

Laminex®

# Architectural Wall Panels Profile – Batten and VGroove

## Installation Guide



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# Section 1: Introduction

## 1.1 Purpose of this guide

This guide has been created to provide clear instructions to successfully design and install Architectural Wall Panels. Adherence to the techniques and guidelines presented in this guide will ensure the finished article is compliant with the conditions of the product warranty.

Throughout this guide, the (W) symbol will appear against any specific instructions that are linked to compliance with the Laminex Architectural Wall Panels warranty.

This guide has been developed to allow designers, fabricators, and installers who work with Laminex Architectural Wall Panels to achieve performance standards for both domestic and commercial applications.

It is important to note that the techniques and guidelines presented in this guide are those recommended for use with Architectural Wall Panels. Any variation from these guidelines may create unexpected performance problems and may void the warranty.

This guide provides instructions to comply with the product warranty to determine the suitability of this product for your particular purpose and needs.

While every precaution has been taken in the preparation of this document, Laminex assumes no responsibility for errors, omissions, or damages resulting from the use of information contained in this document. In no event will Laminex be liable for any loss of profit or any other loss or damage caused or alleged to have been caused directly or indirectly as a result of any person relying upon any information contained in this document.

Content in this guide is subject to change at any time without notice. Refer to Laminex Architectural Wall Panels at [laminex.com.au](http://laminex.com.au) for the latest revision of this document.

Panels should be installed with consideration to the Australian Construction Code – Building Code of Australia, Volume 1 and 2, and the relevant Australian Standards: **AS 3740:2021** Waterproofing of domestic wet areas, **AS 4386:2018** Cabinetry in the built-in environment Commercial & domestic.



# Section 2: General information

## 2.1 Safety

Safety training, product knowledge, and product use are the responsibility of the installation facility tradesperson and employees.

Equipment selection, use, and maintenance are the responsibility of the installation and/or fabrication facility tradesperson and employees.

Maintaining a clean and adequately ventilated workplace is the responsibility of the installation facility tradesperson and employees.

### 2.1.1 Safety data sheet

Refer to [laminex.com.au](http://laminex.com.au) for the latest version of the Safety Data Sheet (SDS) for this product.

### 2.1.2 Personal Protective Equipment

Always wear appropriate PPE when handling, cutting, or fabricating this product. Wear gloves, safety footwear, and suitable workwear apparel (no loose clothing or jewellery).



Gloves



Workwear



Boots

Always use safety glasses or approved eye protection and/or face shields when cutting, routing, sanding or when working in close proximity to the wall.



Safety Glasses

Occupational exposure to any type of dust is known to be hazardous to human health. Care must be taken to avoid the inhalation of dust. Follow good hygiene and workplace practices. Dust can be vacuumed or swept to avoid accumulation. Dust masks must be worn in accordance with your State's WorkSafe (or equivalent) guidelines.



Dust Mask

If you intend to replace existing wall panels with Architectural Wall Panels:

- Ensure that the existing panels do not contain Asbestos. Consult and obtain professional guidance from licensed Asbestos removal services if required.
- If you are removing wall sheeting ensure your safety in relation to electrical cables, water and gas plumbing.

### 2.1.3 Tools and equipment

Use and maintain all tools and equipment in accordance with the manufacturer's instructions.

Keep all equipment safety guards and dust collection devices in place.

### 2.1.4 Adhesives

Always refer to the manufacturer's Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for instructions on how to store and use solvents, adhesives and other materials in a safe manner.

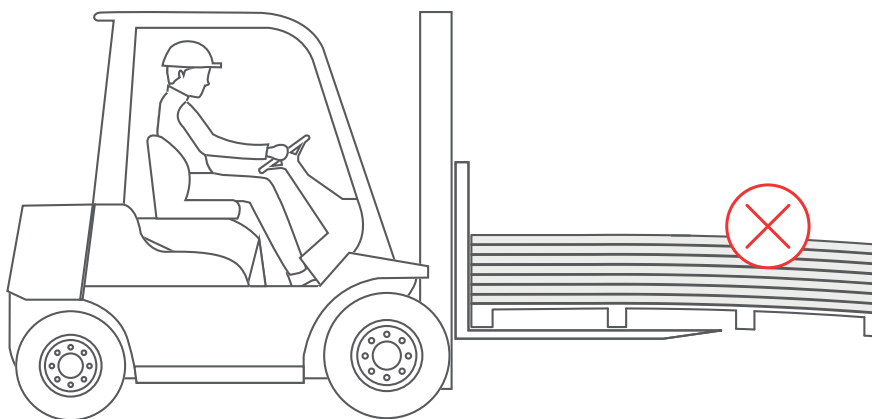
## 2.2 Handling

This panel weighs approximately 11.5 kg/m<sup>2</sup>. You must handle the panels with care during lifting. Whenever possible, carry full panels vertically to minimise flexing or the risk of breakage. Additionally, ensure that panels are lifted from the non-routed face to prevent damage. Refer to the table below for size and weight.

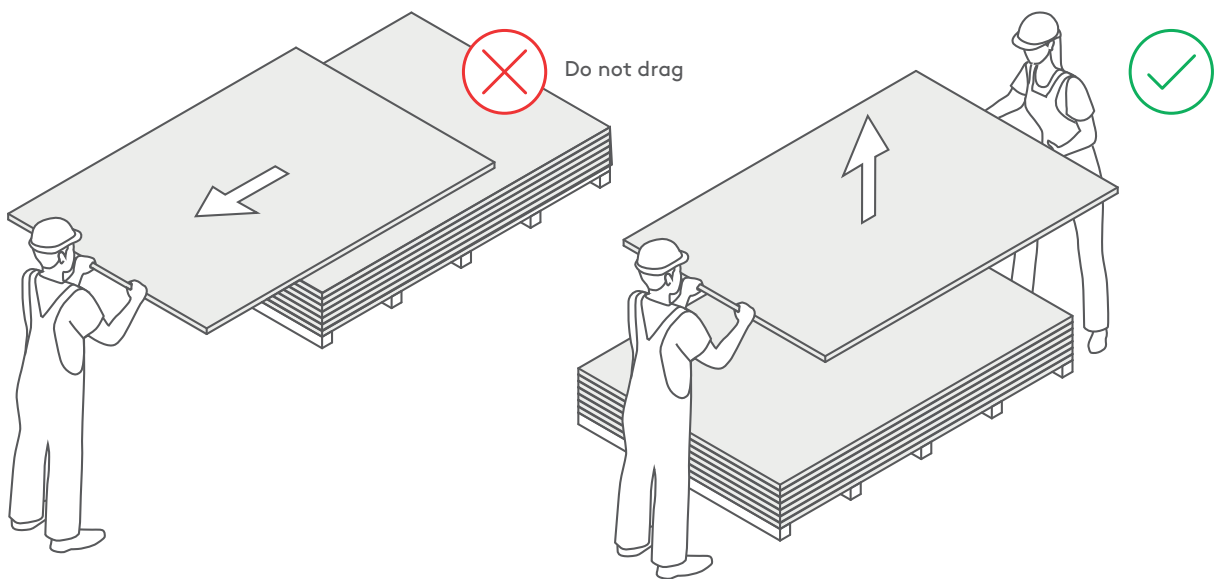
| PROFILE     | PANEL SIZE (MM) | WEIGHT KG/M <sup>2</sup> |
|-------------|-----------------|--------------------------|
| Batten 40   | 3000 x 578mm    | 19.3                     |
| Batten 60   | 3000 x 558mm    | 18.9                     |
| Vgroove 100 | 3000 x 518mm    | 17.8                     |



If moving or transporting panels via forklift or suction lift, move panels carefully to avoid damage and ensure the right fork length is used for the panel size. Do not overload the forklift.



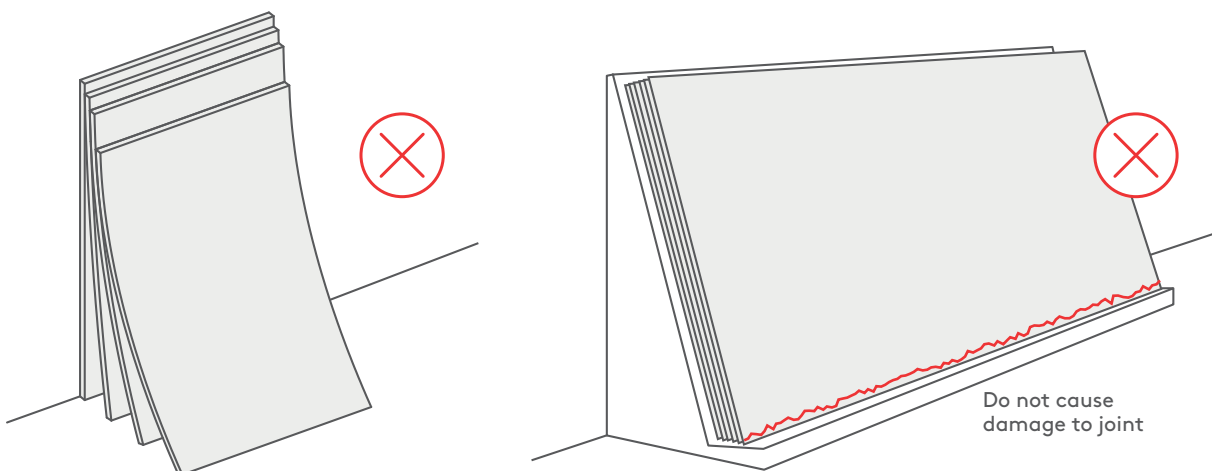
- Ⓢ | **DO NOT** slide panels over one another to move them.



- Ⓢ | Always lift with care and place the panels to avoid damage to the decorative surface.

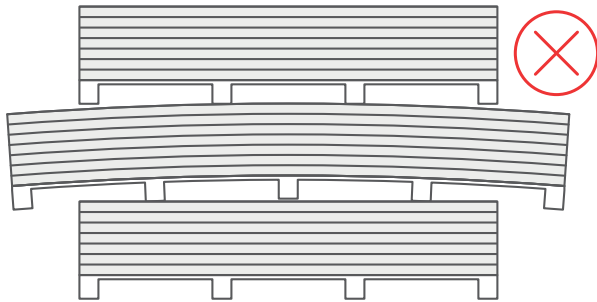
## 2.3 Storage

- Ⓢ | When working with loose panels of Architectural Wall Panels, where the original packaging is removed, the panels must be stored horizontally in a flat level fully supported manner. Place a protective cover over the unused panels.
- Ⓢ | Packs must be stored on a level horizontal surface and aligned with each other. **CAUTION:** There is a decorative face on both sides of these panels.

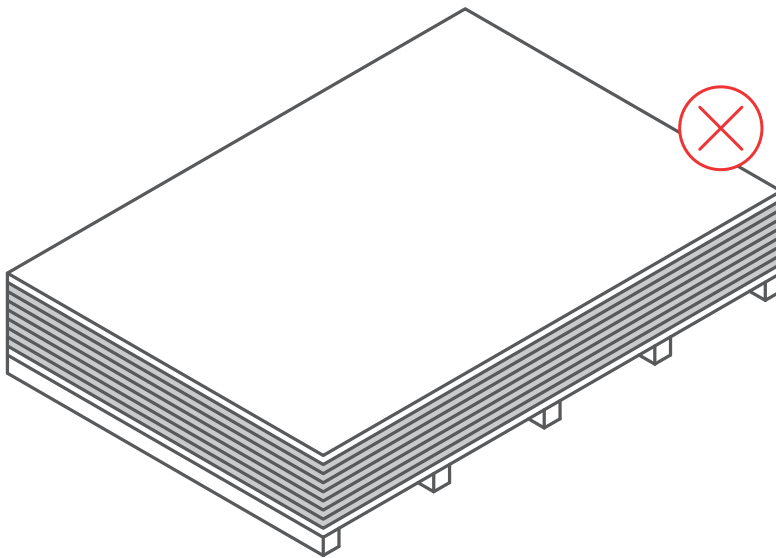


- Ⓢ | Material must be stored in a dry, fully enclosed area away from exterior doors. Do not leave the Architectural Wall Panels in a weather exposed environment, and protect from UV light.

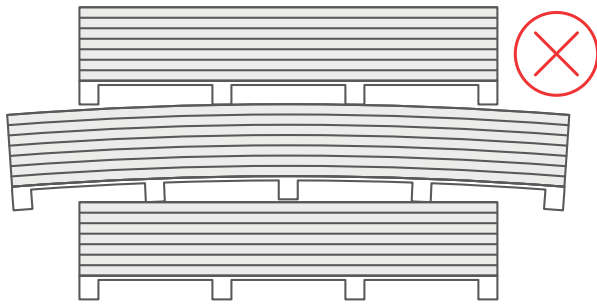
- Ⓢ **DO NOT** store Architectural Wall Panels within areas where newly poured concrete or wet plastering is present.
- Ⓢ When working from a pack of Architectural Wall Panels, use panels as required and place a protective cover over the unused panels.



- Ⓢ Do not store product on pallets with bearer spacings more than 600mm apart.



- Ⓜ | Do not stack other materials eg plaster board on the packs.

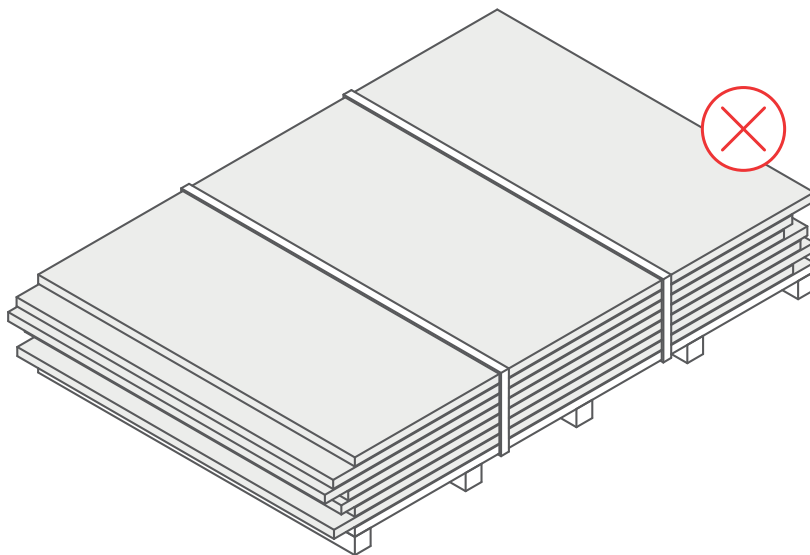


## 2.4 Packaging

The use of suitable packaging is essential to controlling and maintaining equilibrium moisture content (EMC). An imbalance of moisture will result in bowing or warping of the material.

## 2.5 Transport and Movement

It is important to take precautions when transporting Laminex Architectural Wall Panels. Ensure product surfaces and edges are protected when transporting, storing, fabricating, and installing panels.



All straps and restraint devices must remain grit and burr free and suitably tensioned to prevent movement of the product during transport. Covered loads are recommended to prevent damage during transport to the site.

- Ⓜ | During transportation, use flat, stable supports of at least the same dimensions as the material.
- Ⓜ | Claims for damage or surface abrasion due to unsuitable transport methods will not be recognised.

## 2.6 Conditioning

Pre-conditioning of Architectural Wall Panels is required to achieve equilibrium moisture content (EMC) before fixing, to reduce the likelihood of bowing or shrinkage after installation.

Therefore, Architectural Wall Panels must be stored for a minimum period of 48 hours at the same environmental conditions as the subsequent place of use, preferably in the room where the panels are to be installed.

Failure to condition material may result in product expansion and contraction in response to environmental conditions, particularly with changes in temperature and humidity. This may result in, but is not limited to, bowing or warping of panels, joint failure or build-up of internal stresses that release in the form of cracks.

Architectural Wall Panels must be installed in locations where environmental conditions can be controlled and maintained in a manner that avoids large fluctuations in temperature and humidity.

**W** | Failure to adhere to conditioning guidelines will void your warranty.

**W** | Failure to maintain and control the temperature and humidity of installation environments will void your warranty.

Timber structures to which Laminex Architectural Wall Panels are fixed will also respond to changes in the humidity and temperature of the surrounding environment. Hence, temperature and humidity must be effectively controlled to minimise fluctuations in moisture content. Inadequate control of these parameters may result in the expansion or contraction of the framing.

## 2.7 Quality control

### 2.7.1 Inspection

**ALL** panels must be visually inspected prior to the commencement of **ANY** cutting or installation.

Before commencing any cutting or installation, the following must be checked:

- Correct items (thickness, profile design, etc)
- Consistent profiled design (ensure panels for the same installation are inspected for profiled design compatibility)
- Inspect for defects, such as: chips, scratches, evidence of transport damage, general quality of the surface finish and quality of the edge.

Inspect the Architectural Wall Panel Invislock® joins and ensure they are not damaged.



If products are believed to be defective, record all order details and contact your Laminex representative as soon as possible.

Ⓢ | Once cut or installed, no claims for visual defects will be recognised.

### **2.7.2 Technical data**

Refer to [laminex.com.au](http://laminex.com.au) for the latest version of the Technical Data Sheet (TDS) for this product.

## **2.8 Care and maintenance**

Refer to [laminex.com.au](http://laminex.com.au) for the latest version of the Care and Maintenance for Architectural Wall Panels.

## **2.9 Warranty**

Architectural Wall is covered by a 10-year limited warranty.

Refer to [laminex.com.au](http://laminex.com.au) for the latest version of the warranty for this product.

