



Castellation Cladding

INSTALLATION & MAINTENANCE
GUIDE



puracomposites.ie



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*The diagrams and instructions outlined in this guide are for illustration purposes only and are not meant or implied to replace a licensed professional.

Any construction or use of PURA TECH must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction and use of this product.



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STORAGE & HANDLING

While composites are highly durable, to ensure their lasting beauty, please follow these important guidelines when storing, moving and working with PURA TECH products



STORAGE

- Material should always be covered until it is ready to be installed to maintain a clean surface. If stored outside use a non-translucent material
- All products should be stored flat and level, supported above the ground at 500mm intervals
- Battens used to separate and support any stored decking material should be spaced no more than 500mm apart, to ensure the boards don't bow
- Stack units with banding and bottom supports aligned
- Pallets of cladding boards should not be stacked more than 4 pallets or 3m in height



HANDLING

- PURA TECH materials should be placed and not dumped when unloading
- When removing boards from a unit, lift the boards and set them down, do not slide boards against each other when moving them
- Carry PURA TECH boards on the edge for better support
- During construction, do not slide or drag any equipment across the boards
- The surface of the boards should be kept free of construction material and waste to prevent damage
- We recommend that two people handle the boards during transportation

BEFORE STARTING - IMPORTANT NOTES

SAFETY

With any type of construction project, it is necessary to wear appropriate safety equipment to avoid any risk of injuries. Pura Composites recommends, but does not limit it to the following safety equipment, when handling, cutting, and installing PURA TECH: gloves, a respiratory protection, long sleeves, pants, & safety glasses.

TOOLS

Standard woodworking tools may be used. It is recommended that all blades have a carbide tip. Standard stainless steel or acceptable coated deck screws and nails are recommended.

PLANNING

Plan a layout for your cladding before starting it to ensure the best possible looking cladding for your project. We recommend drawing a site plan for your proposed cladding project to minimize errors and ensure a successful outcome.

CONSTRUCTION

PURA TECH is NOT intended for use as columns, support posts, beams, joist stringers, support against a force, or other primary load-bearing members. PURA TECH must be supported by a code-compliant substructure. While PURA TECH products are great for retrofits, PURA TECH 's products CANNOT be installed on existing cladding boards.

STATIC

Static can be more prevalent in areas that are of higher altitude because the humidity is lower. For these areas, be careful of using conductive objects such as metal railing and chairs as static shocks might occur more often. A potential way to lower the amount of static shocks occurring is to apply Staticide (www.aclst.com).

VENTILATION

PURA TECH products CANNOT be directly installed onto a flat surface. It must be installed onto a substructure, so there is adequate and unobstructed air flow under the cladding to prevent excessive water absorption. A minimum of 25 mm of continuous net free area under the cladding surface is required for adequate ventilation on all cladding, so air can circulate between adjacent members to promote drainage and drying.

HEAT AND FIRE

Excessive heat on the surface of PURA TECH products from external sources such as but not limited to fire or reflection of sunlight from energy efficient window products. Low-emissivity (Low-E) glass can potentially harm PURA TECH products. Low-E glass is designed to prevent passive heat gain within a structure and can cause unusual heat build-up on exterior surfaces. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause PURA TECH's products to melt, sag, warp, discolour, increase expansion/contraction, and accelerate weathering. Current or potential customers that have concerns about possible damage by Low-E glass should contact the manufacturer of the product, which contains Low-E glass for a solution to reduce or eliminate the effects of reflected sunlight.

EXPANSION AND CONTRACTION VALUES

PURA TECH castellation cladding boards will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Fastening the cladding boards according to the gapping requirements noted in the following table accommodates for this movement.





LENGTH (METRES)

	1	2.44	2.88	3	3.66	4	4.88	5.4
0	1.4	3.4	3.9	4.2	5.1	5.6	6.8	7.6
5	1.2	2.9	3.4	3.6	4.4	4.8	5.9	6.5
10	1.0	2.4	2.8	3.0	3.7	4.0	4.9	5.4
15	0.8	2.0	2.2	2.4	2.9	3.2	3.9	4.3
20	0.6	1.5	1.7	1.8	2.2	2.4	2.9	3.2
25	0.4	1.0	1.1	1.2	1.5	1.6	2.0	2.2
30	0.2	0.5	0.6	0.6	0.7	0.8	1.0	1.1

Please Note:

1. The above table shows the OVERALL GAP required. If boards have a gap at each end, then halve the value shown.
2. If you are still unsure of what gap to use, contact the manufacturer and they will give you the correct gapping requirements based on your environment and area.

CASTELLATION CLADDING PARTS

Model	Photo	Purpose
<p>PURA TECH IPE Castellation Cladding</p>		<p>Castellation Cladding Board</p>
<p>PURA TECH IPE End Trim</p>		<p>F-Trim, used as the first and last board</p>
<p>PURA TECH IPE Corner Trim</p>		<p>Outside Corner Trim, used on the outside corners</p>
<p>PURA TECH Clip and Screw</p>		<p>Used at every joist to fix each board to the batten</p>

FASTENER AND UNDER CONSTRUCTION

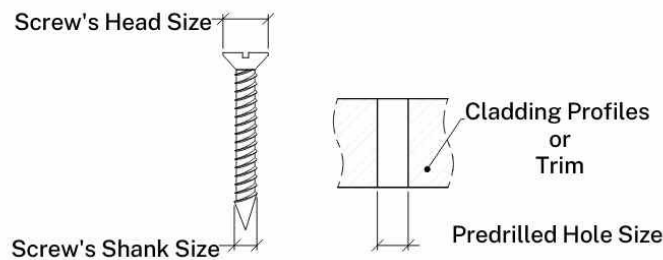
Fasteners

When fastening PURA TECH'S products all screws that are face fixed should always be stainless steel and be driven in at a 90 degree angle to the cladding surface. Toe screwing should never be done to the products. An extra joist should be added if a 90 degree angle cannot be driven into the board. All fasteners should be on their own independent joists, and when two boards ends meet each other there must be a sister batten. The end of each board must sit on its own batten. Use white chalk, straight boards, or string lines as templates for straight lines. NEVER USE COLOURED CHALK. Coloured chalk will permanently stain PURA TECH's products and are highly not recommended.

Depending on the screws that you use when face fixing, there could be potential bulging or mushrooming. It is recommended to take care of these mushrooms/bulges by taking a rubber mallet and patting them down to smooth out and improve the appearance. Always look to select screws that have been engineered specifically for composite wood. These screws will always work and give PURA TECH 's products the best looking outcome, using other screws that are not recommended for composite could potentially damage/harm the cladding. If you are unsure which screw to use, contact your manufacturer for more information.

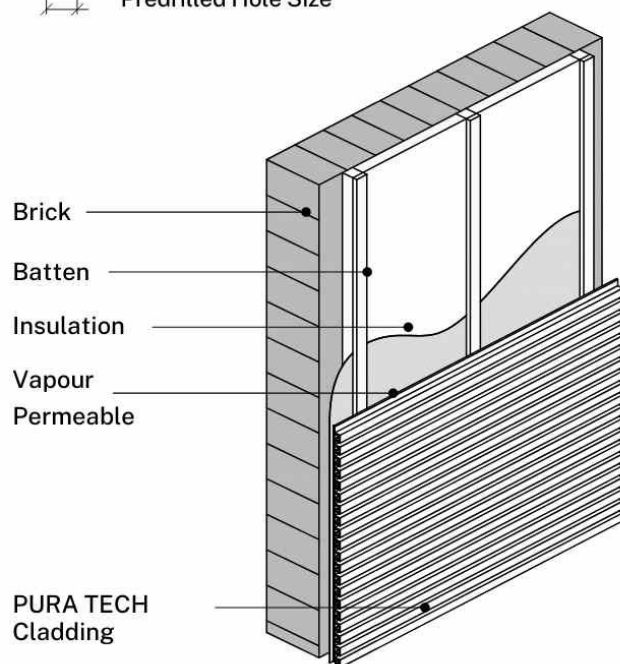
Pre-drill

When face fixing, it is recommended to pre-drill the holes slightly larger than the screw's shank size on the cladding profiles and the trims to allow for expansion and contraction response to temperature change, as shown in below diagram.



Under Construction

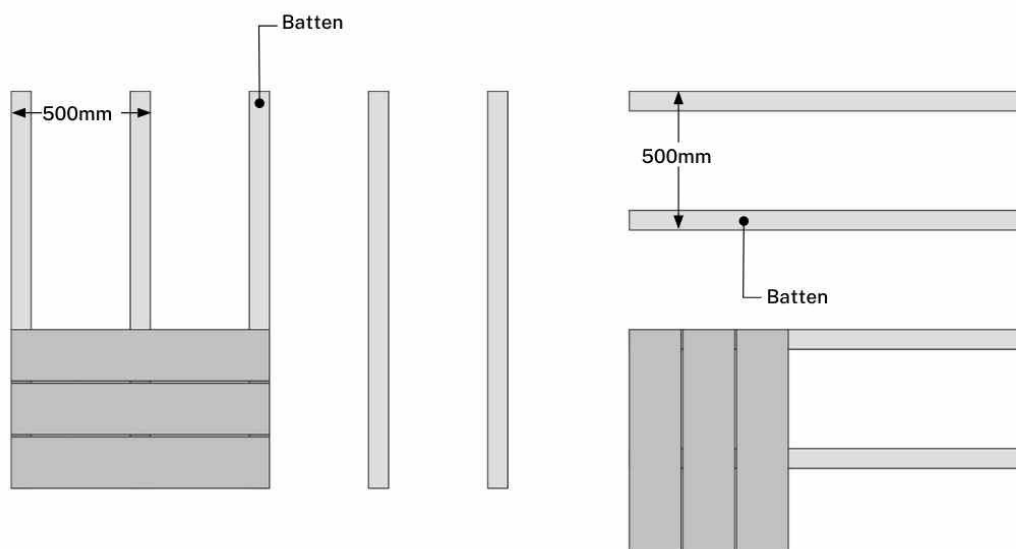
We recommend for the under construction metal/aluminium Top Hat Battens or Pre-primed H3 Timber Battens. Each cladding board needs to be supported by a batten spanning NO MORE than 500mm on centres. Extra care is required in order to provide sufficient joisting in and around obstacles such as windows, fascia's, soffits, guttering, ventilation points, etc. Here is an example of the layers that would occur in a typical installation, however, a licensed professional should always be consulted prior to any installation.



BATTENS INSTALLATION

Battens Installation

A building professional should be consulted regarding vapour barriers and insulation for your project. Where a vapour barrier is to be used, it should be a breathable type and must be positioned behind the battens. The batten needs to have a minimum thickness of 25mm. Battens should be fixed into position at a maximum of 500mm centres using a suitable A4 Stainless Steel Countersunk Wood/Masonry screw. All battens need to be flat and levelled against the wall surface using shims if necessary.



Horizontal Installation

Vertical Installation

LOCKING THE WALL CLADDING BOARD

Every clip comes with a separate hole in the case there is a need to lock the board. The wall cladding boards will expand and contract and to take care of this movement, we must lock the board in one position, **ONLY ONE LOCKING SCREW USED PER BOARD**, and then allow the board to expand and contract readily in the other direction. You can see how we lock the board in Diagram A, B, and C. Please Note: **DO NOT LOCK EVERY CLIP**. General rule of thumb is every board will only need one locking/fixation point.

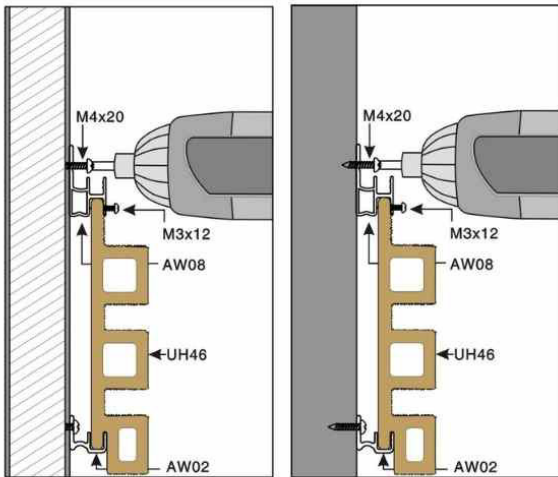
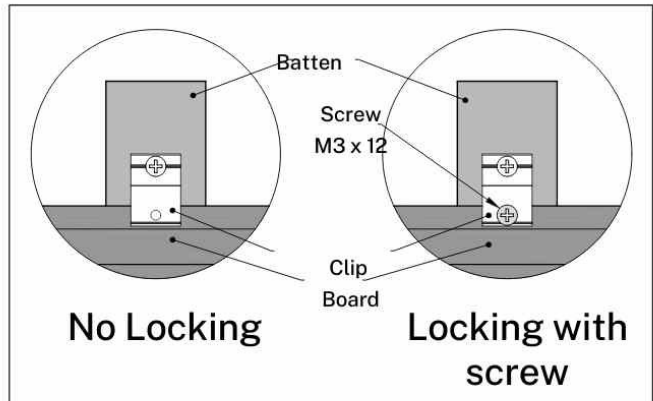


