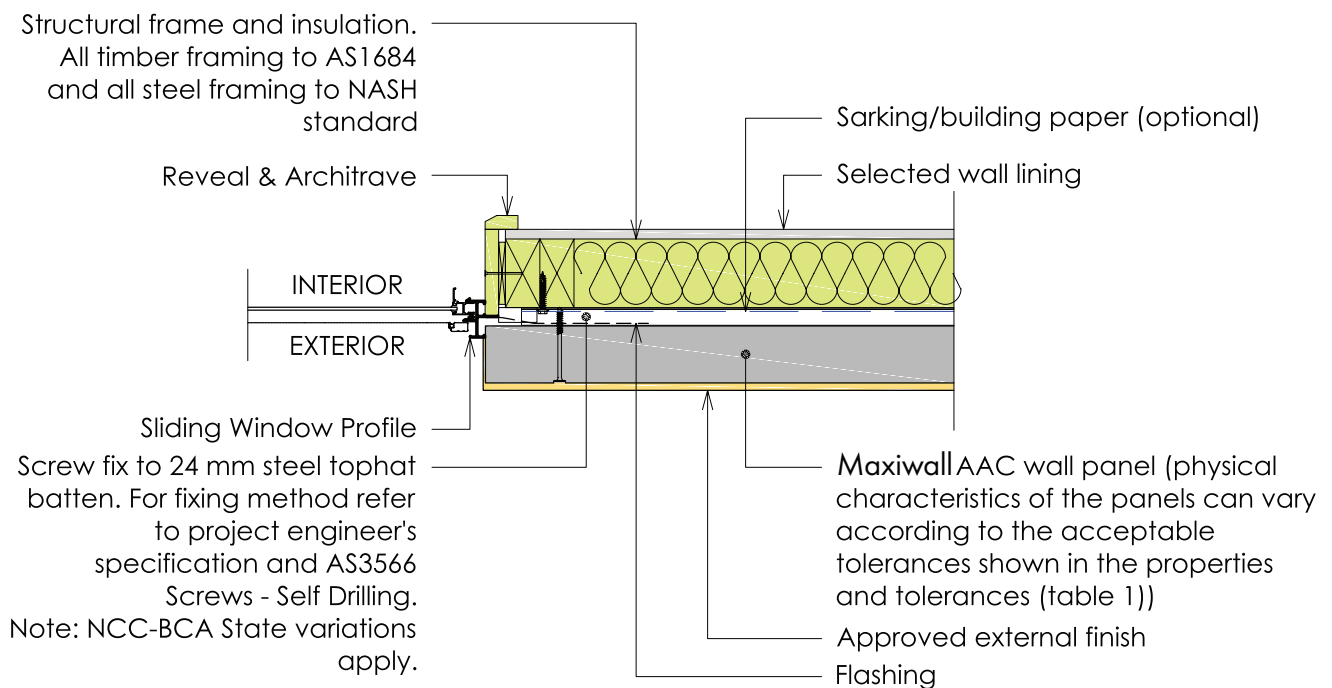


Installation Detail

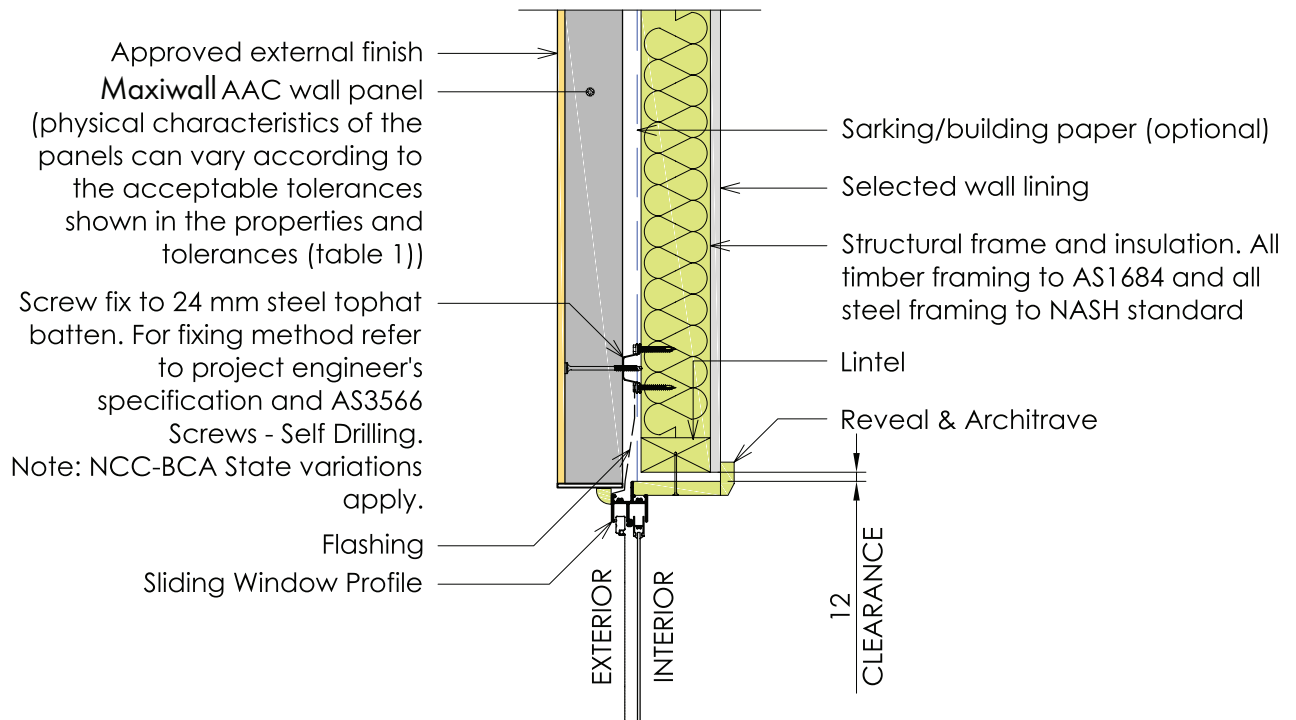
10a - Faux Column Cladding



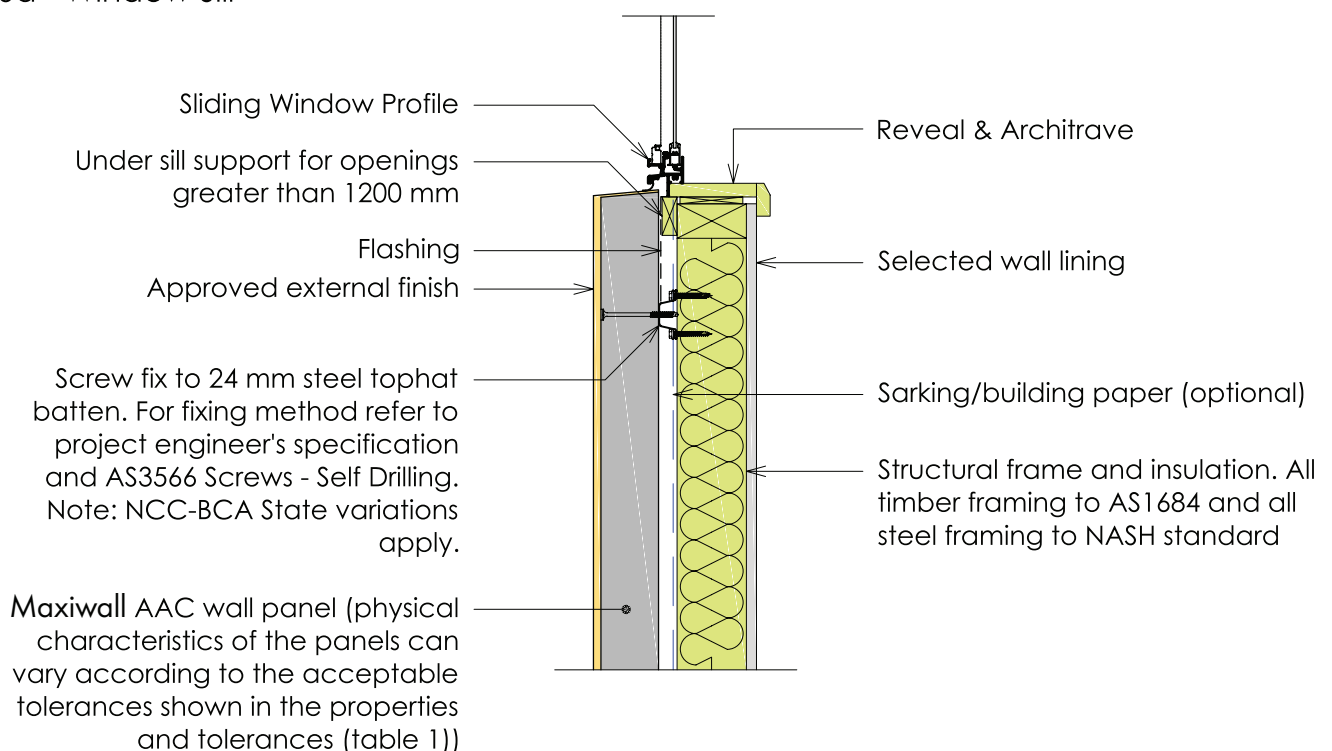
10b - Window Jamb



10c - Window Head



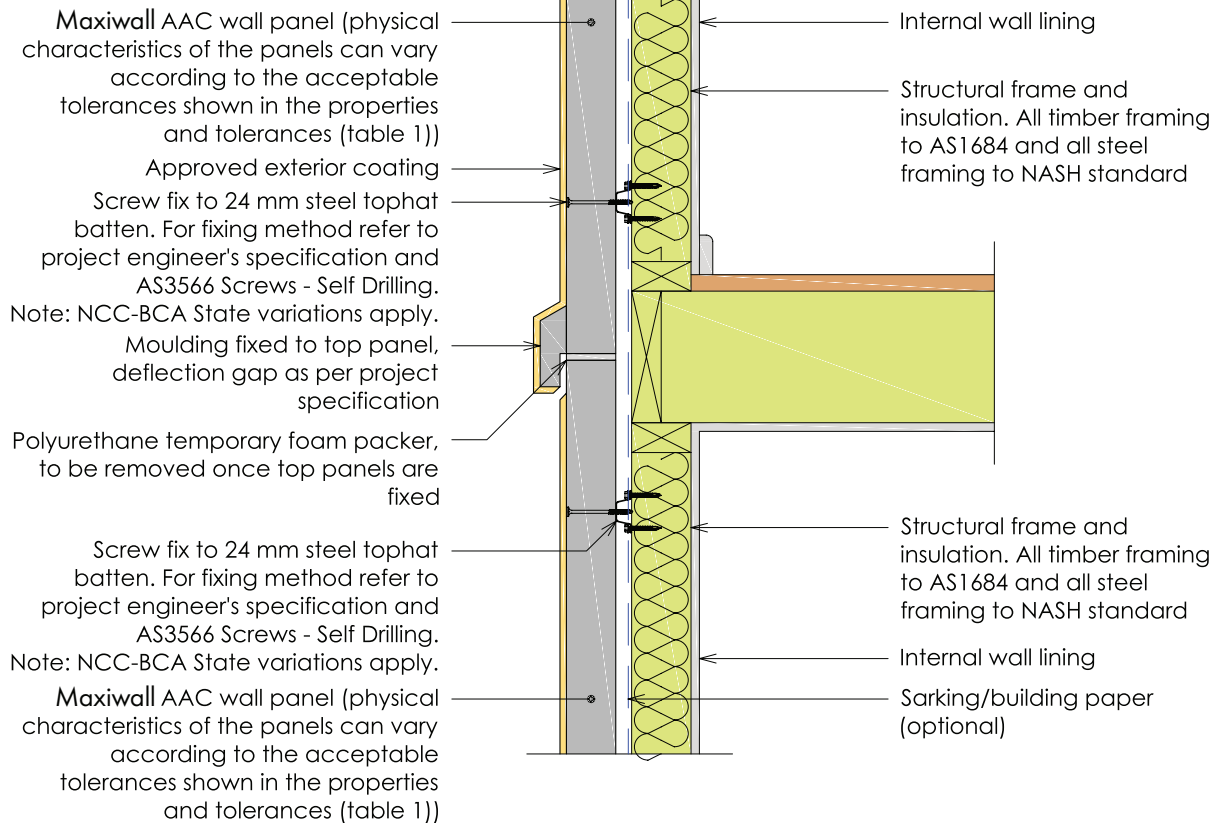
10d - Window Sill



Installation Detail

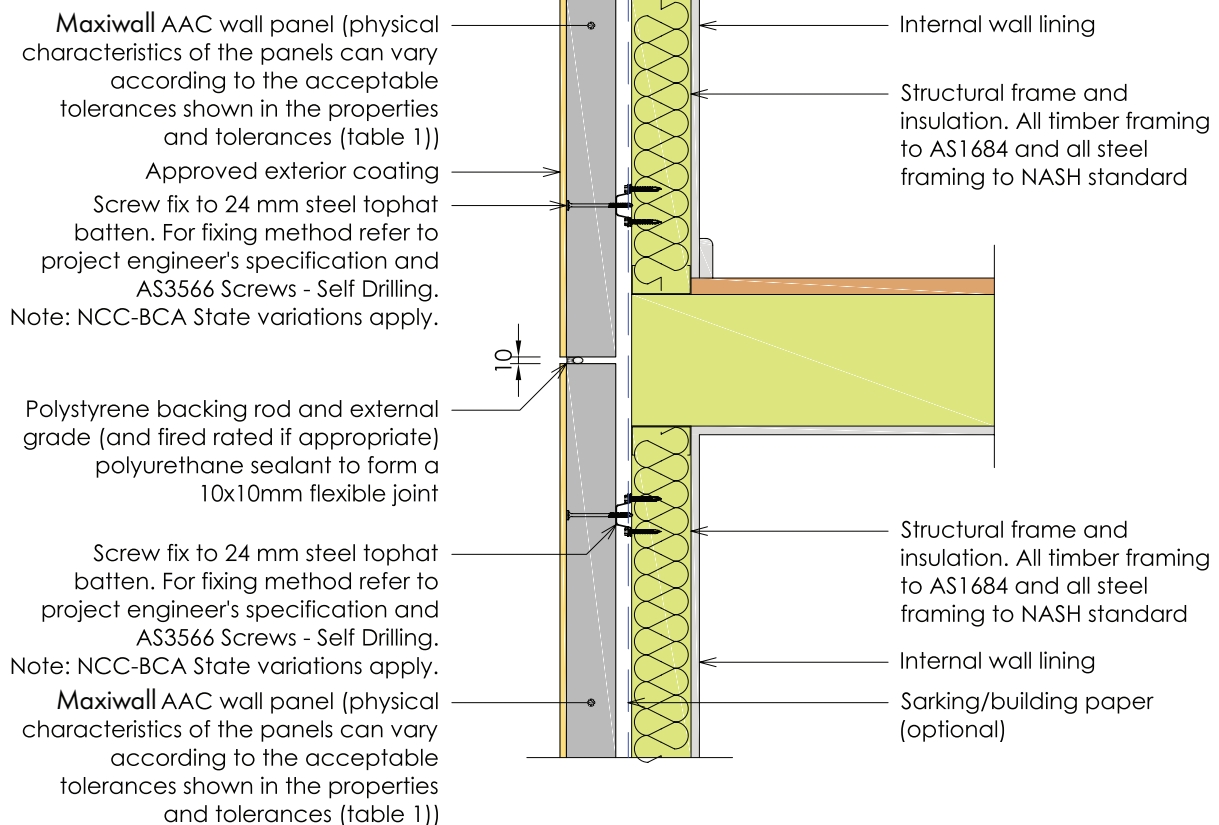
11a - Horizontal Control Joint

- Moulding Finish

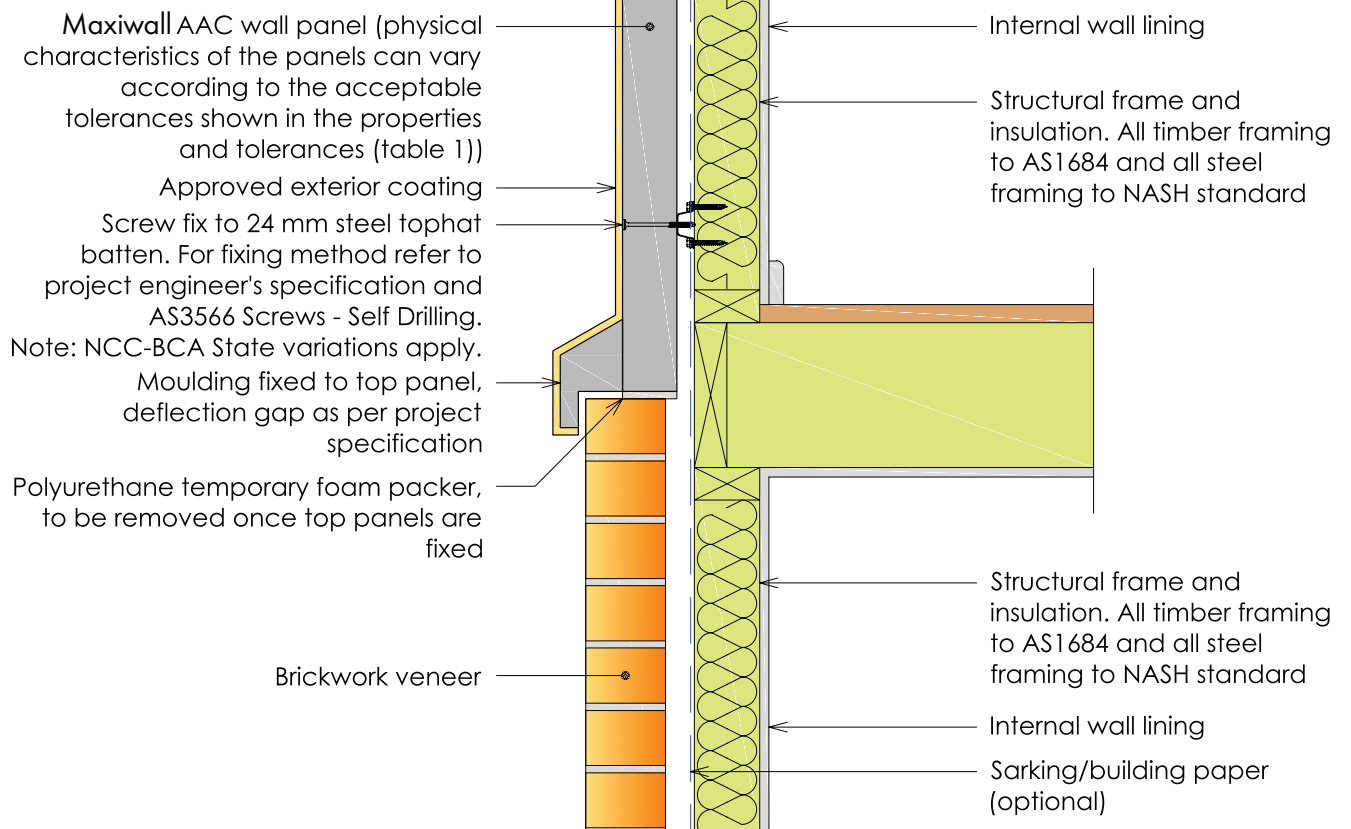


11b - Horizontal Control Joint

- Flush Finish



11c - Horizontal Control Joint - Cavity Brickwork



9.0 Product Declaration

1. Durability & Maintenance