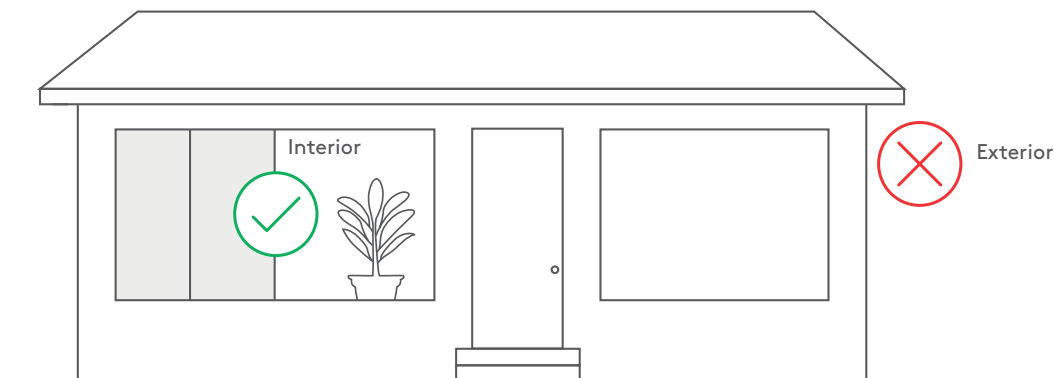
# Section 3: Applications

## 3.1 Interior

- Ⓜ | Architectural Wall Panels are **ONLY** suitable for interior wall panel applications.
- Ⓜ | Architectural Wall Panels are **NOT** suitable for any ceiling or floor applications. Refer to the Architectural Ceiling Panels and Tiles for ceiling application.
- Ⓜ | If the Architectural Wall Panels are used in a bathroom, kitchen, or laundry, local waterproofing requirements must be met according to the guidance in section 7.6.
- Ⓜ | Architectural Wall Panels must **NOT** be adhered to tiles, cork, natural stone, textiles, wallpaper, timber paneling or Masonite. Refer to section 6.4.

## 3.2 Exterior

- Ⓜ | Architectural Wall Panels are **NOT** suitable for use in any exterior applications.



# Section 4: Design Guidelines

When you are in the planning and design stage of your project there are some important points to consider ensuring your installation meets the compliance requirements for the Architectural Wall Panels warranty.

Key considerations for your Architectural Wall Panels project include both aesthetic detailing and the planning of the location or room in which the panels are to be installed.

Architectural Wall Panels are **NOT** suitable for use in any external applications.

For wet areas follow the installation instructions in the guide (see section 7.6). The panels should not be applied to sliding doors or internal honeycomb construction doors. Ceilings and floors are **NOT** suitable applications for Architectural Wall Panels (see guidelines for Laminex Architectural Ceiling Panels and Tiles). Non-compliant use of panels will not be considered under warranty.

You should ensure that project specification documents include installation instructions and should follow all technical requirements of the Architectural Wall Panels installation guide.

Wall suitability is important for the successful installation of Architectural Wall Panels. Minor modifications to studs and wall frames may be required.

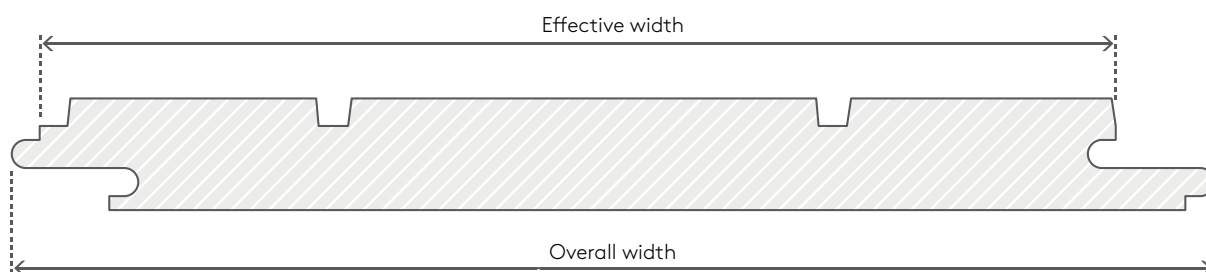
Your project design checklist should include consideration of the following:

- Position of existing or planned windows, doors and openings, GPO's, light and fan controls, air conditioner vents and other cut-outs through the panel for functional appliances.
- Will full-height panels be used or are partial-height panels required? Partial wall height panels may require additional reinforcement and/or wall modifications to be used for support of the top and bottom of the panel.
- Expansion joints must be maintained between elements such as floors, ceilings, architraves, skirtings, fixtures and fittings.
- When selecting the design direction of the Architectural Wall Panels, consider the direction carefully. Always utilise the Invisilock® join for joining panels together. Avoid butt joining of panels as it is not recommended and is not covered by warranty.
- Minimum distances from the edge of Architectural Wall Panels must be maintained for items to be cut in. Any access cut-outs for GPO (electrical outlets), air conditioning vents, light switches, or similar, must not be located less than 150mm from the edge of the Architectural Wall Panel.
- Consideration of the specific design of the Architectural Wall Panels selected for use and the surface of the intended walls. Is the scale and directionality of the design a good fit for both the uninterrupted areas of the project as well as the areas that might involve multiple cut-outs around fixtures and fittings or change of direction through internal and external corners?

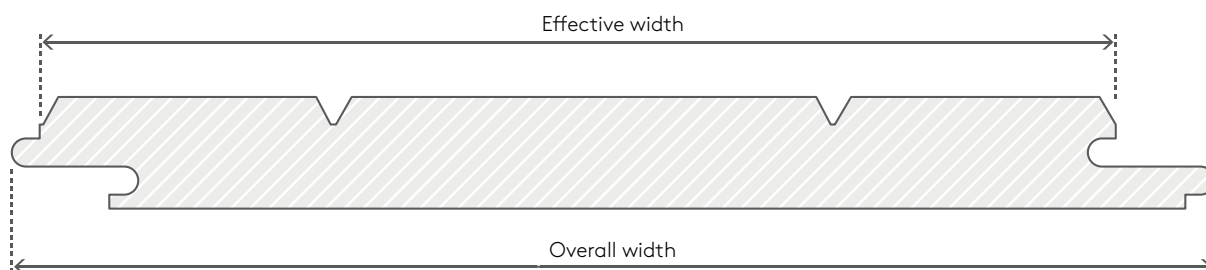
- If more than one design of the Architectural Wall Panel is considered for the project, the appearance of the panels in both the height and the width of the wall is important. Where different designs are used together, it is recommended that dado rail should be applied along the interface joint between the two design.
- Mouldings, architraves and dado rails: If the use of mouldings and dado rails is anticipated, consider the location on the wall. Will they be interrupted by architraves on windows/doors and what is the optimum height to achieve an unbroken line?

### Effective width and Overall width

| PROFILE            | LENGTH (IN MM) | EFFECTIVE WIDTH (MM) | OVERALL WIDTH (MM) |
|--------------------|----------------|----------------------|--------------------|
| <b>Batten 40</b>   | 3000           | 560                  | 578                |
| <b>Batten 60</b>   | 3000           | 540                  | 558                |
| <b>VGroove 100</b> | 3000           | 500                  | 518                |



**Batten 60**



**VGroove 100**



# Section 5: Setup and Preliminary Steps

## 5.1 Tools and Equipment

This is not an exhaustive list, but it is recommended that the following be checked and available:

- Tape Measure
- Spirit Level
- String Line or equivalent
- Power Saw
- Tugstone Carbide TCT (triple chip blade) 72+ teeth
- Hammer and/or Nail Gun or Screw Gun
- Pencil or chalk for marking out
- Caulking gun
- Sanding sponge
- Protective Equipment (PPE)

### 5.1.1 Consumables

- Nails to hold glued joints together until the adhesive has set. The nail fixings used should be twice as long as the material they are fixing. A 16G nail is recommended to prevent splitting of the Invisilock® join.
- Flexible construction adhesive to be used to glue the panels to the plasterboard/ fibre cement sheet wall, frames or studs and noggins. Ensure that the adhesive permits a 25% movement capability.
- PVA adhesive is recommended for gluing corners together and supporting moulding such as dado rails in place before fixing.
- Sealants and/or Gap Fillers to be used when fixing other trims such as timber mouldings skirtings and cornices. A 25% movement capability and paintable finish are required.
- Spacers for the expansion gap.
- Timber-based filler to fill nail/screw holes.

### 5.1.2 Workplace

Keep the work area clean, uncluttered, and well lit.

Avoid panel contact with abrasive surfaces, grit or other processing debris. Contamination trapped between panels will cause surface indentations, marring or scratching.

Avoid contact with solvents, moisture and oil which can contaminate the panels and affect the performance of adhesives and coatings.

When cutting panels ensure that the full panel is well supported before any cutting or processing.

### 5.1.3 Cutting

**Please ensure all parties using cutting equipment are suitably trade qualified or experienced in the use of these tools. All safety guards supplied with the equipment must be maintained and tools must be inspected before use including electrical cords and plugs in good working order. Please follow the safety procedures supplied by the manufacturer of the tools employed.**

**Incorrect use of cutting tools and failure to use appropriate caution can result in substantial injury. Only proceed once safe working conditions have been established.**

Architectural Wall Panels can be readily cut with a power saw. New or sharpened blades must always be used as blunt or dull blades will decrease the accuracy and finish of cuts. Select a blade suitable to cut MDF, it is recommended using Tungsten Carbide TCT or diamond tip blade.

We recommend the use of power saws that have an additional scribing blade to prevent chipping of Architectural Wall Panels.

Handsaws are not recommended for working on this 16mm thick material. Powered tools are recommended due to thickness and avoidance of the chip-out of the decorative face.

Direction of the cutting and orientation of the board (decorative face up or decorative face down) is dependent on the power tool/blade selected for use. It is recommended where scribing blades are used to cut the panel with the decorative face up.

It is recommended that a test piece be cut to verify the correct decorative face position for the specific cutting equipment to be used.

If using a router, do not allow the cutter to take too deep a cut at a time and only trench a maximum of one-third of the thickness, per pass.



## 5.2 Checking wall to be square and plumb



Laminex Architectural Wall Panels are designed to be installed on walls that are square and plumb. Claims resulting from a failure to remediate any misalignment of the walls before installing Laminex Architectural Wall Panels will not be recognised under warranty.

### Check Wall Plumbness:

Position the spirit level against the wall in a vertical orientation.

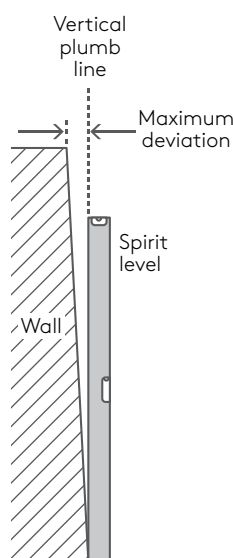
Ensure the level is aligned straight up and down.

Observe the bubble at the spirit level. It should be centred between the two lines if the wall is plumb.

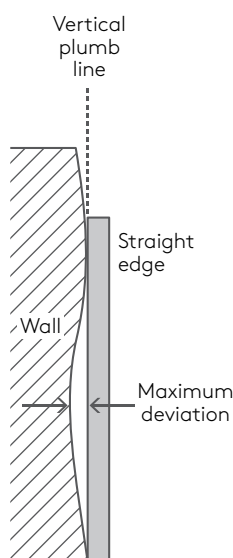
If the bubble is not centred, note the direction and the degree of the tilt.

Use a pencil or marker to indicate areas that are out of plumb.

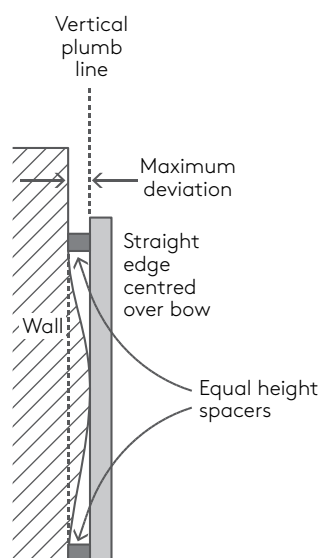
Repeat the process at various points along the wall to identify any inconsistencies.



Measurement of deviation from vertical/plumb



Measurement of bow (surface flatness)



Measurement of bow (surface flatness)

**Check Wall Squareness:**

It is important to check intersecting walls when joining the Architectural Wall Panel at internal and external corners.

Position the carpenter's square in one corner of the area.

Ensure one side of the square aligns with one wall and the other side aligns with the adjacent wall.

Look for any gaps between the square and the wall surfaces.

If there are no gaps and the square fits snugly into the corner, the walls form a 90-degree angle and are square.

If there are gaps, the walls are not square.

Perform this check at all corners of the area to ensure overall squareness.

It is important to check the intersecting wall.



### 5.3 Openings and cut-outs

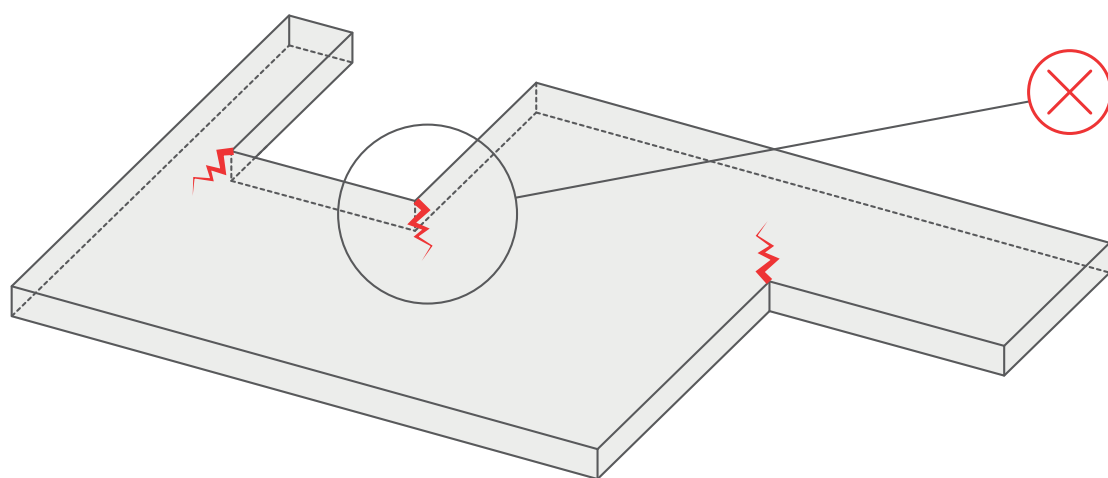
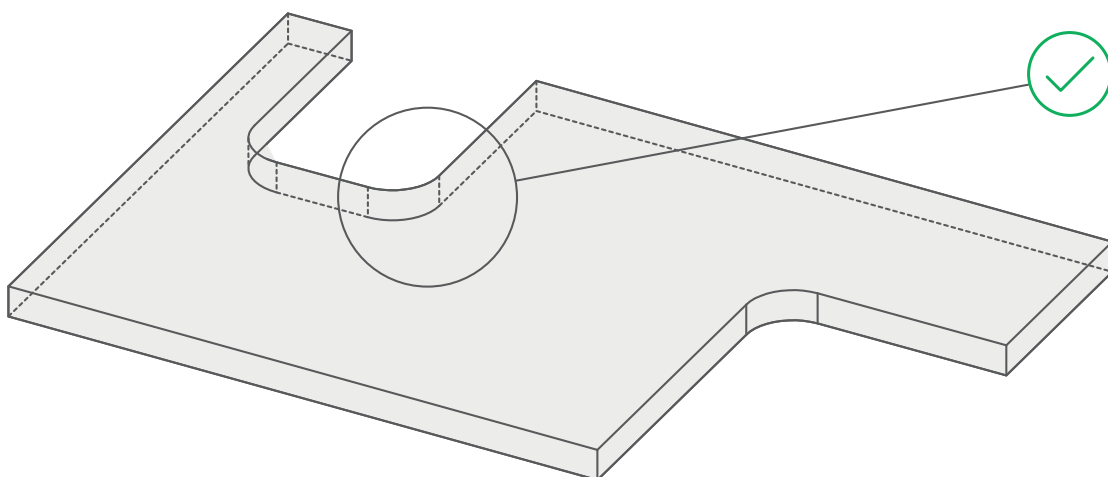
Measure the location of any openings and cut-outs to be performed on the decorative face. Apply masking tape on the decorative face where cut-outs are to be performed to assist in minimizing the chip-out. Any internal corner or aperture must be cut with a minimum internal radius of 10mm.

All edges must be smooth and free of damage, cracks, dents or notches.

The panels require sealing before installation. Place panels on a workbench or foldable work station. Apply water based sealant with a fine paint brush to seal each end of the wall panel. Be careful not to get sealer on the decorative face of the panel. this should be performed after cutting to size as each end will need to be sealed before installation. Use a brushable sealer e.g. Cabot's Cabothane clear water based polyurethane.

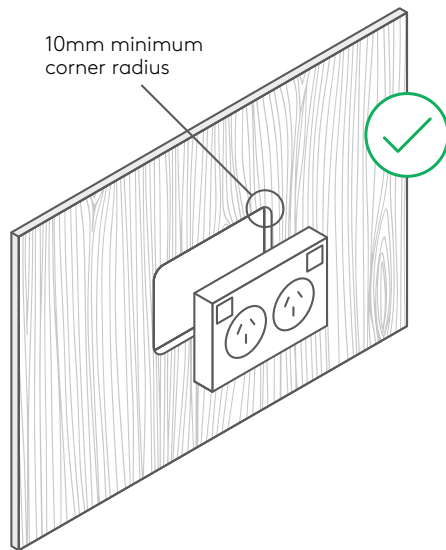


Cracks or any other failure attributable to non-compliant openings or cut-outs will not be recognised under warranty.



Cut-outs can be made with a router or by pre-drilling a hole with an appropriate diameter drill bit to meet internal radius requirements and then cutting between drill holes.

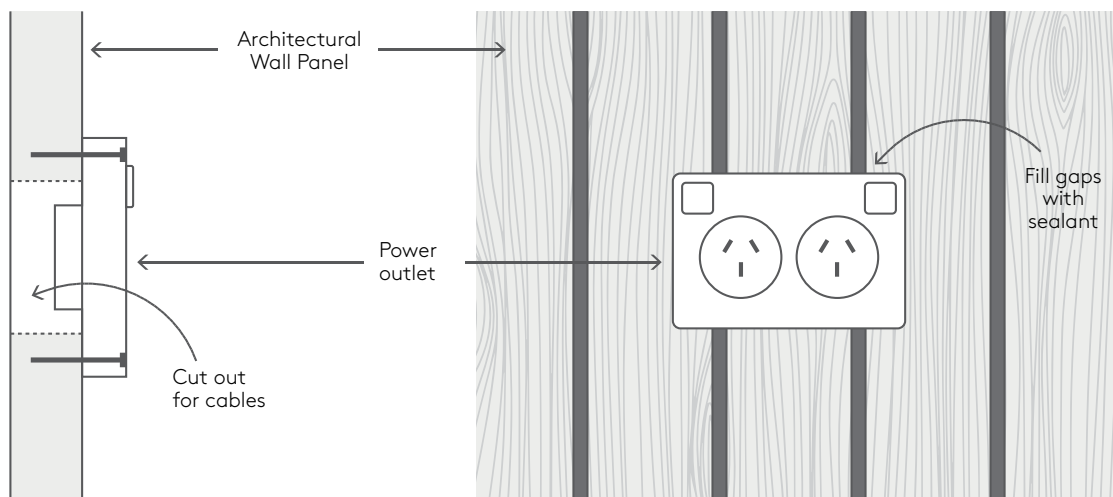
Any access cut-outs for GPO (electrical outlets), air conditioning vents, light switches, or similar, must not be located less than 150mm from the edge of the Architectural Wall Panel.



