

PAVEEZZI COMPOSITES™

CASTELLATION CLADDING INSTALLATION GUIDE



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Paveezzi Composites Castellation Cladding | Installation Manual AUS/NZ 2022

IMPORTANT NOTE - READ ALL SECTIONS BEFORE YOU START

FOR THE MOST UP TO DATE INFORMATION, PLEASE VISIT OUR WEBSITE @ WWW.INFO@PAVEEZZICOMPOSITES.COM.AU

CONTENTS

Important Notes	3
Expansion and Contraction Values	4
Castellation Cladding Parts	5
Under Construction	7
Battens Installation	7
Locking the Wall Cladding Board	8
Castellation Cladding - Vertical Installation	9
-Framing	9
-Trim Installation	12
-Introduction of the Cladding Board Installation	12
-Installing the First course at the Inside Corner	13
-Installing the Second course at the Inside Corner	14
-Installing the Last board at the Inside Corner	16
-Before installation on Wall C and Wall D	19
~Wall C: Cladding between two Outside Corner Trims (CIS 913)	19
~Wall D: Cladding between Outside Corner Trim (CIS 913) & F-Trim (CIS 912)	19
-Installing the First course on Wall C and Wall D	21
-Installing the Second course on Wall C and Wall D	23
-Continuing the Remaining Installation	23
-The Final Appearance of the Completing Installation	27
Castellation Cladding - Horizontal Installation	28
-Framing	28
-Installing the Trims on the Starting Point	31
-Starting Trim (CAS 023) Installation	33
-Installing the First Course	34
-Installing the Second Course	36
-Installing the Last board	38
-The Final Appearance of the Completing Installation	40
Ceiling Lining Section	41
Window Reveal Section	47

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 **Paveezzi Composites Cladding** 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.

SAFETY

With any type of construction project, it is necessary to wear appropriate safety equipments to avoid any risk of injuries. **Paveezzi Composites Cladding** recommends, but does not limit it to the following safety equipment, when handling, cutting, and installing **Paveezzi Composites Cladding**: 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.

ENVIRONMENT

A clean, smooth, flat, and strong surface is needed to install **Paveezzi Composites Cladding** products correctly. If installation does not occur immediately, **Paveezzi Composites Cladding** products need to be stored on a flat surface at all times. It should **NEVER** be stored on an uneven surface.

PLANNING

Prior to installing any **Paveezzi Composite Cladding** system, it is recommended that you check with local building codes for any special requirements or restrictions. Building codes and zoning ordinances generally apply to permanent structures, meaning anything that is anchored to the ground or attached to the house. 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

Paveezzi Composites Cladding is NOT intended for use as columns, support posts, beams, joist stringers, support against a force, or other primary load-bearing members. **Paveezzi Composites Cladding** must be supported by a code-compliant substructure. While **Paveezzi Composites Cladding** products are great for retrofits, **Paveezzi Composites Cladding** 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.aclstaticide.com)

VENTILATION

Paveezzi Composites Cladding 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 **Paveezzi Composites Cladding** 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 **Paveezzi Composites Cladding** 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 **Paveezzi Composites Cladding** products to melt, sag, warp, discolour, increase expansion/contraction, and accelerate weathering. Current or potential **Paveezzi Composites Cladding** 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.

CLEANING

We recommend 'Urban Deck-Wash' to clean your cladding, available from all **Paveezzi Composites Cladding** Resellers Pressure washing on a scrap piece of material before using a pressure washer on the wall cladding to ensure that your settings will not damage the Proshield coating.

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 Proshield coating.

FASTENERS

When fastening **Paveezzi Composites Cladding** 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.

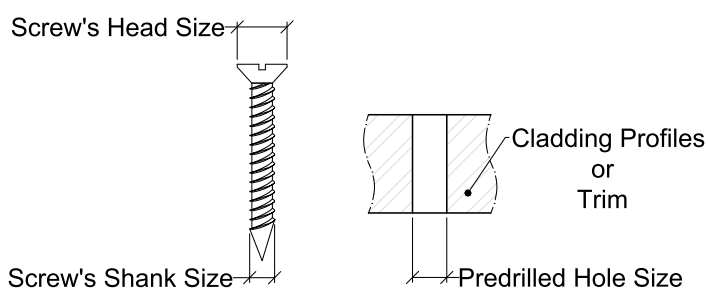
Use white chalk, straight boards, or string lines as templates for straight lines. **NEVER USE COLOURED CHALK** Coloured chalk will permanently stain **Paveezzi Composites Cladding** products and are highly not recommended.

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 **Paveezzi Composites Cladding** 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.



EXPANSION AND CONTRACTION VALUES

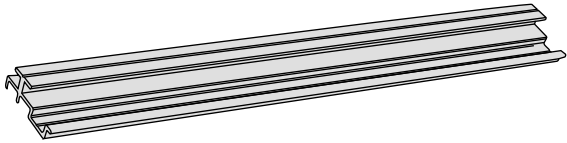
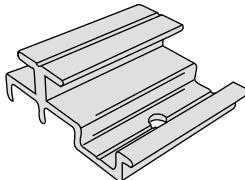
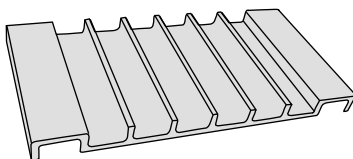
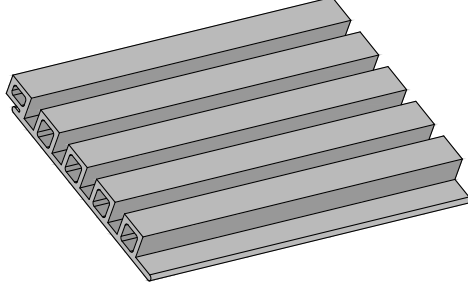
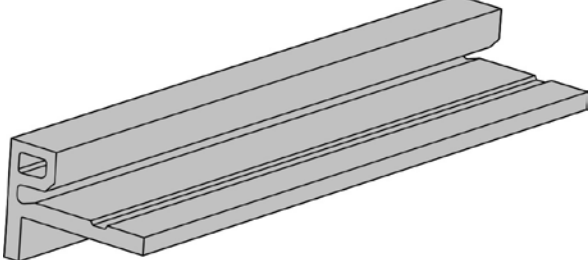
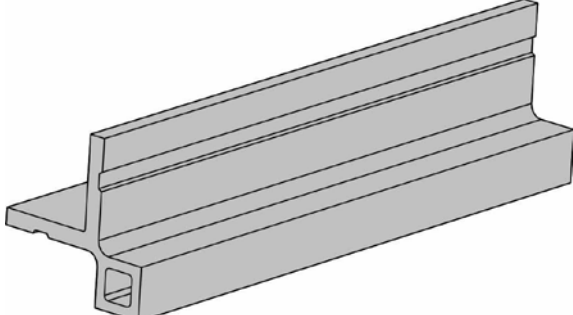
Paveezzi Composites Cladding boards will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Fastening the cladding boards according to the gapping requirements noted in the following table accommodates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

		LENGTH (METRES)								
		1	2.40	2.8	3	3.60	4	4.80	5.4	
Installation Temperature (C)	0	1.4	3.4	3.9	4.2	5.1	5.6	6.8	7.6	GAP (mm)
	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

Product	Purpose	Part
CIS 023	Used for the installation of the first board	
CIS 026	Used at every joist to fix each board to the batten	
CIS 029	Used on the installation of the first horizontal board	
CAS 160	Castellation Cladding Profile	
FINISH TRIM CIS 912	F-Trim, used as the first and last board	
OUTSIDE TRIM CIS 913	Outside Corner Trim, used on the outside corners	

CASTELLATION CLADDING SCREWS - RECOMMENDATION

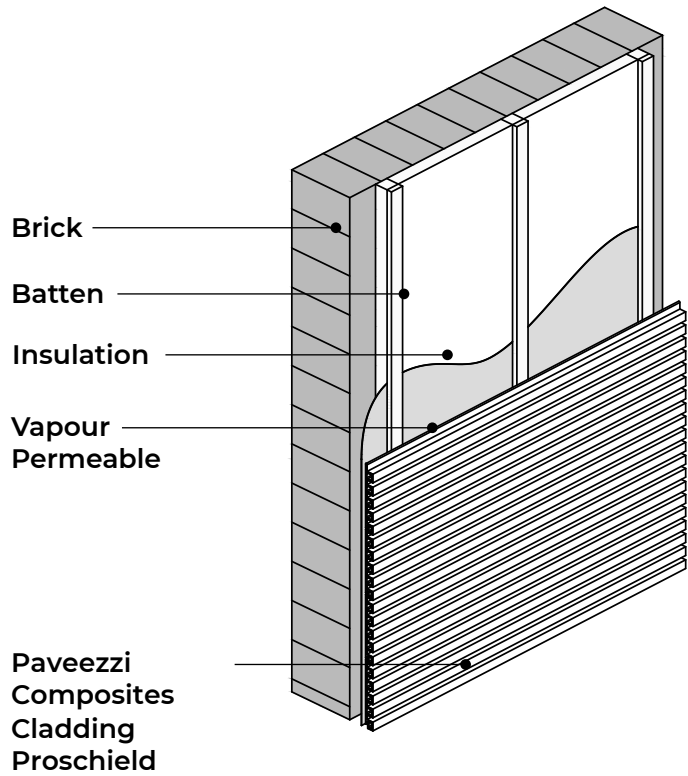
Purpose	For TIMBER Battens	For METAL Battens
<p>Used when locking the cladding board into CIS 026 clip (Screws supplied by PC and purchased with cladding boards)</p>	 M3 X 12 SS304 Part code: WJ063	
<p>Used when installing CIS 026 clips into battens (Screws not included, sourced/supplied by builder/ installer)</p>	 8G x 20 SS304 (Pan Head)	 8G x 20 SS304 (Pan Head)
<p>Used when installing trims into timber battens (Screws not included, sourced/ supplied by builder/ installer)</p>	 8G x 20 SS304 (Flat CSK Head)	 8G x 20 SS304 (Flat CSK Head)
<p>Used for face fixing the first and last cladding boards next to trims</p>	 8G x 50 SS304 Colour Head Composite Screw (Supplied by PC and purchased with cladding boards)	 8G x 20 SS304 (Flat CSK Head) (Screws not included, sourced / supplied by builder / installer)

***NOTE:** All screws are based on our recommendation and if the installation requires something different than what is shown, a professional should be consulted before installing. The following installation guide will use the above screw sizes.

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, fascias, 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.

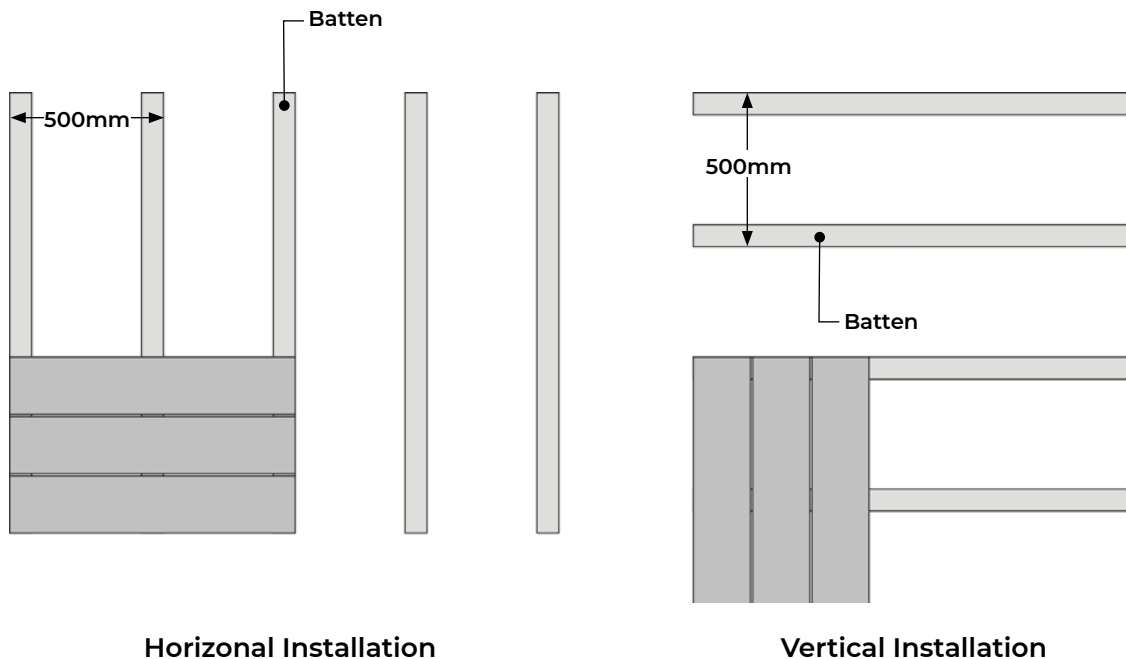


BATTENS INSTALLATION

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 **CIS 026** 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. We recommend locking clip to be in the middle of the board for even contraction.

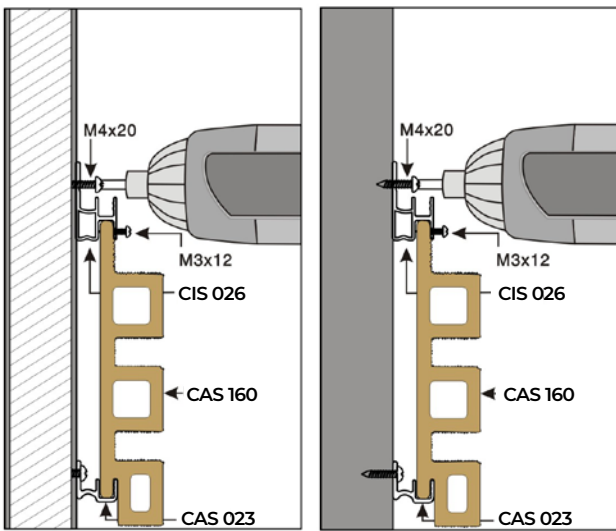
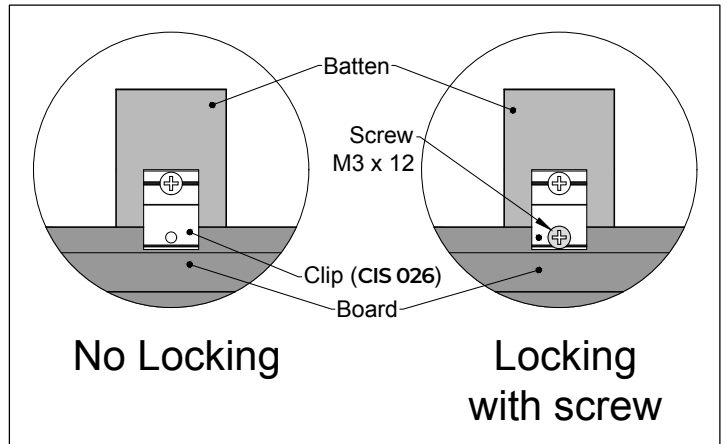


Diagram A

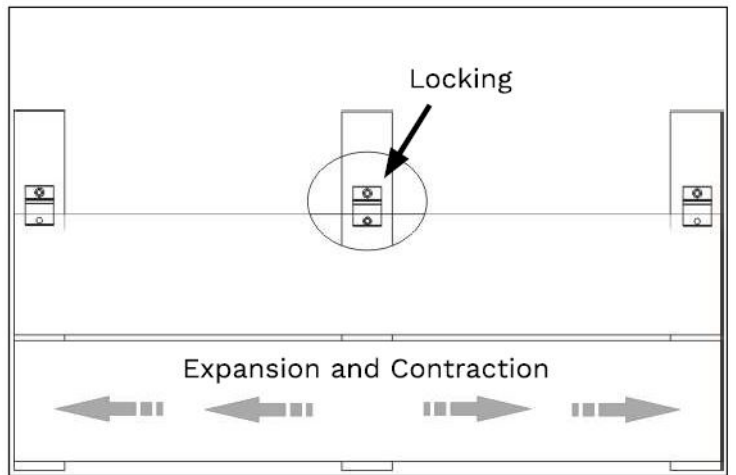


Diagram B

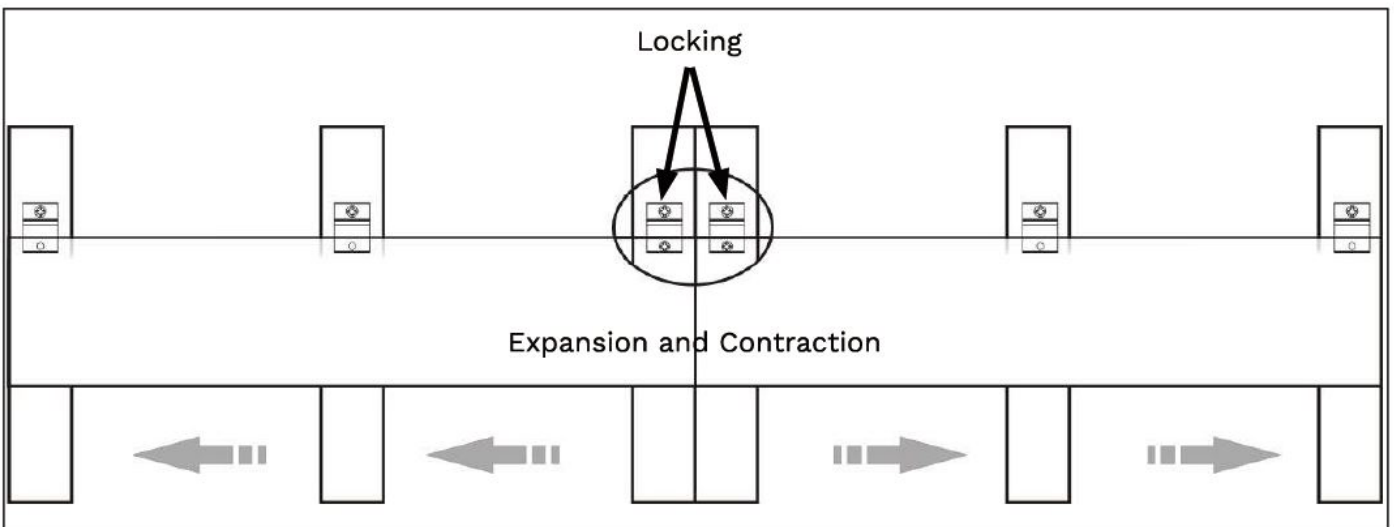


Diagram C

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 (CIS 912) and the Inside Corner