Autoclaved aerated concrete has high porosity and relatively low alkalinity compared to traditional concrete. As a cement-based material, AAC resists water, rot, mold and mildew and can be precisely shaped and conform to tight tolerances when used in building construction.

MaxiWall panels have steel mesh that is coated with corrosion resistant paint applied in a two-dip coat process. If panels are cut apply anti-corrosion paint on the exposed steel. In typical applications the completed external wall system with moisture proof sealed joints is protected from moisture ingress with an external surface coating. Where there is significant and prolonged exposure to moisture a waterproof tanking membrane must be applied to the panel surface.

Acid, certain salts and acidic gases can attack AAC and therefore special treatment and attention is required for applications subject to these conditions.

2. Fire Resistance

A Certificate of Conformity issued by Ignis Solutions Pty Ltd supports the performance of MaxiWall panels in low-rise external wall system applications complying with the requirements of the National Construction Code, Volume 2 – BCA Housing Provision 3.7.1.3. The wall system is applicable in situations where a Fire Resistance Level (FRL) of not more than 60/60/60 minutes is required. If an FRL in excess to what is stated herein is required please consult a design and building construction professional, as there are certain performance requirements that must be complied as outlined in the BCA.

3. Energy Efficiency

There are BCA requirements for energy and efficiency. BCA ratings depend on the type of construction and the building class and this can vary with each state and different parts in Australia. A total R-Value or resistance rating is the sum total of the R-Values of each of the building components. The higher the required Total R-Value the greater the insulation provided. Table 3 – Energy Efficiency Performance below shows the performance of the sample construction illustrated in this manual.

The main advantage in using MaxiWall panels for external wall systems is in its excellent insulation properties with improved thermal efficiency that reduces the heating and cooling loads in buildings. For cooler climates the efficiencies can be obtained by ensuring an appropriate mass, efficient thermal insulation and control of air tightness of the construction. For warmer climates thermal insulation and air tightness is more important. Polystyrene isolation strips between top hat and the panel can reduce thermal bridging. It is the responsibility of the design and building construction professionals to ensure that the insulation material selected and installed complies with AS/NZS4859.1.