### 5.3.1 General Power Outlets

For flat profiles it is recommended to fix the GPO to the front face of the panel.

Once installed it is important to fill in any spaces at the back of the GPO to ensure dust and moisture do not have access to the back of the outlet.

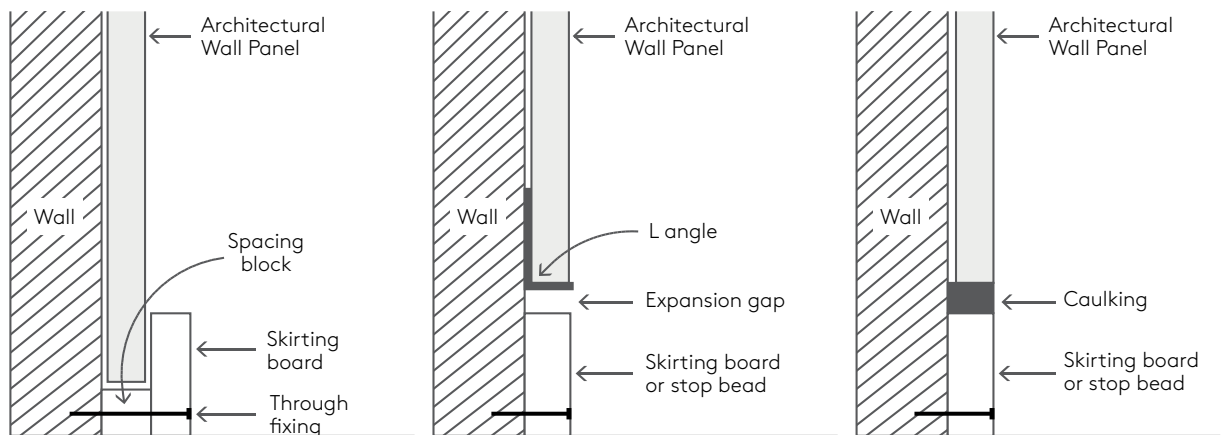


## 5.4 Skirting boards

You can hide the expansion gap by installing a skirting board on top of the Architectural Wall Panel. When doing this, it is important to include a spacing block in between the skirting and frame.

Add a trim to finish the panel installation. This can be achieved by attaching an L angle trim to the rear of the panel. By doing so, it will allow for any expansion that may occur.

Finish your wall by installing a skirting board to the bottom of the wall, allowing room for an expansion gap. You can then fill the expansion gap with caulking to create a smooth complete look.



# Section 6: Planning

## 6.1 Preparation

Before starting your project using Architectural Wall Panels, it is important to identify some key attributes of the area in which the material will be placed and to plan the installation of the panels.

### Wall type

What kind of wall are the panels to be affixed to? Is it fitted onto masonry/brick/block, steel, or timber frames, or are the panels to be used over existing plasterboard/fibre cement sheet walls? These considerations will inform which fixing method is appropriate, what preparation may be required to prepare the space, and the tools required.

### Openings and cut-outs

How many windows or doors openings appear within the project? Take note of any requirements to cut in GPO outlets, air-conditioning vents or other similar attributes that will require panels to be pre-cut before fixing to the wall.

### Internal and external corners

Planning for the joining of panels and the overall layout will include noting where panels may be applied around an internal or external corner.

### Full-height panels or part-height panels

Will full-height panels be used or part-height panels for the balance of the wall?

### Mouldings and dado rails

If the use of mouldings and dado rails is anticipated, how high up the wall they are to appear, will they be interrupted by architraves on windows or doors and what is the optimum height to achieve an unbroken line where practical, are all recommended considerations in the planning of the project.

### Mixing Architectural Wall Panels on a wall

If more than one design of Architectural Wall Panels is considered for the project, the appearance of the panels in both the height and the width of the wall is important. The use of different decors together is recommended with the addition of a dado rail applied along the interface join between the two patterns.



Measuring your space

For the success of any project involving wood-based materials, it’s essential to measure twice and cut once. Accurate measurements are crucial for ordering the correct panels and accessories. When estimating the quantity of Architectural Wall Panels needed, ensure to account for expansion gaps of 10mm adjacent to any fixtures.

Prepare your panels

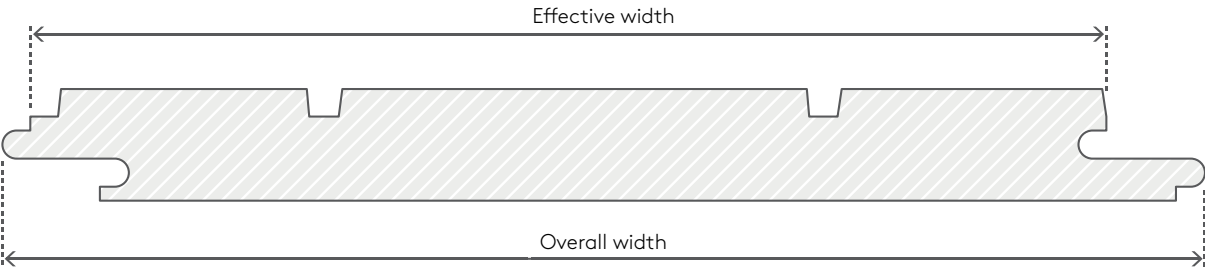
Architectural Wall Panels are made from Medium Density Fibreboard (MDF). MDF responds to the humidity and temperature of the surrounding environment, affecting the moisture content of the product and resulting in panel dimensional change.

All Architectural Wall Panel edges, including cutouts for pipes and tapware, must be sealed appropriately and effectively to prevent moisture ingress.

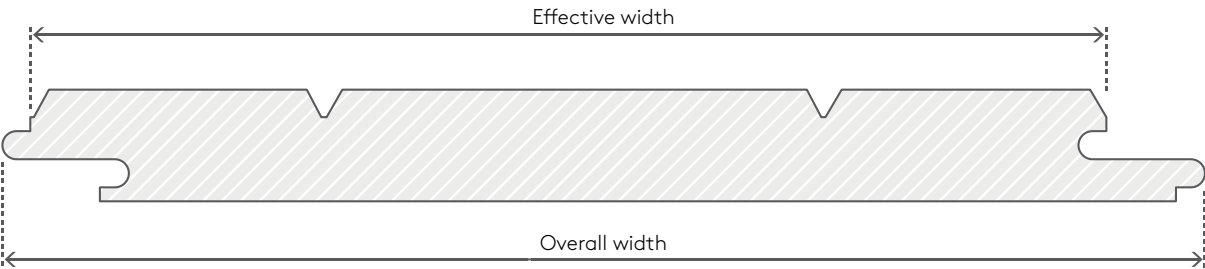
Architectural Wall Panels need to acclimatise for a minimum of 48 hours onsite before installation. This must be integrated into the ordering, delivery, and project planning.

Effective width and Overall width

| PROFILE     | LENGTH (IN MM) | EFFECTIVE WIDTH (MM) | OVERALL WIDTH (MM) |
|-------------|----------------|----------------------|--------------------|
| Batten 40   | 3000           | 560                  | 578                |
| Batten 60   | 3000           | 540                  | 558                |
| VGroove 100 | 3000           | 500                  | 518                |



Batten 60



VGroove 100

## 6.2 Expansion gaps and dimensional tolerance

### Wall-to-floor interface

A minimum expansion gap of 10mm **MUST** be left between the top surface of the primary floor and the bottom edge of the Architectural Wall Panels. Fixings of moulding/wall skirtings must maintain the unimpeded 10mm gap.

### Wall-to-ceiling interface

A minimum expansion gap of 10mm **MUST** be left between the top edge of the Architectural Wall Panels panel and the primary ceiling. Fixings of a cornice or moulding must maintain the unimpeded 10mm gap.

**DO NOT** “Hard Knock” adjacent panels into position.

### Panel to fixture interface

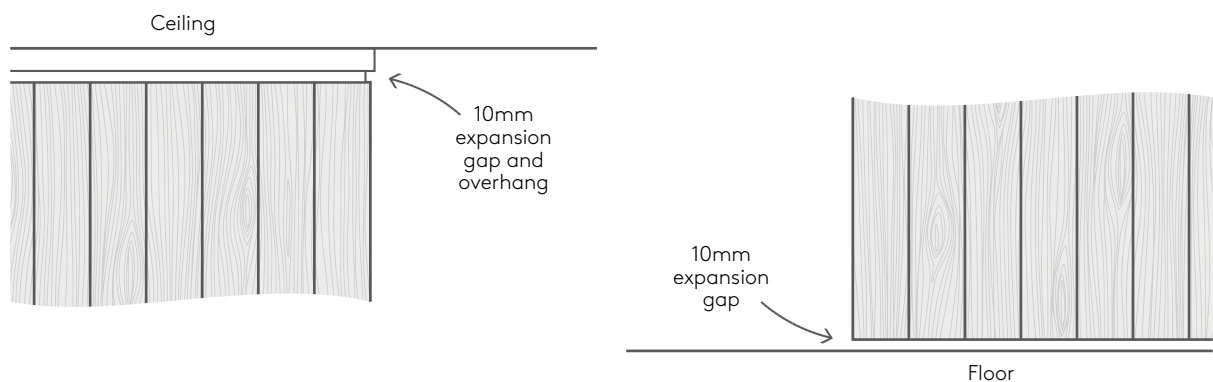
A fixture is defined as any permanent structure affixed to the wall or ceiling, including architraves. A minimum expansion gap of 10mm **MUST** be left between the edge of the Architectural Wall Panel and the fixture.

### Full run wall expansion allowance

An allowance of a 10mm expansion gap between every set of 10 panels **MUST** be provided. This can be achieved using express joints or shadow lines, as needed.



Any expansion gap allowance non-compliance will not be recognised under warranty.



Fill all expansion gaps between panels and fixtures with the flexible sealants (choose from clear, white and black or coloured sealants) with minimum 20% movement capability to prevent moisture ingress.



### 6.3 Starting and finishing a wall

There are two recommended methods for installing the panels:

**Partial panel installation method:** This method involves achieving uniformity at the start and end of the wall by cutting a partial strip at the beginning and end of the wall installation.

**Full panel installation method:** This method involves installing full panels from the start to the end of the wall.

The method you choose will depend on the size and design of the wall.

#### 6.3.1 Estimating Wall Panels

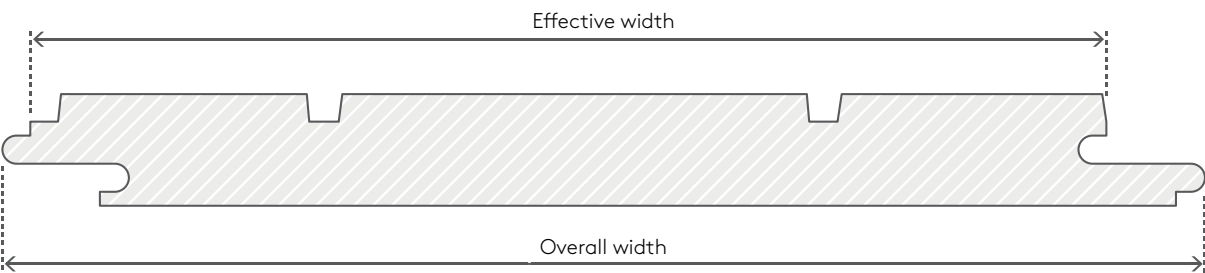
To determine the number of panels needed, measure the wall and divide the total wall width by the effective width of the panels. These panels can be used in full size without cutting or if the partial panel method is selected, cut one panel vertically at the width required for your partial starting panel.

For example, if the wall width is 3000mm and the effective width of the panel is 500mm, you would need 6 full panels ( $3000/500 = 6$ ).

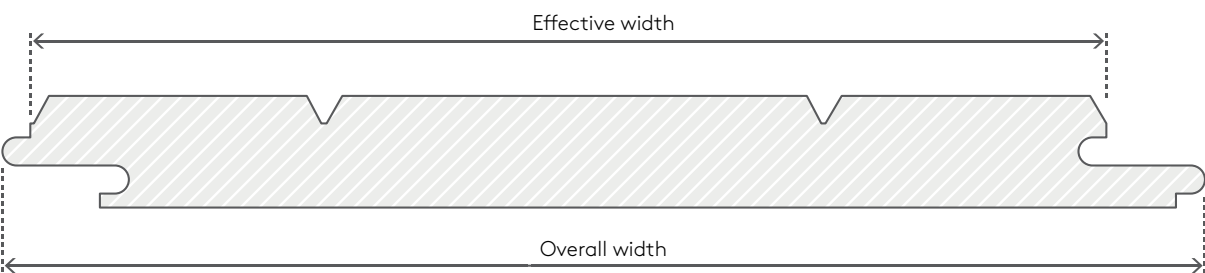
After determining the number of panels required, consider which installation method is applicable according to the wall type, refer to Section 7 for more information:

#### Effective width and Overall width

| PROFILE     | LENGTH (IN MM) | EFFECTIVE WIDTH (MM) | OVERALL WIDTH (MM) |
|-------------|----------------|----------------------|--------------------|
| Batten 40   | 3000           | 560                  | 578                |
| Batten 60   | 3000           | 540                  | 558                |
| VGroove 100 | 3000           | 500                  | 518                |



Batten 60



VGroove 100

## 6.4 Fixing

Fixings must be carefully positioned to prevent splintering and breakout.

No face fixings are allowed on the decorated face.

Fixings are to be located at 10mm from the edge of the Invisilock® join.

When applying fixings with power tools (nail gun) only use enough pressure to drive the head of the nail or screw marginally below the surface of the panel. Splitting of the panel can occur if the pressure is too high.

**We recommend pilot holes and countersinking methods when using screw as your mechanical fasteners.**

### 6.4.1 Wall Selection

| WALL TYPES                  | COMPATIBLE FIXING SYSTEMS |                 |        |                 | REFERENCE SECTIONS |
|-----------------------------|---------------------------|-----------------|--------|-----------------|--------------------|
|                             | BATTEN                    | FURRING CHANNEL | Z-CLIP | DIRECT ADHESIVE |                    |
| Timber Stud                 | ✓                         | ✓               | ✓      | ×               | 7.1, 7.2, 7.3      |
| Steel framed                | ✓                         | ✓               | ✓      | ×               | 7.1, 7.2, 7.3      |
| Brick/Masonry/Block         | ✓                         | ✓               | ✓      | ×               | 7.1, 7.2, 7.3      |
| Plaster/Fibre cement sheets | ✓                         | ✓               | ✓      | ✓               | 7.1, 7.2, 7.3, 7.4 |

### 6.4.2 Nails and Screws

Brad nails offer superior holding power than smooth nails. Driving nails in at an angle further enhances the holding capacity.

The type of brad nail used to secure the panel should be carefully chosen to withstand the environmental conditions and the size of the batten or support structure. In applications where there is a possibility of high ambient humidity, it's essential to use corrosion-resistant nails. The selection of brad nails must also consider the batten or support structure.

**AS 3566.2-2002 Self-drilling screws for the building and construction industries; General requirements and mechanical properties** outlines four levels of corrosion resistance. Additionally, **AS 2334-1980 Steel Nails – Metric Series** provides guidance on the requirements for nails and fixing.



For applications requiring high corrosion resistance, stainless steel brad nails are available, meeting the highest performance standard (**AS 3566.2-2002** Class 4).

| APPLICATION    |                                                |                    |
|----------------|------------------------------------------------|--------------------|
| <b>Class 1</b> | General Environments                           | Bright Steel       |
| <b>Class 2</b> | Significant Humidity                           | Electro Galvanized |
| <b>Class 4</b> | Treated Timber or Premium Corrosion Resistance | Stainless Steel    |

These classifications outlined in **AS 3566.2-2002** guide the corrosion resistance protection type suitable for different environmental conditions types.