Wall Side B: Cladding between the Inside Corner and the Outside Corner Trim (CIS 913)

Wall Side C: Cladding between two Outside Corner Trims (CIS 913)

Wall Side D: Cladding between the Outside Corner Trim (CIS 913) and the F-Trim (CIS 912)

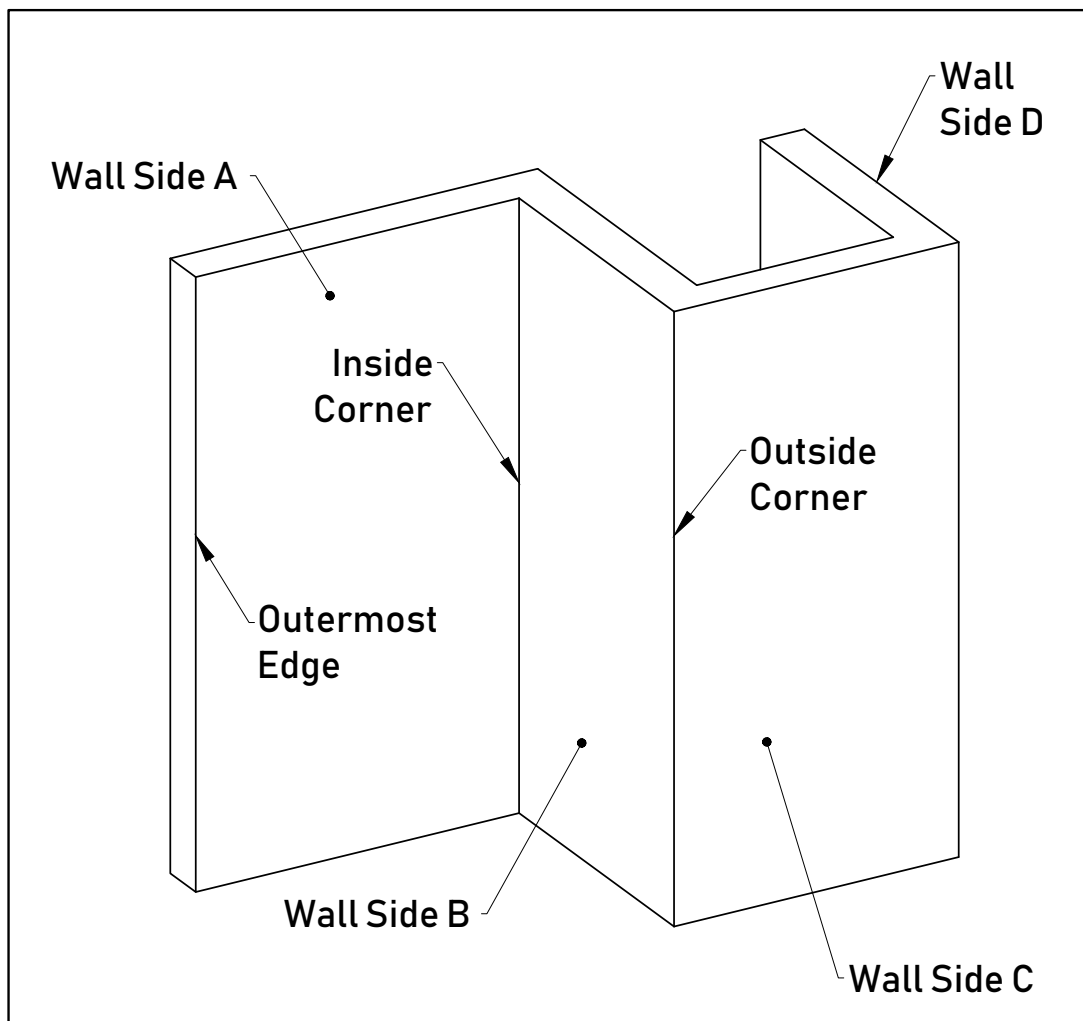


Diagram 1

2

Measure and chalk the battens according to the span data specified on page 4 of this installation guide, as shown in Diagram 2.

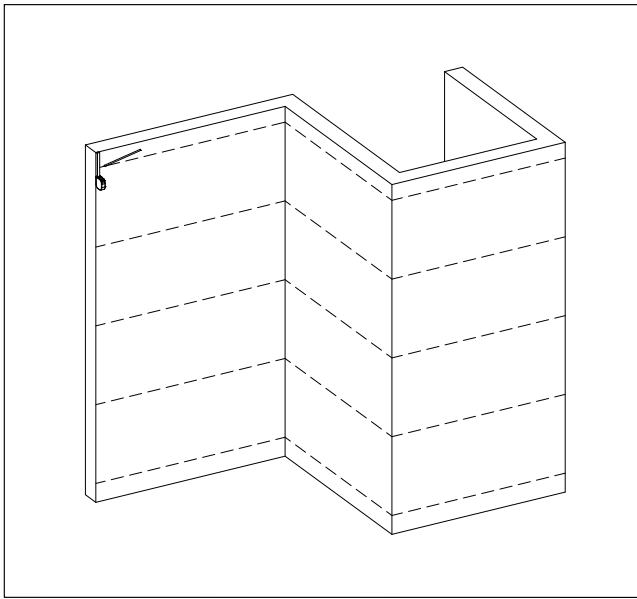


Diagram 2

PLEASE NOTE:

1. We are using timber battens for this installation. If you are using metal/ aluminium battens, please refer to page 6 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 4 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 4 to see what span is needed, as shown in Diagram 3.

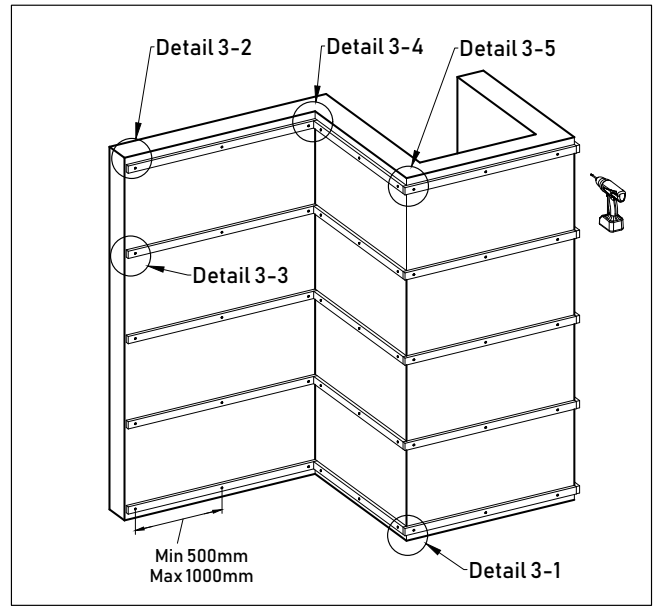
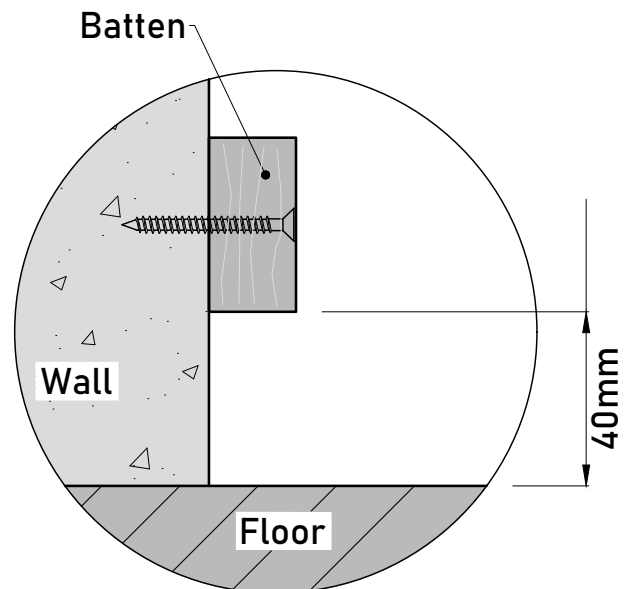


Diagram 3

PLEASE NOTE:

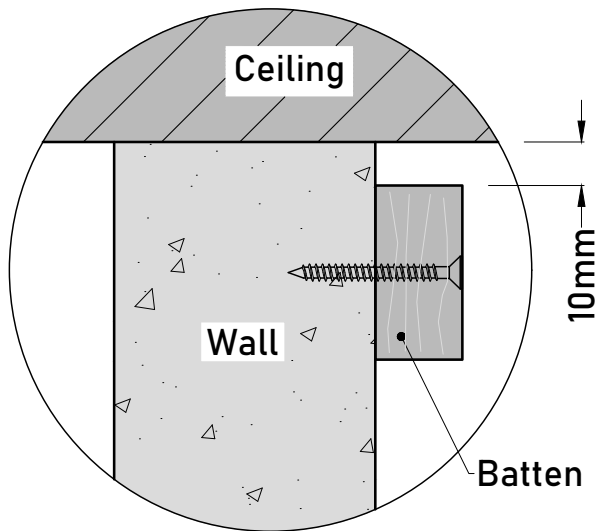
1. A minimum clearance of 40mm needs to be left between the lowest batten and the floor, as shown in **Detail 3-1**.



Detail 3-1

PLEASE NOTE:

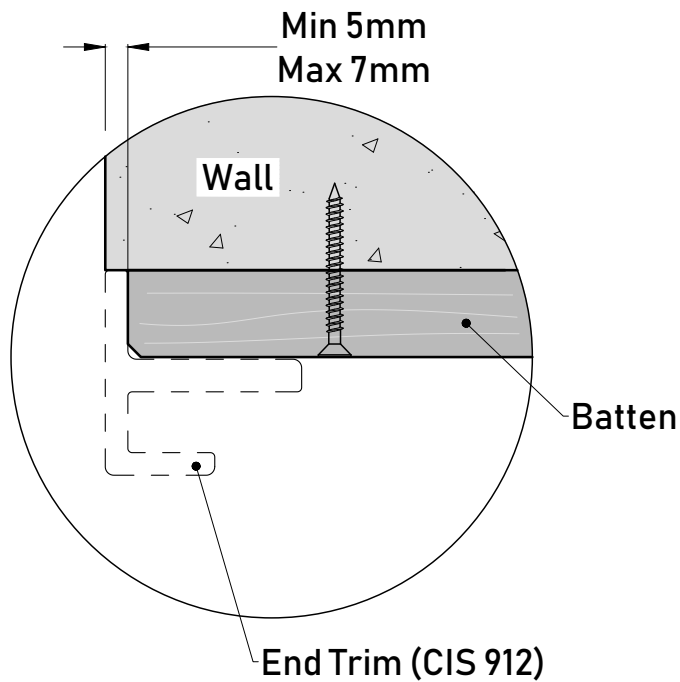
2. A minimum clearance of 10mm needs to be left between the ceiling and the top of the battens, as shown in **Detail 3-2**.



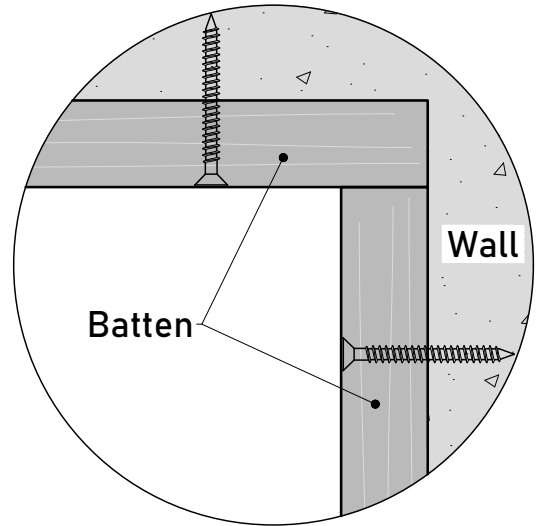
Detail 3-2

PLEASE NOTE:

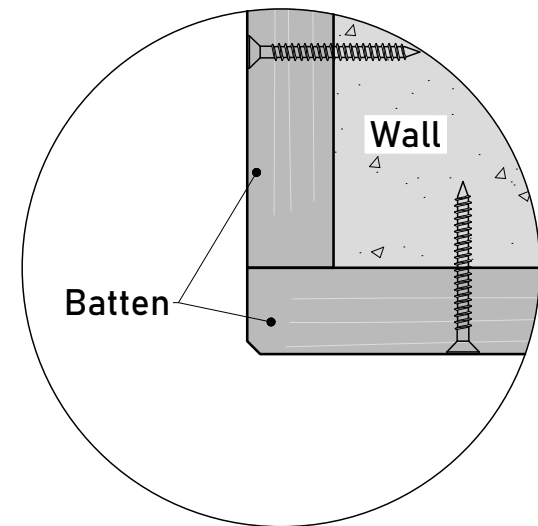
3. For the Outermost Edge (F-Trim CIS 912), please install according to **Detail 3-3**.
4. For the Inside Corner (No trim is needed), please install according to **Detail 3-4**.
5. For the Outside Corner (Outside Corner trim CIS 913), please install according to **Detail 3-5**.



Detail 3-3



Detail 3-4



Detail 3-5

4 TRIM INSTALLATION

Fasten the F-Trim (CIS 912) onto the outermost edges and the Outside Corner Trim (CIS 913) onto the outside corners with screws, as shown in **Diagram 4**.

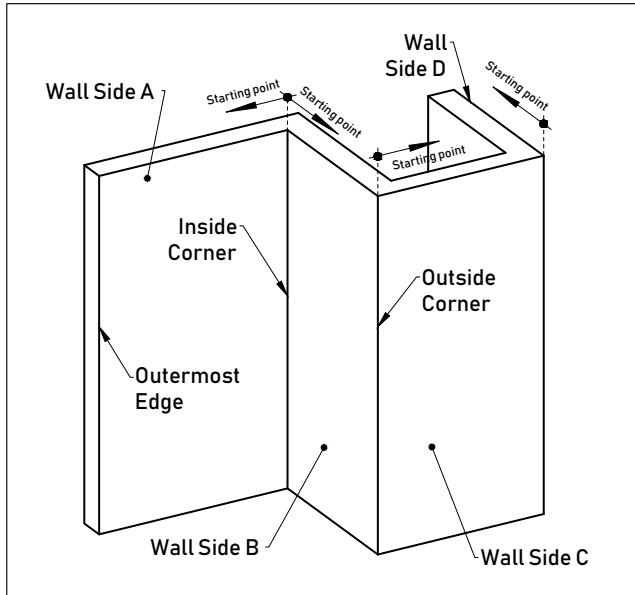
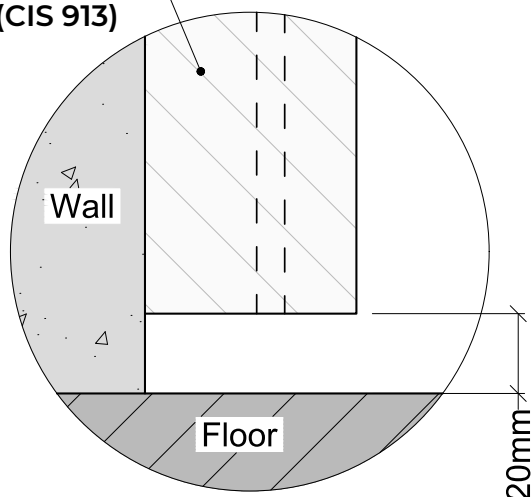


Diagram 4

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 (CIS 912)
or
Outside Corner
Trim (CIS 913)



Detail 4-1

5 CLADDING BOARD INSTALLATION

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

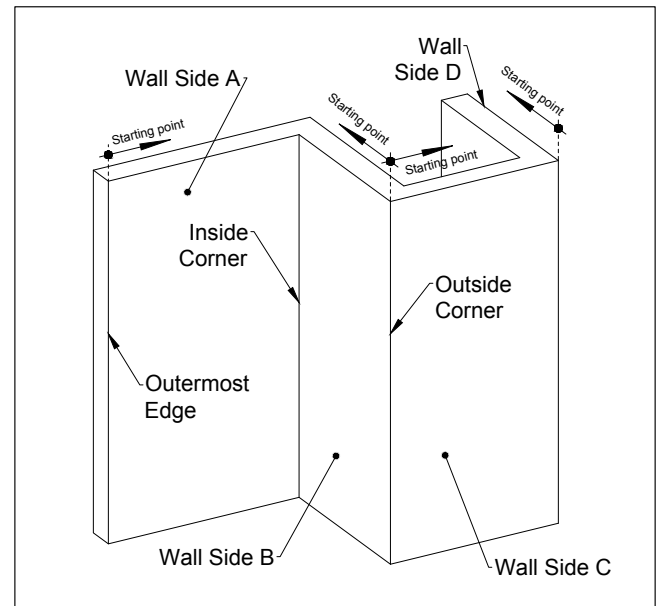


Diagram 5

PLEASE NOTE:

1. Wall Side A: Cladding between the F-Trim (CIS 912) and the Inside Corner, - Start from the Outermost Edge.
2. Wall Side B: Cladding between the Inside Corner and the Outside Corner Trim (CIS 913), - Start from the Outside Corner.
3. Wall Side C: Cladding between two Outside Corner Trims (CIS 913), - Start from one of the Outside Corners.
4. Wall Side D: Cladding between the Outside Corner Trim (CIS 913) and the F-Trim (CIS 912), - Start from the Outside Corner.

6

INSTALLING THE FIRST COURSE

- Wall Side A (Cladding between the F-Trim (CIS 912) and the Inside Corner)

- Wall Side B (Cladding between the Inside Corner and the Outside Corner trim (CIS 913))

Put the first Castellation Cladding Board (CAS 160) in place, then face fix it the side next to the trim onto the batten with screws (NTW 8Gx50 colour head composite screw), and fasten its otherside onto the batten with Clip (CIS 026), as shown in **Diagram 6**

Outermost Edge (F-Trim CIS 912), as shown in **Detail 6-1**.