Diagram A

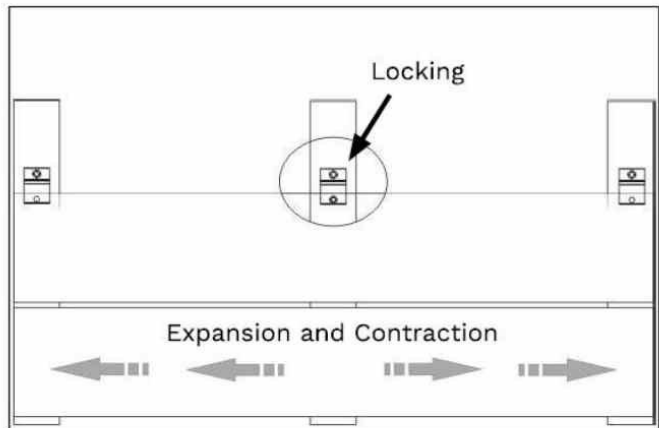


Diagram B

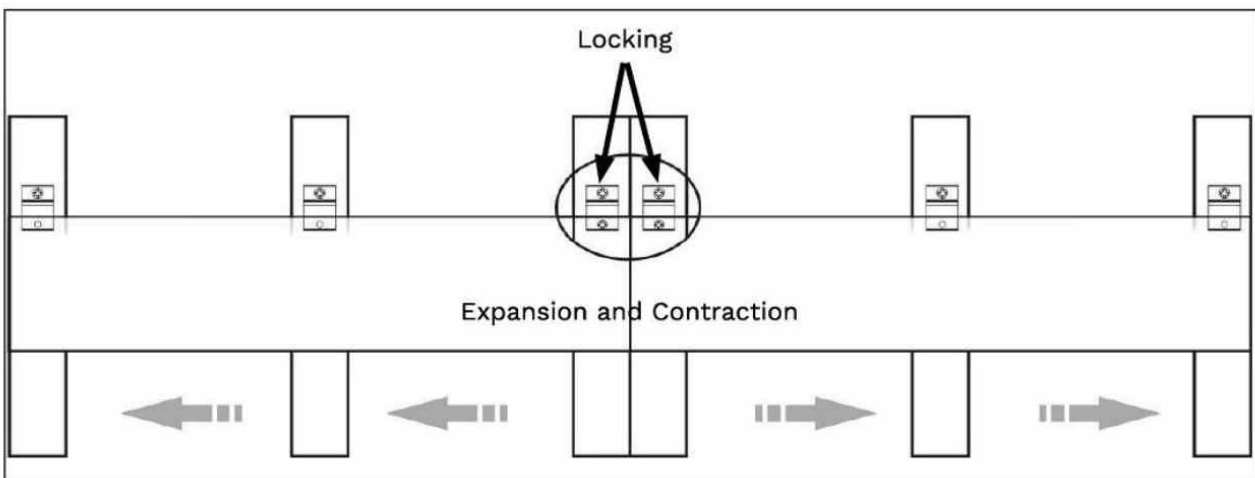


Diagram C

CASTELLATION CLADDING - VERTICAL INSTALLATION

Installation Procedure

Step 1: Framing

- Measure and Chalk the Battens
- Battens Installation

Step 2: Trim Installation

Step 3: Cladding Board Installation

- Installing the First Course
- Installing the Second Course
- Continuing the Remaining Installation
- Installing the Last Board

1 Framing

The frame needs to be level before installing the cladding boards. Diagram 1 shows the wall replicating different scenarios potentially occurring when installing the cladding boards.

Wall Side A: Cladding between the F-Trim and the Inside Corner

Wall Side B: Cladding between the Inside Corner and the Outside Corner Trim

Wall Side C: Cladding between two Outside Corner Trims

Wall Side D: Cladding between the Outside Corner Trim) and the F-Trim

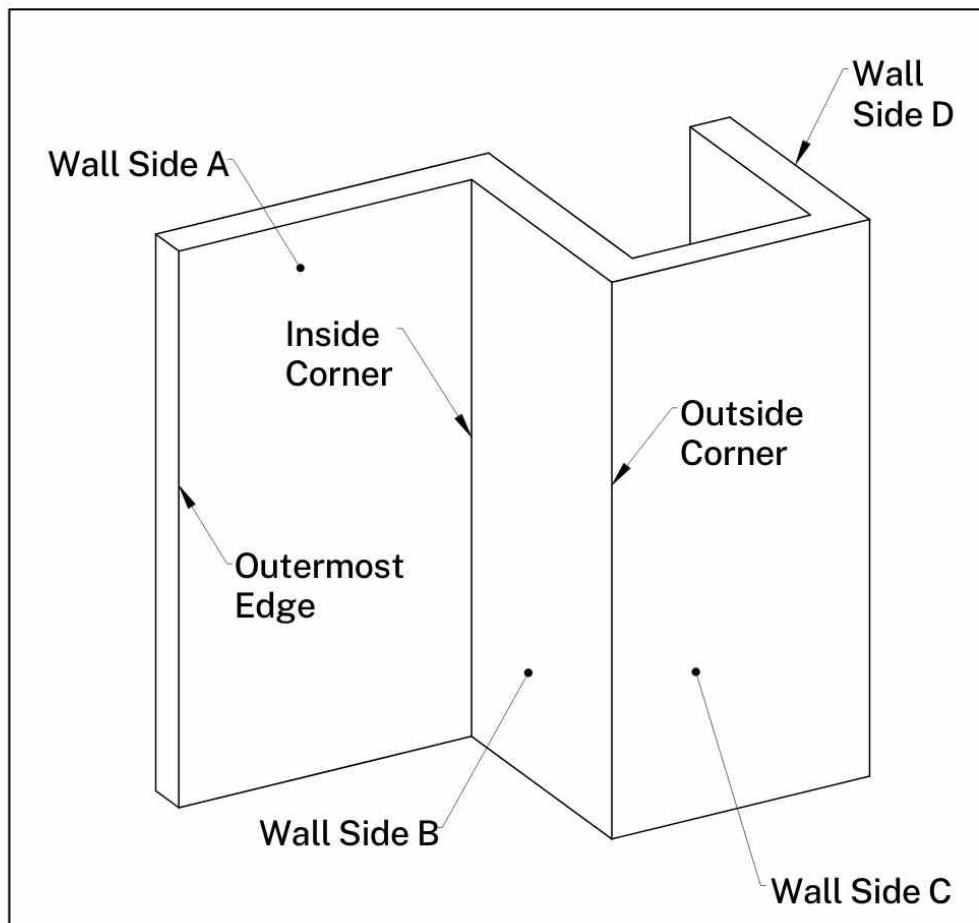


Diagram 1

CASTELLATION CLADDING - VERTICAL INSTALLATION

2

Measure and chalk the battens according to the span data specified on page 8 of this installation guide, as shown in Diagram 2.

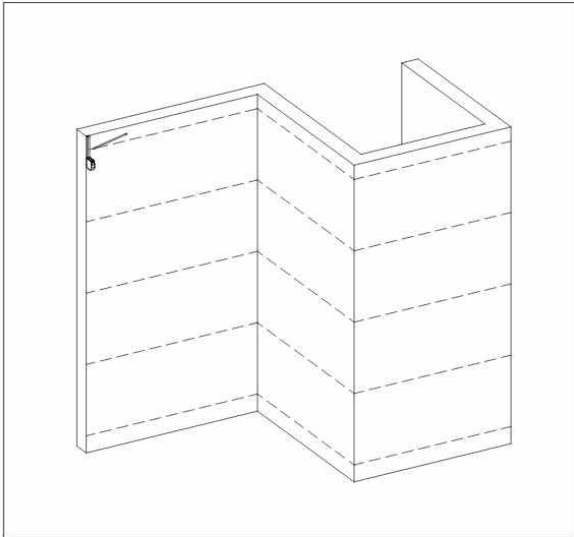


Diagram 2

Please Note:

1. We are using timber battens for this installation. If you are using metal/ aluminium battens..

2. An adequate span between the battens is required to keep the boards from bending. Please review page 5 of this installation guide to see what span is needed

3

Fix the battens onto the wall that you intend to install with screws. Please review page 8 to see what span is needed, as shown in Diagram 3.

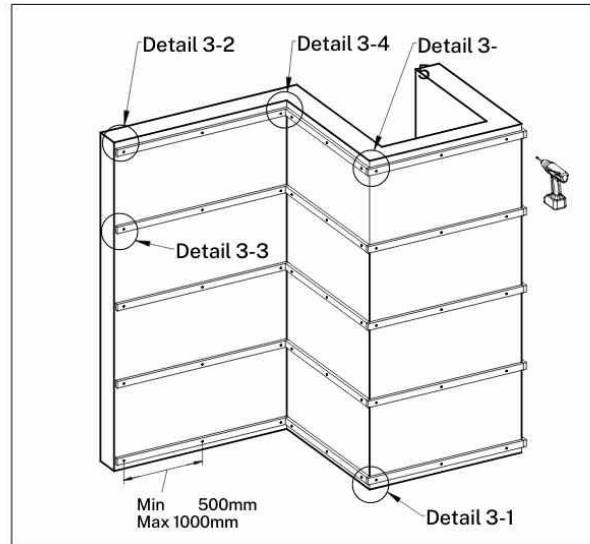
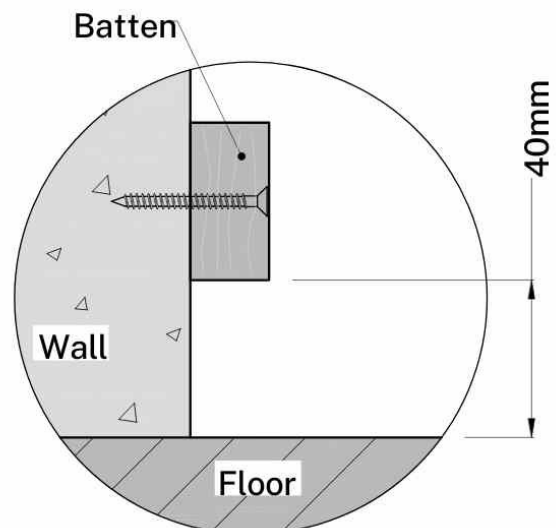


Diagram 3

Please Note:

1. A minimum clearance of 40mm needs to be left between the lowest batten and the floor, as shown in Detail 3-1.

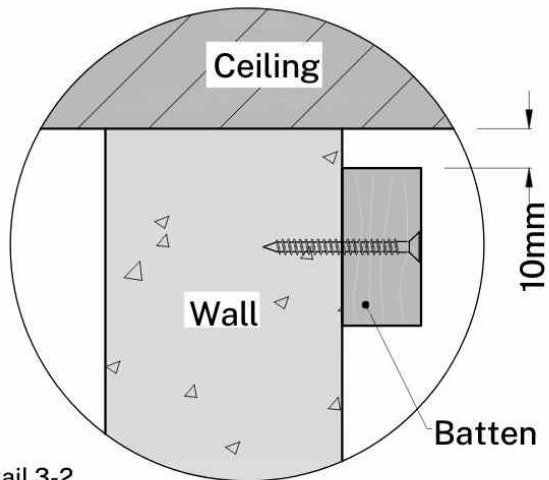


Detail 3-1

CASTELLATION CLADDING - VERTICAL INSTALLATION

Please Note:

2. A minimum clearance of 10mm needs to be left between the ceiling and the top of the battens, as shown in Detail 3-2.



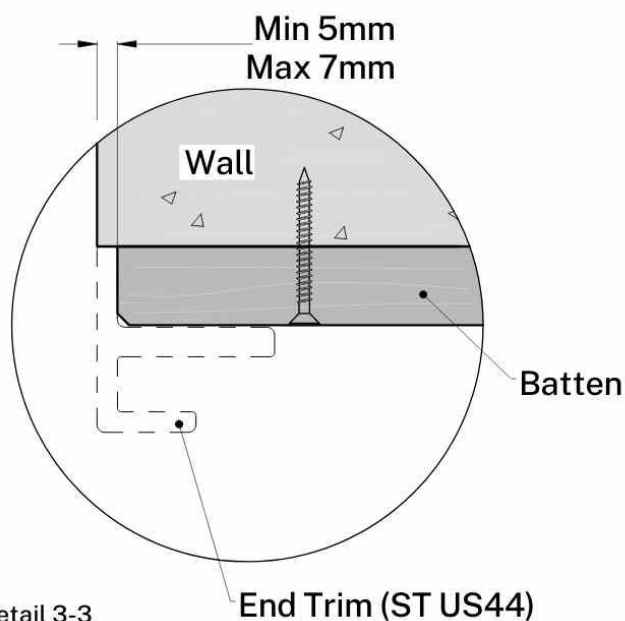
Detail 3-2

Please Note:

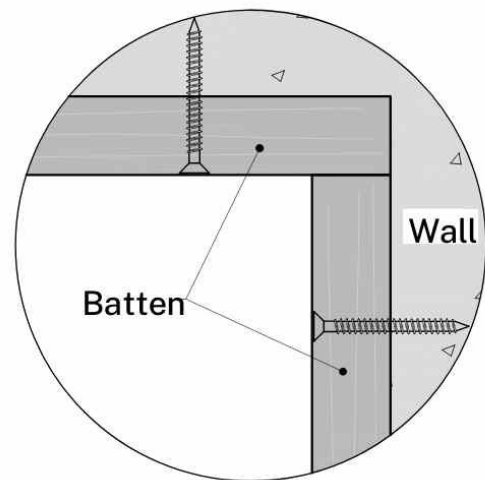
3. For the Outermost Edge (F-Trim), please install according to Detail 3-3.

4. For the Inside Corner (No trim is needed), please install according to Detail 3-4.

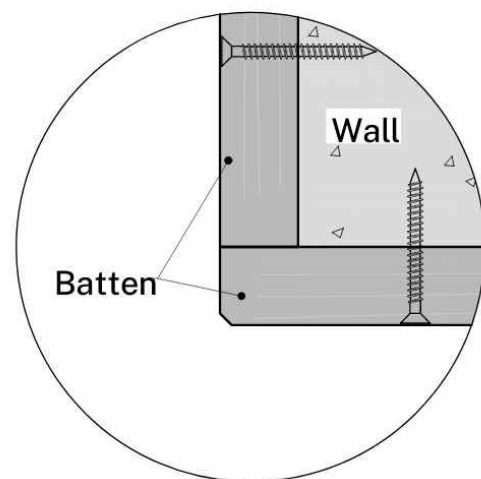
5. For the Outside Corner (Outside Corner trim), please install according to Detail 3-5.



Detail 3-3



Detail 3-4



Detail 3-5

CASTELLATION CLADDING - VERTICAL INSTALLATION

4 Trim Installation

Fasten the F-Trim onto the outermost edges and the Outside Corner Trim onto the outside corners with screws, as shown in Diagram 4.