## 6.5 Applying putty/wax

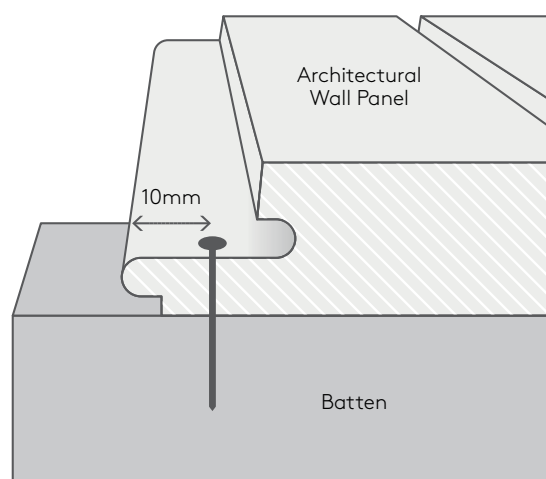
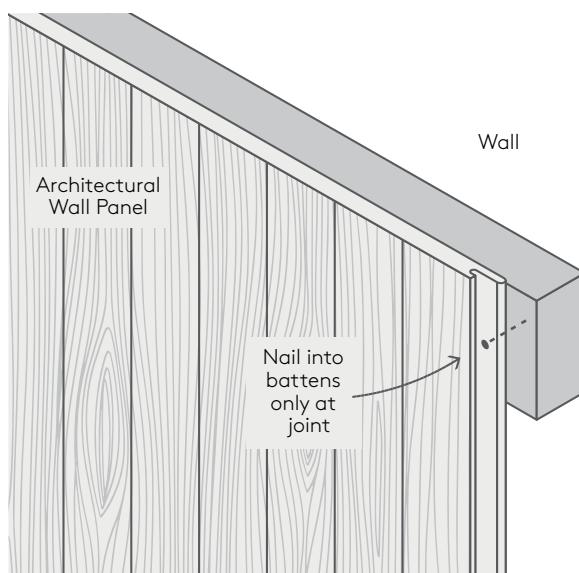
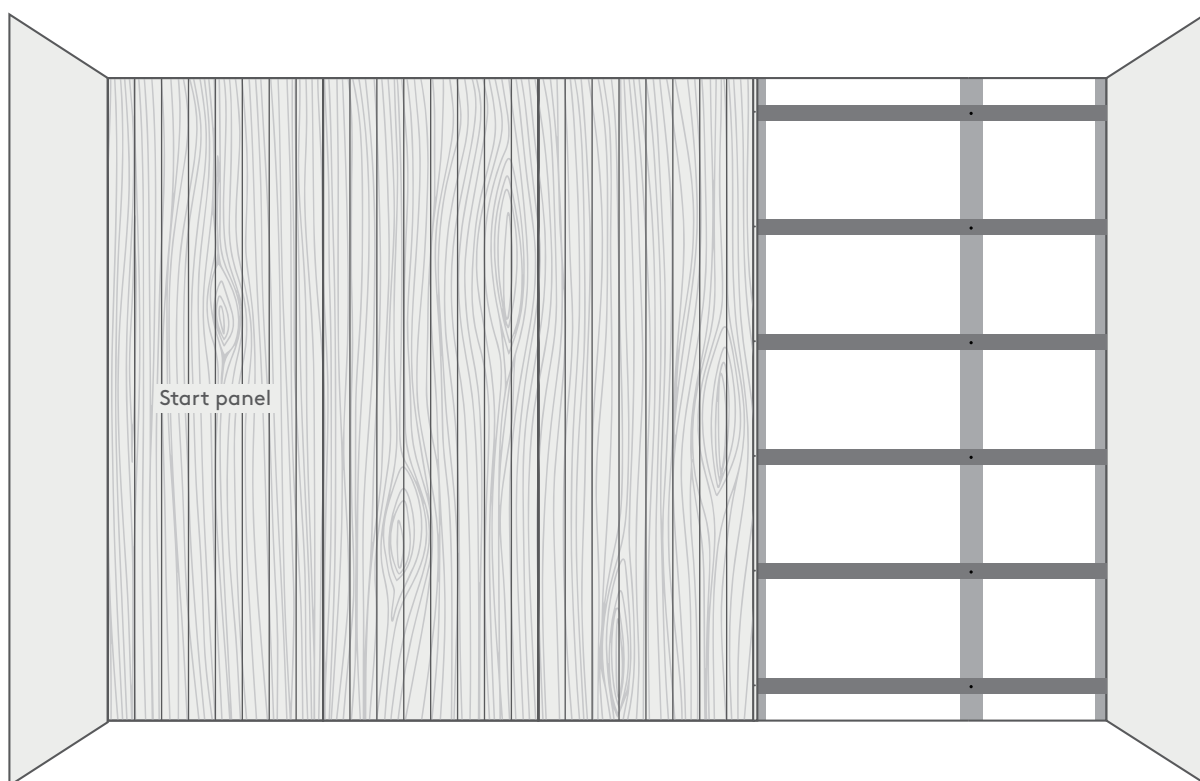
To fill any holes while installing Architectural Wall Panel, start by ensuring the surface is dry, removing any dust or debris from the holes with a brush or vacuum.

Choose a putty or wax that matches the color of your Architectural Wall Panel for a seamless finish. If using putty, scoop a small amount with a putty knife and press it into the hole, smoothing the surface and removing any excess. For wax, soften it slightly by rolling it between your fingers, then press it into the hole and smooth it out. Allow the putty or wax to dry according to the manufacturer's instructions.

Once dry, lightly sand the filled area with fine-grit sandpaper until it is smooth and flush with the panel surface. Finally, wipe away any sanding dust with a clean cloth.

# Section 7: Installation

## 7.1 Batten Fixing



(Batten Fixing continued)

### **7.1.1 Preparing the wall**

Battens must be attached to the compatible wall type given in section 6.4.1, using nails or power-driven fasteners according to the instructions provided with the fixings.

The batten system should be fitted horizontally at a minimum of 450mm centres to promote airflow behind the Architectural Wall Panels.

If Architectural Wall Panels are to be used for partial wall height installations, place battens just below the top edge of the panel for support.

Check that the fixing system is square and plumb. Refer to section 5.2 for the process.

Any amendment to a frame required to rectify irregularities must be conducted by a qualified tradesperson.

Please refer to and comply with all expansion gap requirements.

Select partial panel or full panel installation, refer to section 6.3.

### **7.1.2 Partial panel Installation**

After completing the measuring steps in section 6.3.1, cut your starting panel to be fixed at the start of the wall.

Start from one corner/edge of the wall and work across.

Apply a 5mm minimum bead of construction adhesive in a zig zag pattern on each batten prior to installing the Architectural Wall Panel. For all preparation, cleanup and curing times please refer to the adhesive manufacturer's guidelines.

Position the panel on the wall, ensure there is a 10mm expansion gap at the wall-to-floor interface.

Spacers can be used as a removable prop to lift the Architectural Wall Panel off the floor.

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

(Batten Fixing continued)

Use a spirit level to ensure the Architectural Wall Panel is accurately placed onto the frame. Refer to section 5.2 to check wall is square and plumb.

Using nails or power-driven fasteners, fix the panels to the battens.

Position mechanical fasteners at 10mm from the edge of the Invisilock® join of the panel on each batten working from the centre out or top to bottom fixing pattern.

Remove the spacer from the bottom of the Architectural Wall Panel.

The next panel can now be placed into position using the Invisilock® join to align the joins.

**DO NOT** hard knock panels together.

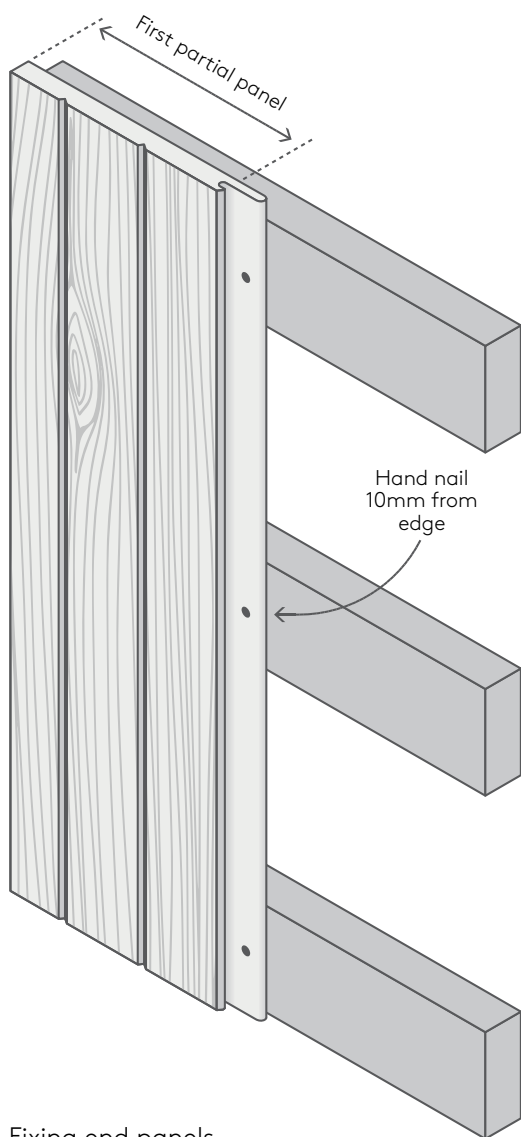


Fix the other panels using the same method outlined above, working along the wall from the first panel.

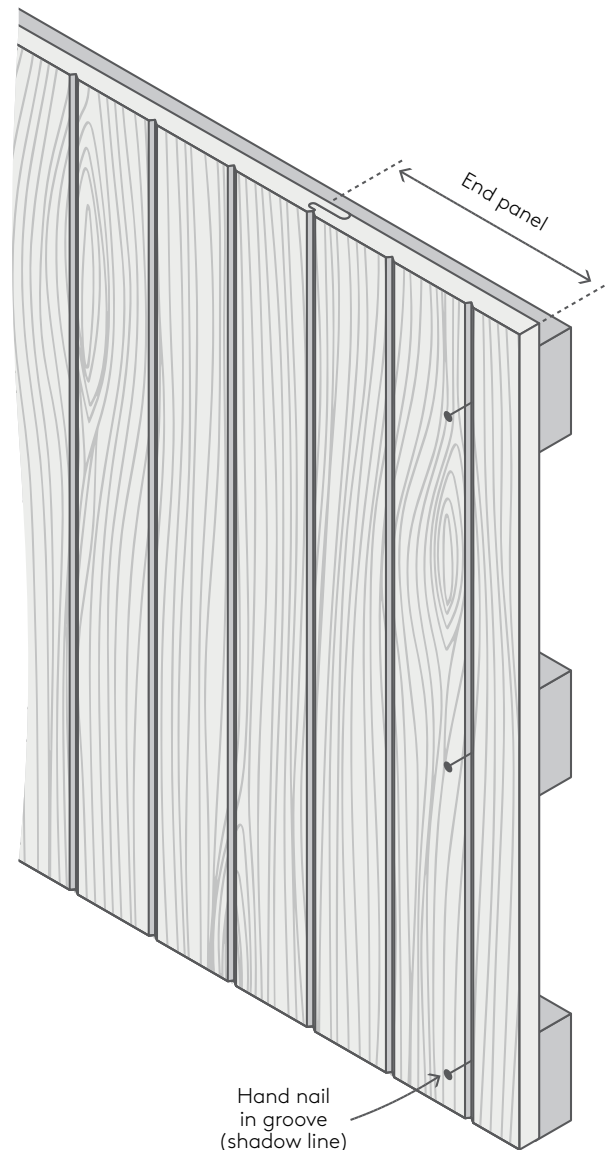


(Batten Fixing continued)

As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.



Fixing end panels



Cut the partial finishing panel to suit the remaining wall space.

Apply construction adhesive as explained above.

Position the mechanical fixing at the panel's shadow line (groove) and use hand nails and a hammer to fix the panel to each batten working from the centre out or top to bottom fixing pattern.

Putty or paint can be applied to hide the nail head if required.

(Batten Fixing continued)

### 7.1.3 Full panel installation:

After completing the measuring steps in section 6.3.1, use a full-size panel to start the installation from one corner of the wall and work across.

Apply a 5mm minimum bead of construction adhesive in a zig zag pattern on each batten prior to installing the Architectural Wall Panel. For all preparation, cleanup and curing times please refer to the adhesive manufacturer's guidelines.

Ensure there is a 10mm expansion gap at the wall-to-floor interface. Spacers can be used as a removable prop to lift the Architectural Wall Panel off the floor.

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

Use a spirit level to ensure the Architectural Wall Panel is accurately placed onto the frame. Refer to section 5.2 to check wall is square and plumb.

Using nails or power-driven fasteners, fix the panels to the battens.

Position mechanical fasteners at 10mm from the edge of the Invisilock® join of the panel on each batten working from the centre out or top to bottom fixing pattern.

Remove the spacer from the bottom of the Architectural Wall Panel.

The next panel can now be placed into position using the Invisilock® join to align the joins.

**DO NOT** hard knock panels together.

Fix the other panels using the same method outlined above, working along the wall from the first panel.

As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.

Apply construction adhesive as explained above.

Position the mechanical fixing at the panel's shadow line (groove) and use hand nails and a hammer to fix the panel to each batten working from the centre out or top to bottom fixing pattern.

If required, position a secondary mechanical fixing at the centre shadow line (groove) and use hand nails and a hammer to fix the panel to the installed batten.

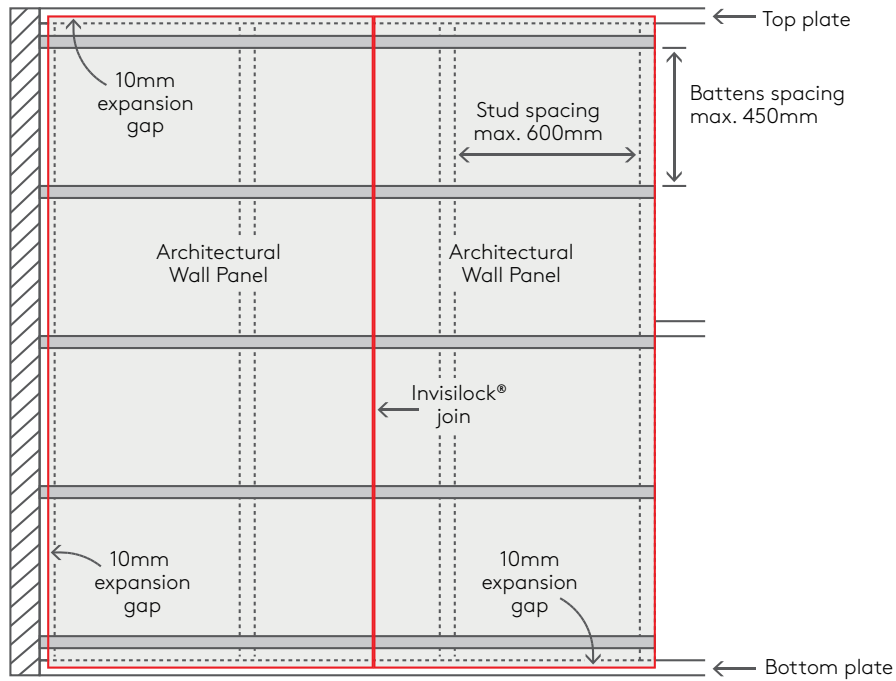
If required a nail punch can be used to sink the head of the nail just below the shadow line surface. This can then be finished with putty or paint.



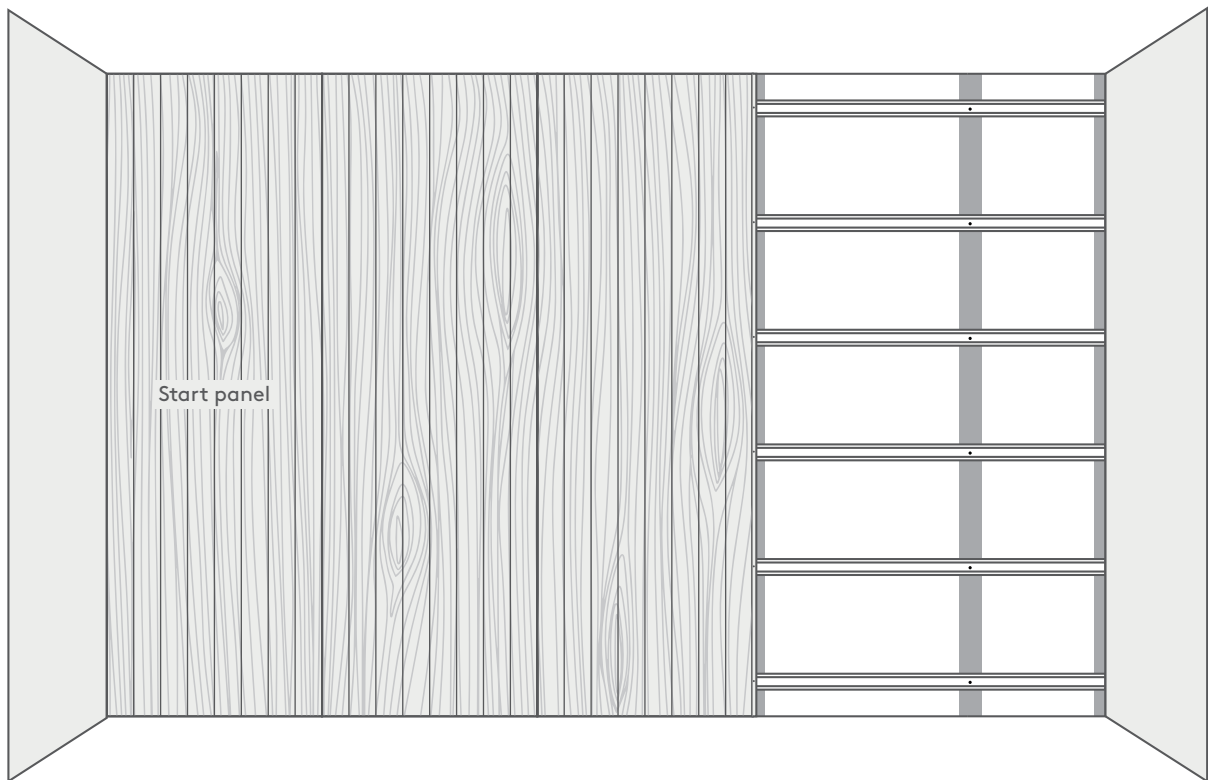
(Batten Fixing continued)

Gently press the front face of the panel if movement is detected (adhesive is yet to set), additional fixing can be used.

Putty or paint can be applied to hide the nail head if required.



## 7.2 Furring Channel Fixing



### 7.2.1 Preparing the wall

Furring channels, which are hat-shaped, corrosion-resistant framing battens used to flatten and smooth out the irregularities of the wall, must be employed with the compatible wall type given in section 6.4.1.

The furring channel should be fitted horizontally at a minimum of 450mm centres to promote airflow behind the Architectural Wall Panels.

If Architectural Wall Panels are to be used for partial wall height installations, place a furring channel just below the top edge of the panel for support.

Check that the fixing system is square and plumb. Refer to section 5.2 for the process.

Please refer to and comply with all expansion gap requirements.

Select partial panel or full panel installation, refer to section 6.3.

### 7.2.2 Partial panel installation

After completing the measuring steps in section 6.3.1, cut your starting panel to be fixed at the start of the wall.

Start from one corner/edge of the wall and work across.



(Furring Channel Fixing continued)

Apply a 5mm minimum bead of construction adhesive in a zig zag pattern on each furring channel prior to installing the Architectural Wall Panel. For all preparation, cleanup and curing times please refer to the adhesive manufacturer's guidelines.

Position the panel on the wall, ensure there is a 10mm expansion gap at the wall-to-floor interface.

Spacers can be used as a removable prop to lift the Architectural Wall Panel off the floor.

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

Use a spirit level to ensure the Architectural Wall Panel is accurately placed onto the frame. Refer to section 5.2 to check wall is square and plumb.

Using screws or power-driven fasteners, fix the panels to the furring channels.

Position mechanical fasteners at 10mm from the edge of the Invisilock® join of the panel on each furring channel working from the centre out or top to bottom fixing pattern.

Remove the spacer from the bottom of the Architectural Wall Panel.

The next panel can now be placed into position using the Invisilock® join to align the joins.