Outside Corner (Outside Corner Trim CIS 913), as shown in **Detail 6-2**

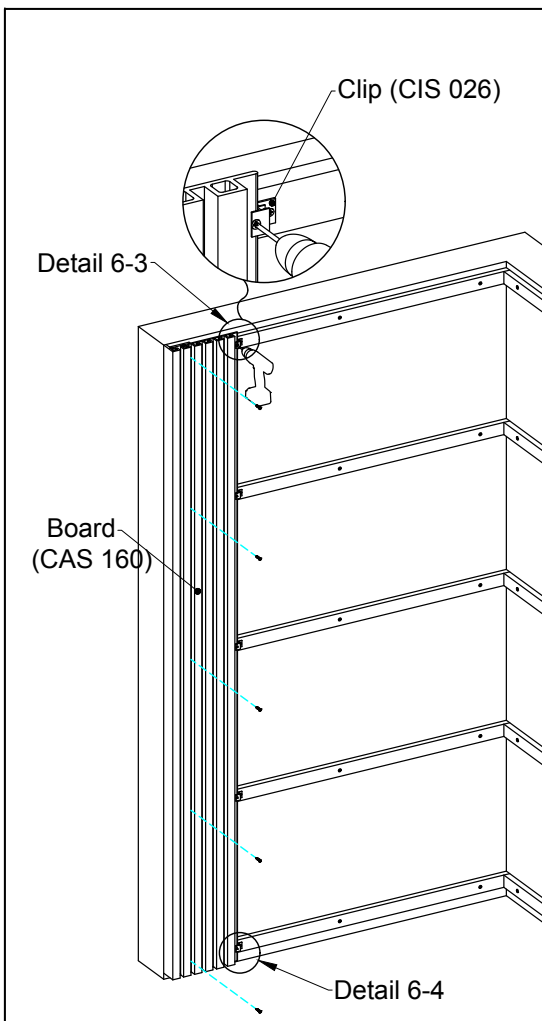
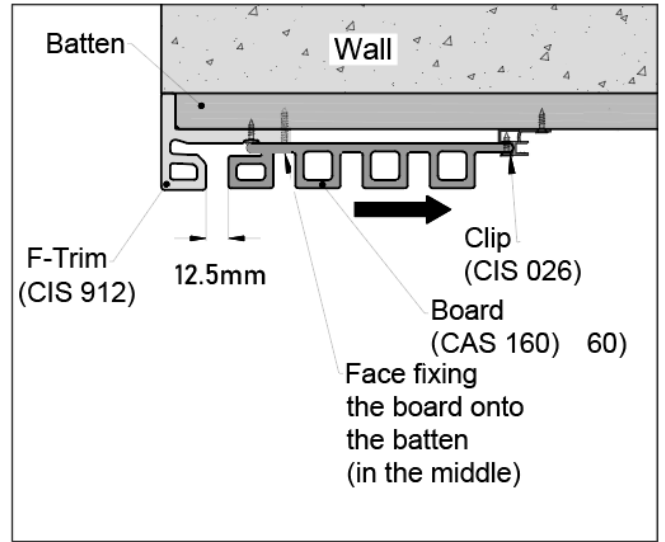


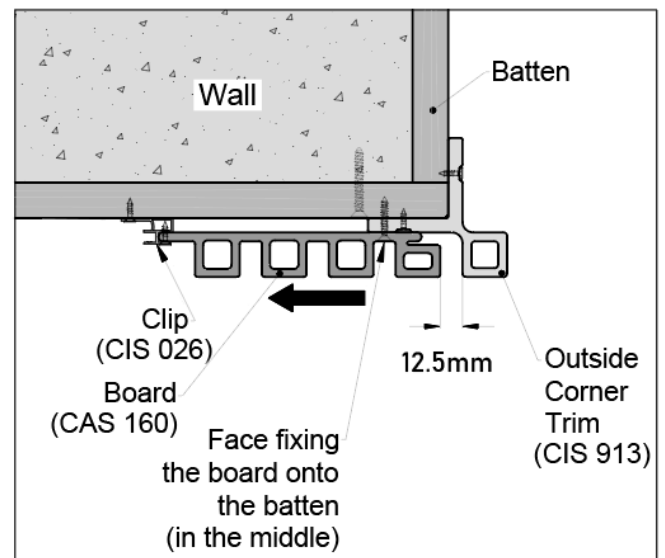
Diagram 6

PLEASE NOTE:

Pre-drill the face fixing holes on the first board before installation to allow for expansion and contraction. Please review page 4, "Pre-drill", of this installation guide for further information.



Detail 6-1



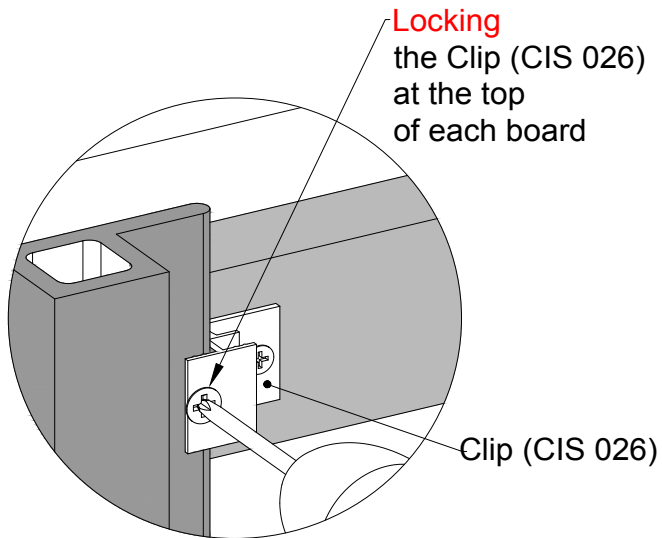
Detail 6-2

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 (CIS 026) at the middle of each board**, as shown in **Detail 6-3**.

DO NOT LOCK any other Clip (CIS 026) for the same board.

Please review page 13, "Locking the Wall Cladding Board" of this installation guide for further information.

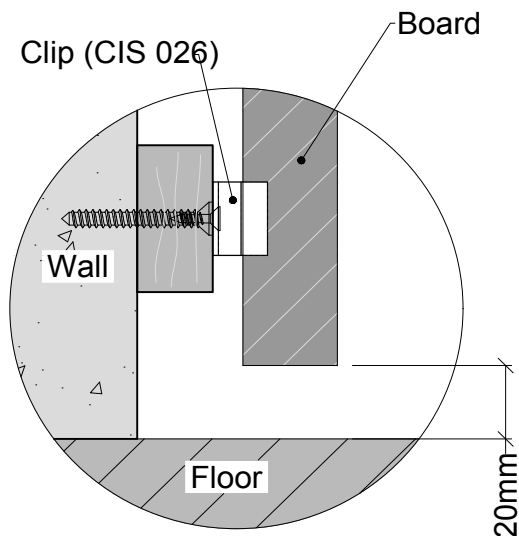


ONLY ONE LOCKING SCREW TO BE USED PER BOARD

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 (CIS 912) and the Inside Corner

- Wall Side B (Cladding between the Inside Corner and the Outside Corner trim (CIS 913)

Put the second Castellation Cladding Board (CAS 160) over the first board's Clip (CIS 026) and fasten its other side onto the batten with the Clip (CIS 026), as shown in **Diagram 7**

Outermost Edge (F-Trim CIS 912), as shown in **Detail 7-1**.

Outside Corner (Outside Corner Trim CIS 913), as shown in **Detail 7-2**.

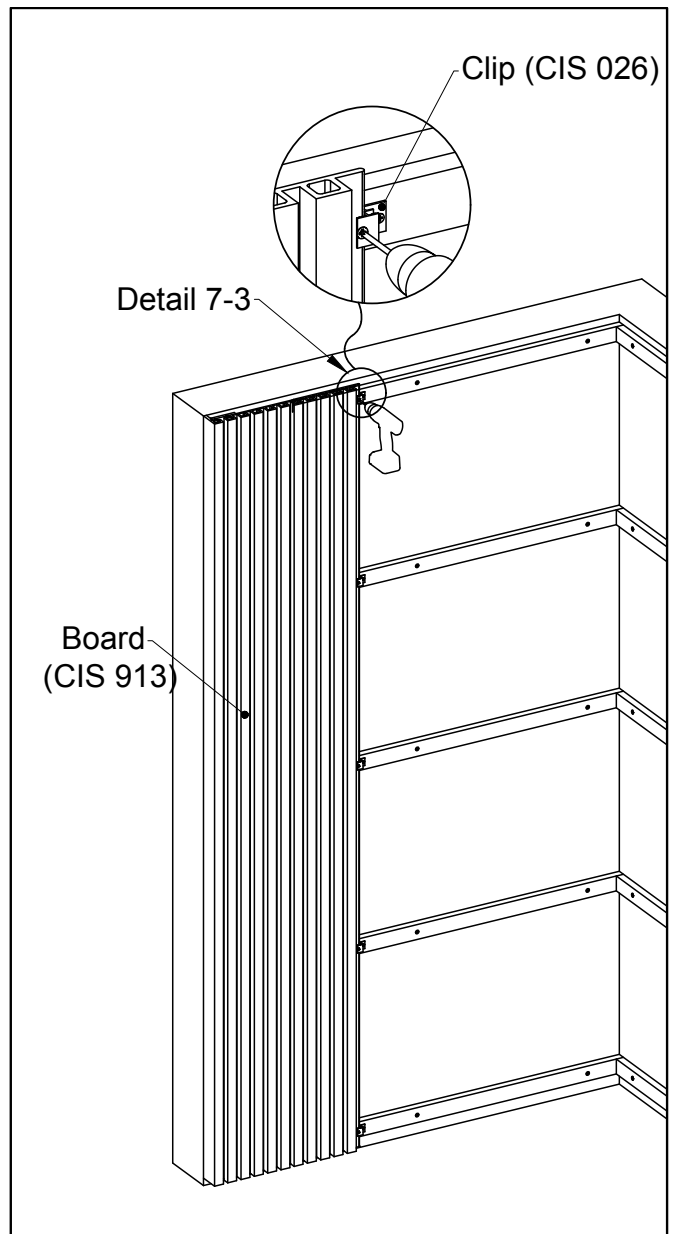
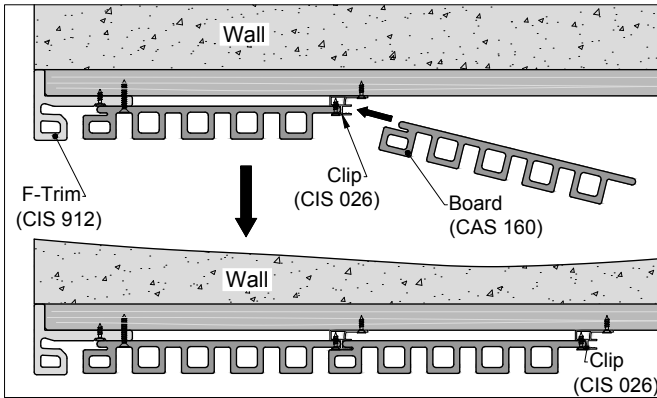


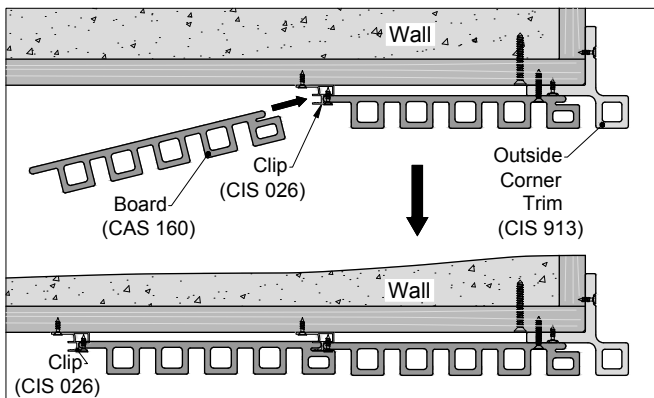
Diagram 7

Outermost Edge (F-Trim CIS 912), as shown in **Detail 7-1**.



Detail 7-1

Outside Corner (Outside Corner Trim CIS 913), as shown in **Detail 7-2**.



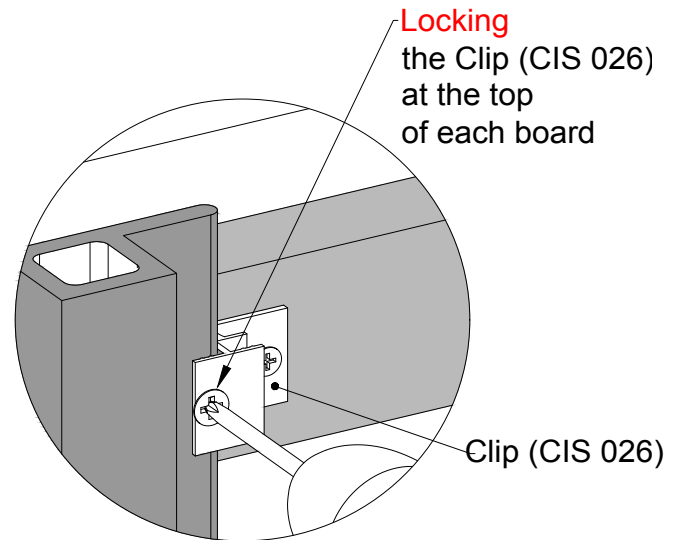
Detail 7-2

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 (CIS 026) at the middle of each board** as shown in **Detail 7-3**

DO NOT LOCK any other Clip (CIS 026) for the same board.

Please review page 13, "Locking the Wall Cladding Board" of this installation guide for further information.



ONLY ONE LOCKING SCREW TO BE USED PER BOARD

Detail 7-3

8

When you are at the last cladding board that the installation is toward the inside corner from the F-Trim (CIS 912), measure and record the distance between the adjacent batten and the Clip (CIS 026), as shown in **Diagram 8-1** and **Detail 8-1**

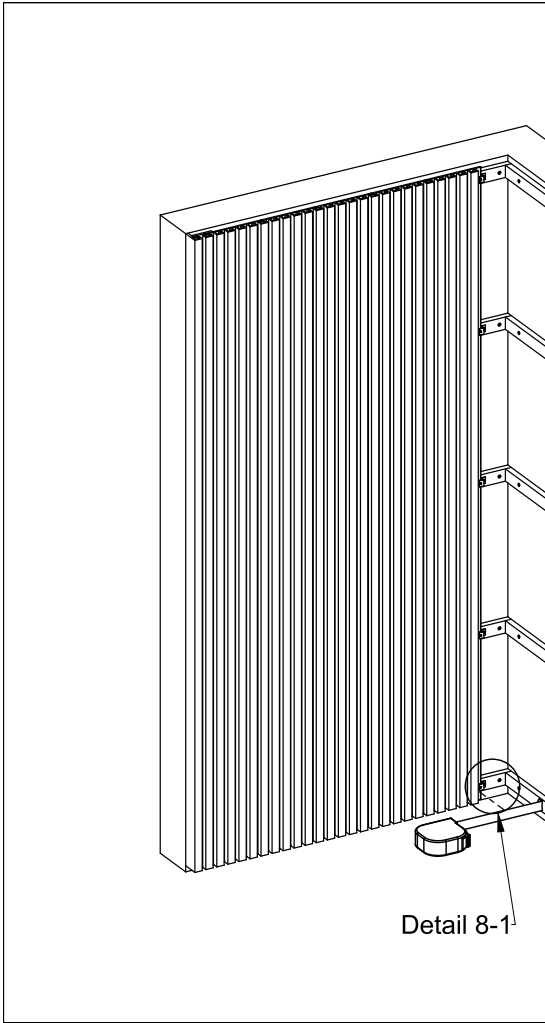


Diagram 8-1

When you are at the last cladding board that the installation is toward the inside corner from the Outside Corner Trim (CIS 913), measure and record the distance between the adjacent batten and the Clip (CIS 026), as shown in **Diagram 8-2** and **Detail 8-2**

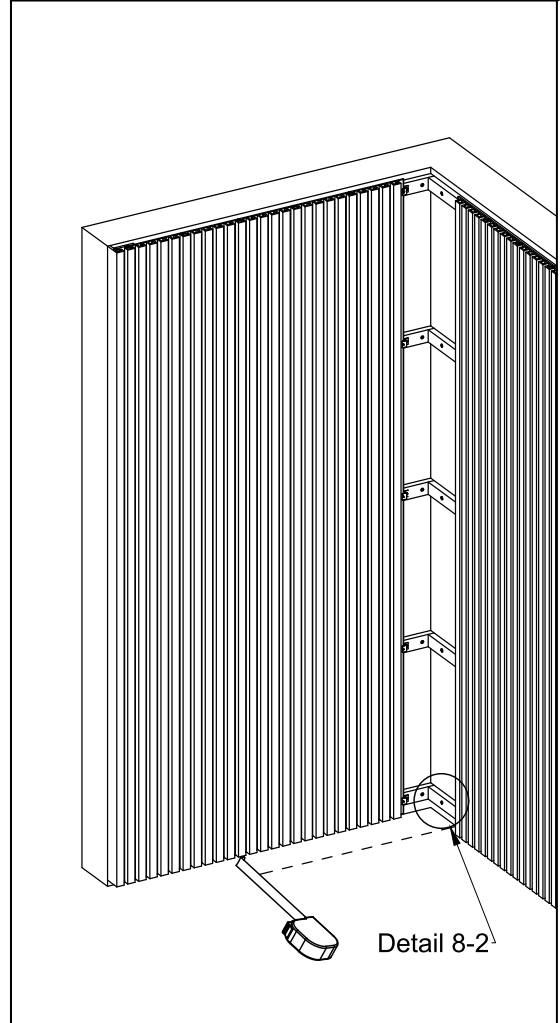
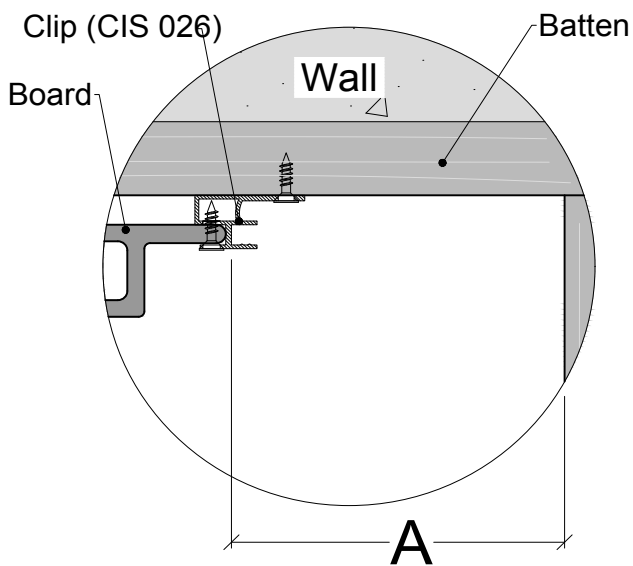
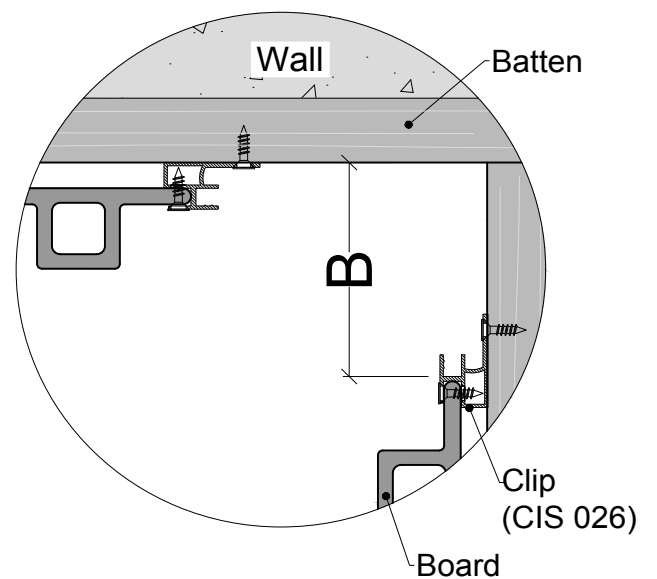


Diagram 8-2



Detail 8-1



Detail 8-2

9 Put a 90 degree Composite flashing (Black powder-coated) in the inside corner and secure it onto the battens with screws, as shown in **Diagram 9**.