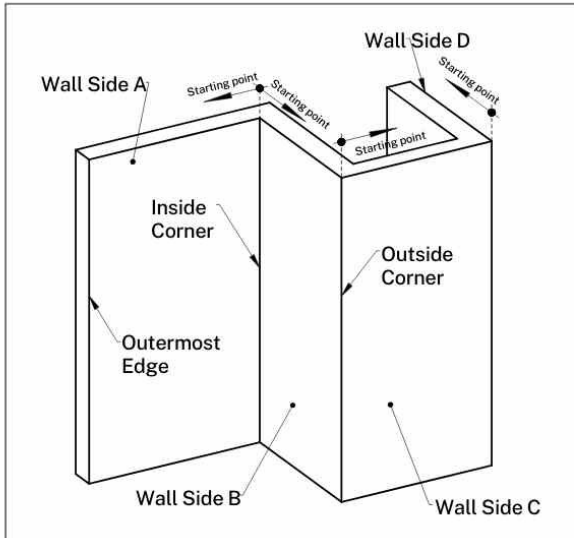
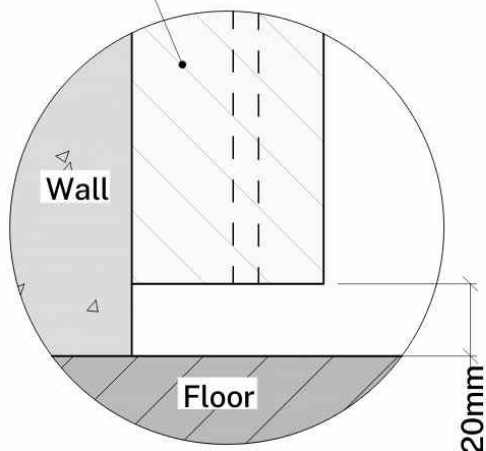


Diagram 4

Please Note:

1. A minimum clearance of 20mm needs to be left between the trims and the floor, as shown in Detail 4-1.

F-Trim or Outside Corner Trim)



Detail 4-1

5 Cladding Board Installation

It is recommended to start the installation according to Diagram 5.

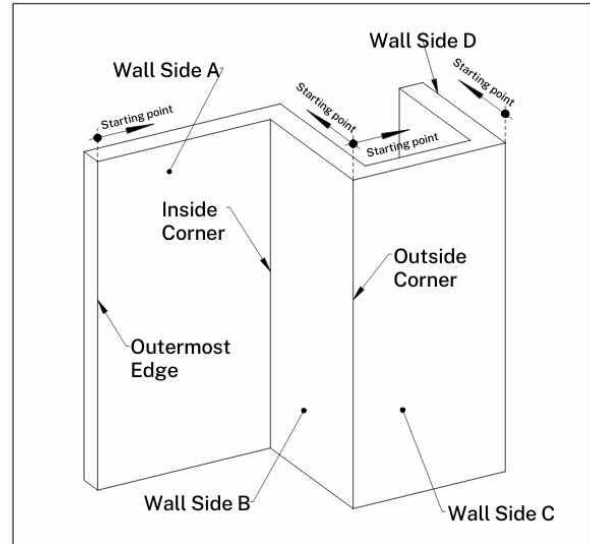


Diagram 5

Please Note:

1. Wall Side A: Cladding between the F-Trim and the Inside Corner,
 - Start from the Outermost Edge.
2. Wall Side B: Cladding between the Inside Corner and the Outside Corner Trim,
 - Start from the Outside Corner.
3. Wall Side C: Cladding between two Outside Corner Trims,
 - Start from one of the Outside Corners.
4. Wall Side D: Cladding between the Outside Corner Trim (UH51 and the F-Trim,
 - Start from the Outside Corner.

CASTELLATION CLADDING - VERTICAL INSTALLATION

6 Installing the First Course

- Wall Side A (Cladding between the F-Trim and the Inside Corner)
- Wall Side B (Cladding between the Inside Corner and the Outside Corner trim)

Put the first Castellation Cladding Board in place, then face fix it the side next to the trim onto the batten with screws (8Gx50 colour head composite screw), and fasten its other side onto the batten with Clip as shown in Diagram 6. Outermost Edge (F-Trim), as shown in Detail 6-1. Outside Corner (Outside Corner Trim), as shown in Detail 6-2.

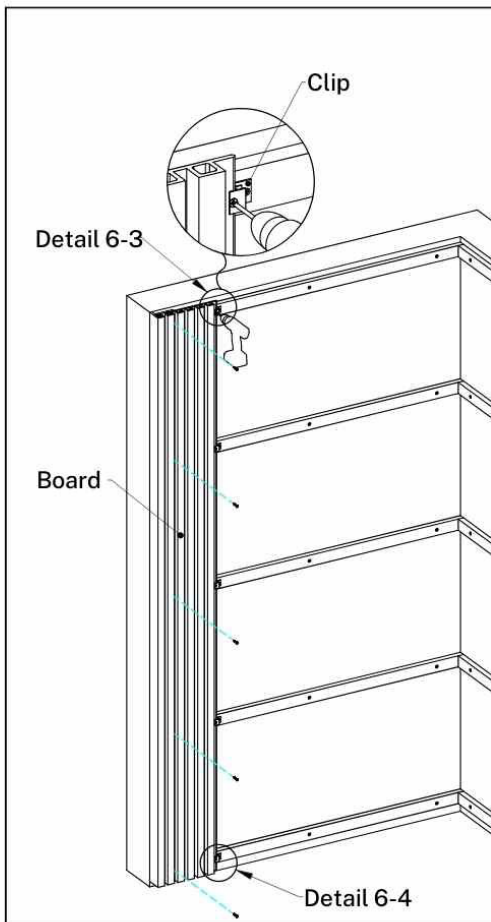
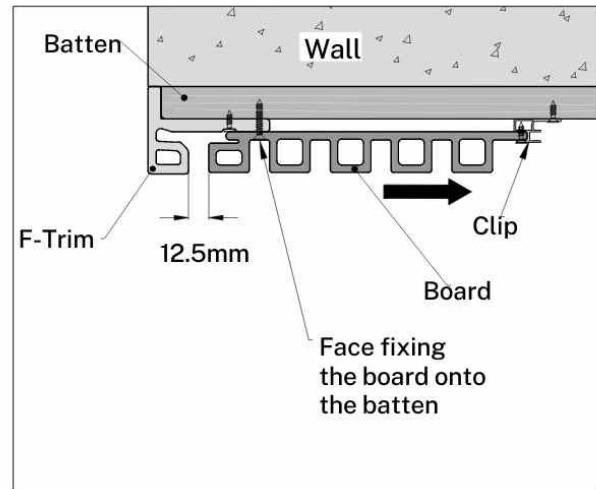


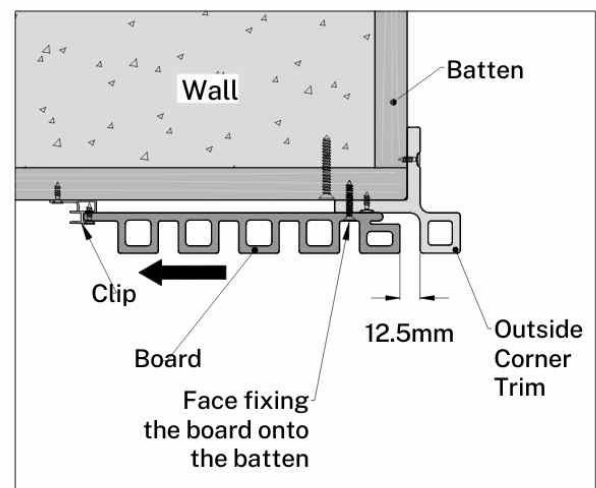
Diagram 6

Please Note:

Pre-drill the face fixing holes on the first board before installation to allow for expansion and contraction. Please review page 7, "Pre-drill", of this installation guide for further information.



Detail 6-1

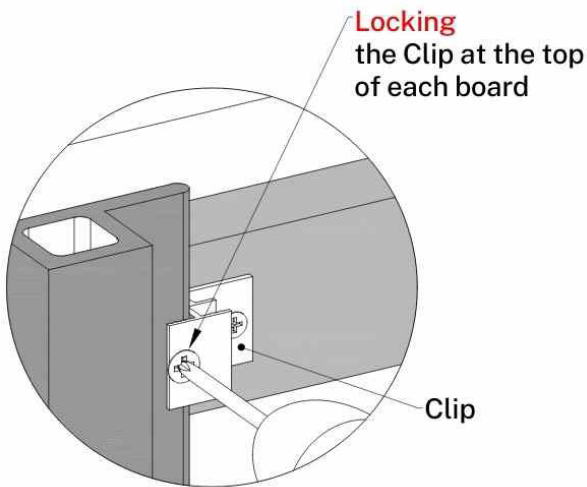


Detail 6-2

CASTELLATION CLADDING - VERTICAL INSTALLATION

Please Note:

1. Since the composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one fixed point but only one point to allow the remaining board to move freely. When installing vertically, it is required to lock the Clip at the top of each board, as shown in Detail 6-3. **DO NOT LOCK** any other Clip for the same board. Please review page 9, "Locking the Wall Cladding Board" of this installation guide for further information.

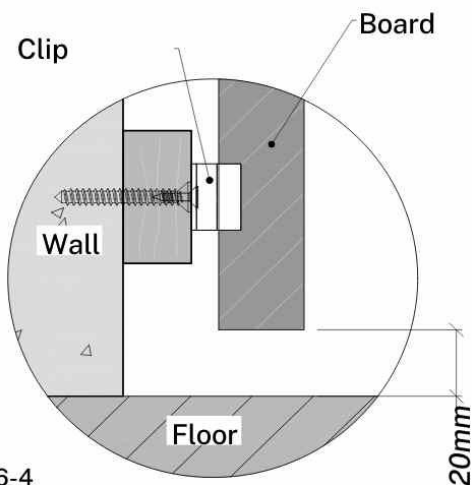


ONLY ONE LOCKING SCREW TO BE USED PER BOARD

Detail 6-3

Please Note:

Allow a gap of at least 20mm between the floor and the Cladding board.



Detail 6-4

7 Installing the Second Course

- Wall Side A (Cladding between the F-Trim and the Inside Corner)
- Wall Side B (Cladding between the Inside Corner and the Outside Corner trim)

Put the second Castellation Cladding Board over the first board's Clip and fasten its other side onto the batten with the Clip, as shown in Diagram 7. Outermost Edge (F-Trim), as shown in Detail 7- 1. Outside Corner (Outside Corner Trim), as shown in Detail 7-2 .

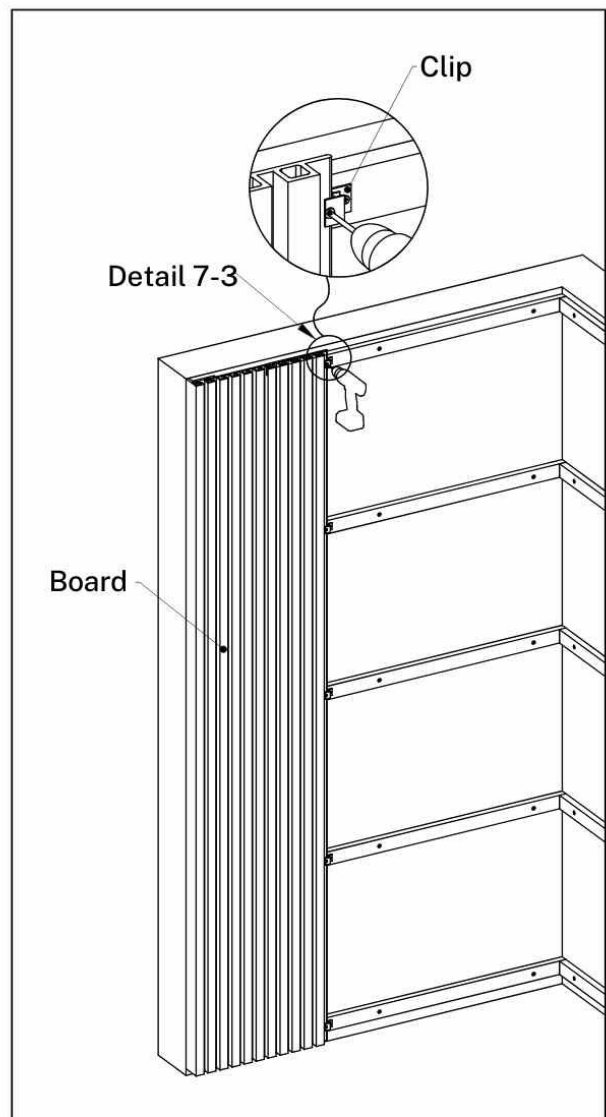
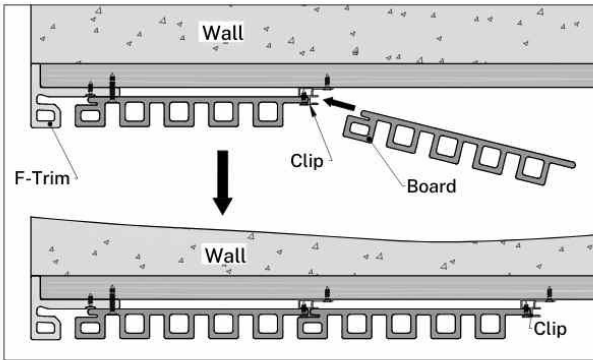


Diagram 7

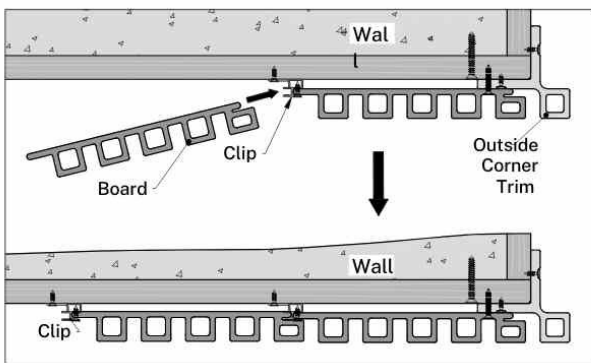
CASTELLATION CLADDING - VERTICAL INSTALLATION

Outermost Edge (F-Trim), as shown in Detail 7-1.



Detail 7-1

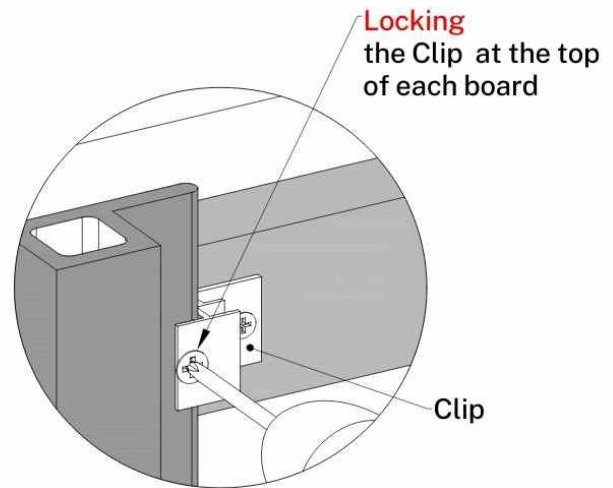
Outside Corner (Outside Corner Trim), as shown in Detail 7-2.