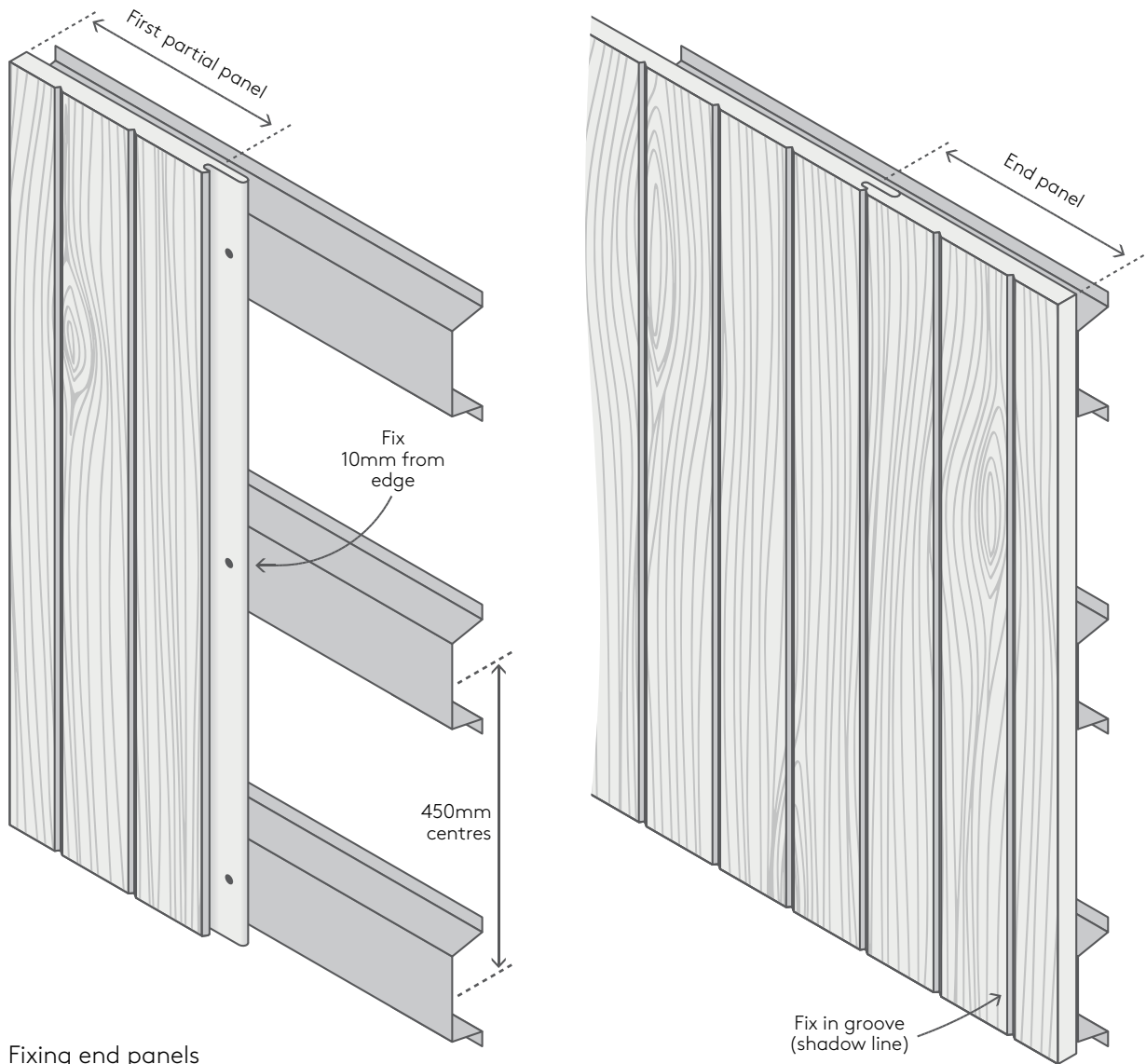
**DO NOT** hard knock panels together.



Fix the other panels using the same method outlined above, working along the wall from the first panel.

## (Furring Channel Fixing continued)

As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.



Fixing end panels

Cut the partial finishing panel to suit the remaining wall space.

Apply construction adhesive as explained above and support the panel in place until the adhesive sets on the wall.

**DO NOT** use a power-driven screw in the groove (shadow line) as it may cause the panel to split.



(Furring Channel Fixing continued)

### 7.2.3 Full Panel Installation

After completing the measuring steps in section 6.3.1, use a full-size panel to start the installation from one corner of the wall and work across.

Apply a 5mm minimum bead of construction adhesive in a zig zag pattern on each furring channel prior to installing the Architectural Wall Panel. For all preparation, cleanup and curing times please refer to the adhesive manufacturer's guidelines.

Ensure there is a 10mm expansion gap at the wall-to-floor interface. Spacers can be used as a removable prop to lift the Architectural Wall Panel off the floor.

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

Use a spirit level to ensure the Architectural Wall Panel is accurately placed onto the frame. Refer to section 5.2 to check wall is square and plumb.

Using nails or power-driven fasteners, fix the panels to the battens or furring channels.

Position mechanical fasteners at 10mm from the edge of the Invisilock® join of the panel on each furring channel working from the centre out or top to bottom fixing pattern.

Remove the spacer from the bottom of the Architectural Wall Panel.

The next panel can now be placed into position using the Invisilock® join to align the joins.

**DO NOT** hard knock panels together.



Fix the other panels using the same method outlined above, working along the wall from the first panel.

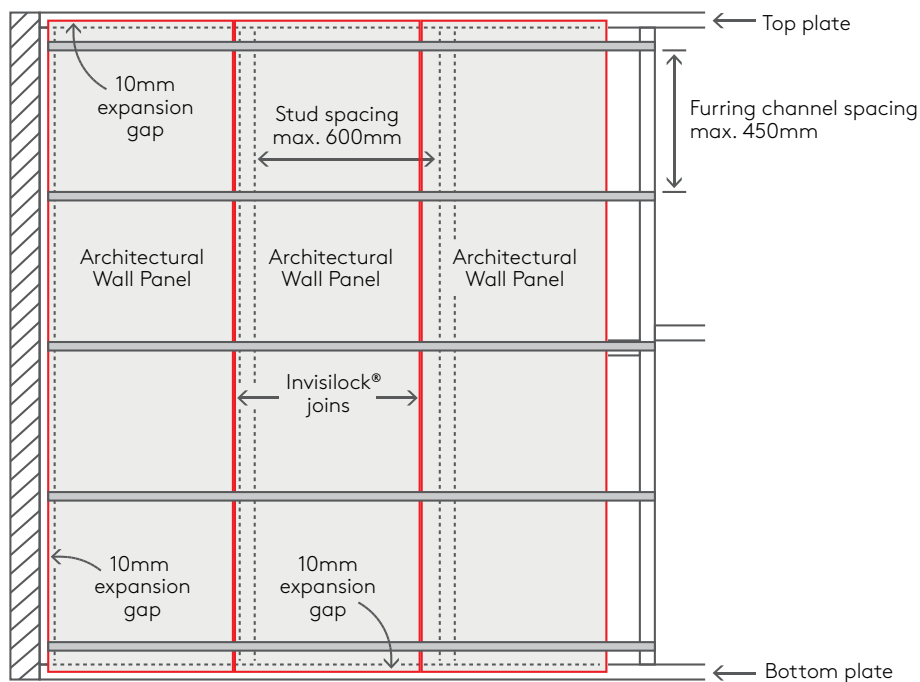
(Furring Channel Fixing continued)

As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.

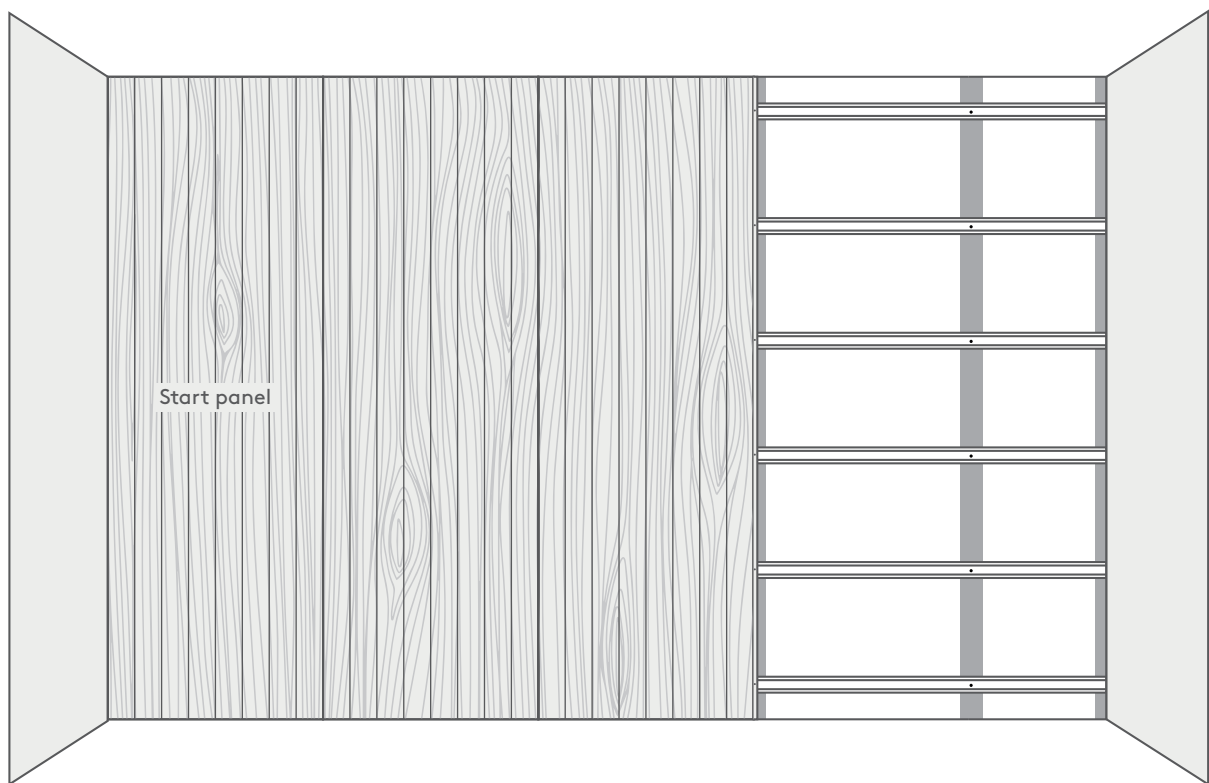
### Fixing End Panel:

Apply construction adhesive as explained above and support the panel in place until the adhesive sets on the wall.

**DO NOT** use a power-driven screw in the groove (shadow line) as it may cause the panel to split. If a screw is required, a 3mm pilot hole is required to prevent splitting. Countersunk drill bits can be employed to create a flush screw head finish.



## 7.3 Z-Clip Fixing



### 7.3.1 Preparing the wall

Z-Clips must be employed with the compatible wall type given in section 6.4.1.

Check the appropriate Z-clip system according to the weight of the Architectural Wall Panel.

The Z-clip should be fitted horizontally at a minimum of 450mm centres to promote airflow behind the Architectural Wall Panels.

Use a pencil or marker to mark the locations on the wall where each Z-clip will be installed.

Position the first Z-clip at the marked location on the wall, aligning with the marked mounting point.

Secure the Z-clip to the wall using appropriate fasteners according to the manufacturer's recommendations.

Repeat this process for each Z-clip, ensuring they are installed at the designated locations with consistent spacing.

(Z-Clip Fixing continued)

If any adjustments are needed to ensure proper alignment or spacing, carefully loosen the fasteners and reposition the Z-clips as required.

If Architectural Wall Panels are to be used for partial wall height installations, place a Z-clip just below the top edge of the panel for support.

Check that the fixing system is square and plumb. Refer to section 5.2 for the process.

Please refer to and comply with all expansion gap requirements.

Select partial panel or full panel installation, refer to section 6.3.

### 7.3.2 Partial panel installation

After completing the measuring steps in section 6.3.1, cut your starting panel to be fixed at the start of the wall.

Start from one corner/edge of the wall and work across.

Determine the desired orientation of the panel and mark the locations for attaching the Z-clips on the backside of the panel.

Use a pencil or marker to mark the locations on the backside of the Architectural Wall Panel where each Z-clip will be attached.

Ensure the spacing between each Z-clip is equal to the Z-clips mounted on the walls.

Position the first Z-clip at the marked location on the backside of the panel, aligning it with the marked mounting point.

Secure the Z-clip to the panel using appropriate fasteners (such as screws) according to the manufacturer's recommendations.

Repeat this process for each Z-clip, ensuring they are attached to the panel at the designated locations with consistent spacing.

Position the panel on the wall, ensure there is a 10mm expansion gap at the wall-to-floor interface.

Carefully lift the panel and slide the Z-clips on the backside of the panel into the corresponding Z-bar or mounting brackets attached to the wall.

Once the Z-clips are engaged with the Z-bar or mounting brackets on the wall, carefully lower the panel to secure it in place.

Ensure the panel is securely attached to the wall and does not wobble or shift.



(Z-Clip Fixing continued)

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

Use a spirit level to ensure the Architectural Wall Panel is accurately mounted onto the bracket. Refer to section 5.2 to check the wall is square and plumb.

The next panel can now be placed into position using the Invisilock® join to align the joins.

**DO NOT** hard knock panels together.



Fix the other panels using the same method outlined above, working along the wall from the first panel.

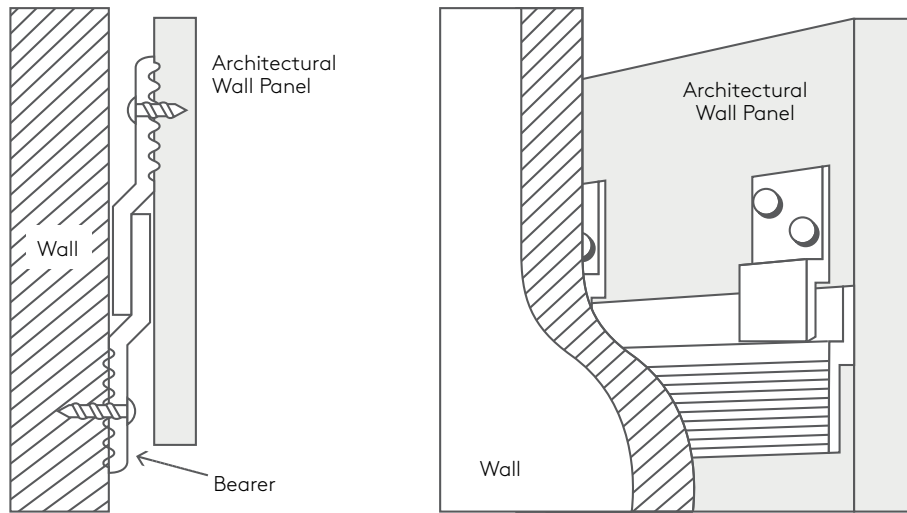
As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.

Cut the partial finishing panel to suit the remaining wall space.

(Z-Clip Fixing continued)

Mount the panel as explained above and maintain the expansion gap throughout.

Installing Z Clips on Architectural Wall Panel



### 7.3.3 Full panel installation

After completing the measuring steps in section 6.3, use a full-size panel to start the installation from one corner of the wall and work across.

Determine the desired orientation of the panel and mark the locations for attaching the Z-clips on the backside of the panel.

Use a pencil or marker to mark the locations on the backside of the Architectural Wall Panel where each Z-clip will be attached.

Ensure the spacing between each Z-clip is equal to the Z-clips mounted on the walls.

Position the first Z-clip at the marked location on the backside of the panel, aligning it with the marked mounting point.

Secure the Z-clip to the panel using appropriate fasteners (such as screws) according to the manufacturer's recommendations.

Repeat this process for each Z-clip, ensuring they are attached to the panel at the designated locations with consistent spacing.



## (Z-Clip Fixing continued)

Position the panel on the wall, ensure there is a 10mm expansion gap at the wall-to-floor interface.

Carefully lift the panel and slide the Z-clips on the backside of the panel into the corresponding Z-bar or mounting brackets attached to the wall.

Once the Z-clips are engaged with the Z-bar or mounting brackets on the wall, carefully lower the panel to secure it in place.

Ensure the panel is securely attached to the wall and does not wobble or shift.

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

Use a spirit level to ensure the Architectural Wall Panel is accurately mounted onto the bracket. Refer to section 5.2 to check the wall is square and plumb.

The next panel can now be placed into position using the Invisilock® join to align the joins.

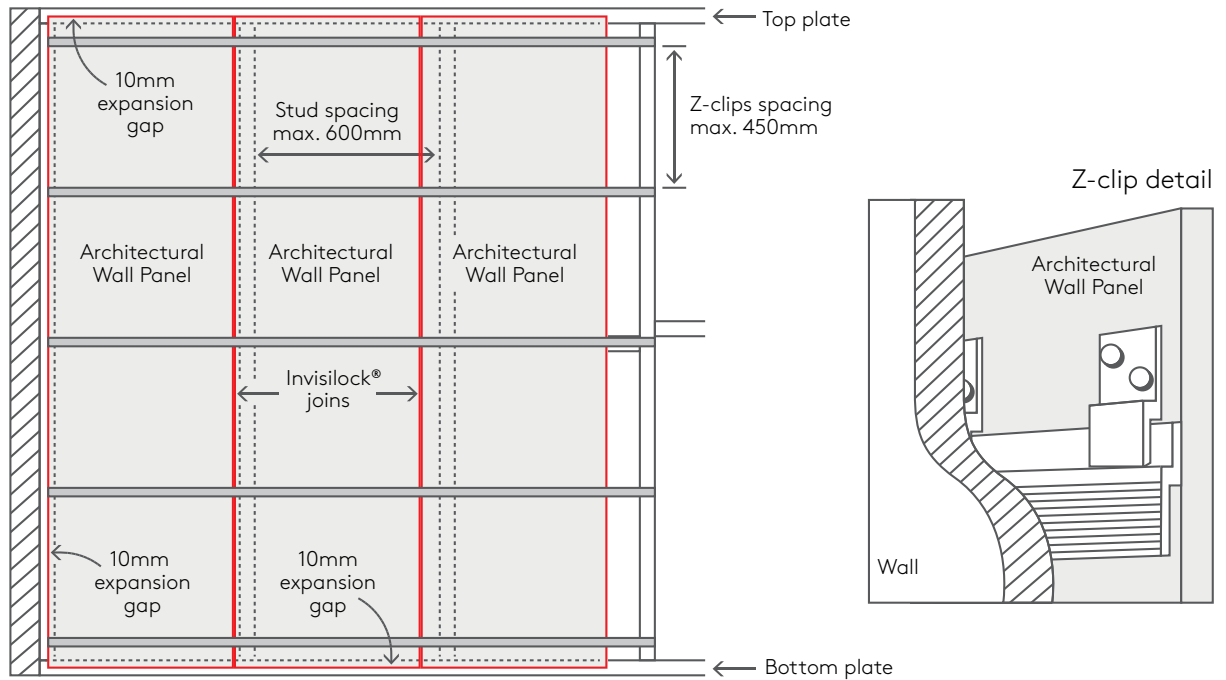
**DO NOT** hard knock panels together.