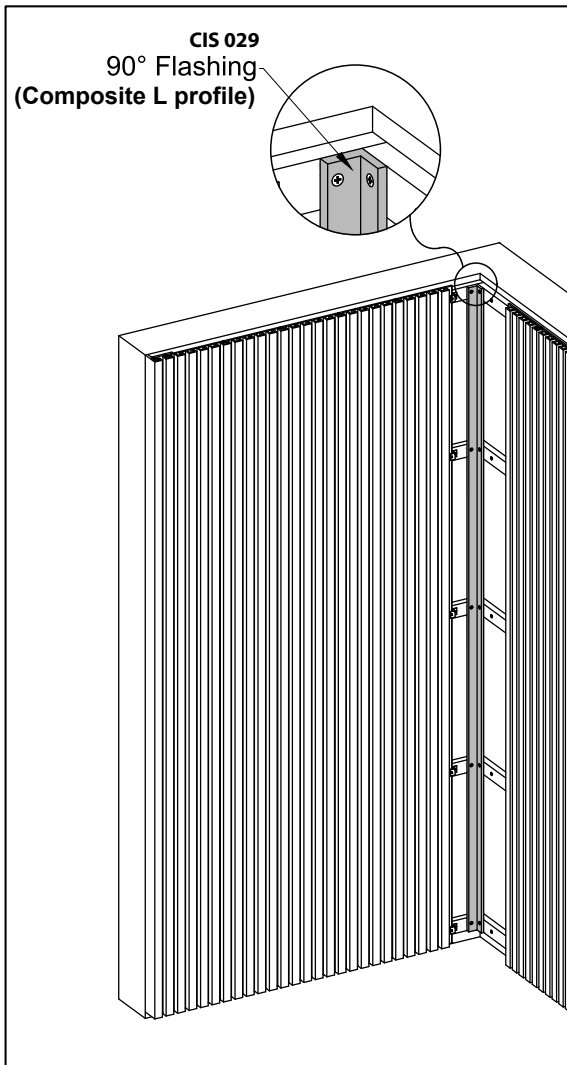


Diagram 9

10 Fasten the Stoppers (CIS 029) beside both sides of the 90 degree Composite flashing, as shown in **Diagram 10-1** and **Diagram 10-2**.

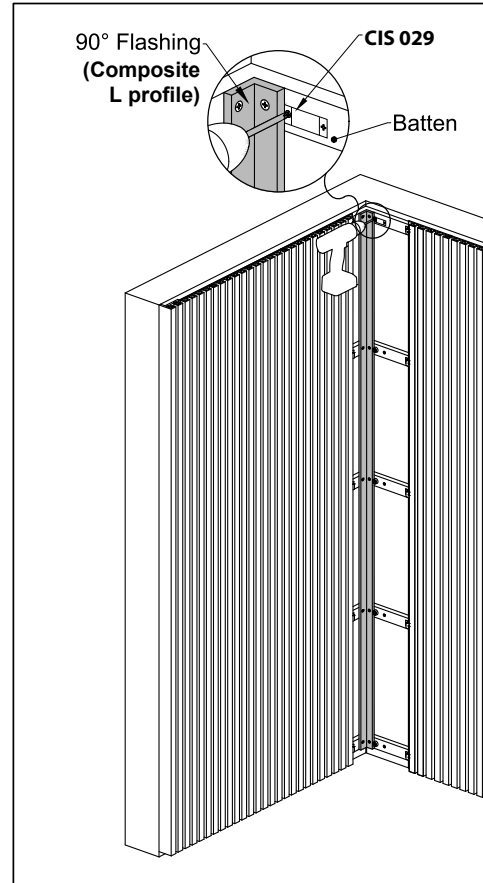


Diagram 10-1

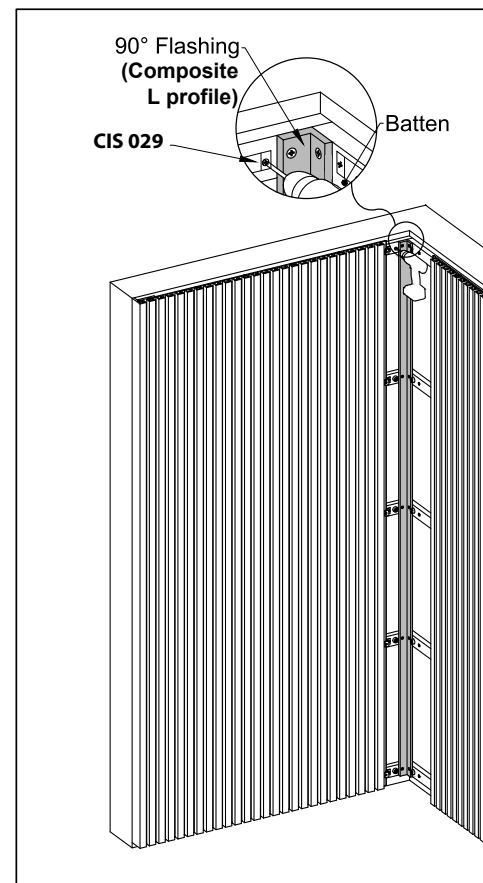


Diagram 10-2

11

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**.

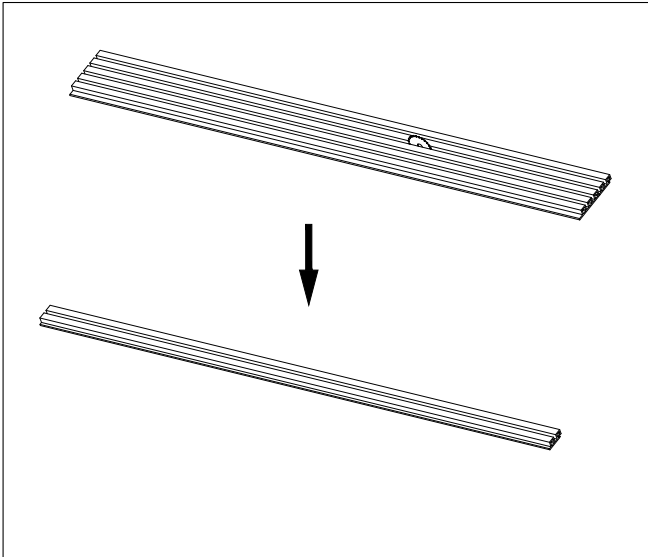
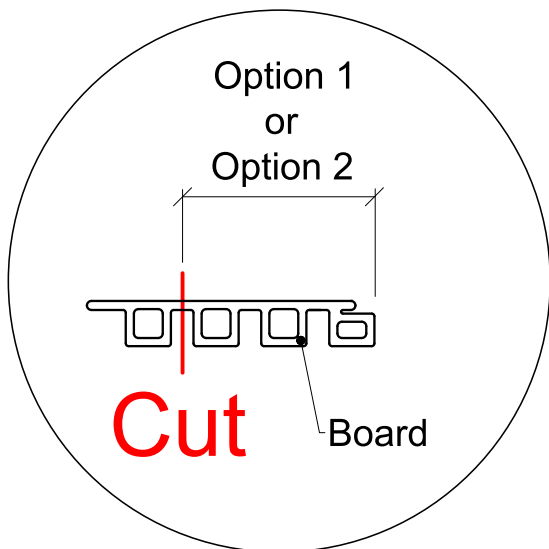


Diagram 11



Detail 11-1

12

Face fix the two last cladding boards onto the battens against CIS 029 with screws (**Pavezzi Composites 8Gx50 colour head compositescrew**) as shown in **Diagram 12-1** and **Diagram 12-2**.

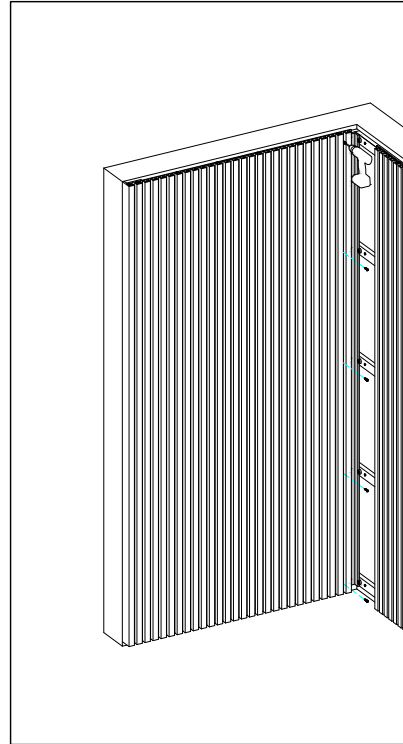


Diagram 12-1

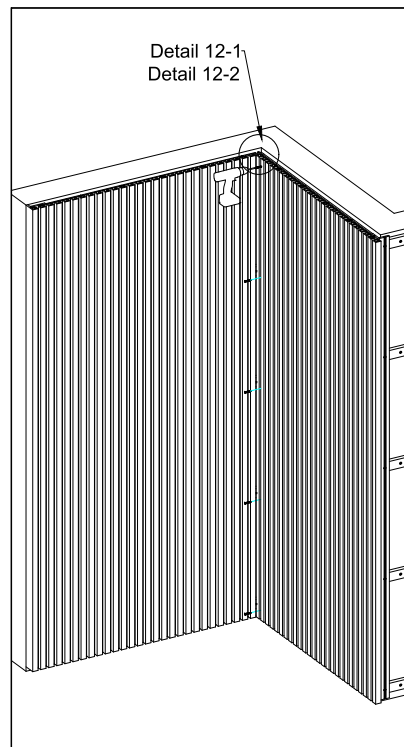
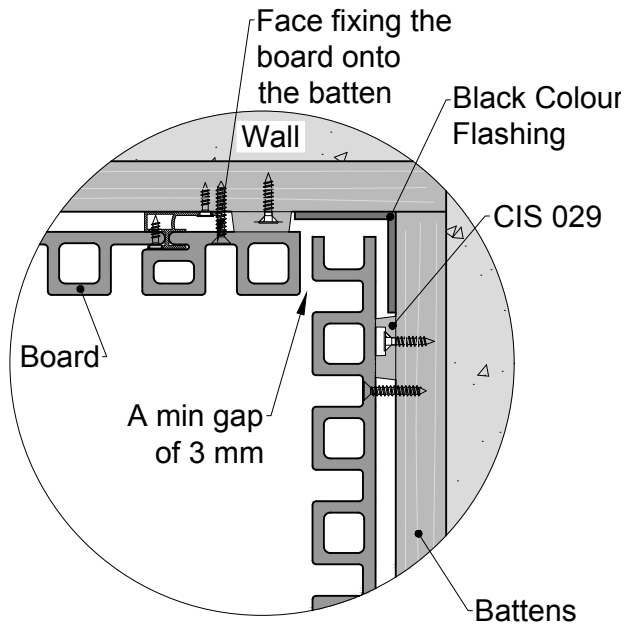


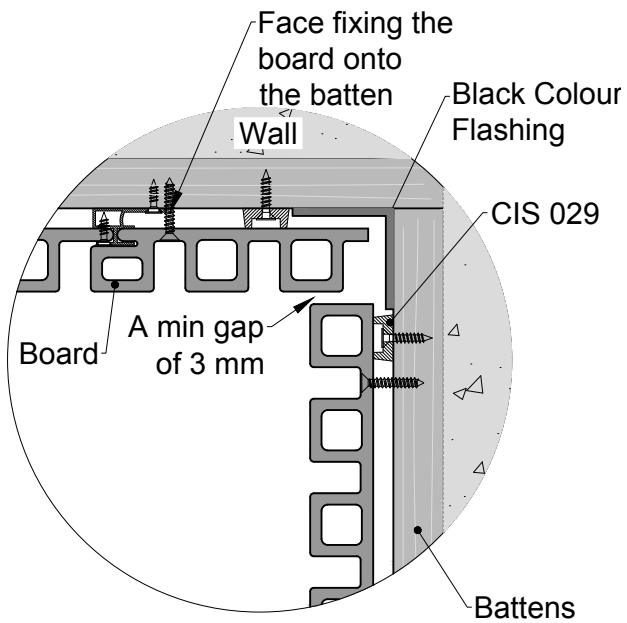
Diagram 12-2

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

13

BEFORE INSTALLATION ON

- **Wall Side C (Cladding between two Outside Corner trims (CIS 913))**

- **Wall Side D (Cladding between the Outside Corner trim (CIS 913) and the F-Trim (CIS 912))**

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

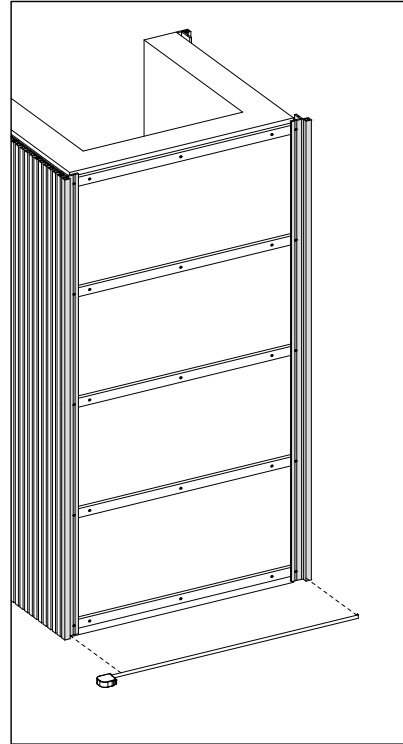
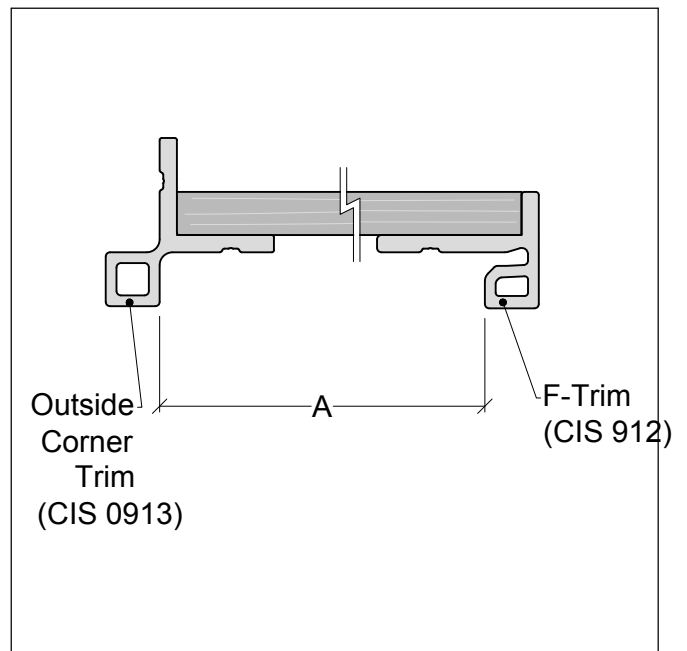


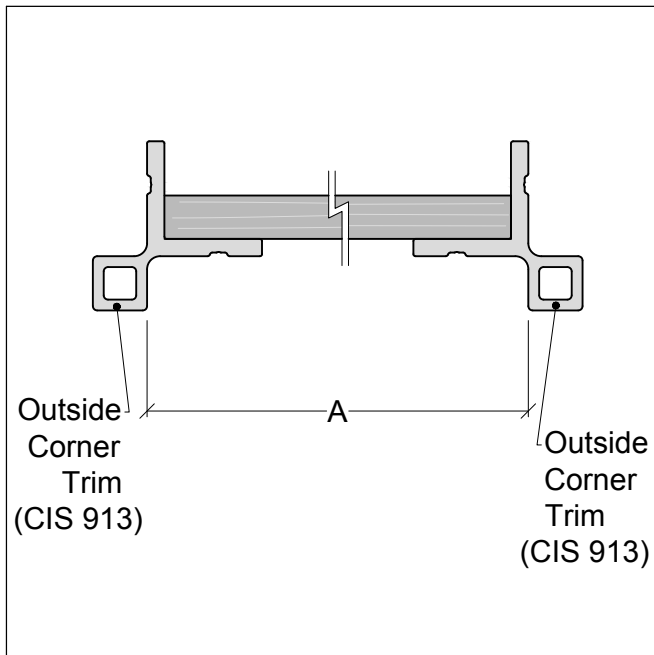
Diagram 13-1

Detail 13-1 shows the measurement "A" in between the Outside Corner trim (CIS 913) and the F-Trim (CIS 912).