Detail 7-2

Please Note:

1. Since the installation of composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one fixed point but only one point to allow the remaining board to move freely. When installing vertically, it is required to lock the Clip at the top of each board, as shown in Detail 7-3. DO NOT LOCK any other Clip for the same board. Please review page 10, "Locking the Wall Cladding Board" of this installation guide for further information.



**ONLY ONE LOCKING SCREW
TO BE USED PER BOARD**

Detail 7-3

CASTELLATION CLADDING - VERTICAL INSTALLATION

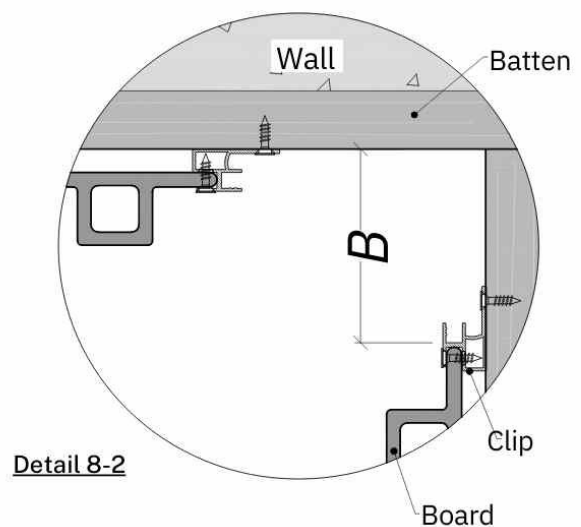
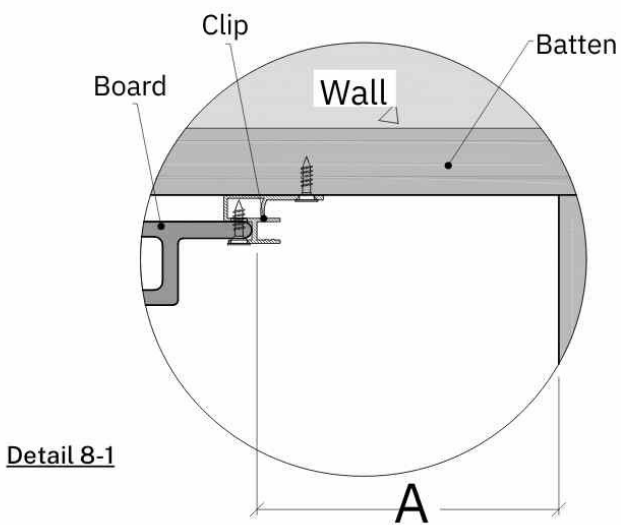
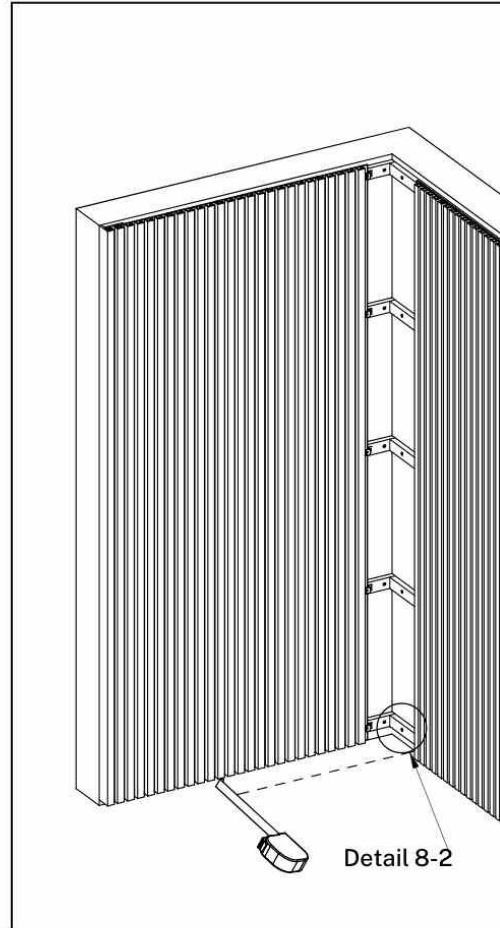
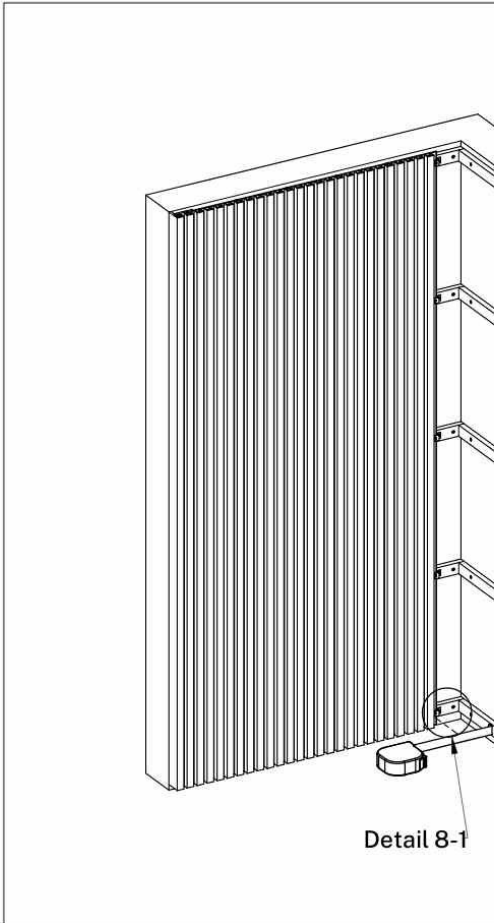
8

When you are at the last cladding board that the installation is toward the inside corner from the F-Trim, measure and record the distance between the adjacent batten and the Clip, as shown in Diagram 8-1 and Detail 8-1.

When you are at the last cladding board that the installation is toward the inside corner from the Outside Corner Trim, measure and record the distance between the adjacent batten and the Clip, as shown in Diagram 8-2 and Detail 8-2

Diagram 8-1

Diagram 8-2



Detail 8-1

Detail 8-2

CASTELLATION CLADDING - VERTICAL INSTALLATION

9

Cut the two last cladding boards according to the below calculation options,

Option 1: "A" minus 38mm, "B" minus 10mm

Option 2: "A" minus 10mm, "B" minus 38mm

Prior to cutting the boards, cut the scrap piece of material to determine which options can obtain the better board adjoining appearance, as shown in Diagram 11 and Detail 11-1.

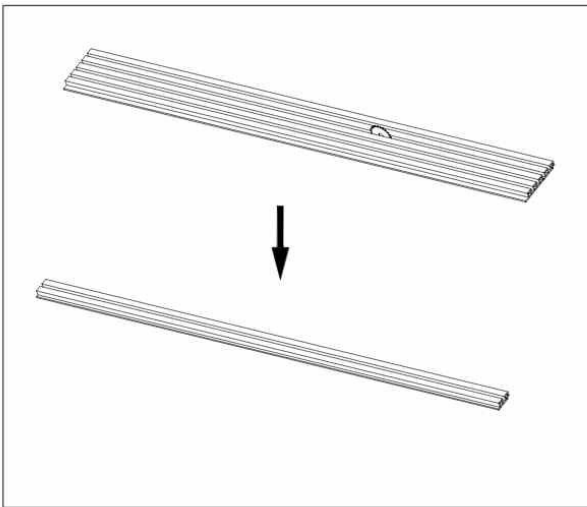
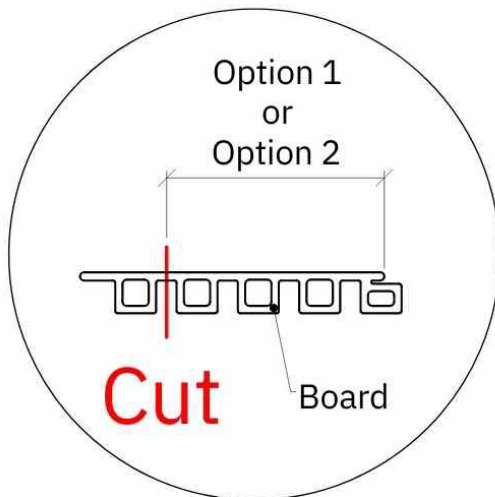


Diagram 11



Detail 11-1

10

Face fix the two last cladding boards onto the battens against the Rubber Stopper with screws (8Gx50 colour head composite screw), as shown in Diagram 12-1 and Diagram 12-2.

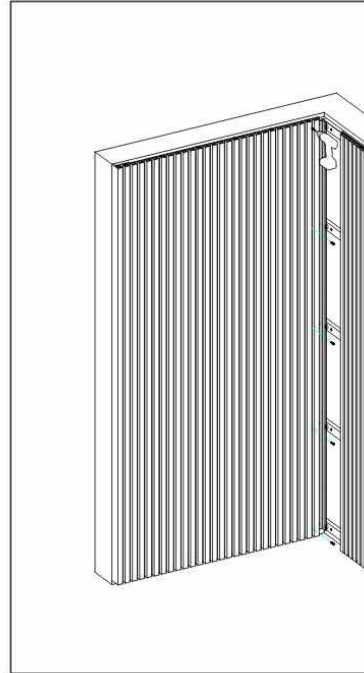


Diagram 12-1

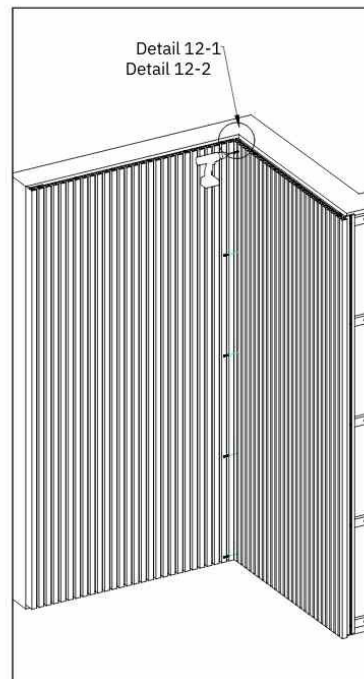
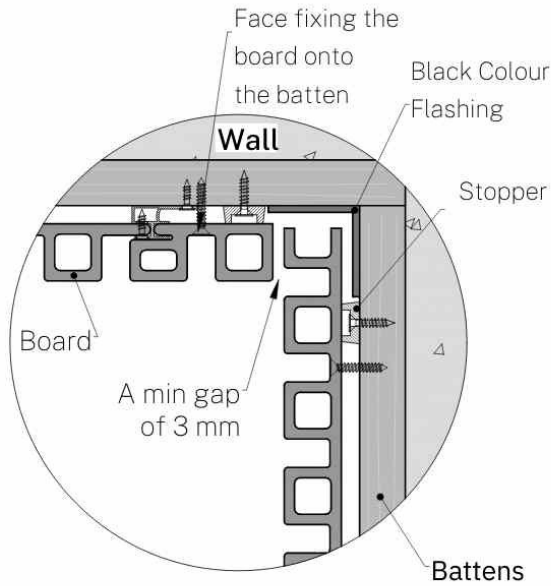


Diagram 12-2

18

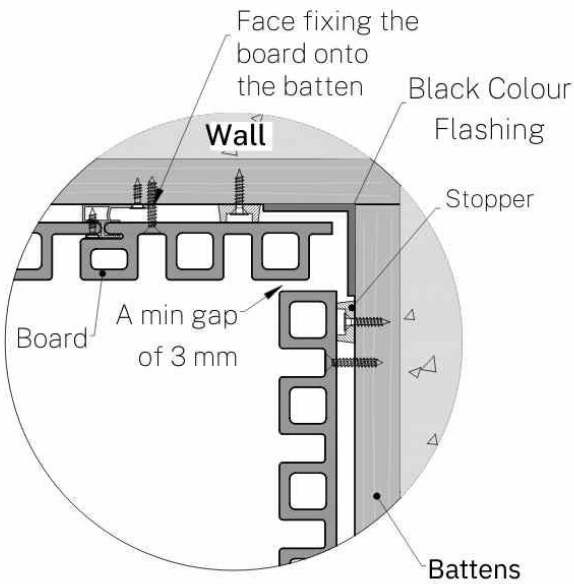
CASTELLATION CLADDING - VERTICAL INSTALLATION

Option 1 installation ("A" minus 38mm, and "B" minus 10mm), as shown in Detail 12-1



Detail 12-1

Option 2 installation ("A" minus 10mm, and "B" minus 38mm), as shown in Detail 12-2



Detail 12-2

11

Before Installation on

- Wall Side C (Cladding between two Outside Corner trims)

- Wall Side D (Cladding between the Outside Corner trim and the F-Trim)

Measure the distance in between the trims, as shown in Diagram 13-1.