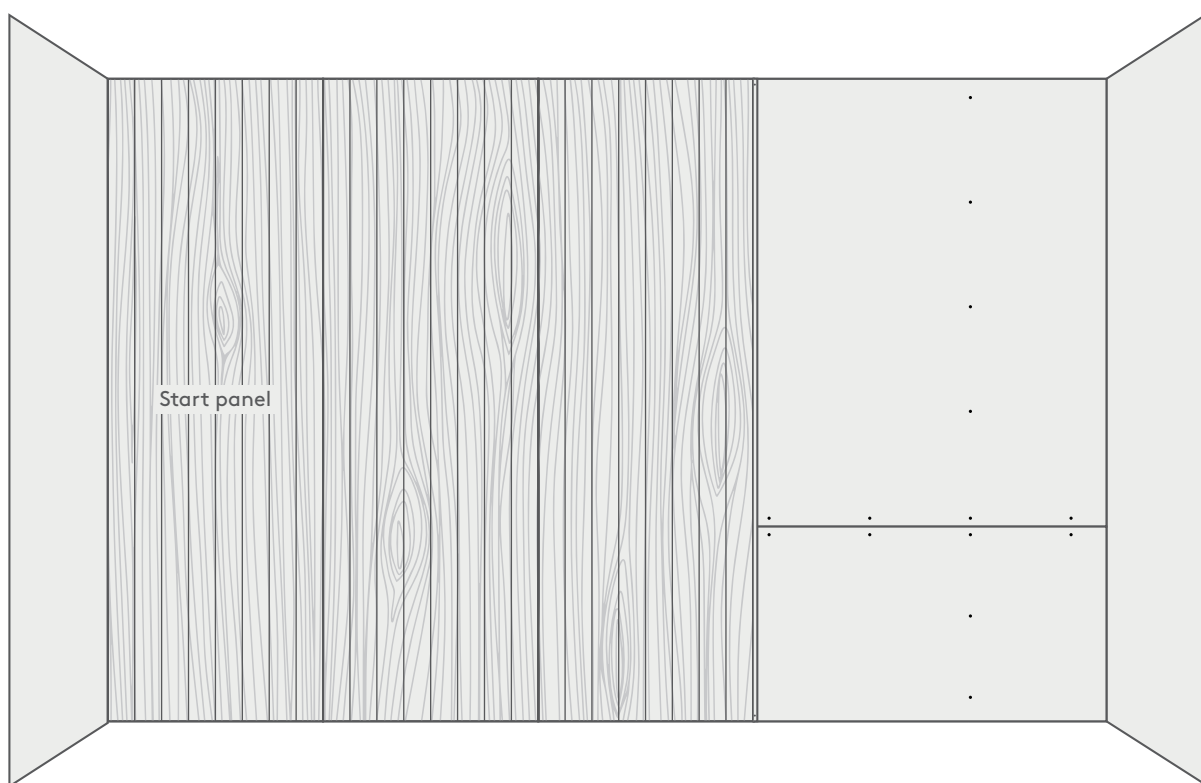
Fix the other panels using the same method outlined above, working along the wall from the first panel.

## (Z-Clip Fixing continued)

As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.



## 7.4 Direct Adhesive Fixing



### 7.4.1 Preparing the wall

When installing the Architectural Wall Panels on an existing plasterboard/fibre cement sheet wall, exercise caution to ensure that nails are not driven into plumbing and electrical fixtures.

The panel can be securely attached directly to plasterboard/fibre cement sheet with mechanical fixing attached to the Invisilock® join.

Follow the manufacturer's recommendations for plasterboard/fibre cement sheet installation.

Check that walls are square and plumb. Refer to section 5.2 for the process.

Please refer to and comply with all expansion gap requirements.

Select partial panel or full panel installation, refer to section 6.3.

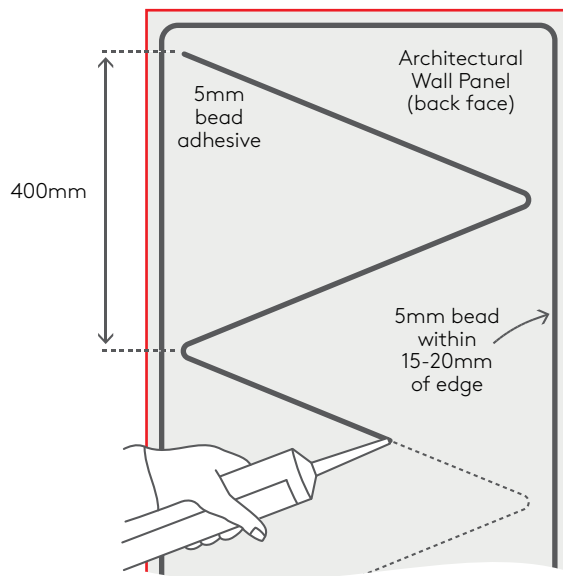
(Direct Adhesive Fixing continued)

### 7.4.2 Partial Panel Installation

After completing the measuring steps in section 6.3.1, cut your starting panel to be fixed at the start of the wall.

Start from one corner/edge of the wall and work across.

Apply construction adhesive starting with a 5mm bead around the edge of the panel (back face). Then apply an additional zigzag pattern of 5mm bead of adhesive, ensuring that the bead is within 15-20mm of the panel edge.



Position panel on the wall, ensure there is a 10mm expansion gap at the wall-to-floor interface.

Spacers can be used as a removable prop to lift the Architectural Wall Panel off the floor.

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

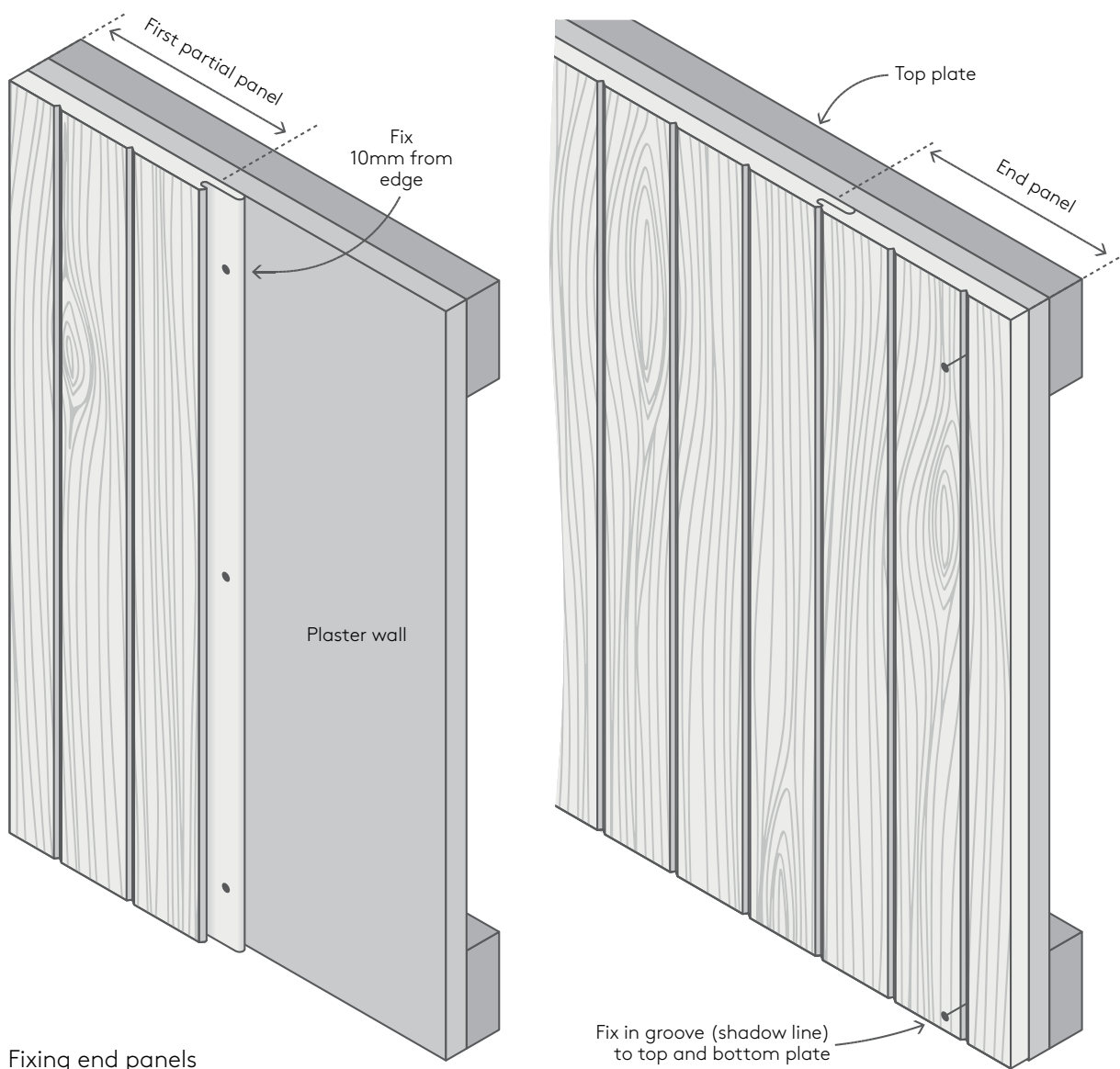
Use a spirit level to ensure the Architectural Wall Panel is accurately placed onto the wall. Refer to the section 5.2 to check wall is square and plumb.

Position the mechanical fixing at 10mm from the edge of Invislock® join of the panel and using nails or power-driven fasteners, fix the panel to the plasterboard/ fibre cement sheet at the top and bottom plate of the stud wall frame.



(Direct Adhesive Fixing continued)

When fixing full height Architectural Wall Panel, position the mechanical fastener at the Invisilock® join of the panel working from a top to bottom fixing pattern or vice versa. Using this fixing pattern, the first fixing should be located at the top or bottom plate respectively. If this fixing pattern is not achievable, fix from the centre out of the Invisilock® join.



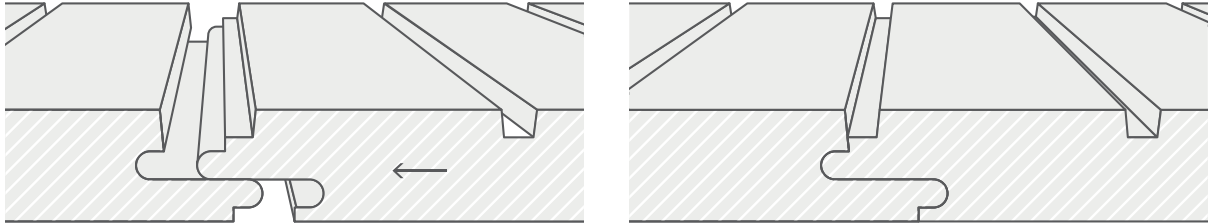
Fixing end panels

Remove the spacer from the bottom of the Architectural Wall Panel.

(Direct Adhesive Fixing continued)

Continue fixing full-size panels from the partial starting panel until you reach the remaining section of the wall. The next panel can now be placed into position using the Invisilock® join to align the joins.

**DO NOT** hard knock panels together.



Fix the other panels using the same method outlined above, working along the wall from the first panel.

As you approach a corner or doorway, measure the gap from the fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.

Cut the partial finishing panel to suit the remaining wall space.

### **Fixing End Panel:**

Apply construction adhesive as explained above.

Position the mechanical fixing at the panel's shadow line (groove) and use hand nails and a hammer to fix the panel to the plasterboard/fibre cement sheet at the top and bottom stud wall plate.

Putty or paint can be applied to hide the nail head if required.

### **7.4.3 Full panel installation:**

After completing the measuring steps in section 6.3.1, use a full-size panel to start the installation from one corner of the wall and work across.

Apply construction adhesive starting with a 5mm bead around the edge of the panel (back face). Then apply an additional zigzag pattern of 5mm bead of adhesive, ensuring that the bead is within 15-20mm of the panel edge.

Position panel on the wall, ensure there is a 10mm expansion gap at the wall-to-floor interface.

Spacers can be used as a removable prop to lift the Architectural Wall Panel off the floor.



(Direct Adhesive Fixing continued)

Ensure there is a 10mm expansion gap at the wall-to-ceiling interface.

Use a spirit level to ensure the Architectural Wall Panel is accurately placed onto the wall. Refer to the section 5.2 to check wall is square and plumb.

Position the mechanical fixing at 10mm from the edge of Invisilock® join of the panel and using nails or power-driven fasteners, fix the panel to the plasterboard/ fibre cement sheet at the top and bottom plate.

If required, position a secondary mechanical fixing at the centre shadow line (groove) and use hand nails and a hammer to fix the panel to the plasterboard/ fibre cement sheet at the top and bottom stud wall plate.

If required, a nail punch can be used to sink the head of the nail just below the shadow line surface. This can then be finished with putty or paint.

When fixing the full-height Architectural Wall Panel, position the mechanical fastener at the Invisilock® join of the panel working from a top to bottom fixing pattern or vice versa. Using this fixing pattern, the first fixing should be located at the top or bottom plate respectively. If this fixing pattern is not achievable, fix from the centre out of the Invisilock® join.

Remove the spacer from the bottom of the Architectural Wall Panel.

The next panel can now be placed into position using the Invisilock® join to align the joins.

**DO NOT** hard knock panels together.



Fix the other panels using the same method outlined above, working along the wall from the first panel.

(Direct Adhesive Fixing continued)

As you approach a corner or doorway, measure the gap from the last fixed panel to the corner (effective width) and cut the next panel to fit the remaining space. It is important to maintain the expansion gap throughout.

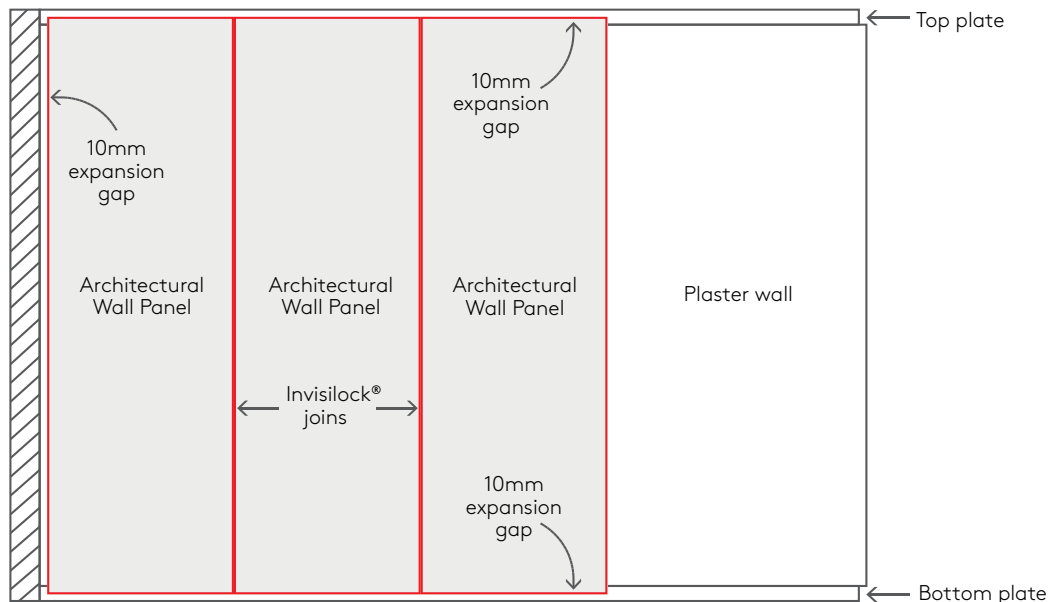
### Fixing End Panel:

Apply construction adhesive as explained above.

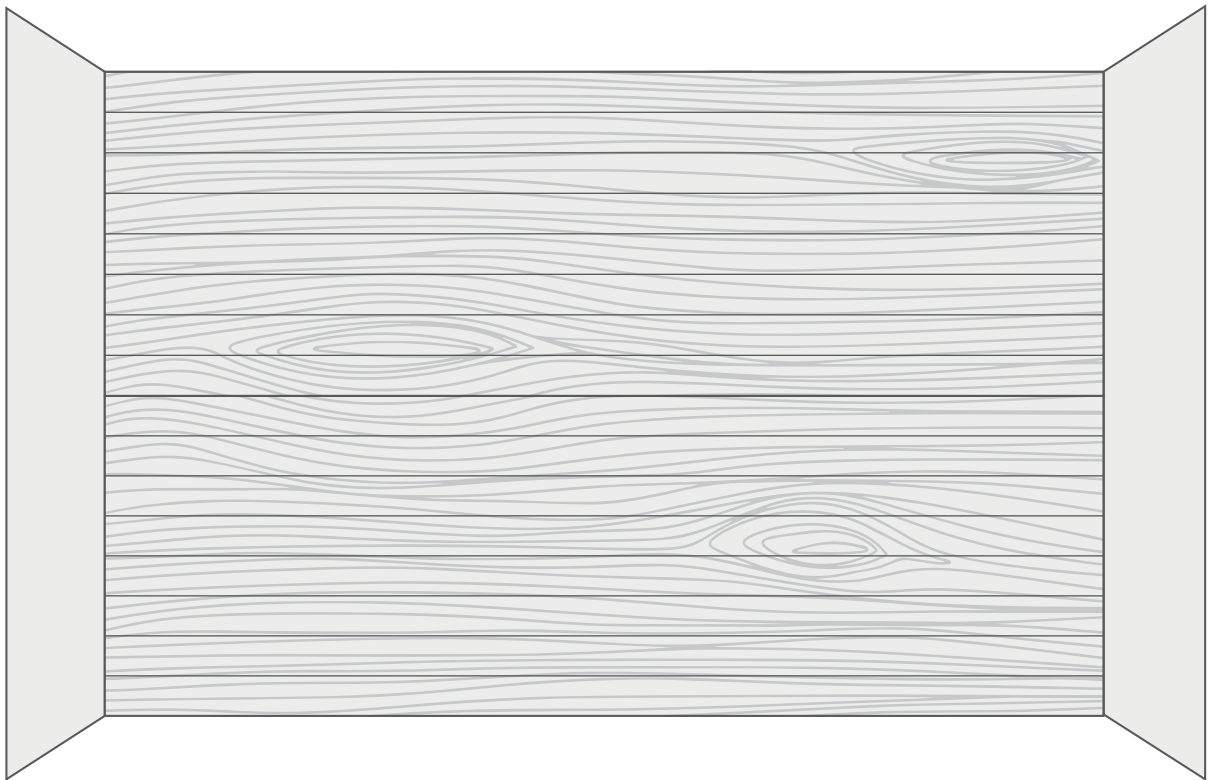
Position the mechanical fixing at the centre shadow line (groove) and use hand nails and a hammer to fix the panel to the plasterboard/fibre cement sheet at the top and bottom stud wall plate.