Detail 13-1

Detail 13-2 shows the measurement "A" in between two Outside Corner Trims (CIS 913).



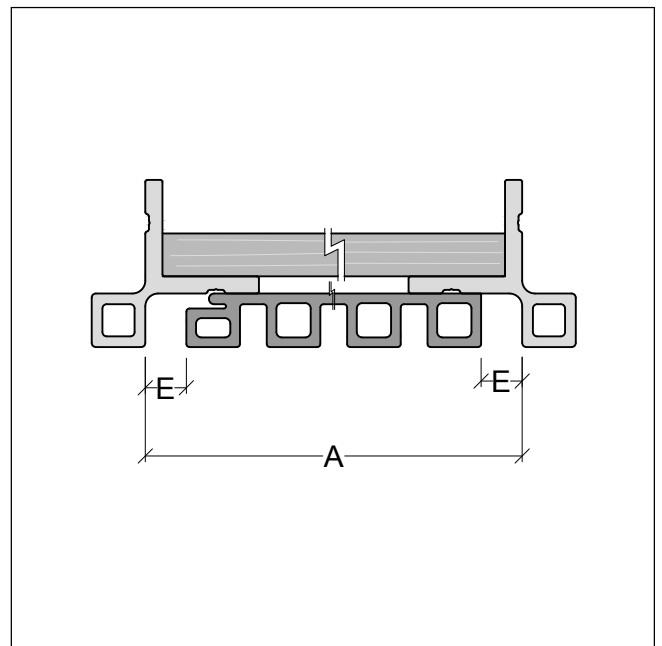
Detail 13-2

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

- The number of full profiles required - Coverage of 160mm 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

- Wall Side C (Cladding between two Outside Corner trims (CIS 913))

- Wall Side D (Cladding between the Outside Corner trim (CIS 913) and the F-Trim (CIS 912))

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 (Pavezzi Composites 8Gx50 colour head composite screw), as shown in Diagram 14

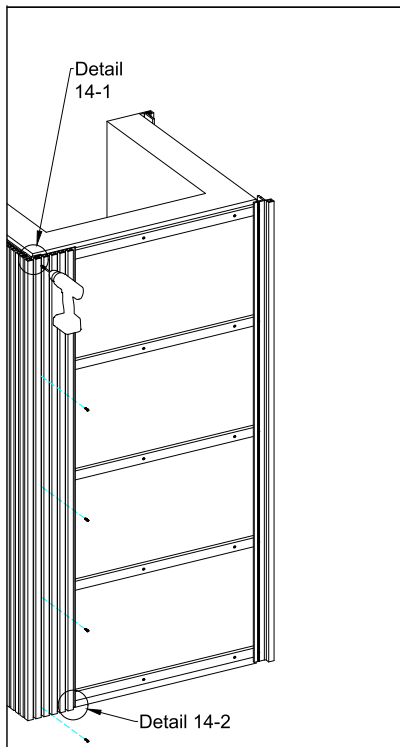
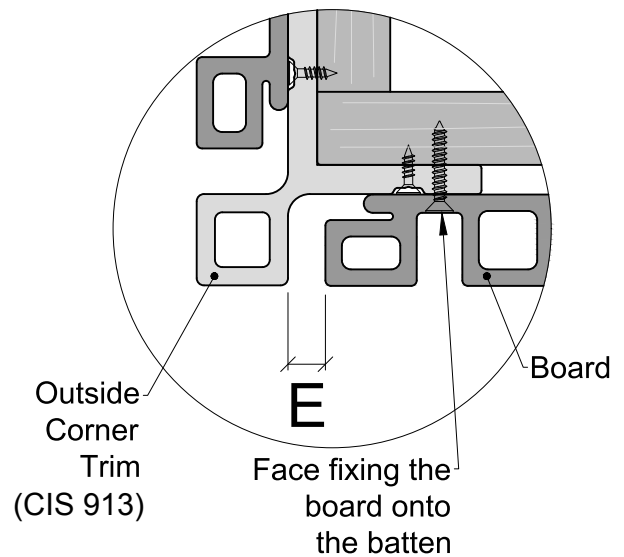


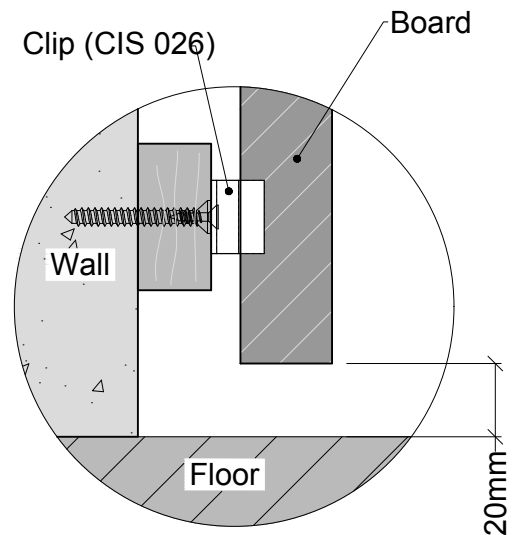
Diagram 14-1

PLEASE NOTE:

1. Pre-drill the face fixing holes on the first board before installation to allow for expansion and contraction. Please review page 4, "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

Secure the board onto the battens with the Clip (CIS 026), 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 (CIS 026) at the top of each board**, as shown in **Detail 14-3**

DO NOT LOCK any other Clip (CIS 026) for the same board.

Please review page 13, "Locking the Wall Cladding Board" of this installation guide for further information.

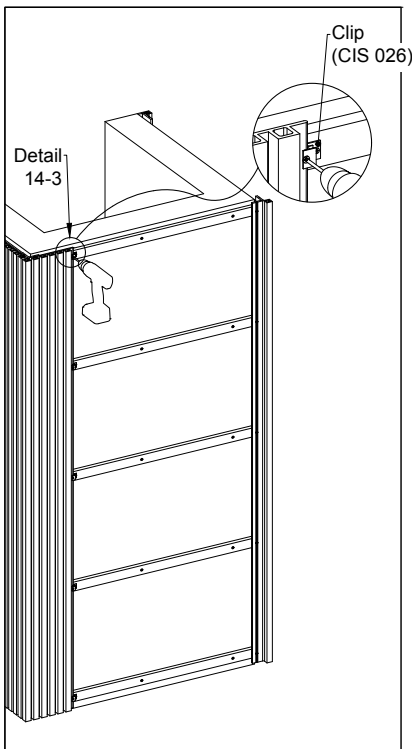
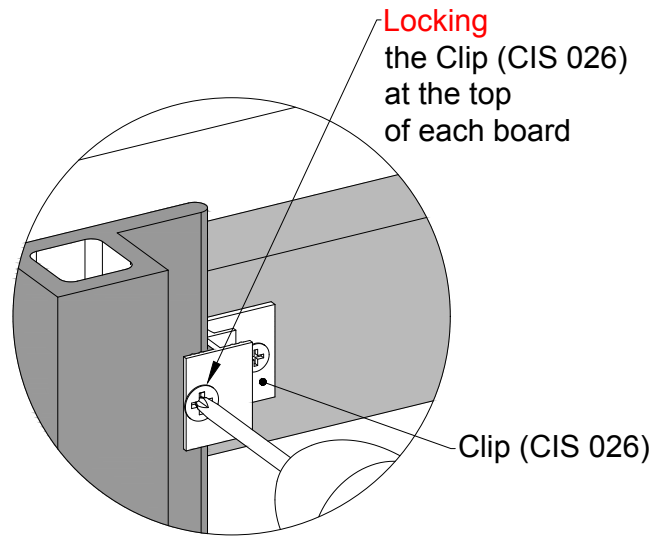


Diagram 14-2



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

Detail 14-3

15

INSTALLING THE SECOND COURSE

- Wall Side C (Cladding between two Outside Corner trims (CIS 913))

- Wall Side D (Cladding between the Outside Corner trim (CIS 913) and the F-Trim (CIS 912))

Please process the installation procedure same as Step 7 on page 19 to 20 of this installation guide.

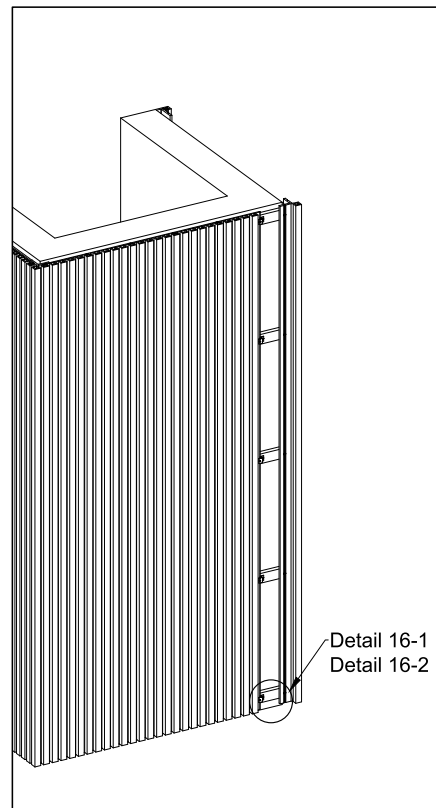
16

CONTINUING THE REMAINING INSTALLATION

- Wall Side C (Cladding between two Outside Corner trims (CIS 913))

- Wall Side D (Cladding between the Outside Corner trim (CIS 913) and the F-Trim (CIS 912))

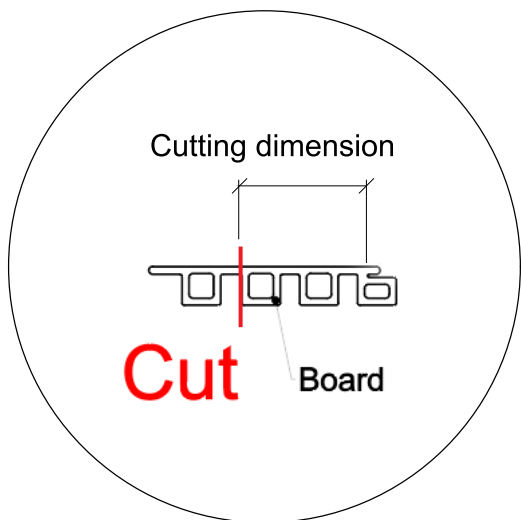
The width of the cladding boards and the width along the installed cladding boards should be a bit different versus the design due to the tolerance that occurred in the board production process and installation work. Therefore, when you are at near **300mm** beyond the next trim, it is recommended to measure the distance between the Clip (CIS 026) 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.

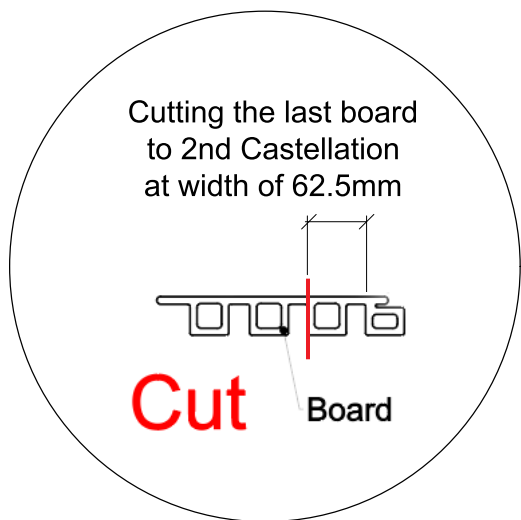
Diagram 16-1

Detail 16-1 shows how to measure the determination measurement from the Outside Corner Trim (CIS 913).



Detail 16-1

Detail 16-2 shows how to measure the determination measurement from the F-Trim (CIS 912).



Detail 16-2

Rip the cladding board according to the value of final determination, as shown in **Diagram 16-2** and **Detail 16-3**.

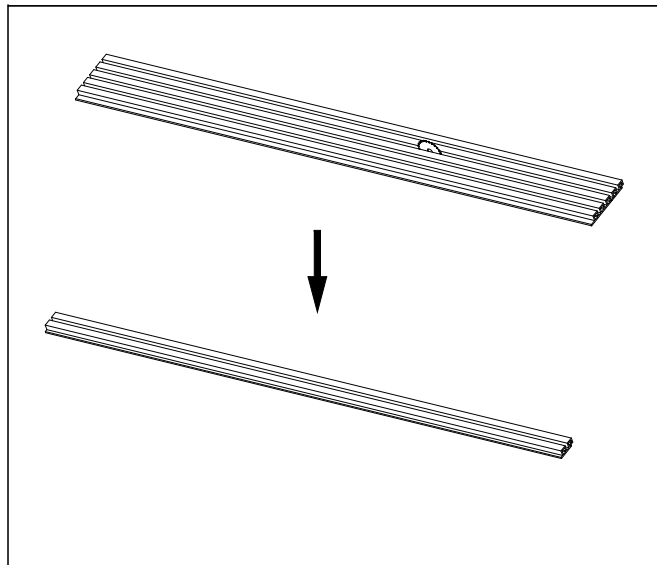
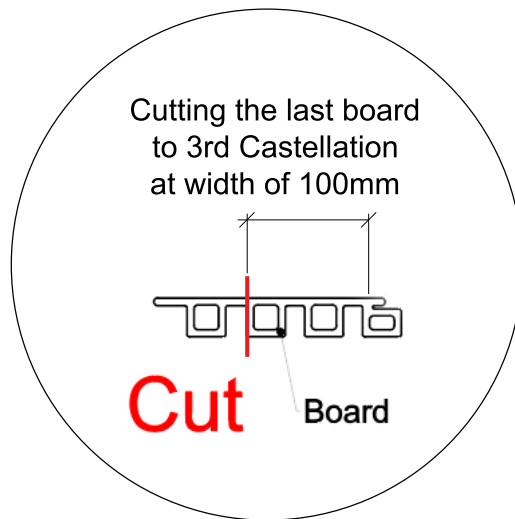
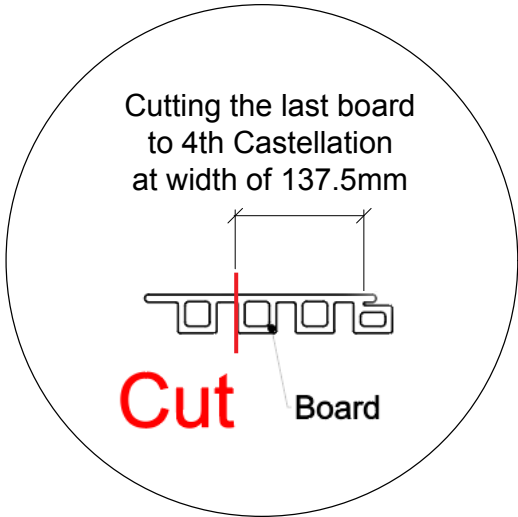


Diagram 16-2

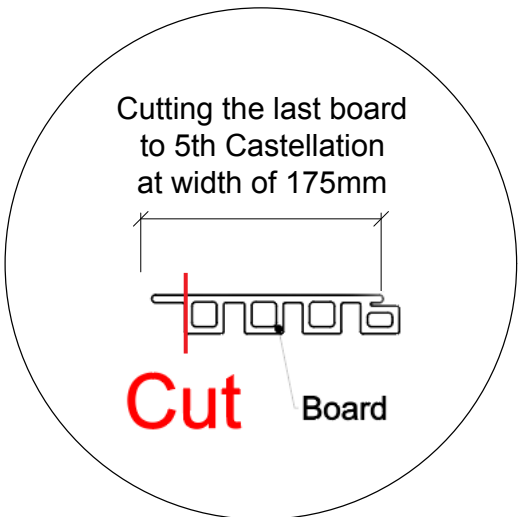


Detail 16-3

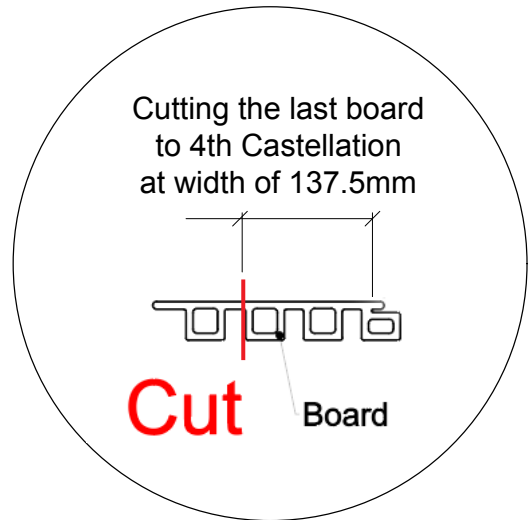
It is recommended to rip the Castellation Cladding Board (CAS 160) as shown in **Detail 16-4** to **Detail 16-7** to gain the optimal profile appearance



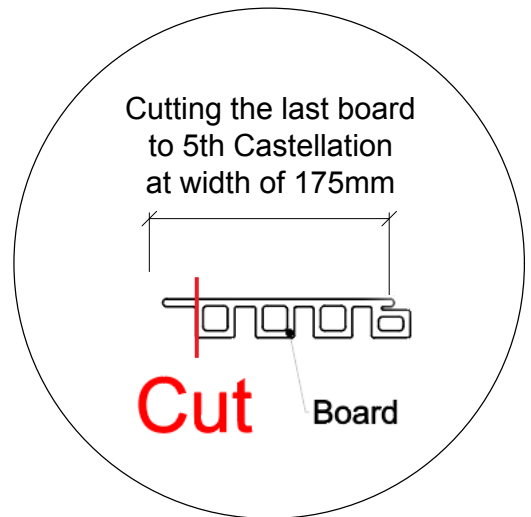
Detail 16-4 **ONLY**



Detail 16-5



Detail 16-6



Detail 16-7

17

Face fixing the last ripped cladding board onto the batten with screws (**Pavezzi Composites 8Gx50 colour head composite screw**), as shown in **Diagram 17-1** and **Detail 17-1** at the outside corner (Outside Corner Trim CIS 913), **Diagram 17-2** and **Detail 17-2** at the outermost edge (F-Trim CIS 912) .