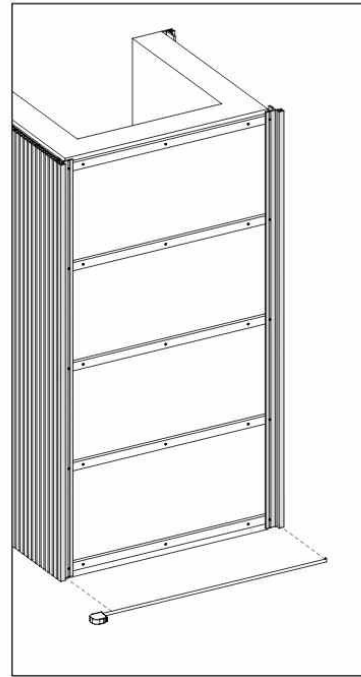
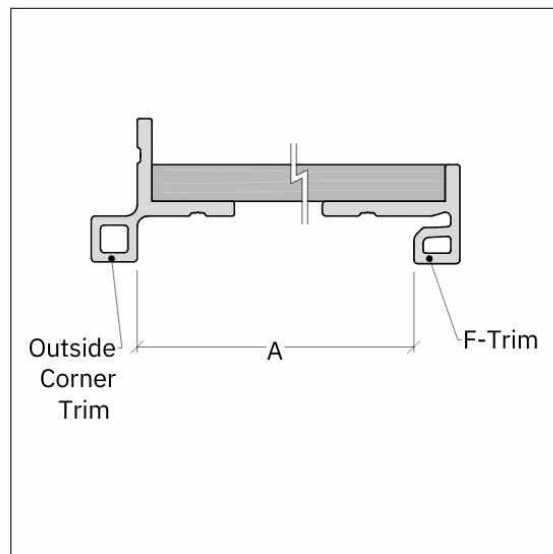


Diagram 13-1

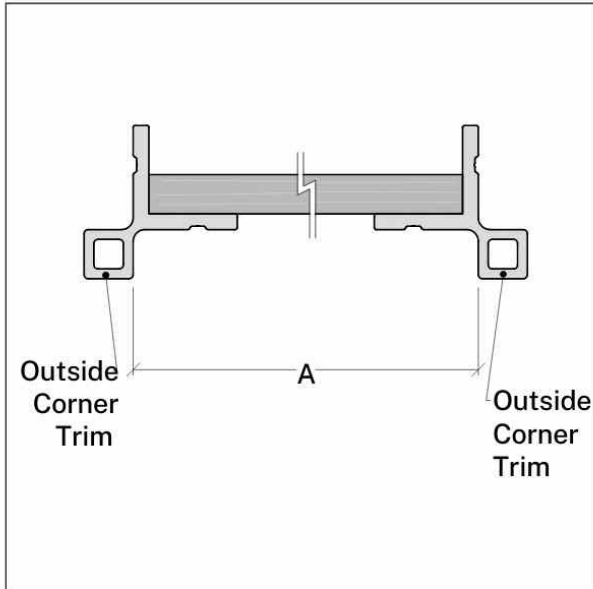
Detail 13-1 shows the measurement "A" in between the Outside Corner trim and the F-Trim.



Detail 13-1

CASTELLATION CLADDING - VERTICAL INSTALLATION

Detail 13-2 shows the measurement "A" in between two Outside Corner Trims.



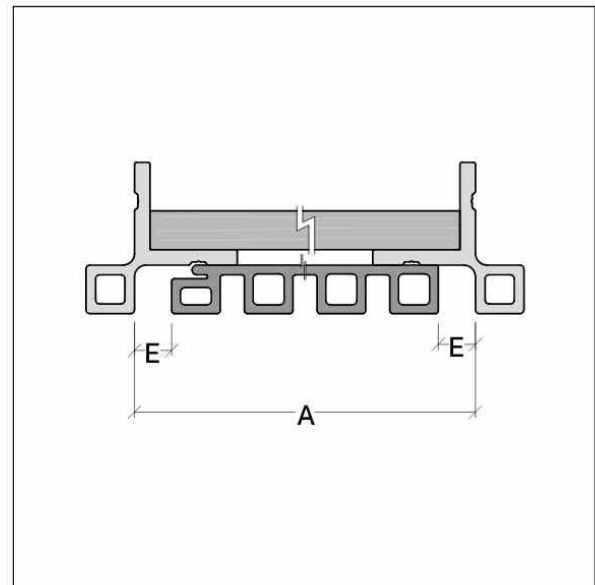
Detail 13-2

Once you know the measurement "A", you must calculate:

- The number of full profiles required
- Coverage of 186mm per board
- The width that the final profile will need to possibly be ripped down to

This will allow you to determine the overall gap value of "E", between the trim and the cladding board, as shown in Detail 13-3.

NOTE: Depending on your façade size, you could look to create a gauge of installed cladding pieces that can be held up to your façade, to facilitate ease of calculating these values.



Detail 13-3

CASTELLATION CLADDING - VERTICAL INSTALLATION

12 Installing the First Course

- Wall Side C (Cladding between two Outside Corner trims)
- Wall Side D (Cladding between the Outside Corner trim and the F-Trim)

Put the first cladding board in place with the clearance value of "E" between the trim, and face fix it the side next to the trim onto the battens with screws (8Gx50 colour head composite screw), as shown in Diagram 14.

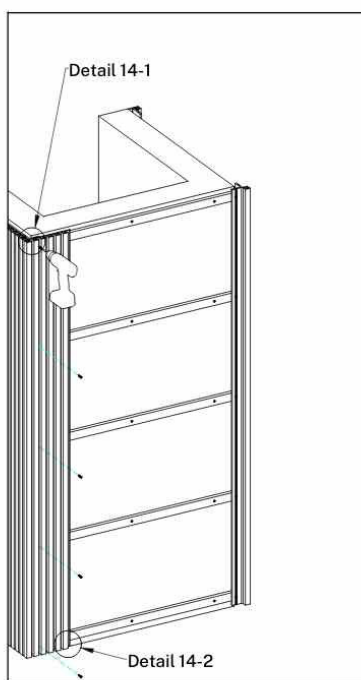
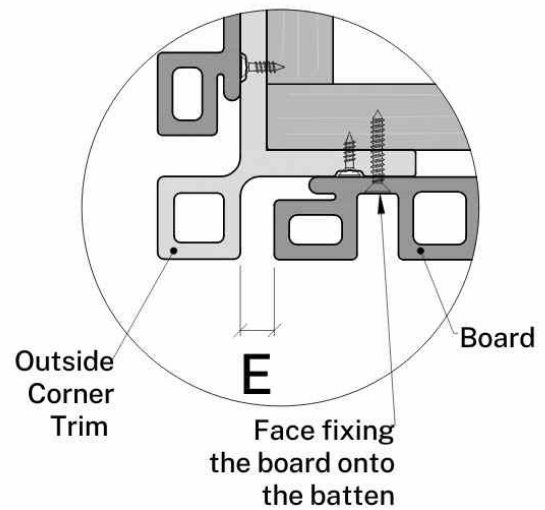


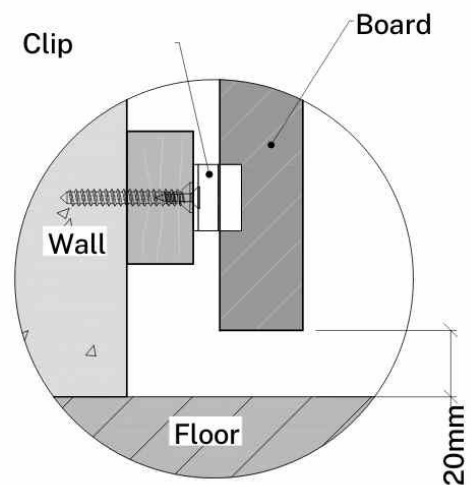
Diagram 14-1

Please Note:

1. Pre-drill the face fixing holes on the first board before installation to allow for expansion and contraction. Please review page 7, "Pre-drill", of this installation guide for further information.
2. A minimum clearance of 20mm needs to be left between the cladding board and the floor, as shown in Detail 14-2.



Detail 14-1



Detail 14-2

CASTELLATION CLADDING - VERTICAL INSTALLATION

Secure the board onto the battens with the Clip, as shown in Diagram 20 .

Please Note:

1. Since the composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one fixed point but only one point to allow the remaining board to move freely. When installing vertically, it is required to lock the Clip at the top of each board , as shown in Detail 14-3.

DO NOT LOCK any other Clip for the same board. Please review page 9, "Locking the Wall Cladding Board" of this installation guide for further information.

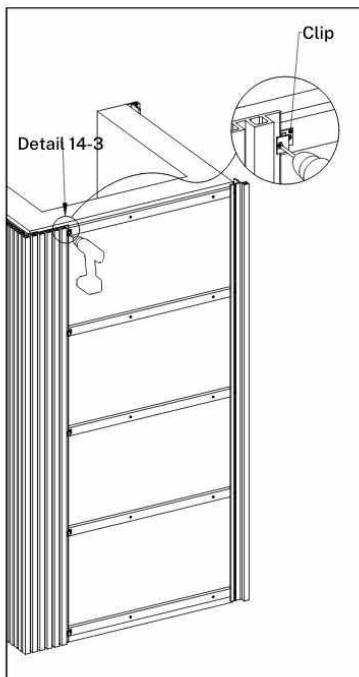
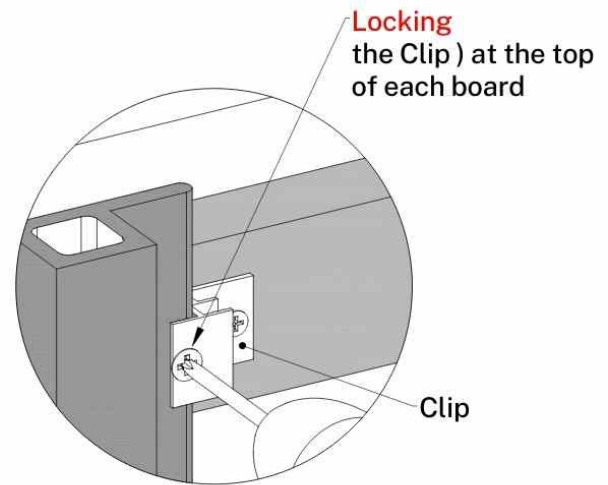


Diagram 14-2



**ONLY ONE LOCKING SCREW
TO BE USED PER BOARD**

Detail 14-3

CASTELLATION CLADDING - VERTICAL INSTALLATION

13 Installing the Second Course

- Wall Side C (Cladding between two Outside Corner trims)
- Wall Side D (Cladding between the Outside Corner trim and the F-Trim)

Please process the installation procedure same as Step 7 on page 15 to 16 of this installation guide.

14 Continuing the Remaining Installation

- Wall Side C (Cladding between two Outside Corner trims)
- Wall Side D (Cladding between the Outside Corner trim and the F-Trim)

The width of the cladding boards and the width along the installed cladding boards should be a bit different versus the design due to the tolerance that occurred in the board production process and installation work. Therefore, when you are at near 300mm beyond the next trim, it is recommended to measure the distance between the Clip and the trim again to check with the result generated by the "your initial measurements and calculations" spreadsheet and determine whether the last board ripping width needs to be adjusted, as shown in Diagram 16-1

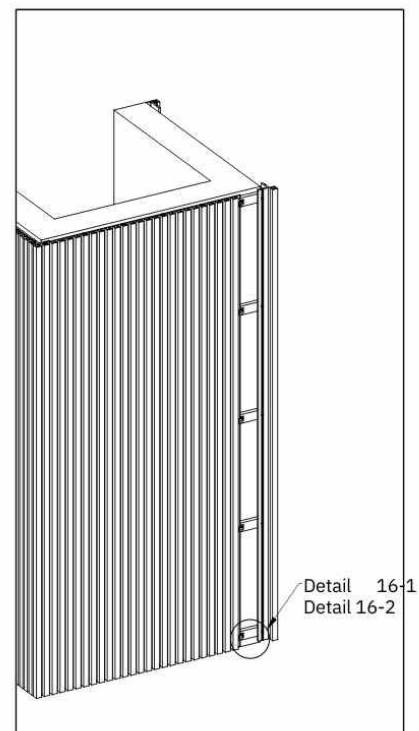


Diagram 16-1

CASTELLATION CLADDING - VERTICAL INSTALLATION

15

Face fixing the last ripped cladding board onto the batten with screws (8Gx50 colour head composite screw), as shown in Diagram 17-1 and Detail 17-1 at the outside corner (Outside Corner Trim), Diagram 17-2 and Detail 17-2 at the outermost edge (F-Trim).

Please Note:

1. Pre-drill the face fixing holes on the last board before installation to allow for expansion and contraction. Please review page 7, "Pre-drill", of this installation guide for further information.

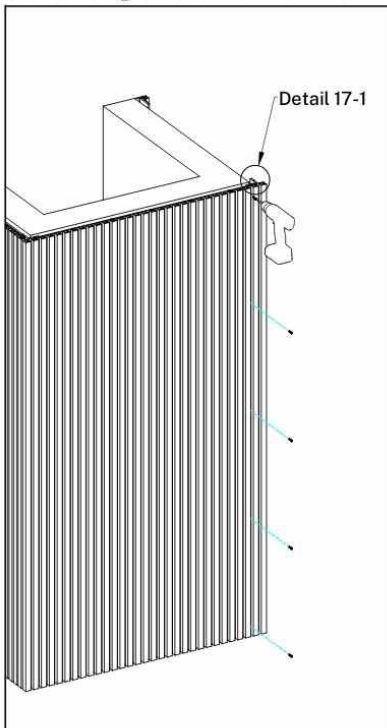


Diagram 17-1

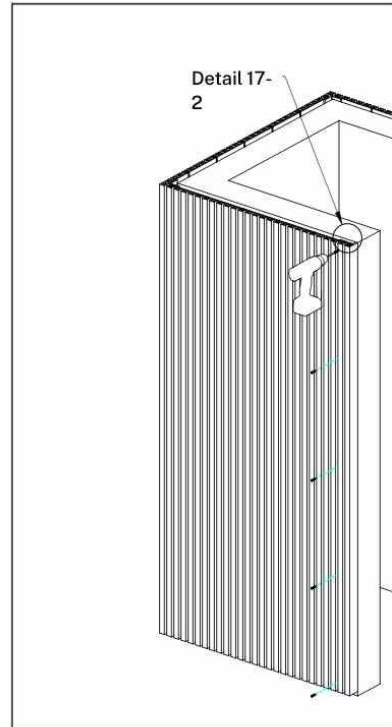
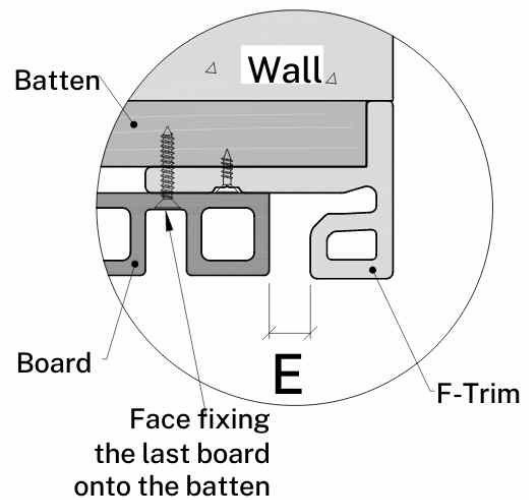
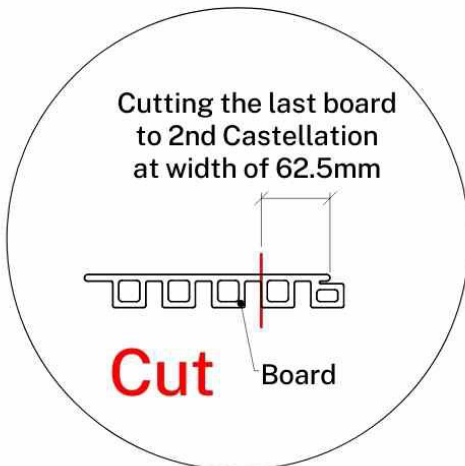


Diagram 17-2



Detail 17-2

Detail 17-1



CASTELLATION CLADDING - VERTICAL INSTALLATION

16

Diagram 18 presents the final appearance after completing the installation.