Gently press the front face of the panel if movement is detected (adhesive is yet to set), additional fixing can be used.

Putty or paint can be applied to hide the nail head if required.



## 7.5 Horizontal applications of Architectural Wall Panels



Installing panels horizontally utilises the same methods of installation for the wall substrates as described in the previous chapters with additional focus given to the following:

### 7.5.1 Planning join locations

The location of joins in horizontal applications for Architectural Wall Panels are critical, as the material expands more in horizontal axis (across the sheet). When joining full size panels together on a 6 meter wall, leave a 10mm minimum gap between the panels and at the end of each panel. This includes where there is a junction between panels, windows or door frames, or fixed assemblies.

Ensure that the profiles align correctly when installing horizontally maintaining the joining orientation.

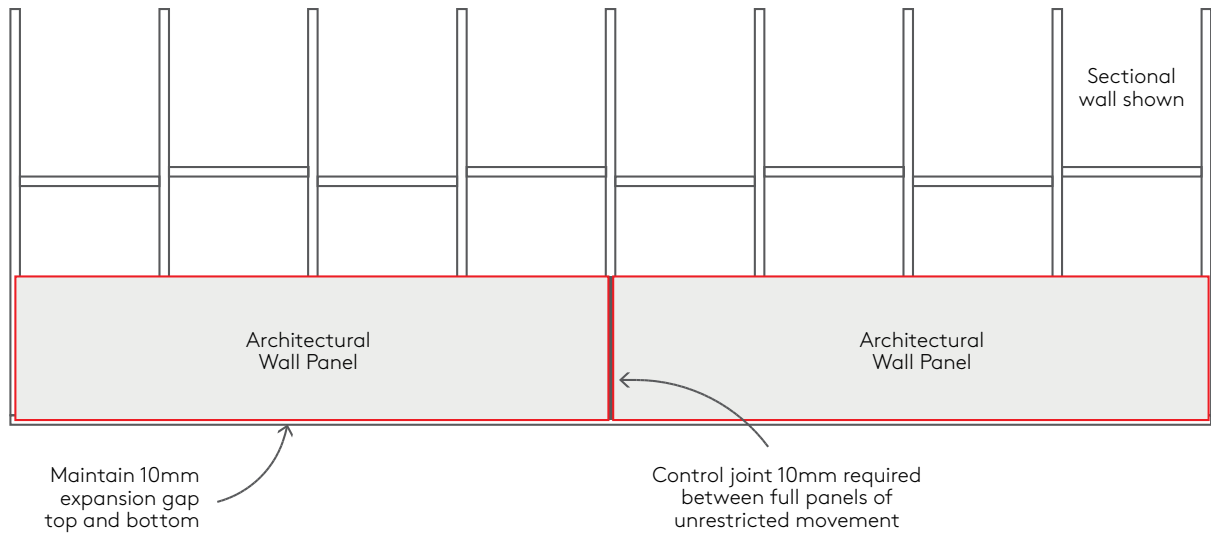
The vertical ends of horizontally installed panels do not have the integrated joining system. An alternative form of joint must be used such as expressed or negative details, or overlayed trims like dado rails can be used. The join method must allow for panel movement.

The location of the join should therefore be located centrally on the wall or place the main panel centrally to the wall.

Horizontal joins are aligned by the Invisilock® join.



Use of butt joints between panels ends will not be recognised under the warranty



An allowance of a 10mm expansion gap between every set of 10 panels **MUST** be provided. This can be achieved using express joints or shadow lines, as needed.



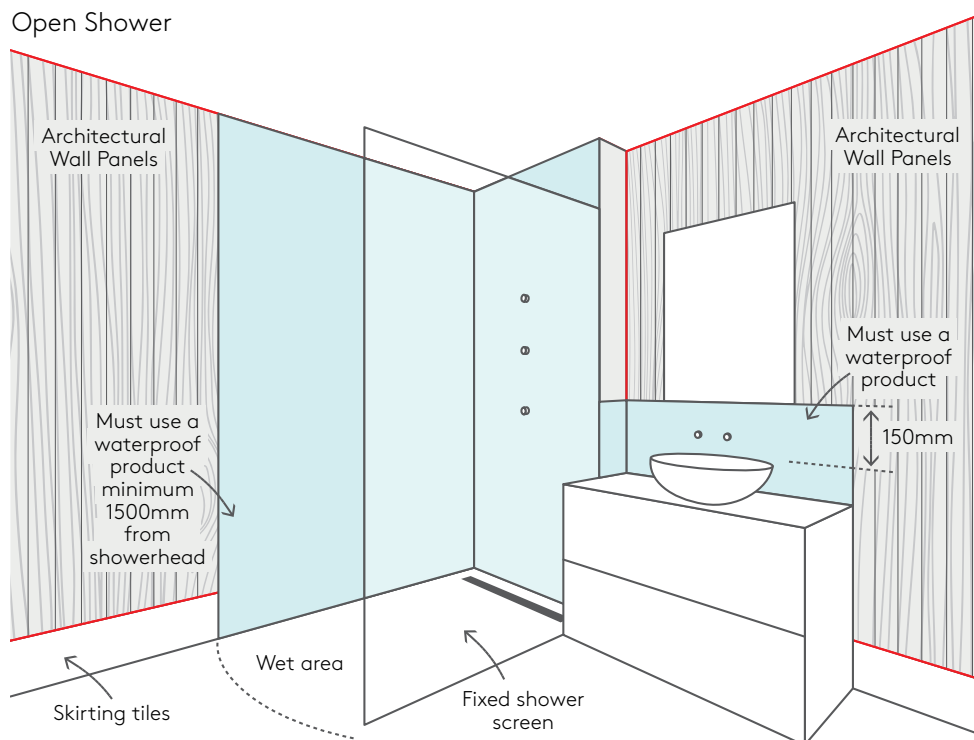
## 7.6 Installation of Architectural Wall Panels in High Humidity and Damp Areas

**DISCLAIMER:** Architectural Wall Panels cannot be installed in direct 'Splash Zones'. This includes showers or any application where a vessel (bath, tapware, or basin) is within 75mm of the wall.

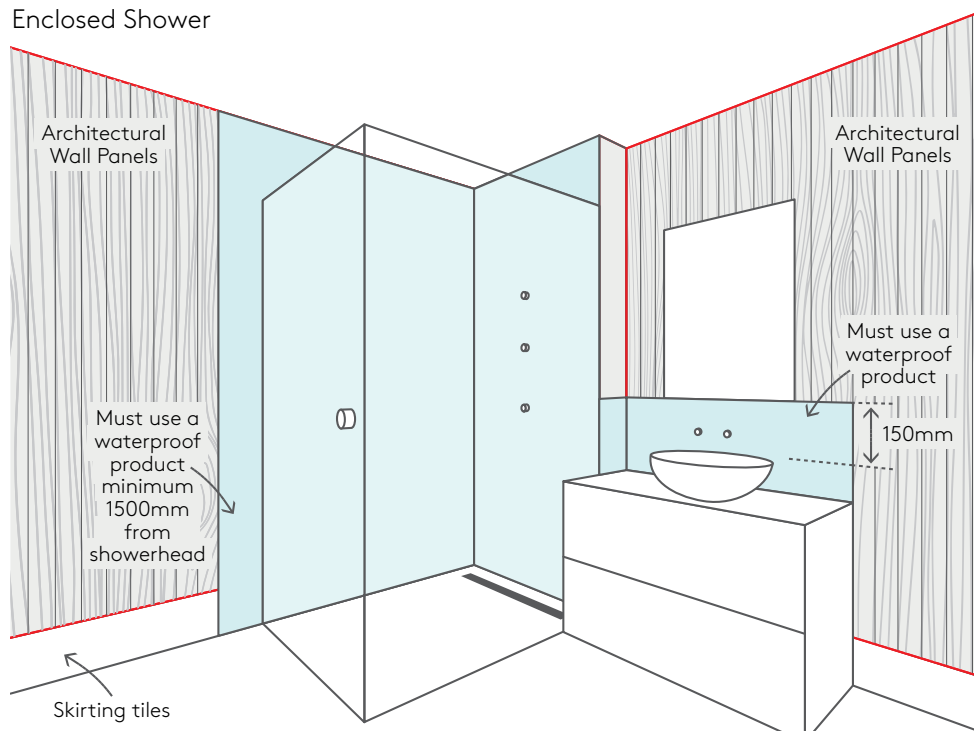
However, Architectural Wall Panels can be installed on all other walls within bathrooms and laundries, so long as the installation complies and is in accordance with **AS 3740:2021 Waterproofing of Domestic Wet Areas** and NCC Volume One, F1.7 and Volume Two, 3.8.1).

- Ⓢ Claims resulting from failure to adequately seal all exposed edges will not be recognised under the warranty.
- Ⓢ Claims resulting from panel deflection or movement as a result of moisture ingress or steam will not be recognised under the warranty.

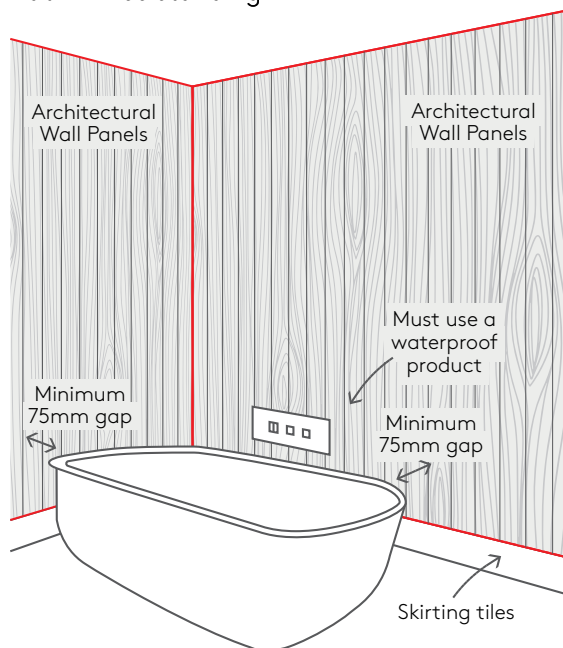
Open Shower



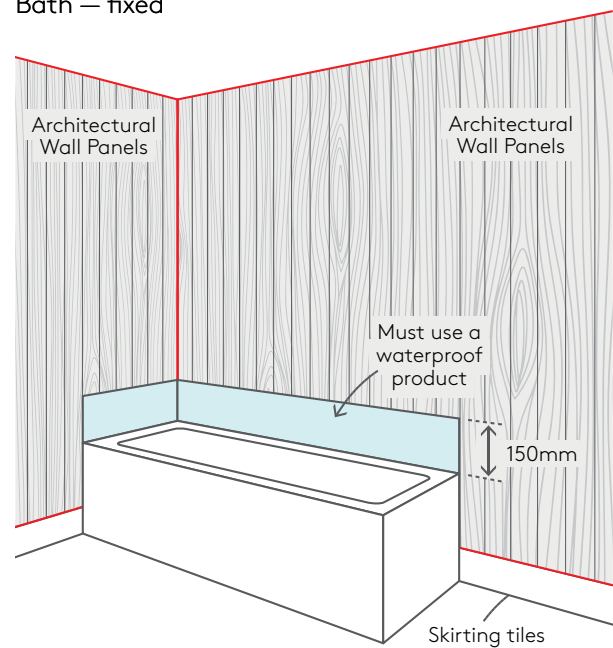
## Enclosed Shower

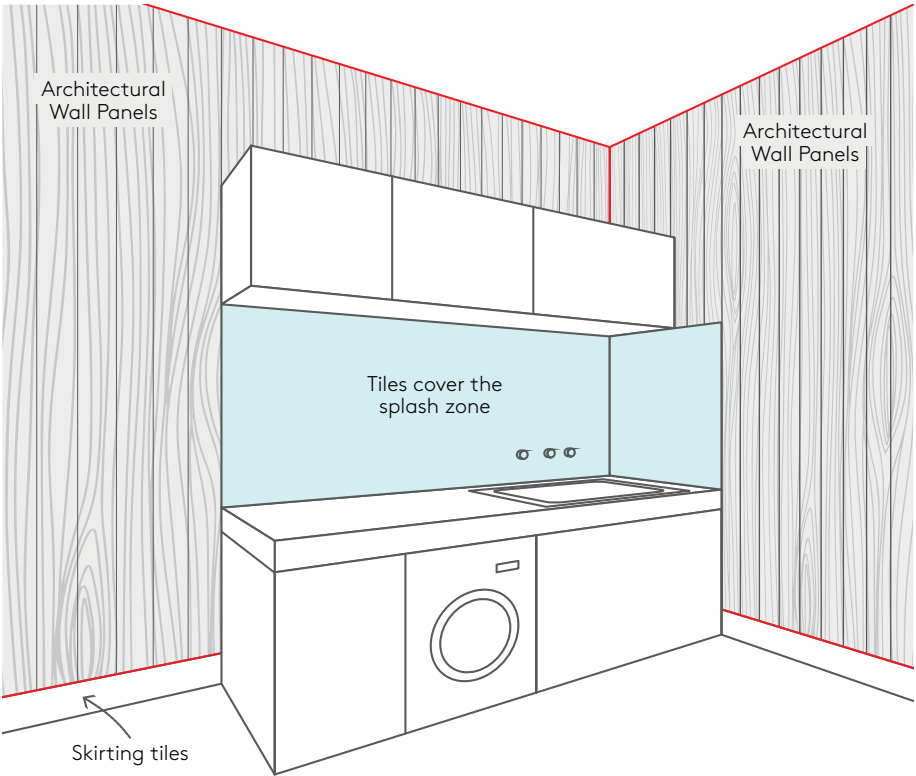
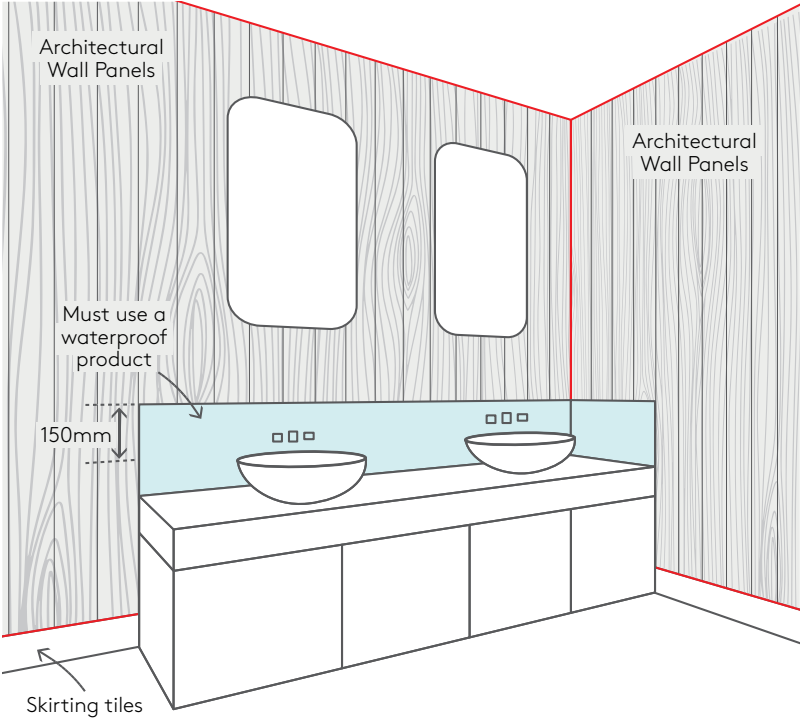


## Bath — free standing



## Bath — fixed





## 7.7 Installation of Architectural Wall Panels adjacent to fireplaces and stoves

**Safety:** When planning to install Architectural Wall Panels near your fireplace, safety is the most important consideration. Before installing a fireplace make sure you have checked all safety standards and clearance rules that apply. The distance required between a fireplace unit and any combustible material has regulations set out in the fireplace Australian Safety Standards. It is also important to check state-based regulations as rules vary from state to state.



Damage caused by installation adjacent to or around a fireplace is not protected under warranty. Smoke, creosote, ash & soot deposits may permanently damage or impact the appearance of the panels and may be difficult to clean.



Damage to Architectural Wall Panels caused by a poorly maintained fireplace, flue or other fittings and fixtures used in the association is not protected under warranty.

The fireplace design, type of fuel it uses and whether it emits heat, smoke, embers or other pollutants to the surfaces and fixtures nearby should all be taken into consideration when planning your project.

Please hire a professional tradesperson if you need any assistance when installing your Architectural Wall Panels.

### Types of Fireplaces:

There are many kinds of fireplaces which are defined by the type of fuel and the overall design of the appliance.

Fuels may include wood burning, gas burning, ethanol burning, pellets, alcoholic gel, liquid fuels, electric, etc.

Design styles may include: Open hearth, closed hearth (with doors), freestanding stoves, enclosed zero clearance fireplaces.

There are other bespoke designs or modified versions of traditional fireplaces.