Table 3. – Energy Efficiency Performance

MaxiWall System	System Description	Total R-Value (m ² /K-W)	
		Winter	Summer
443w01	75mm MaxiWall panel – 70mm studs + semi reflective wrap + R1.5 insulation	R2.94	R2.72
443w03	75mm MaxiWall panel – 70mm studs + unreflective wrap + R2.0 insulation	R2.98	R2.78
443w04	75mm MaxiWall panel – 70mm studs + semi reflective wrap + R2.0 insulation	R3.47	R3.21

4. Acoustic Performance

There is no sound transmission performance requirement for external wall systems in the BCA. Where there is need for a specific requirement, such as local council regulations or for a particular purpose, the MaxiWall panels are expected to meet the acoustic properties listed in Table 4 – Sound Transmission Performance.

Acoustic performance of MaxiWall panels may be impacted if standard installation configurations shown in this manual are changed, such as increasing cavity widths or use of interior wall linings of a higher density and installation of thicker insulation products or plasterboard. A specialist acoustic consultant should be engaged if the project requires non-standard sound transmission performance.

Table 4. - Sound Insulation Performance

Wall System	Description	Rw	Rw + Ctr
MaxiWall Panel System 1	10mm plasterboard 90mm timber stud Single side reflective foil sarking 25mm top hat 75mm MaxiWall panel	42	35
MaxiWall Panel System 2	10mm plasterboard 90mm timber stud R2.0 glasswool batts 25mm top hat 75mm MaxiWall panel	46	39
MaxiWall Panel System 3	10mm plasterboard 92mm steel stud R2.5 glasswool batts 35mm top hat 75mm MaxiWall panel	53	47

5. Quality Assurance

Quality is important to our business. We strive to provide our customers with products and systems that meet and exceed their expectations. The manufacturing operations and quality assurance of MaxiWall panels have been independently audited and certified to meet the requirements of the ISO 9001:2008 Quality Management Systems.

MaxiWall panels used in the external wall systems for low-rise multi-residential buildings and houses are specifically developed to combine performance attributes for structural capacity, fire resistance and acoustic insulation. Subject to the conditions and exclusions set out under the MaxiWall Warranty Statement, ATBS warrants that the MaxiWall panels sourced from its manufacturing partners are free from defects in materials and manufacture.

6. Sustainability

Autoclaved aerated concrete offers sustainability in terms of material and performance. It uses approximately onequarter of the concrete raw material and incorporates large quantity of air resulting in fewer raw materials used per square meter than many other building materials. It also has superior insulation properties compared to concrete and conventional masonry and is about one-fifth of the mass of concrete. The air-tightness in the system creates an energy efficient envelope and prevents unwanted air losses compared to conventional frame construction thus reducing energy use.

10.0 Coating & Weatherproofing

1. Durability & Maintenance

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11.0 Material Handling

Panel Unloading

MaxiWall panels are shipped in packs of 10, stacked on the longitudinal edge. The packs are strapped to strengthened timber pallets and are wrapped in resilient plastic sheeting. Crane slings and forklifts may be used in accordance with standard industry practice. The Project Engineer is cautioned regarding the initial delivery of the panel packs that should be unloaded as close as possible to the installation area. Secondary handling of the panels increases the risk of damage, and installation of damaged panels may void the warranty.

Storage & Protection

MaxiWall packs, when on construction site must be stored on a flat-grade level that is not prone to standing water, erosion or settling. It must be left on its edge to avoid sagging. The packs may be stacked up to 3 packs high on flat load-bearing stable platform so far as is reasonably practical and safe for workers and others. The packs should not be stacked if stored on un-level and natural ground.

MaxiWall panels should ideally be kept dry with attention paid to protecting panel ends, edges and surfaces. In adverse weather conditions the panels must be kept covered. Do not “shake-out” stored panels until they are ready to be installed. Excessive handling may cause damage. MaxiWall panels with a central single layer of reinforcement and length over 1800mm are at risk of cracking under their self-weight when carried or lifted from the horizontal or tilted from the vertical position. Adequate support must be provided when lifting. Panels must always be carried edge up. Lifting equipment must be used when necessary.

Most chipped corners and edges can be repaired with MaxiWall's approved patching compounds. If reinforcing steel mesh is visible it must be protected using the approved touch-up paint. Panels that have surface or minor cracks are usable but if not sure contact your MaxiWall sales representative.