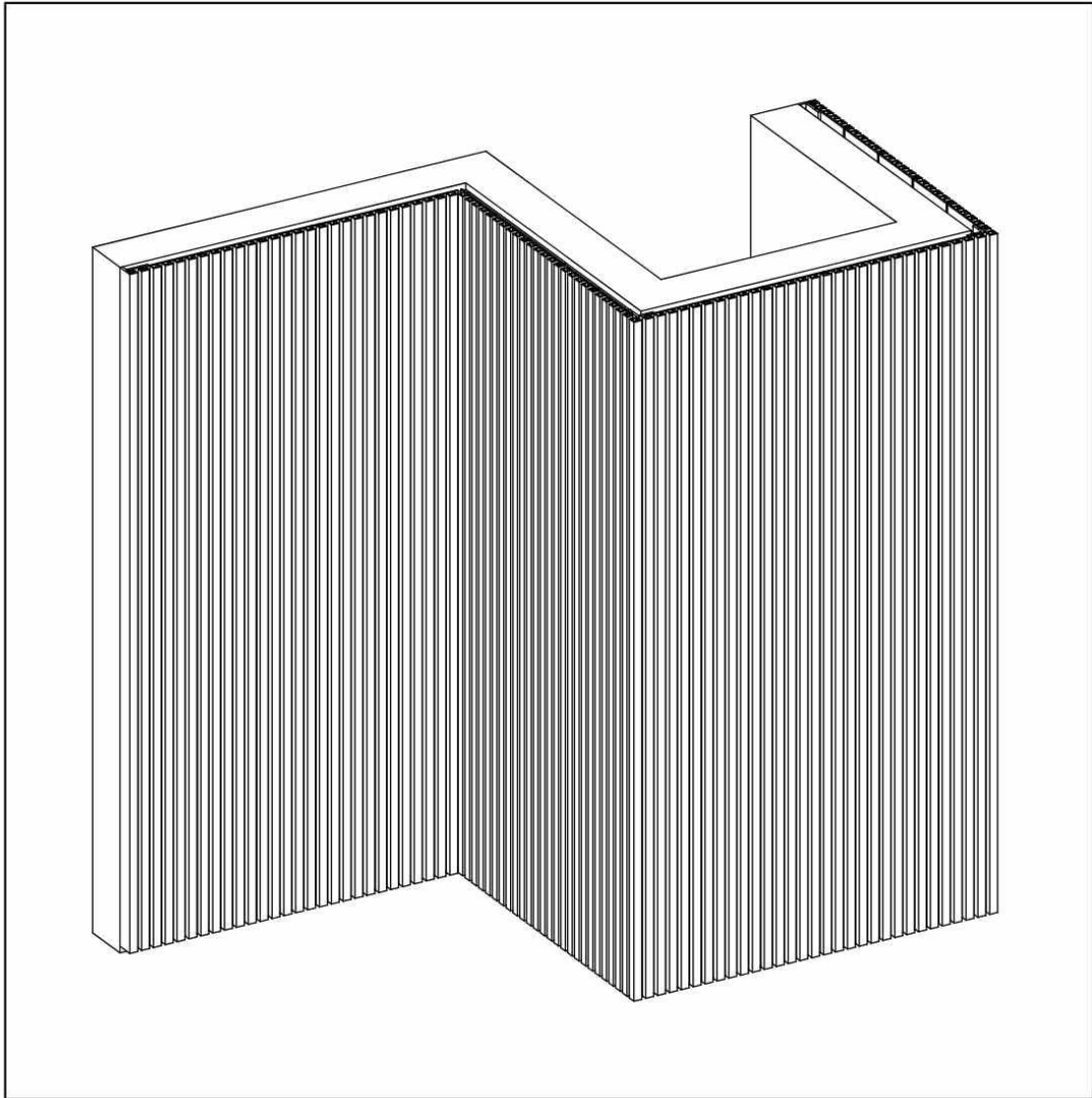


Diagram 18

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

- 17 Measure and chalk the battens according to the span data specified on page 5 of this installation guide, as shown in Diagram 20.

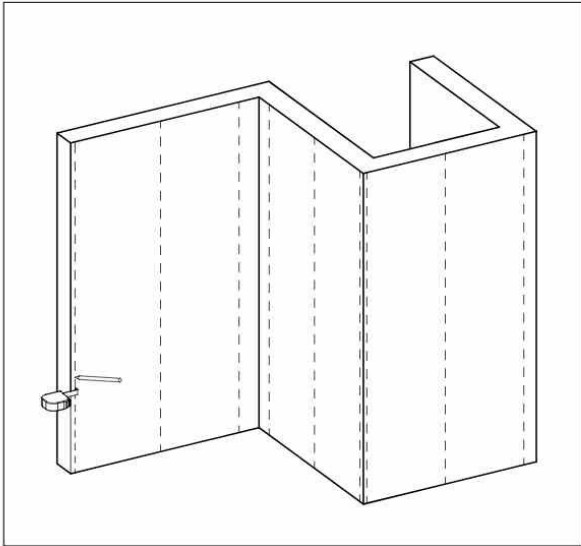


Diagram 20

Please Note:

1. We are using timber battens for this installation. If you are using metal/aluminium battens, please refer to page 8 of this installation guide for the correct recommended screws.
2. An adequate span between the battens is required to keep the boards from bending. Please review page 5 of this installation guide to see what span is needed.

- 18 Fix the battens onto the wall that you intend to install with screws in the distance at least 500mm and max 1000mm on centre. Please review page 5 to see what span is needed, as shown in Diagram 21.

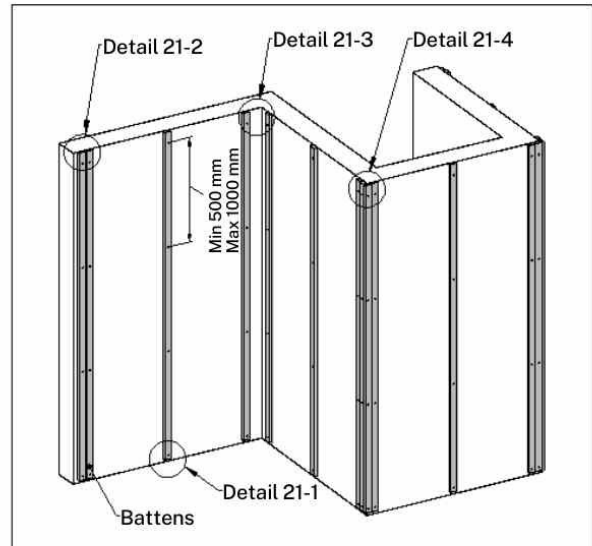
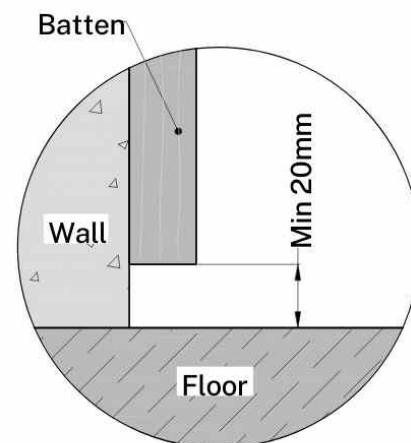


Diagram 21

Please Note:

1. A minimum clearance of 20mm needs to be left at the bottom of each batten against the floor, as shown in Detail 21-1.

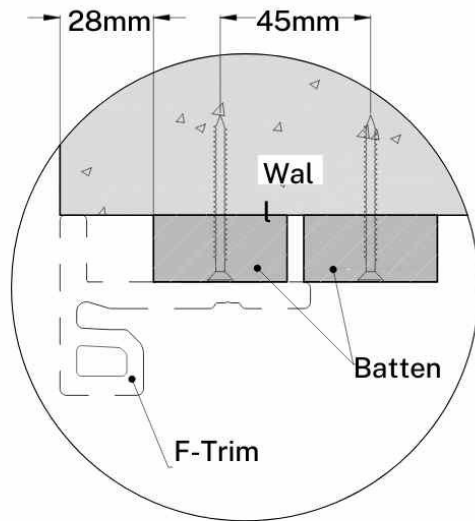


Detail 21-1

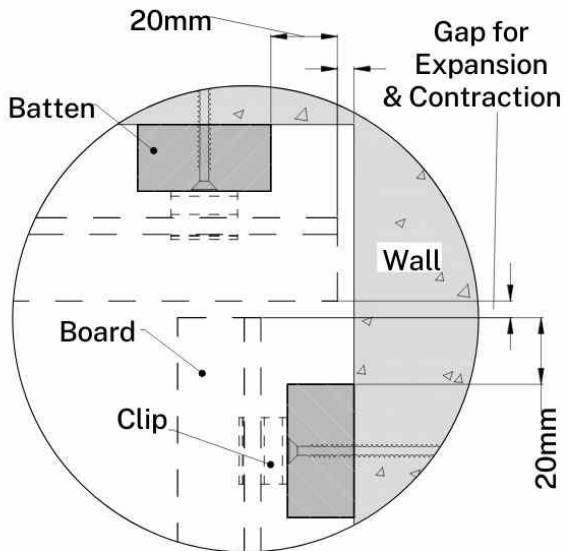
CASTELLATION CLADDING - HORIZONTAL INSTALLATION

Please Note:

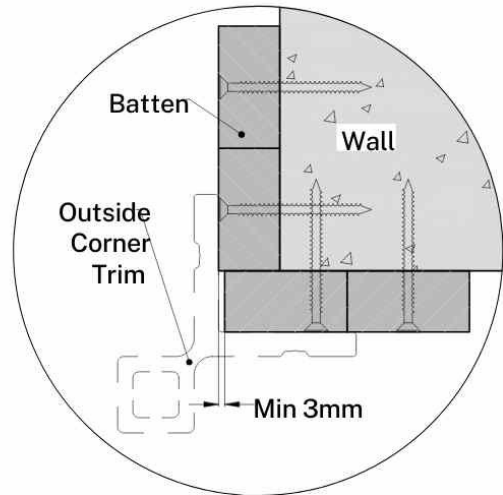
2. For the Outermost Edge (F-Trim), please install according to Detail 21-2.
3. For the Inside Corner (No trim is needed), please install according to Detail 21-3.
4. For the Outside Corner (Outside Corner Trim), please install according to Detail 21-4.



Detail 21-2



Detail 21-3



Detail 21-4

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

19 Installing the Trims on the Starting Point

It is recommended to fasten the trims on the starting point, as shown in Diagram 22.

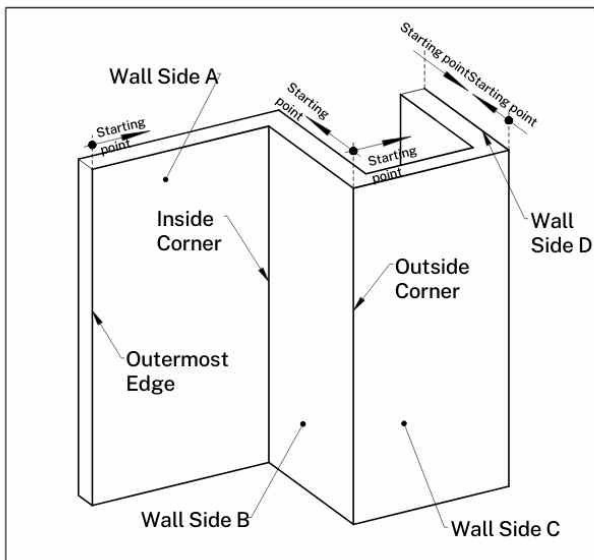


Diagram 22

20 Secure the trims on the starting point before installation, as shown in Diagram 23.

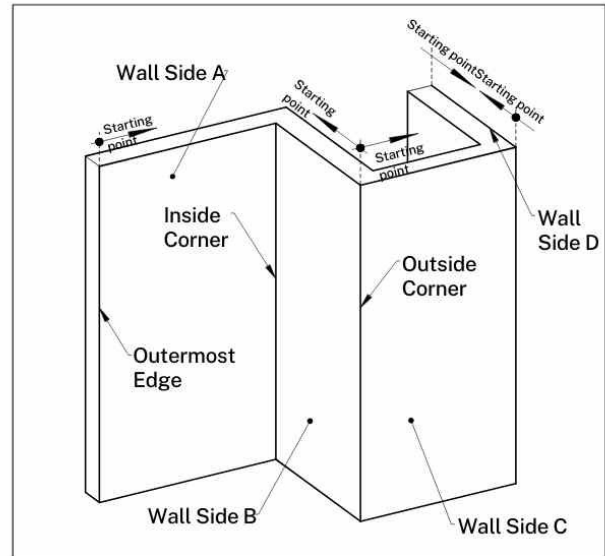
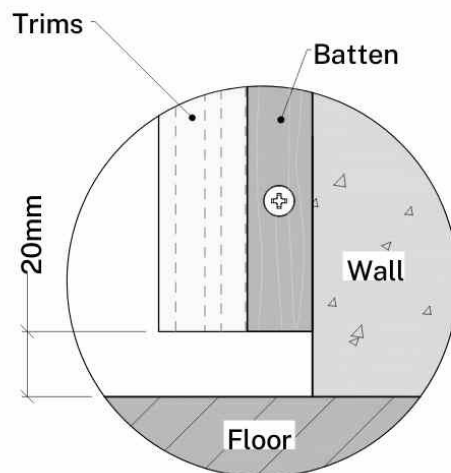


Diagram 23

Please Note:

1. A minimum clearance of 20mm needs to be left between the trims against the floor, as shown in Detail 23-1.



Detail 23-1

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

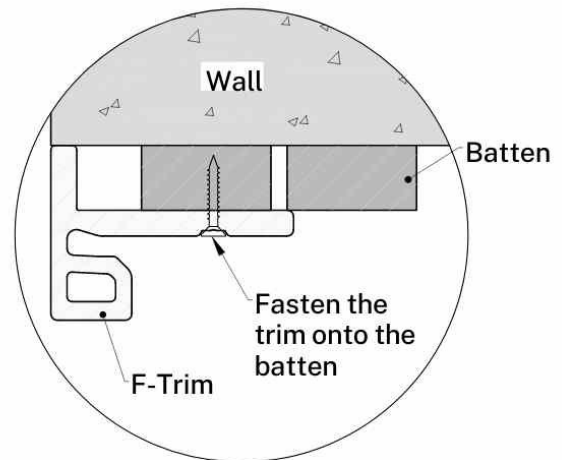
Please Note:

2. Wall Side A: Cladding between the F-Trim and the Inside Corner. Secure the F-Trim onto the outermost edge's battens with screws in the distance at least 500mm and max 1000mm on centre, as shown in Detail 23-2.