PLEASE NOTE:

1. Pre-drill the face fixing holes on the last board before installation to allow for expansion and contraction. Please review **page 4, "Pre-drill"**, of this installation guide for further information.

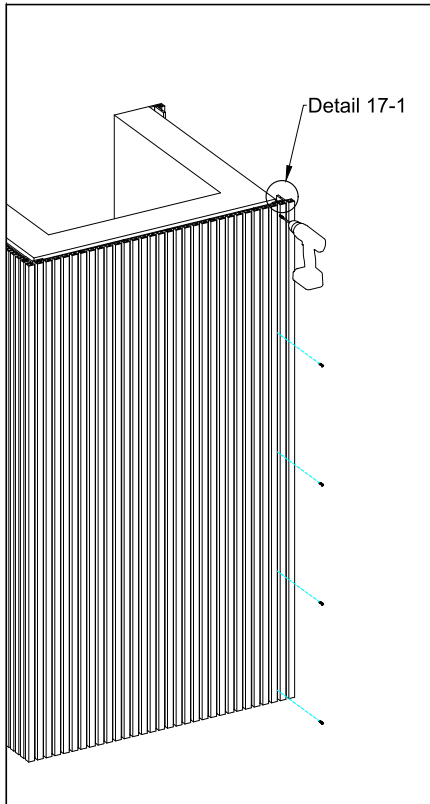
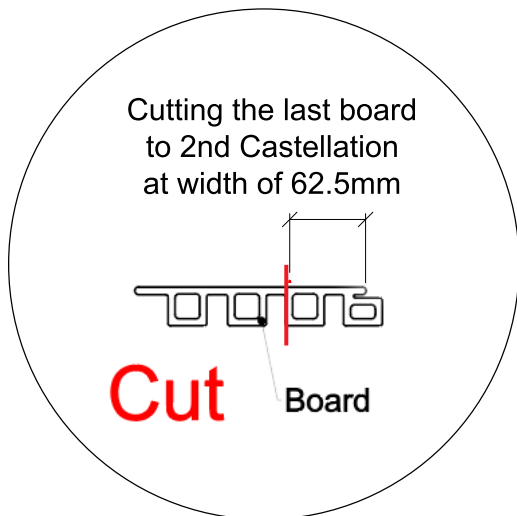


Diagram 17-1



Detail 17-1

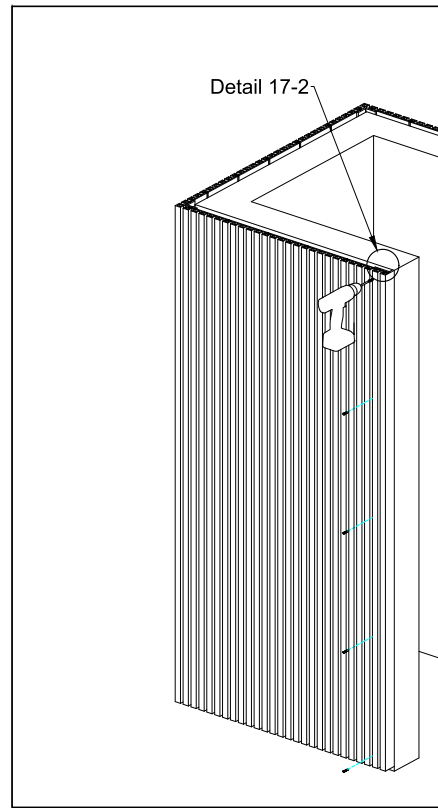
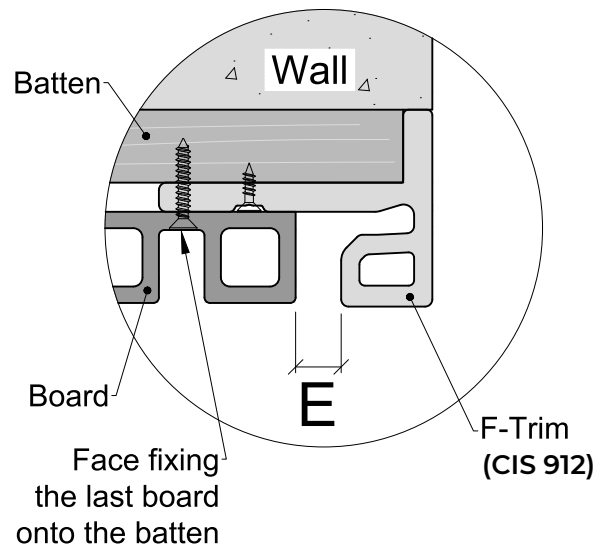


Diagram 17-2



Detail 17-2

Diagram 18 presents the final appearance after completing the installation.

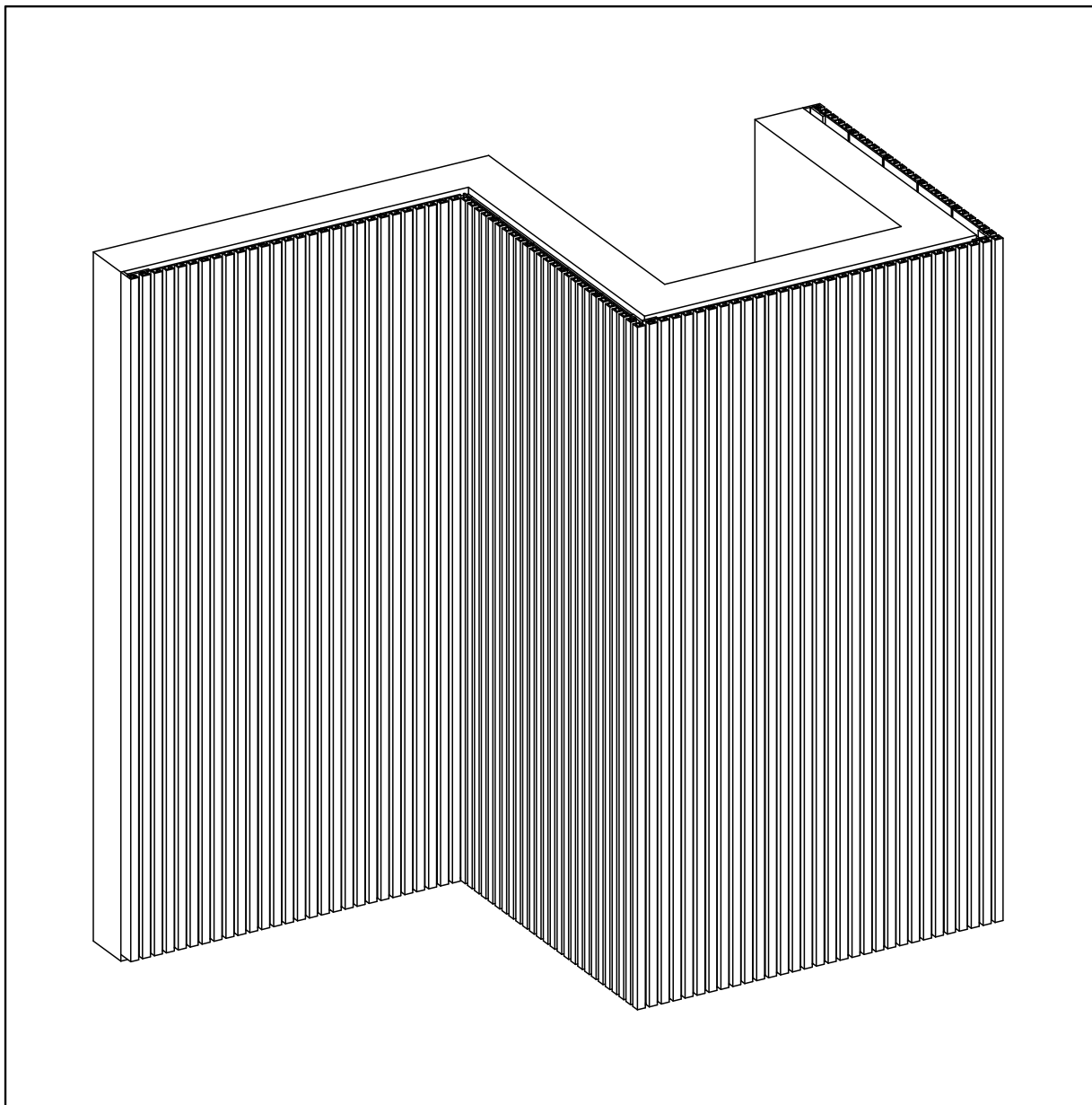


Diagram 18

CASTELLATION CLADDING - HORIZONTAL INSTALLATION

INSTALLATION PROCEDURE

Step 1: Framing

- Measure and Chalk the battens
- Battens Installation

Step 2: Installation the Trims on the Starting Point

Step 3: Starting Trim (CAS 023) Installation

Step 4: Castellation Cladding Board Installation

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

19

FRAMING

The frame needs to be level before installing the cladding boards. **Diagram 19** shows the wall replicating different scenarios potentially occurring when installing the cladding boards.

Wall Side A: Cladding between the F-Trim (CIS 912) and the Inside Corner

Wall Side B: Cladding between the Inside Corner and the Outside Corner Trim (CIS 913)

Wall Side C: Cladding between two Outside Corner Trims (CIS 913)

Wall Side D: Cladding between the Outside Corner Trim (CIS 913) and the F-Trim (CIS 912)

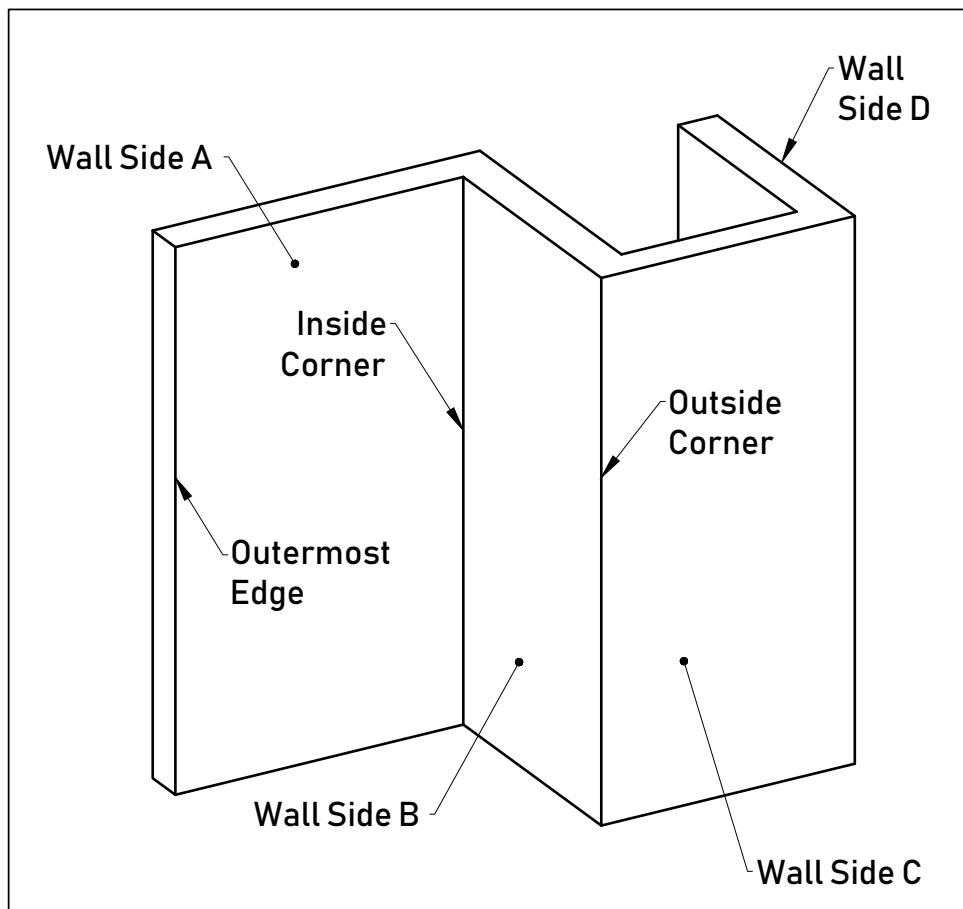


Diagram 19

20

Measure and chalk the battens according to the span data specified on page 4 of this installation guide, as shown in **Diagram 20**.

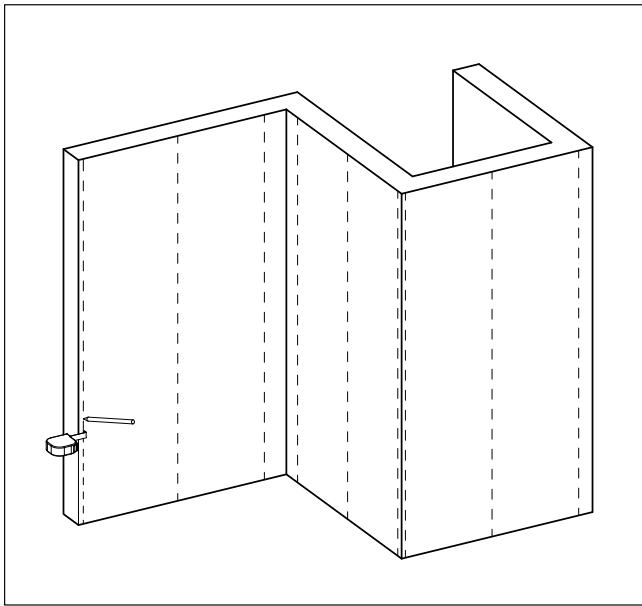


Diagram 20

PLEASE NOTE:

1. We are using timber battens for this installation. If you are using metal/aluminium battens, please refer to page 6 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 4 of this installation guide to see what span is needed.

21

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 4 to see what span is needed, as shown in **Diagram 21**.

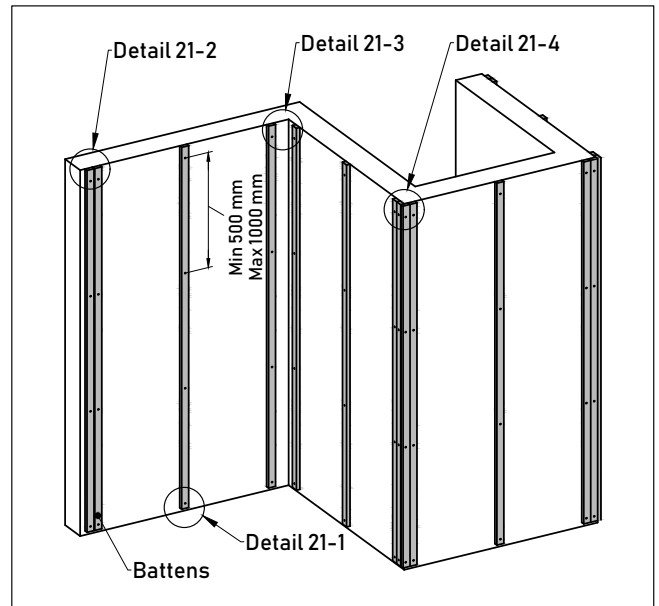
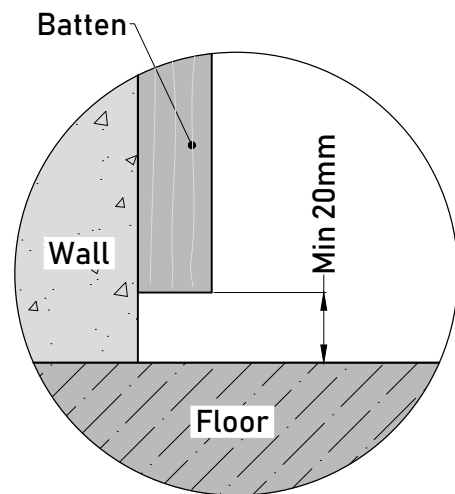


Diagram 21

PLEASE NOTE:

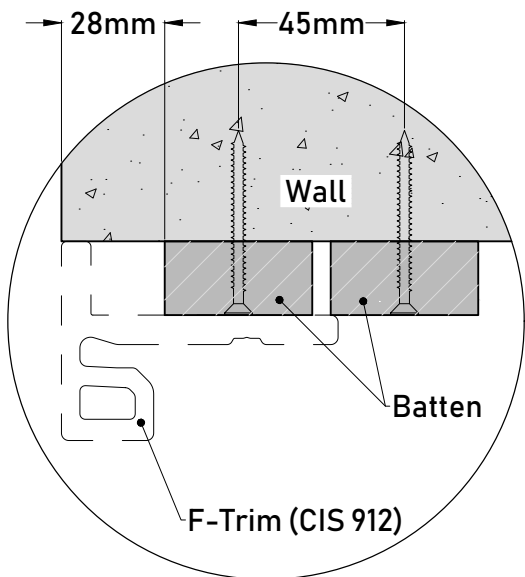
1. A minimum clearance of 20mm needs to be left at the bottom of each batten against the floor, as shown in **Detail 21-1**.