Health & Safety

Safety Data Sheets (SDS) will be provided with all MaxiWall panels including major components associated with the system such as coatings, patching compound, thin-bed adhesive and reinforcement touch-up paint. MaxiWall products contain Crystalline Silica (Quartz) that as dust is produced during cutting, grinding or drilling. It is categorized as a health hazard when inhaled. Approved dust mask and protective safety glasses or goggles must be worn for dust generating operations.

MaxiWall products are to be handled and worked on-site with the appropriate protective clothing. Protective gloves must be used for all construction operations. It is the responsibility of the builder/site supervisor to ensure that installation contractors adhere to safe work practices and suitable clothing.

12.0 Material Property

Table 5. - MaxiWall Panel Physical Properties & Tolerances

No.	Description	Characteristics	Specifications
1	Dimensional tolerance	Length Width Thickness	$\leq \pm 3.0$ mm $\leq \pm 1.5$ mm $\leq \pm 2.0$ mm
2	Physical	Dry density Working Density	≤ 510 kg ≤ 675 kg
3	Strength	Compressive strength Modulus of rupture	≤ 3.50 Mpa ≤ 0.75 Kpa
4	Acoustic	Weighted sound reduction	34 dB
5	Thermal	Thermal resistance value (R-value)	0.6
6	Steel mesh	Position from center of panel	± 3.0 mm

Table 6. - Wall System Thickness Comparison

Wall Systems	Wall element width (mm)			Total width (mm)
	Stud	Cavity	Masonry leaf	
Brick veneer	70	40	110	220
MaxiWall panel	70	24 - 35	75	169 - 180
Brick veneer	90	40	110	240
MaxiWall panel	90	24 - 35	75	189 - 200

Table 5. - MaxiWall Panel Physical Properties & Tolerances

Length (mm)	Description	Characteristics
1200	36	397
1800	54	595
2200	66	728
2400	72	794
2550	77	845
2700	81	900
2850	86	943
3000	90	992
Thickness 75mm, Width 600mm		

13.0 Standard & Compliance

Appendix A

No.	Standard Compliance	Characteristics
1	BCA Vol. One 2014: BP1.1 (a). (b) i, ii, iii	For non-load bearing internal wall systems for high-rise residential and commercial buildings.
2	BCA Vol. One 2014: Specification C1.1	External attachments to fire resistance level of up to 60/60/60 including SA state variation C1.1 (a) (v).
3	BCA Vol. One 2014: FP1.4	Applicable to prevention of water penetration of external walls.
4	BCA Vol. One 2014: FP5.5	For non-load bearing walls, including NT state and territory variations.
5	BCA Vol. One 2104: Part J1.5	R-values vary with installation configurations and must satisfy achievement of minimum R-values for the stated climate zones. Refer to manufacturer's specification and Table J1.5a.
6	BCA Vol. Two 2014: P2.2.2	Applicable to prevention of water penetration of external walls.
7	BCA Vol. Two 2014 P2.3.4	For external walls including TAS state variations for AAC panels. Due consideration should be given to fire resistance of other components used in construction.
8	BCA Vol. Two 2014 P2.4.6	For non-load bearing walls, including NT state and territory variations. Acoustic performance of wall panel system is dependent on construction of wall system. Refer to manual for guidance.
9	BCA Vol. Two 2014 P3.7.4	For external walls including NSW, QLD, SA and TAS state variations for AAC panels. Due consideration should be given to fire resistance of other components used in construction.
10	AS 1720	Timber Framing Code
11	AS 1684 - 1999	National Timber Framing Code
12	AS 2870 - 2011	Residential slab and footing construction
13	AS 3959 - 2009	Construction of buildings in bushfire – prone zone areas
14	AS 2904 - 1995	Damp-proof course and flashings
15	AS 3600 - 2009	Concrete structures
16	AS 1170 Part 1	Loading Code
17	AS 1170 Part 2	Wind Code
18	AS 3660.1 – 2014	Protection of building against subterranean termite – Part 1 New building
19	AS 4055 - 2012	Wind loading for housing
20	AS 3623/ASNZ 4600	Steel Framing
21	NASH Standard 2005	Steel framing – Part 1
22	AS/NZS 1170.0: 2002	Structural design actions – Part 0,1 & 2
23	AS 1530.4 - 2005	Methods for fire tests on building materials, components and structures – Part 4
24	AS 1684.1 - 1999	Residential timber – frame construction – Part 1: Design criteria
25	AS1684.2 - 2010	Residential timber – frame construction – Part 2 : Cyclonic areas
26	AS 1720.1 - 2010	Timber Structures – Part 1: Design methods
27	AS 3566.1 2002	Self – drilling screw for the building and construction industries – Part 1 & 2
28	AS 4055 - 2002	Wind loads for housing
29	BS EN 12602:2008	Prefabricated reinforced components of autoclaved aerated concrete.