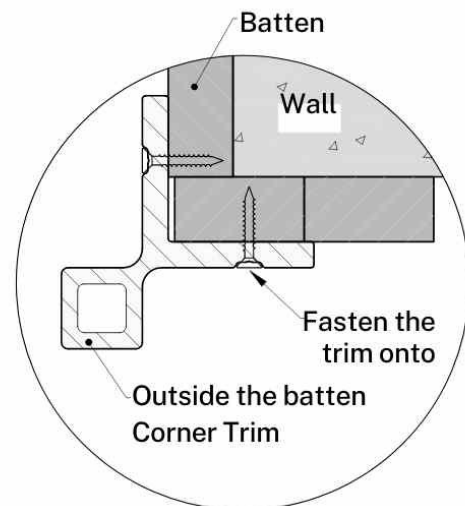
3. Wall Side B: Cladding between the Inside Corner and the Outside Corner Trim. Secure the Outside Corner Trim onto the outside corner's battens with screws in the distance at least 500mm and max 1000mm on centre, as shown in Detail 23-3.

4. Wall Side C: Cladding between two Outside Corner Trims . Secure the Outside Corner Trim onto the outside corner's battens with screws in the distance at least 500mm and max 1000mm on centre, as shown in Detail 23-4.

5. Wall Side D: Cladding between the Outside Corner Trim and the F-Trim. Secure the Outside Corner Trim onto the outside corner's battens and the F-Trim onto the outermost edge's battens with screws in the distance at least 500mm and max 1000mm on centre, as shown in Detail 23-2 and Detail 23-3.

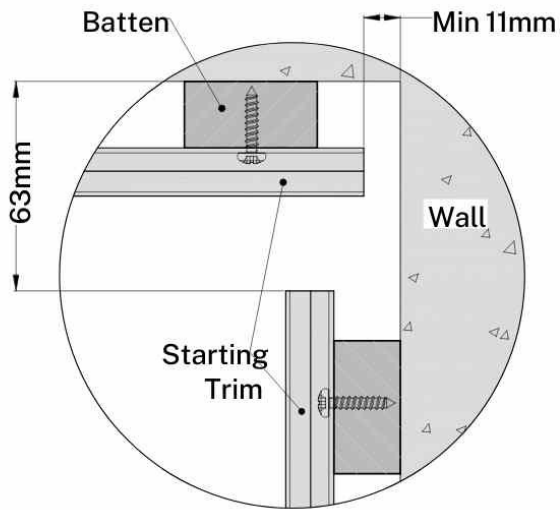


Detail 23-2

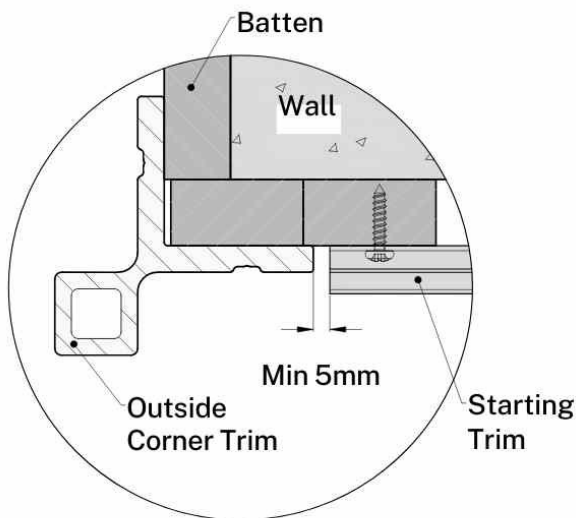


Detail 23-3

CASTELLATION CLADDING - HORIZONTAL INSTALLATION



Detail 24-3



Detail 24-4

21 Castellation Cladding Board Installation

Installing the First Course

Put the first Castellation Cladding Board over the Starting Trim in place and fasten it onto the batten with the Clip, as shown in Diagram 25 and Detail 25-1.

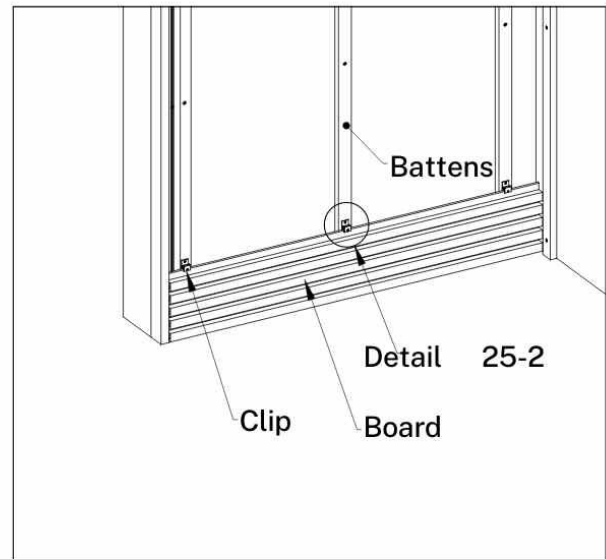
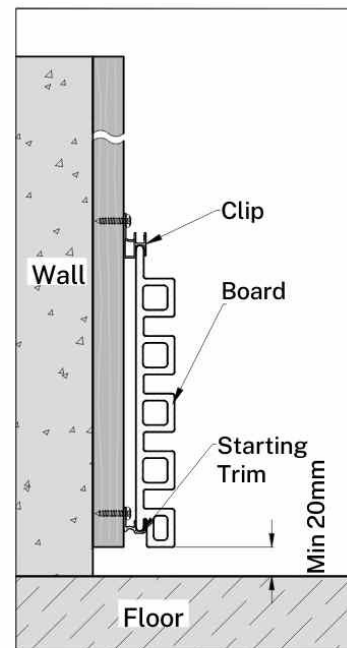


Diagram 25



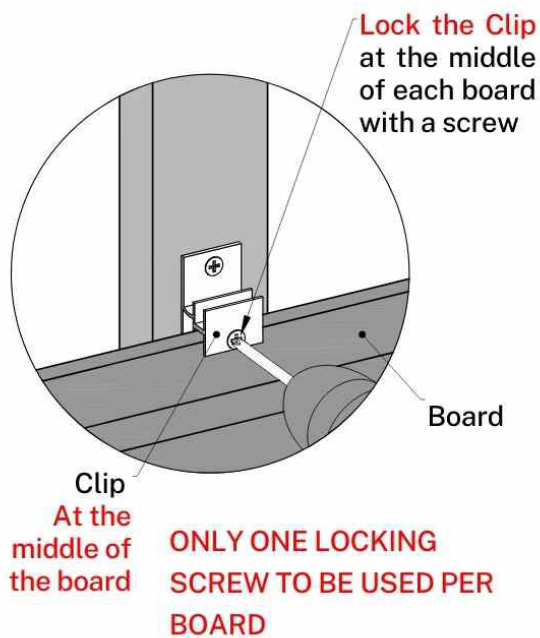
Detail 25-1

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

Please Note:

1. Since the composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one fixed Joint but only one point to allow the remaining board to move freely. When installing horizontally, it is required to lock the Clip at the middle of each board, as shown in Detail 25-2.

DO NOT LOCK any other Clip for the same board. Please review page 10, "Locking the Wall Cladding Board" of this installation guide for further information.



Detail 25-2

Please Note:

2. The gap between the cladding board and the floor should be at least 20mm, as shown in Detail 25-1.

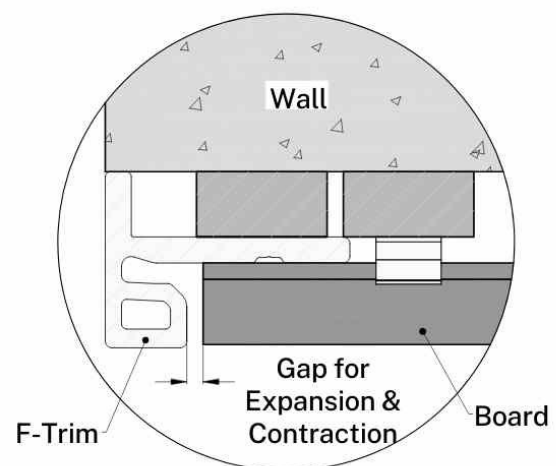
3. The gap between the cladding board, F-Trim, Outside Corner Trim, adjacent wall in the least corner, and the adjoining cladding board in the inside corner is vital to avoid warping or buckling,

3.1 Outermost Edge, F-Trim, as shown in Detail 25-3.

3.2 Inside Corner (no trim is needed), as shown in Detail 25-4.

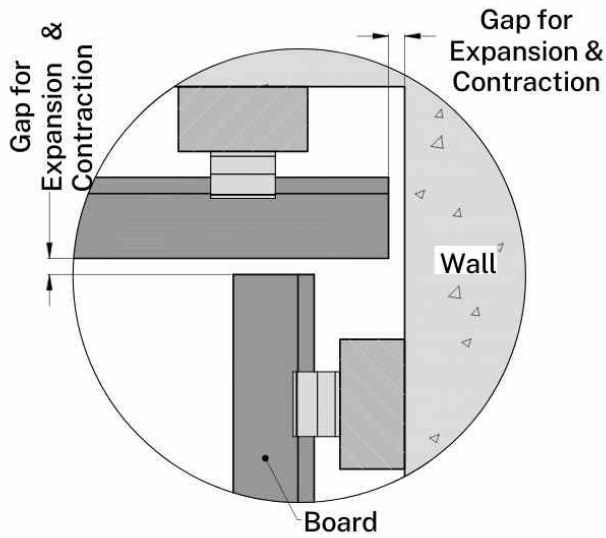
3.3 Outside Corner, Outside Corner Trim, as shown in Detail 25-5.

Please select the appropriate gap value according to the "Expansion and Contraction Values Table" on page 5 of this installation guide.

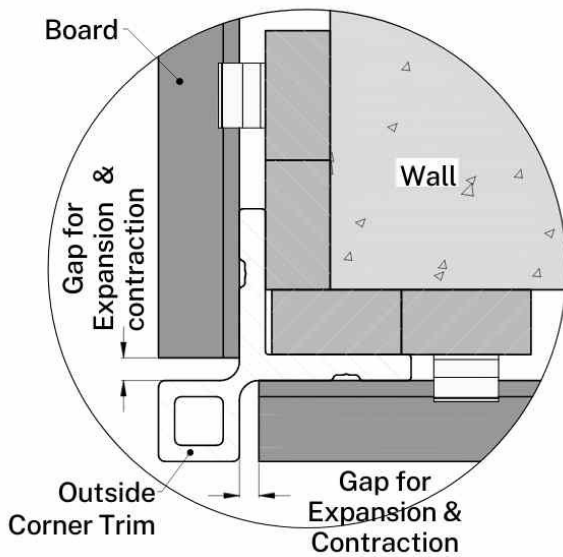


Detail 25-3

CASTELLATION CLADDING - HORIZONTAL INSTALLATION



Detail 25-4



Detail 25-5

22 Installing the Second course

Put the second Castellation Cladding Board over the first board's Clip in place and fasten it onto the atten with another Clip , as shown in Diagram 26 and Detail 26-1.