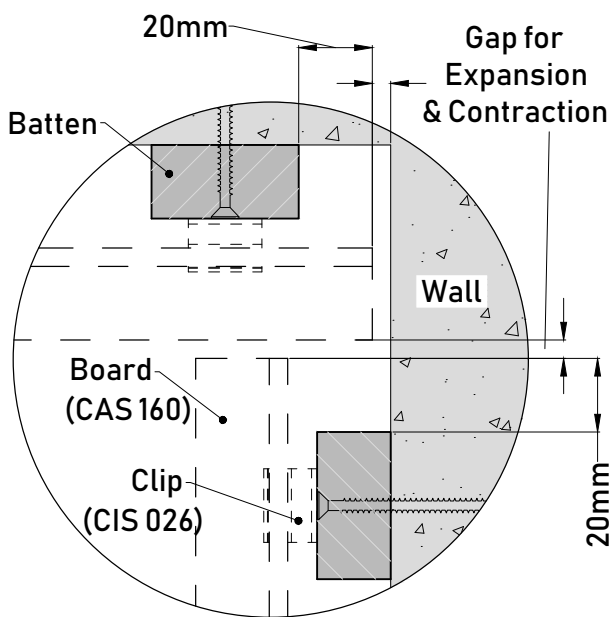
Detail 21-1

PLEASE NOTE:

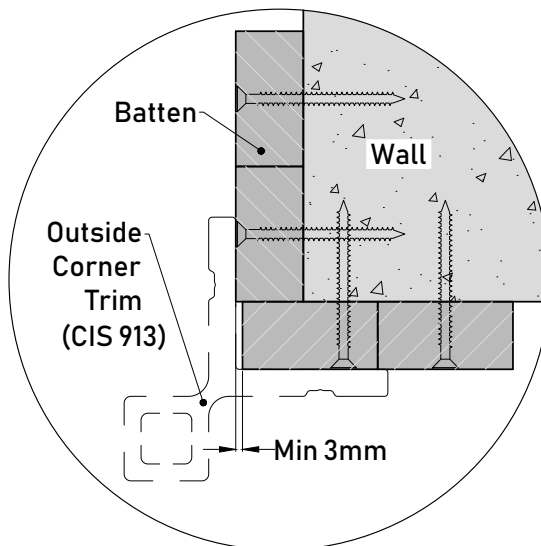
2. For the Outermost Edge (F-Trim CIS 912), please install according to **Detail 21-2**.
3. For the Inside Corner (No trim is needed), please install according to **Detail 21-3**.
4. For the Outside Corner (Outside Corner Trim CIS 913), please install according to **Detail 21-4**.



Detail 21-2



Detail 21-3



Detail 21-4

22

INSTALLING THE TRIMS ON THE STARTING POINT

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

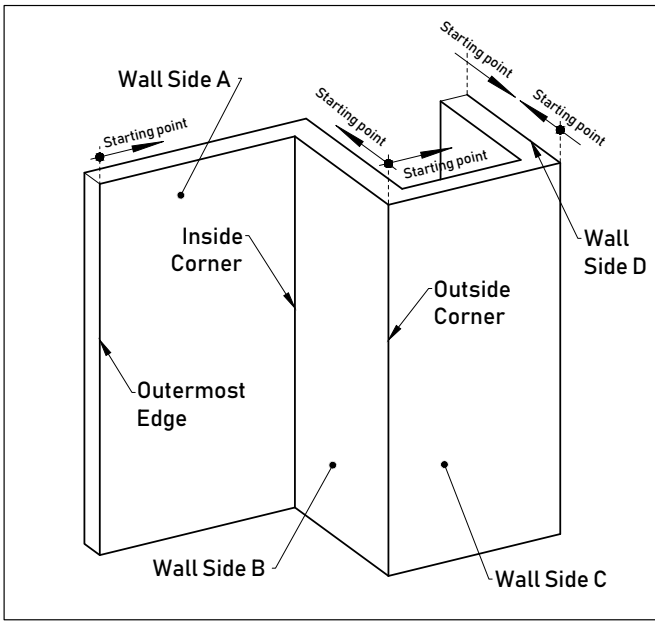


Diagram 22

23

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

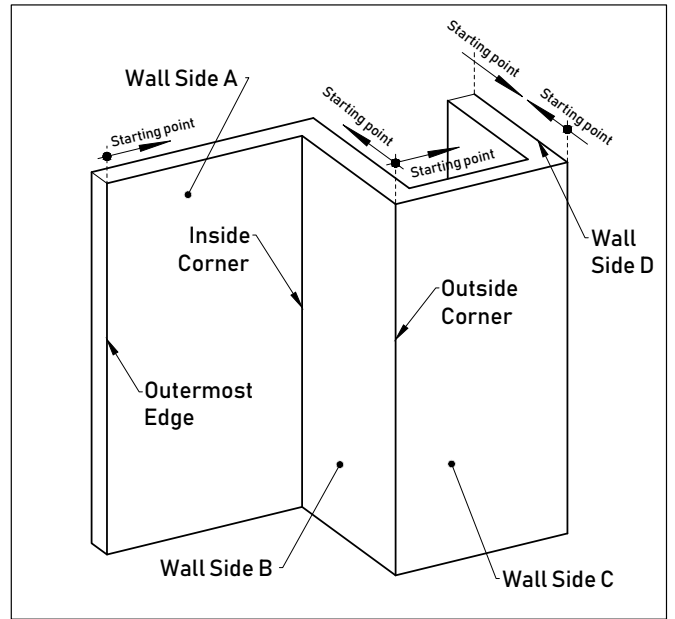
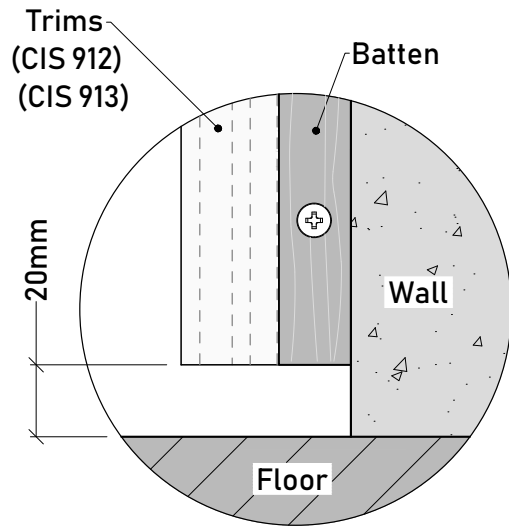


Diagram 23

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

PLEASE NOTE:

2. Wall Side A: Cladding between the F-Trim (CIS 912) and the Inside Corner. Secure the F-Trim (CIS 912) 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 (CIS 913).

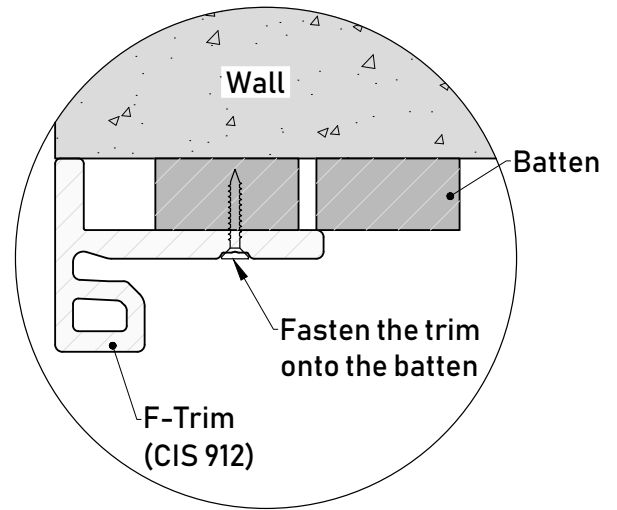
Secure the Outside Corner Trim (CIS 913) onto the outside corner's battens with screws in the distance at least 500mm and max 1000mm on centre, as shown in **Detail 23-3**.

4. Wall Side C: Cladding between two Outside Corner Trims (CIS 913).

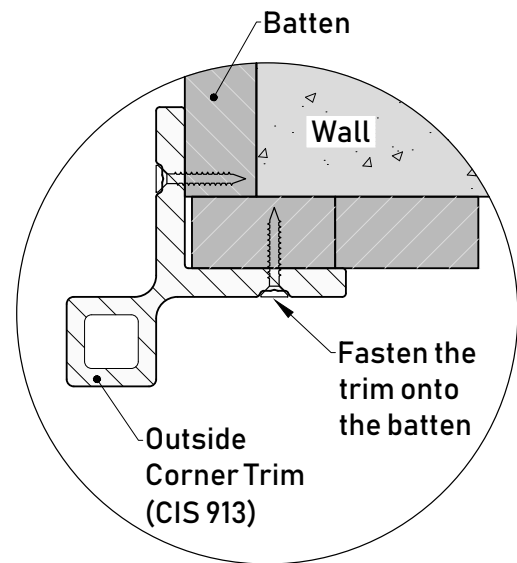
Secure the Outside Corner Trim (CIS 913) onto the outside corner's battens with screws in the distance at least 500mm and max 1000mm on centre, as shown in **Detail 23-4**.

5. Wall Side D: Cladding between the Outside Corner Trim (CIS 913) and the F-Trim (CIS 912).

Secure the Outside Corner Trim (CIS 913) onto the outside corner's battens and the F-Trim (CIS 912) 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**.



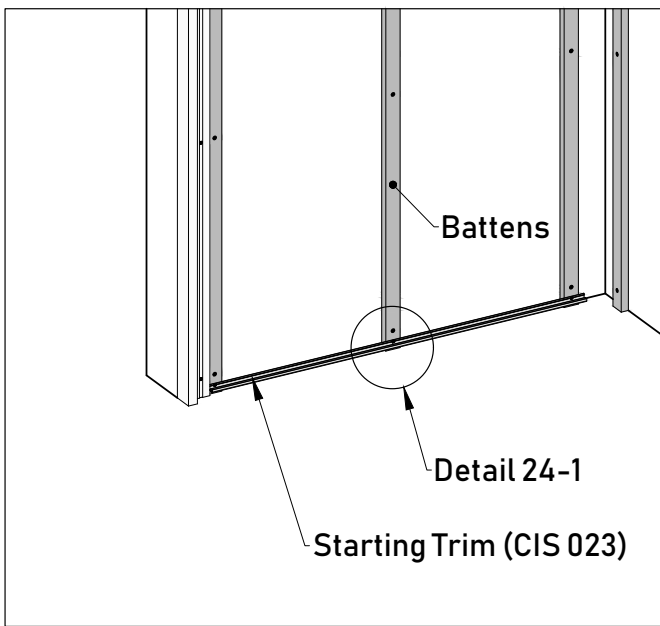
Detail 23-2



Detail 23-3

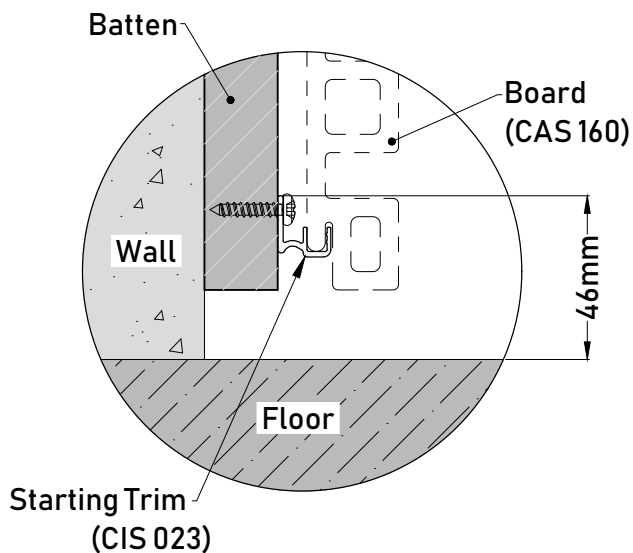
TRIM (CIS 023) INSTALLATION

Install the Starting Trim (CIS 023) at the end of the battens against the floor with screws, as shown in **Diagram 24**.

**Diagram 24**

PLEASE NOTE:

1. Fasten the Starting Trim (CIS 023) 46mm height against the floor to get a minimum clearance of 20 mm between the cladding board and the floor, as shown in Detail 24-1.

**Detail 24-1**

PLEASE NOTE:

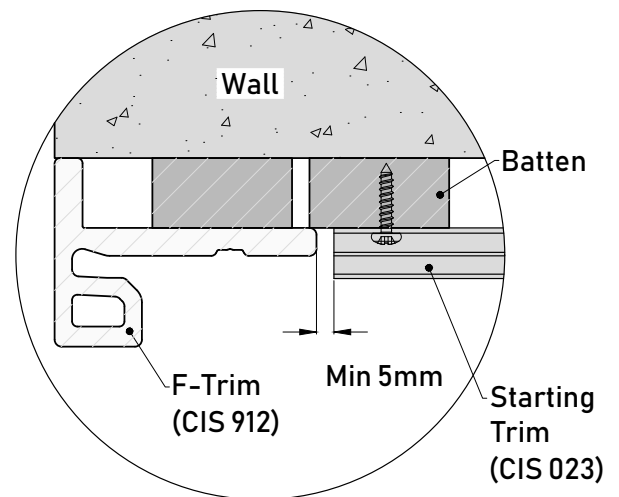
2. Outermost Edge (F-Trim CIS 912) A minimum gap of 5mm needs to be left between the Starting Trim (CIS 023) and the F-Trim (CIS 912), as shown in **Detail 24-2**

3. Inside Corner (no trim is needed to install)

A minimum clearance of 11mm needs to be left between the Starting Trim (CIS 023) against Wall Side B in the inside corner, as shown in **Detail 24-3**. And a minimum distance of 63mm needs to be left between the Starting Trim (CIS 023) against Wall Side A in the inside corner, as shown in **Detail 24-3**.

4. Outside Corner (Outside Corner Trim CIS 913)

A minimum gap of 5mm needs to be left between the Starting Trim (CIS 023) and the Outside Corner Trim (CIS 913), as shown in **Detail 24-4**.

**Detail 24-2**

INSTALLING THE FIRST COURSE

Put the first Castellation Cladding Board (CAS 160) over the Starting Trim (CIS 023) in place and fasten it onto the batten with the Clip (CIS 026), as shown in Diagram 25 and Detail 25-1.

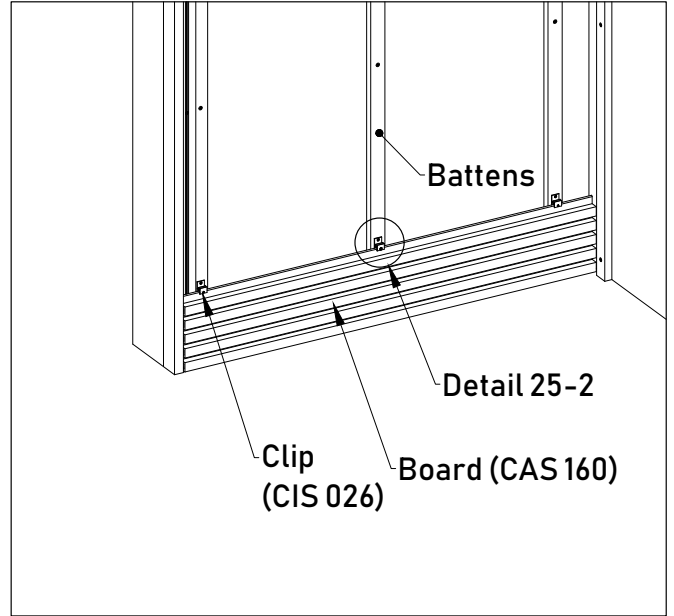
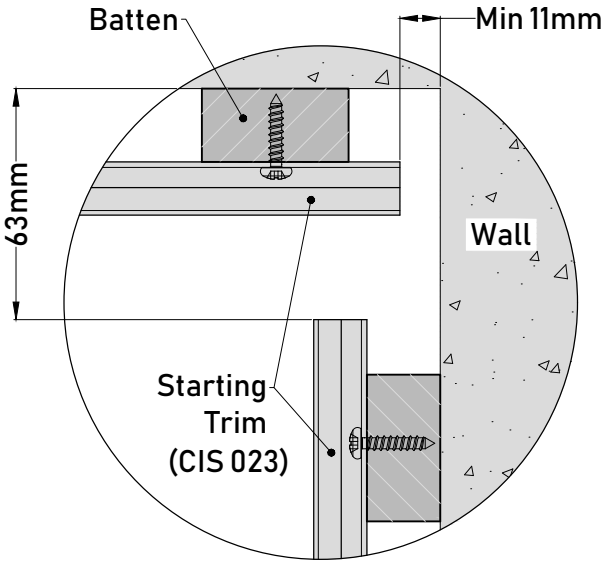
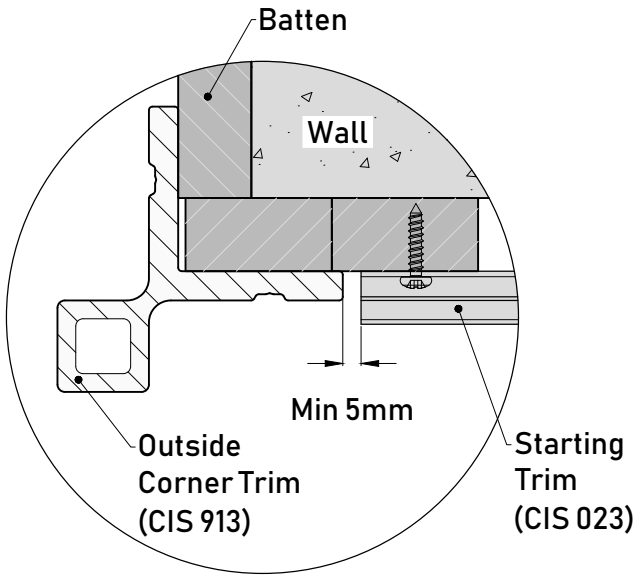


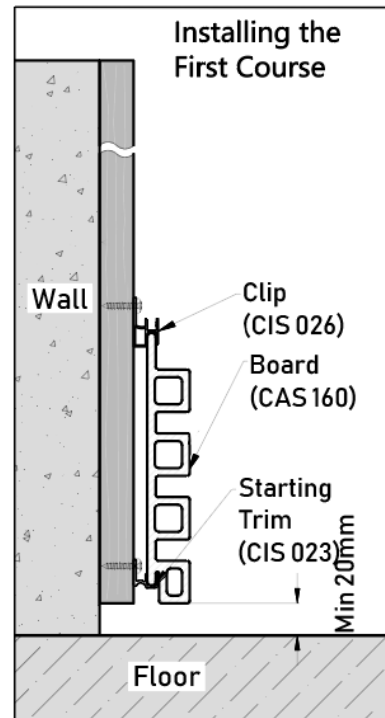
Diagram 25



Detail 24-3



Detail 24-4



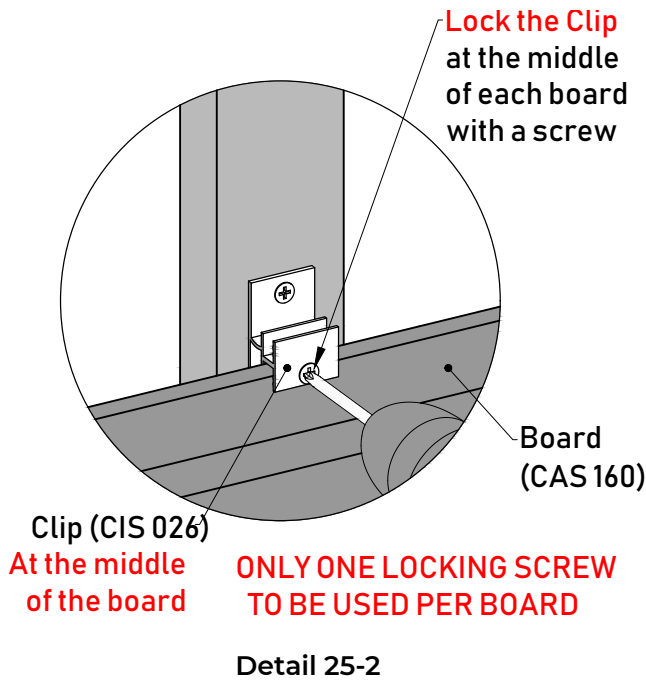
Detail 25-1

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 horizontally, it is required to lock the Clip (CIS 026) at the middle of each board, as shown in **Detail 25-2**.