### Installation of Architectural Wall Panel on walls adjacent to a fireplace:

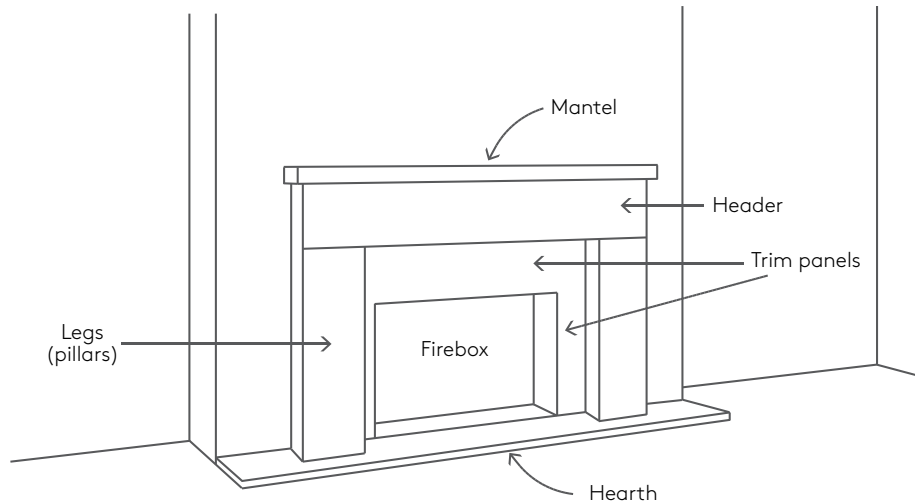
Please follow all instructions for Architectural Wall Panels determined by the type of wall to which the panels will be affixed. Refer to Section 7 for more information.

Where a purchased fireplace unit is used, you must follow the manufacturer's instructions that guide what types of materials should be considered for use around the appliance, taking note of instructions for non-flammable and combustible materials. Architectural Wall Panel cannot be used in any location or on any surface which are restricted from the use of combustible materials.



Some fireplaces (e.g. open hearth – wood burning) are constructed with an open-faced firebox in brick or stone and are part of the architecture of a property where no manufacturer’s guidance is provided. Where this is the case, please consult with a licensed industry specialist to ensure construction is in accordance with the Fire Code/applicable Australian Standards and National Construction Code.

#### **A guide to names of Fireplace Elements**

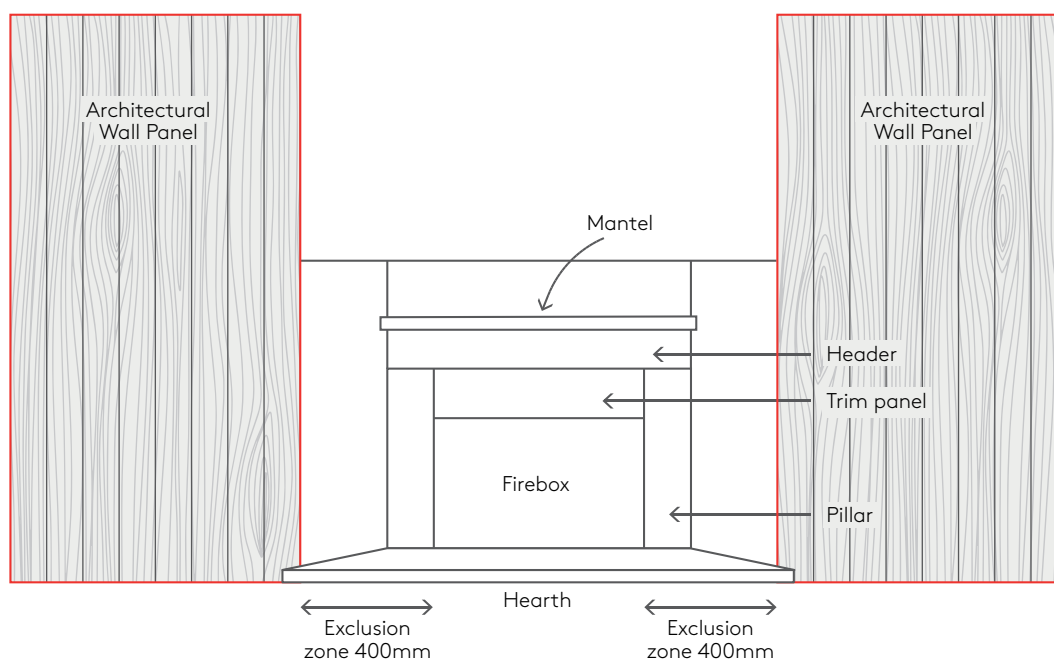


#### **Traditional Fireplaces (open or closed):**

Architectural Wall Panels may be used adjacent to the surround or trim panels- legs, jambs or pillars, or above the mantelpiece where a distance of at least 400mm is maintained between the external edges of the firebox and the closest edge of the panel.

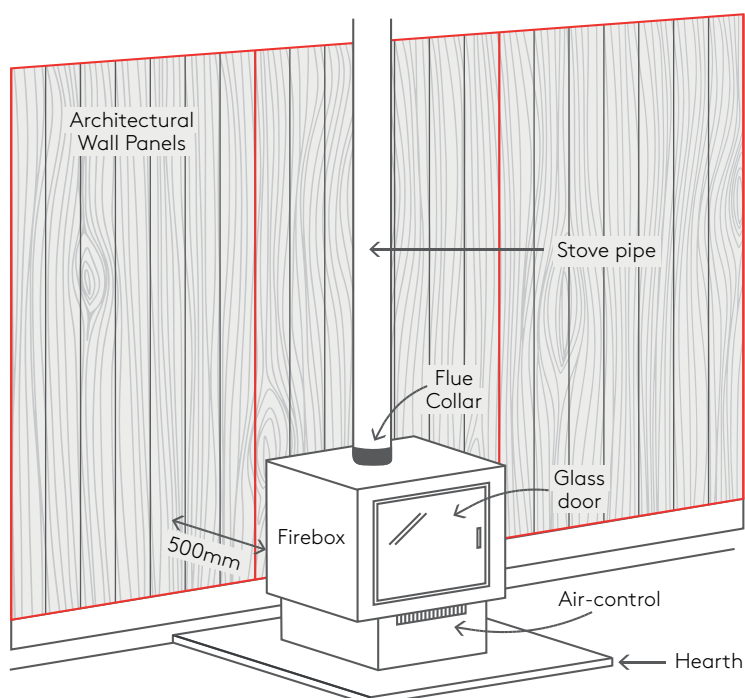
Architectural Wall Panels cannot be used for any of the following elements of a fireplace:

- Inside or around the firebox
- Hearth/plinth
- Legs, jambs, or pillars
- Surround or trim panels
- Header, corbel or mantelpiece



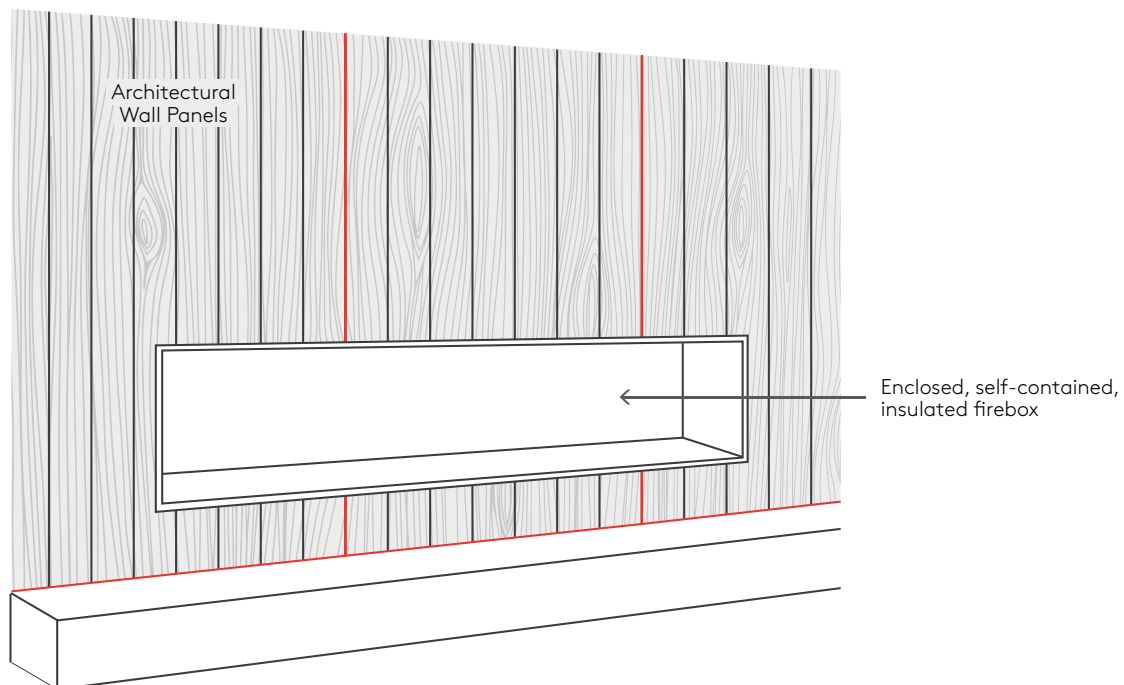
### Freestanding fireplaces:

Architectural Wall Panels may be used on walls adjacent to the fireplace or on a wall behind a freestanding wood burner where there is a maintained distance of at least 500mm from the nearest edge of the flue or heat-conducting material.



## Zero Clearance Fireplaces:

Architectural Wall Panels may be used up to the sealed edge of a zero clearance fully insulated self-contained firebox when installed using the manufacturer's instructions.



## 7.8 Use and fixing of dado rails and mouldings

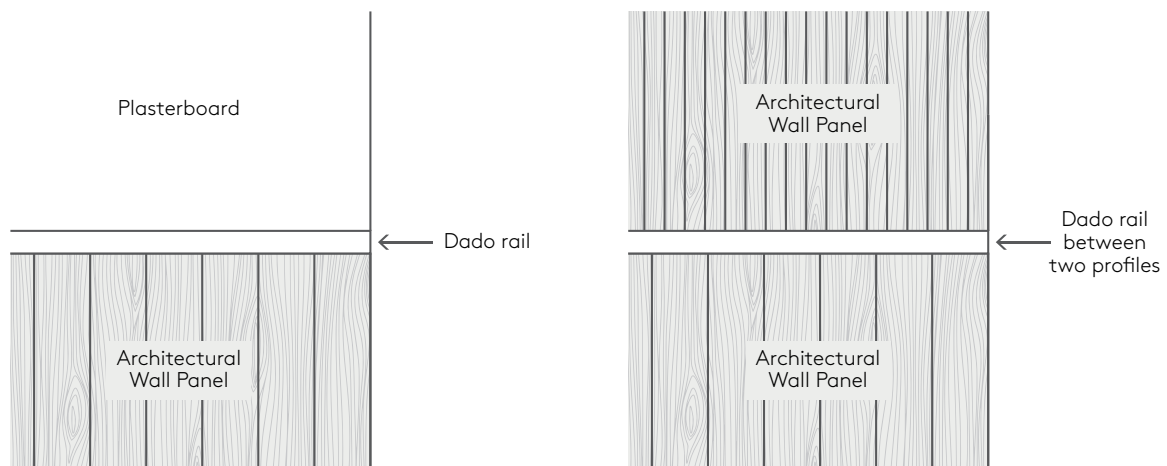
Consider the height of your dado rail, whether it will be interrupted by architraves, windows or doors, and the optimum height to achieve an unbroken line where practical.

When using two different profiles side by side, apply a dado rail along the interface join between the profiles.

Dado rails or equivalent timber mouldings may be employed as a finishing trim:

- Along the joint between any two different Architectural Wall Panel decors used together
- Where an Architectural Wall Panel finishes part way up a full-height wall
- Where the top edge of an Architectural Wall Panel may be viewed from a void or higher position in the property
- To delineate between Architectural Wall Panels and a transition to painted or textile finishes on the same wall

Various options for finished timber trims, moulding and dado or chair rails are available.

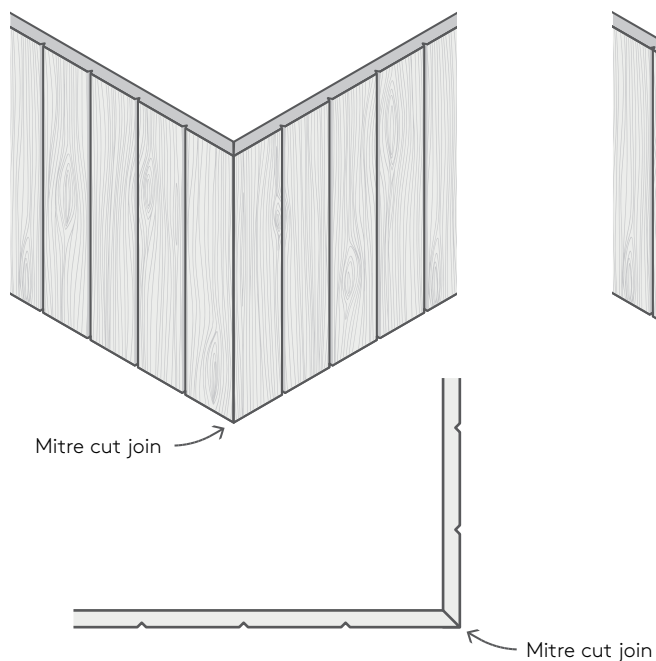


## 7.9 Joining System

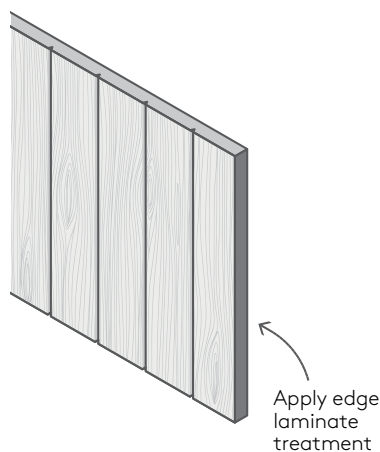
### 7.9.1 Corner Joins

Expansion gaps of 10mm must be maintained between Architectural wall panel – walls/fixtures. Joining technique/design such as mitred corners may impede expansion requirements. Caution should be taken as failures attributable to lack of expansion gaps are not covered under warranty.

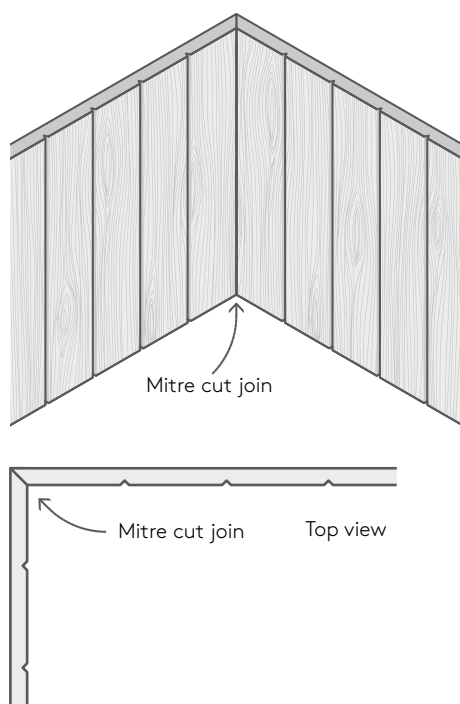
External Mitre Corner



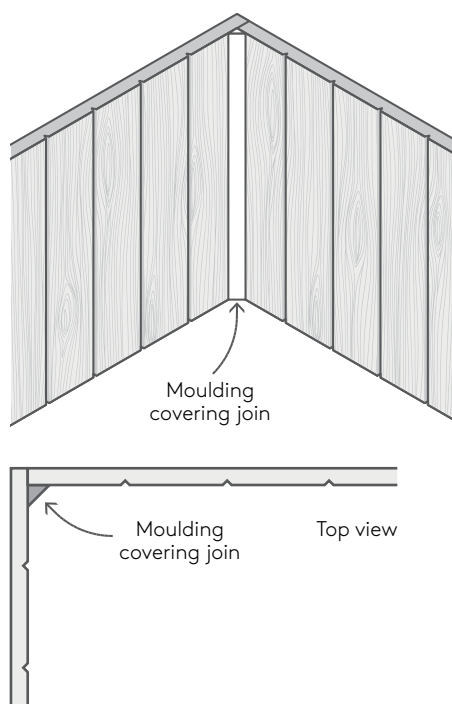
Edge Panel



Internal Mitre Corner

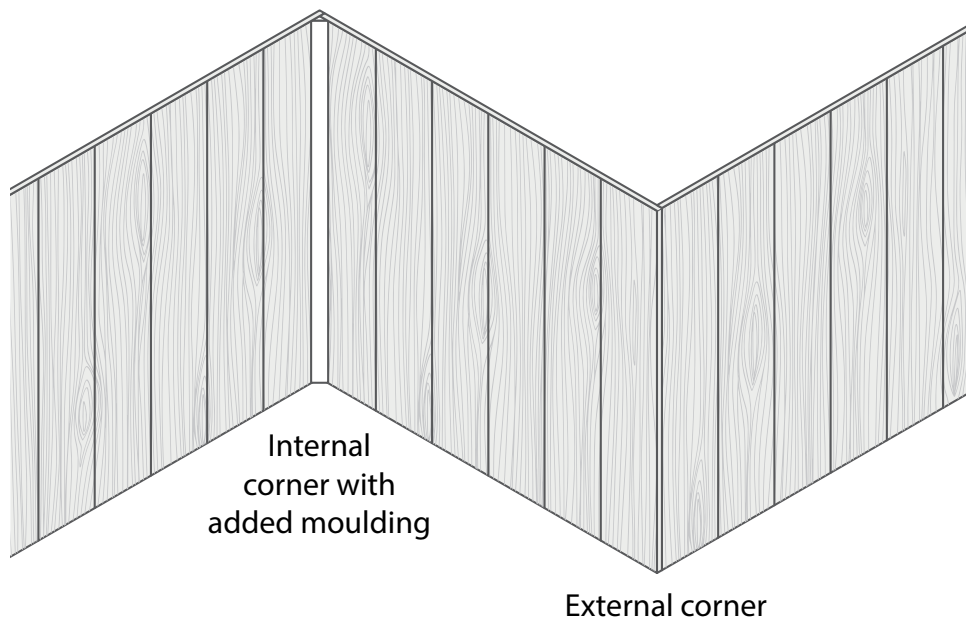


Internal Corner With Moulding



### 7.9.2 Corner Mouldings and Joins

When Architectural Wall Panels meet in a corner additional moulding may be required. Ensure to allow the expansion gap at the corner.



Disclaimer: Directional variations in the protective coating may affect the reflectivity of the surface. Slight shading and minor variations in the surface finish only visible at an acute angle or under critical light will not be covered under warranty. Darker decors have a greater propensity to demonstrate this contrast. This does not affect the overall performance or durability of the product

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