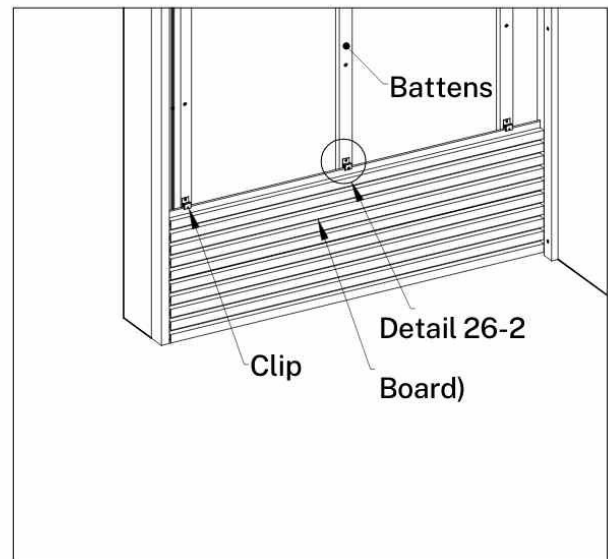
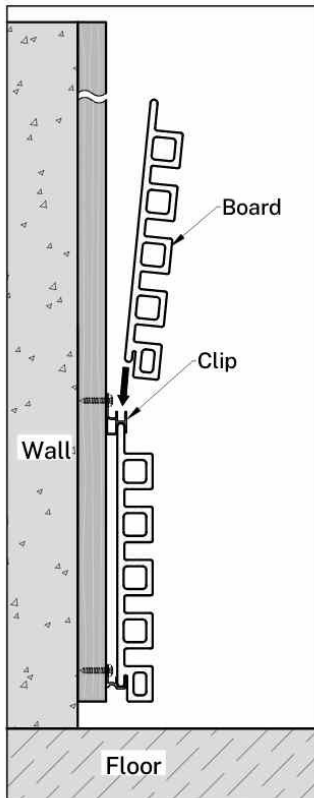
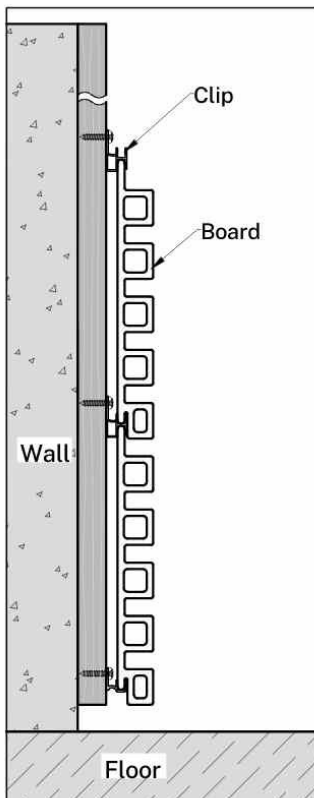


Diagram 26

CASTELLATION CLADDING - HORIZONTAL INSTALLATION



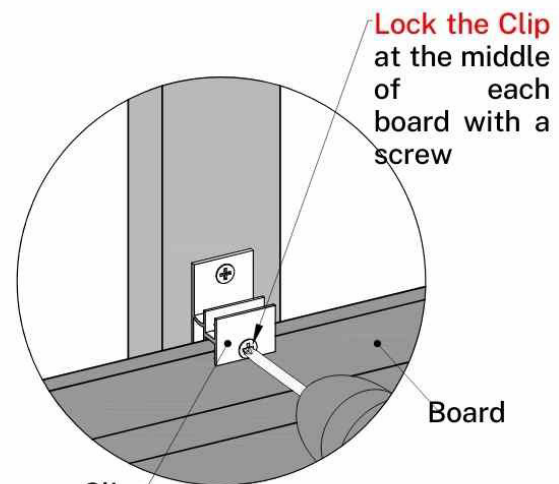
Detail 26-1



Please Note:

1. Since the installation of composite wood must allow for expansion and contraction due to temperature change, the board must be locked at one fixed point but only one point to allow the remaining board to move freely. When installing horizontally, it is required to lock the Clip at the middle of each board, as shown in Detail 26-2.

DO NOT LOCK any other Clip for the same board. Please review page 10, "Locking the Wall Cladding Board" of this installation guide for further information.



Clip
At the
middle of
the board

**ONLY ONE LOCKING
SCREW TO BE USED
PER BOARD**

Detail 26-2

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

23 Installing the Last Castellation Cladding Board

When you are at the last cladding board, measure the distance between the top end of the batten and the Clip, as shown in Diagram 27 and Detail 27-1.

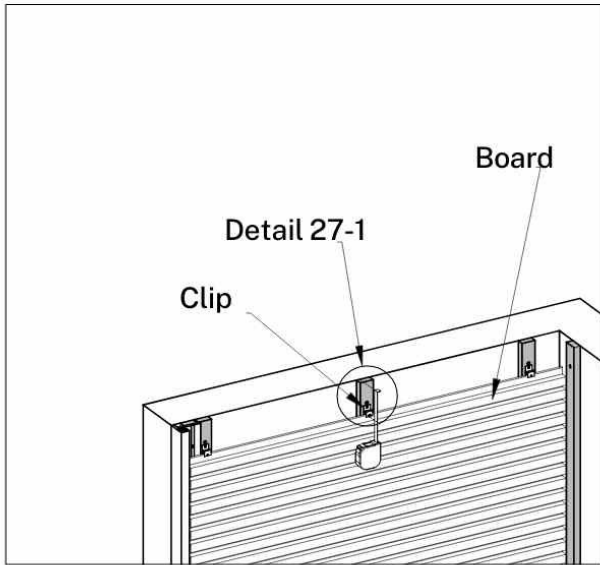
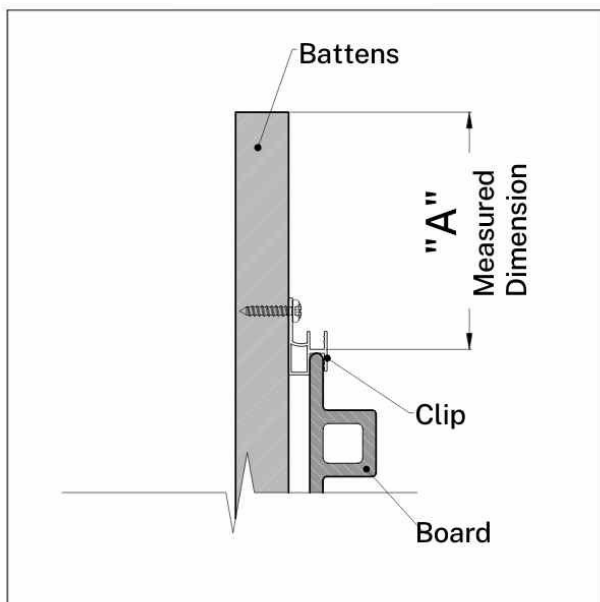


Diagram 27



Detail 27-1

24 Rip the cladding board according to measured dimension, as shown in Diagram 28 and Detail 28-1.

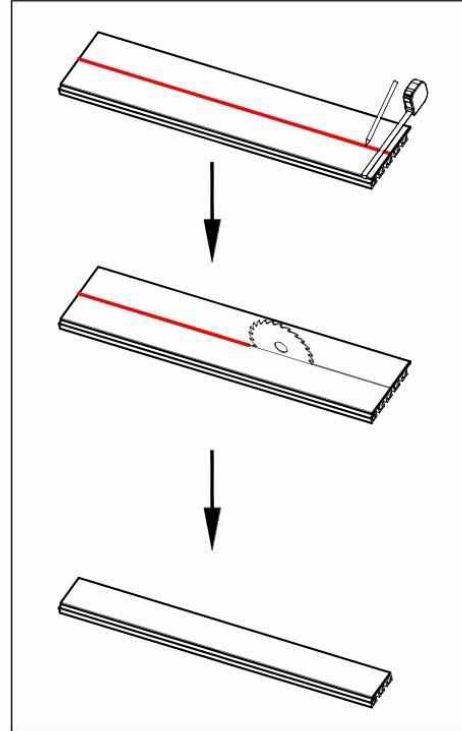
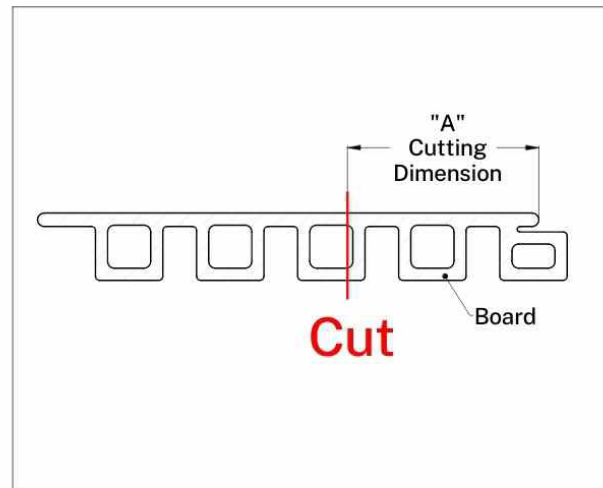


Diagram 28



Detail 28-1

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

25

Diagram 31 presents the final appearance after completing the installation

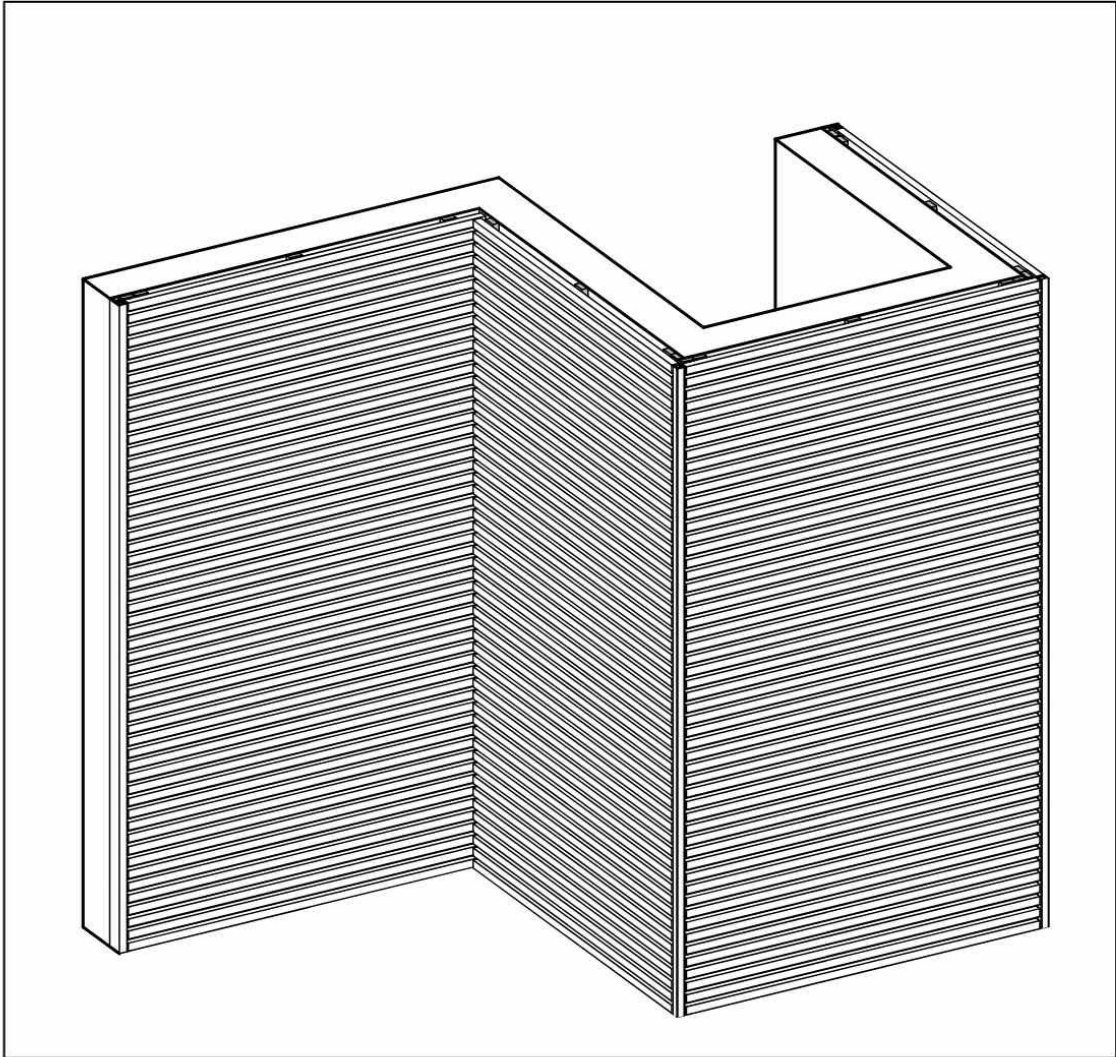


Diagram 31

MAINTENANCE & CARE



PURA TECH products are low maintenance, however with a little cleaning you can help keep your outside space looking beautiful for longer. Please note that although PURA TECH products are relatively colour stable, there may be some initial lightening of the PURA TECH range products as the product naturally weathers over the first 8-10 weeks.

DIRT & GRIME

Maintaining a clean, dry surface is the best method for combating dirt, grime and mildew build up, where a periodic cleaning is all that may be required. Even though PURA TECH products are formulated to inhibit mildew growth and staining, mildew stains can occur where moisture and dirt or pollen is present.

SCRAPES & SCRATCHES

Surface scratches and abrasions will fade after weathering. However, scrape and scratch marks can be eliminated by using a wire brush or coarse 60-80 grit sandpaper. Simply brush / sand in the direction of the grain on the product until the mark has gone. The treated area will weather back in approximately 8-10 weeks.

PAINTING & STAINING

PURA COMPOSITES LTD does not guarantee or recommend anything applied to PURA TECH products, however it is still possible for PURA TECH products to be painted or stained. Wait until the product has completed its weathering process and ensure you have a clean and dry surface prior to applying any paint or stain. Always apply products in accordance with the manufacturer's application instructions.

SPOT STAINS

Many stains can be cleaned with soap or household de-greasing agent and warm water. Scrub and soak the affected area as soon as the stain occurs to

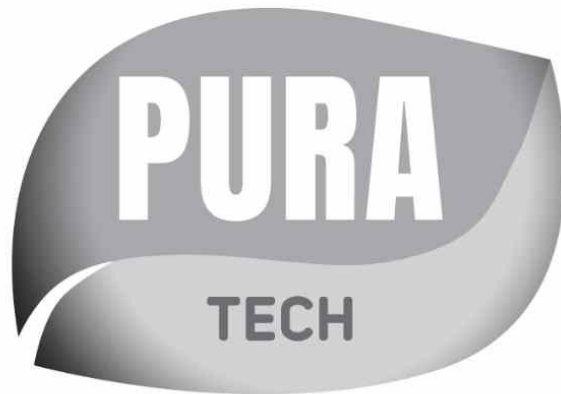
ensure best results, then rinse off with warm water. For more stubborn stains we recommend using a composite specific cleaner for more effective stain removal. Only with very set stains, you may want to use coarse sandpaper (60-80 grit) and sand lightly, always in the direction of the grain of the product (be careful when sanding the wood grained fencing slats as this can remove the enhanced wood grain effect).

Cleaned or sanded areas may lighten, which can require 8-10 weeks exposure to the sun to match the remaining product, depending on location and specific application. Due to the wood content, composite products, like any wood-based product, may experience a naturally occurring process called extractive bleeding (known as tea staining). This process can cause a temporary discoloration that will fade with time.

CLEANING

With the proper safety precautions PURA TECH products can be washed with either soapy water and a soft bristled brush or with a power washer (recommended max. 1500psi pressure). Perform a pressure washing test on a scrap piece of material before using a pressure washer on the wall cladding to ensure that your settings will not damage the coating.

You should ensure to spray in the direction of the grain of the boards and use a fan tip nozzle (min. 6 inches from surface) along with the proper cleaning product.



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