14.0 Responsibility & Warranty



Responsibility

The final specification and certification of the external wall system using MaxiWall 75mm AAC wall panels lie solely with qualified design and building construction professionals responsible for the project. These professionals would generally comprise of structural engineers, fire engineers and acoustic engineers. The design consideration, fixing specifications and installation details in this manual represent common types of construction and detailing practice used in Australia. A competent professional must approve any variations or alternatives to the technical information described in this manual.

Disclaimer

The information contained in this technical manual is only advisory and general in nature. It is not intended to substitute advice or consultation from registered building construction professionals to ensure designs, systems and installation for projects conform to the National Construction Code and Building Codes of Australia including any other laws imposed by the States or local councils. The user of this manual understand and agree that ATBS, its member companies, its officers, agents and employees shall not be liable in any manner under any theory of liability for the user's reliance on this manual. The user agrees to release, hold harmless and indemnify ATBS, its member companies, successors, assigns, officers, agents and employees from any and all claims of liability, costs, fees (including lawyer's fees), or damages arising in any way out of the use of this information.



PRODUCT WARRANTY

MaxiWall 75mm Autoclaved Aerated Concrete Panels

Provided by:	ATBS 10 Kingstag Crescent, Edinburgh North, South Australia 5113 (08) 8255 5577
Product type:	MaxiWall 75mm autoclaved aerated concrete panels.
Warranty statement:	ATBS warrants that its MaxiWall 75mm autoclaved aerated concrete (AAC) building panels are free from defects in materials and manufacture subject to the conditions and exclusions set out in the Product Warranty.
Warranty cover:	This Warranty covers the above product type that has defects in materials or workmanship due solely to improper manufacture. Defects include but not limited to structural defects, dimensional discrepancies beyond acceptable tolerances and failure to meet product quality standards and specifications as set forth in our approved Technical Manuals.
Warranty conditions:	This Warranty shall only apply where the relevant building system constructed complies with ATBS approved Technical Manuals for High-Rise Residential Internal Wall System and External Wall Panels for Low-Rise Residential Buildings. Ensure registered professionals, such as licensed builders, architects and engineers are consulted to determine that the design, system and installation are suitable for the project and conforms to the Building Code of Australia.
Warranty period:	Subject to the conditions and exclusions, set out under this Warranty, ATBS warrants that its MaxiWall AAC 75mm panels are sourced from reputable manufacturers or suppliers and are covered by their respective guarantees or warranties and any warranties imposed by the Australian Consumer Law. The term of warranty is 7 years from the date of purchase.

PRODUCT WARRANTY

Warranty exclusion:	This Warranty shall not cover any defect arising from non-compliance of structural design in accordance to the Building Code of Australia, faulty installation, environmental conditions that are beyond ATBS control, modifications, alterations, failure to comply with the conditions of cover, force majeure or any other cause or damage not resulting from defects in materials or workmanship due solely to improper manufacture.
Warranty settlement:	Subject to the legal rights of a consumer under law, if any of the MaxiWall AAC 75mm panels are so defective, ATBS will, subject to verification and inspection of such defects by a MaxiWall representative and at its sole option: either replace the products or supply equivalent products, repair the defective products or reimburse for the replacement and repair of the products. ATBS will not be liable for any punitive, indirect, special, incidental or consequential damages other than what is stated in the Product Warranty.
Associated materials warranty:	This Warranty does not cover any materials, components or system associated with or supplied by third parties. Please refer to your supplier's warranty terms and conditions.
Warranty Claims:	Homeowners should contact their Builders. Builders wishing to make a claim under this Warranty should contact an authorised ATBS distributor or representative. Otherwise please contact ATBS directly on 08-8255 5577. Claims for warranty must be presented in writing to ATBS and will require proof of purchase itemizing the panel sizes, and batch numbers, name of project and nature of defects along with the proof when the panels were installed.

Except as provided herein, ATBS makes no express or implied warranties. This Warranty is exclusive of all other warranties and shall not be extended, altered or varied except by a written instrument signed by an authorised representative of ATBS.



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