DO NOT LOCK any other Clip (CIS 026) for the same board.

Please review page 13, "Locking the Wall Cladding Board" of this installation guide for further information.

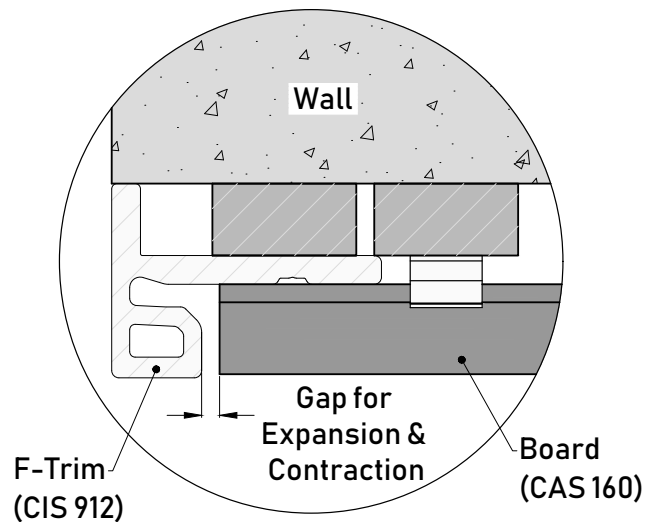


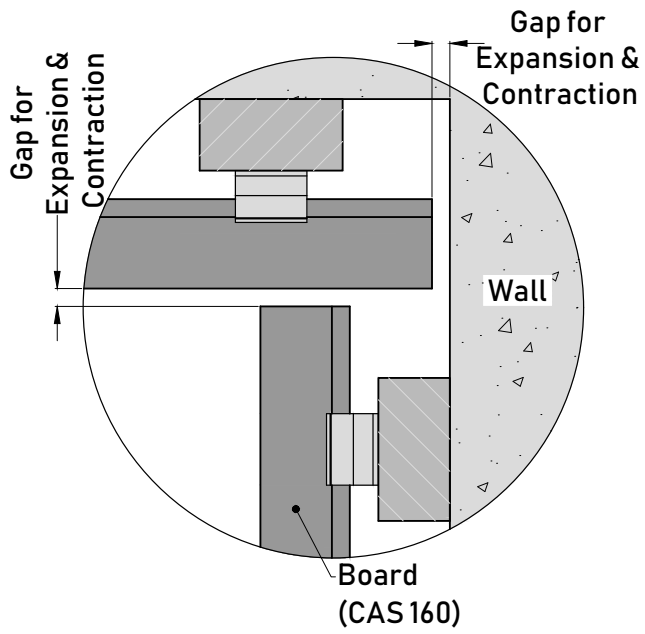
PLEASE NOTE:

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 (CIS 912), Outside Corner Trim (CIS 913), 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 (CIS 912), 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 (CIS 913), as shown in **Detail 25-5**.

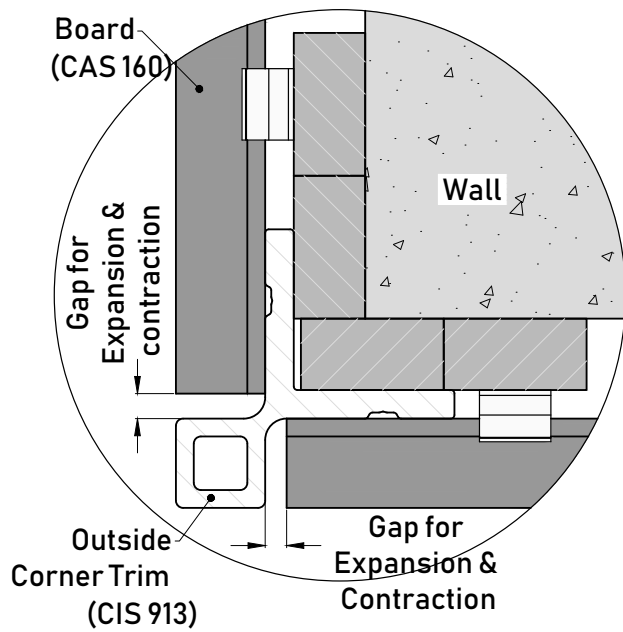
Please select the appropriate gap value according to the **"Expansion and Contraction Values Table"** on page 4 of this installation guide.

Detail 25-3





Detail 25-4



Detail 25-5

26 **INSTALLING THE SECOND COURSE**

Put the second Castellation Cladding Board (CAS 160) over the first board's Clip (CIS 026) in place and fasten it onto the batten with another Clip (CIS 026), as shown in **Diagram 26** and **Detail 26-1**.

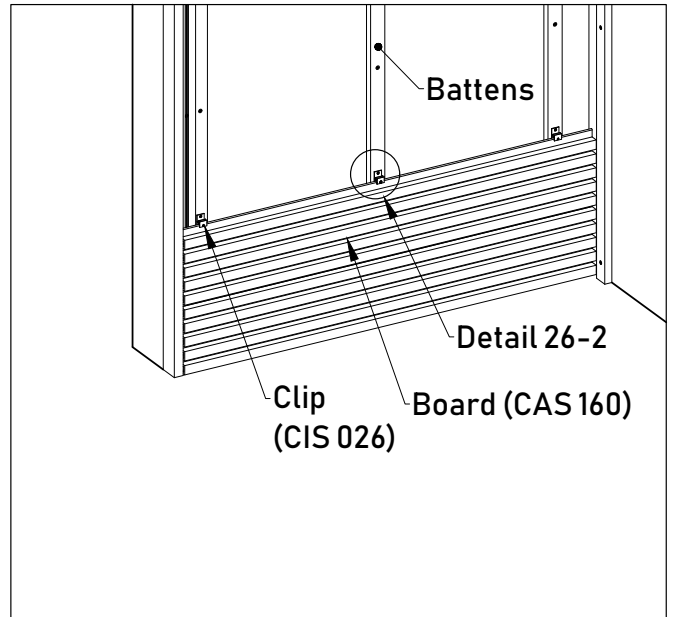
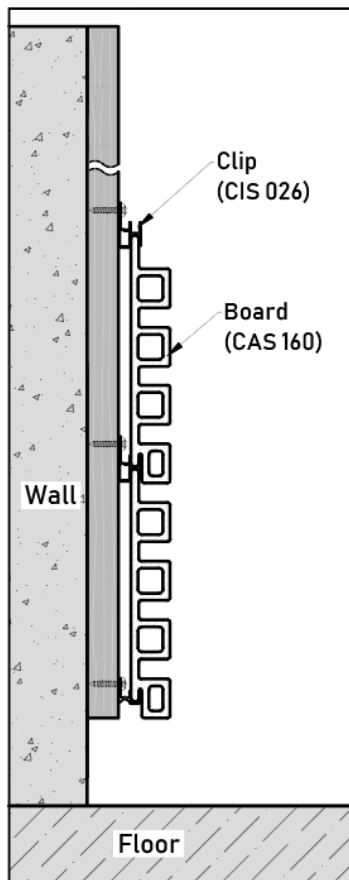
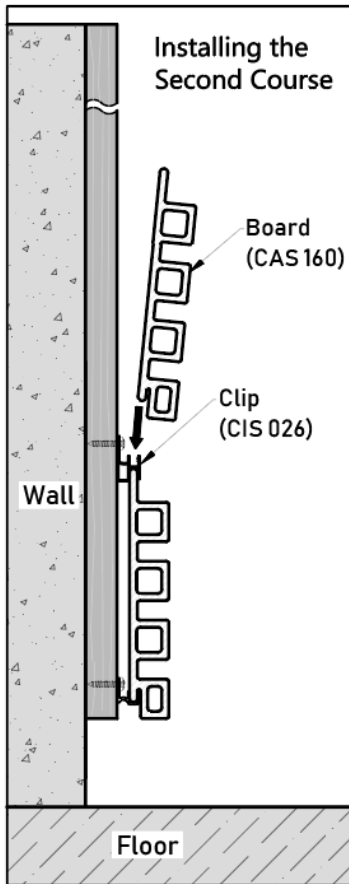


Diagram 26



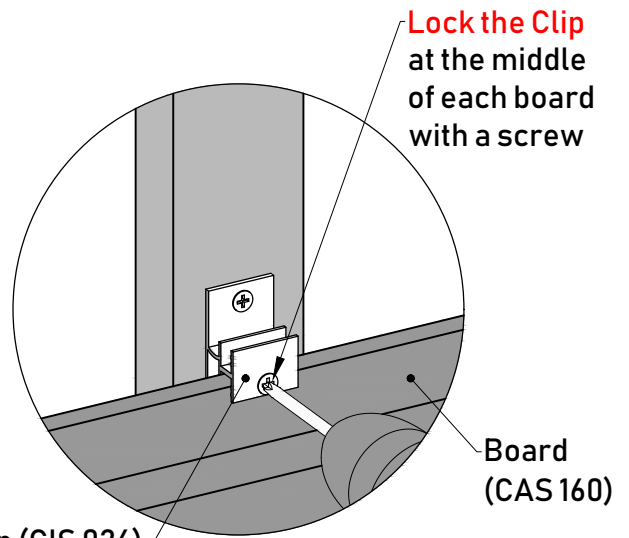
Detail 26-1

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 (CIS 026) at the middle of each board, as shown in **Detail 26-2**.

DO NOT LOCK any other Clip (CIS 026) for the same board.

Please review **page 13, "Locking the Wall Cladding Board"** of this installation guide for further information.



Clip (CIS 026)
At the middle
of the board

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

Detail 26-2

27 **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 (CIS 026), as shown in **Diagram 27** and **Detail 27-1**.

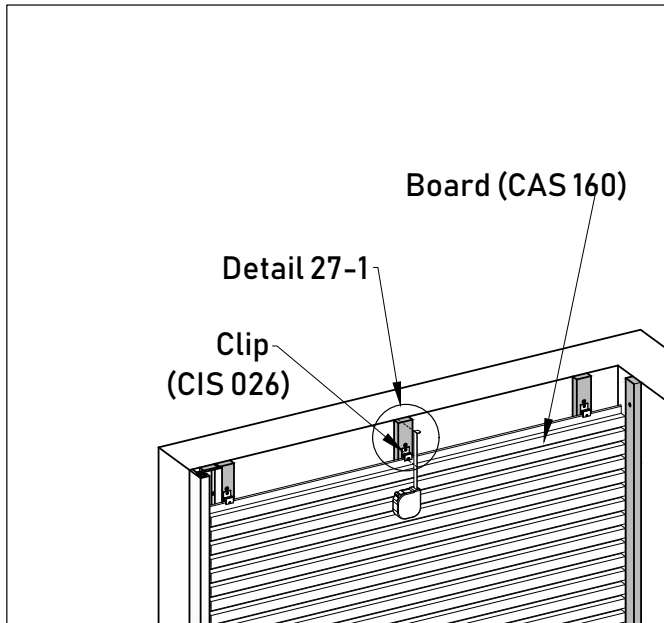
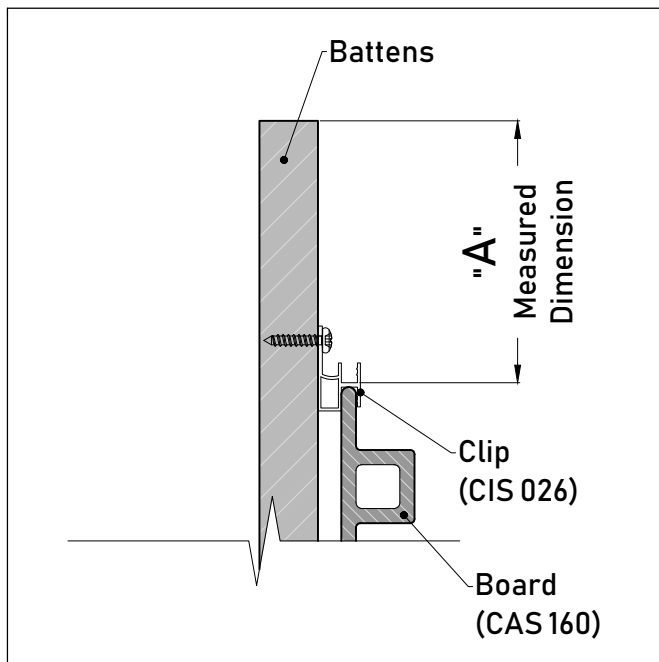


Diagram 27



Detail 27-1

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

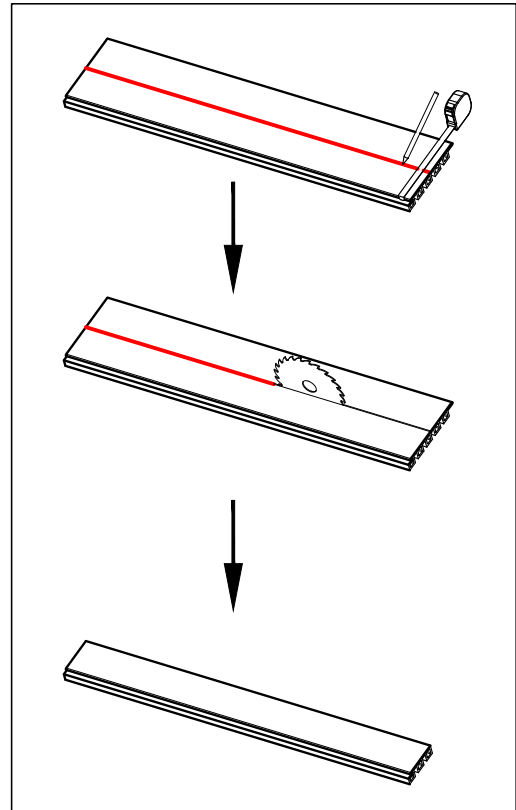
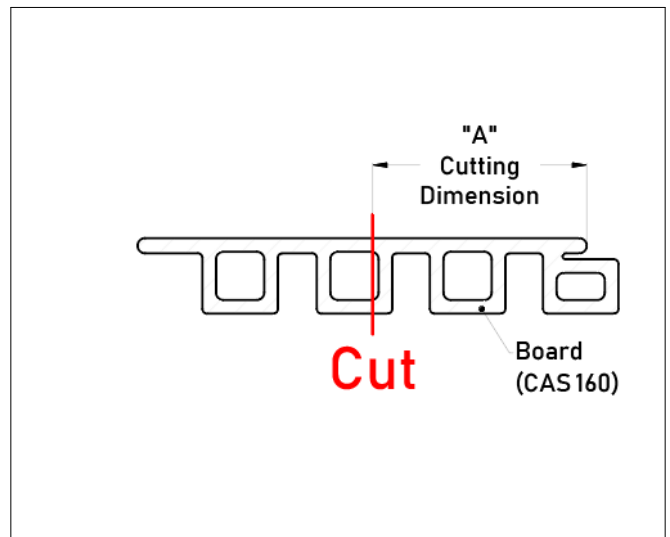


Diagram 28



Detail 28-1

29

Install the (CIS 026) onto each batten with screws, as shown in **Diagram 29** and **Detail 29-1**.

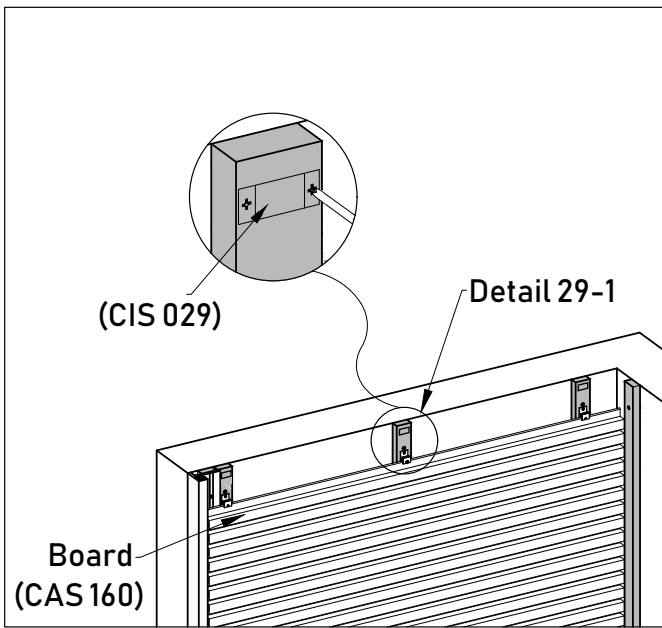


Diagram 29

30

Put the ripped cladding board over the Clip (CIS 029) in place and then face fix it onto each batten along the length of the boards against (CIS 029), as shown in **Diagram 30** and **Detail 30-1**.

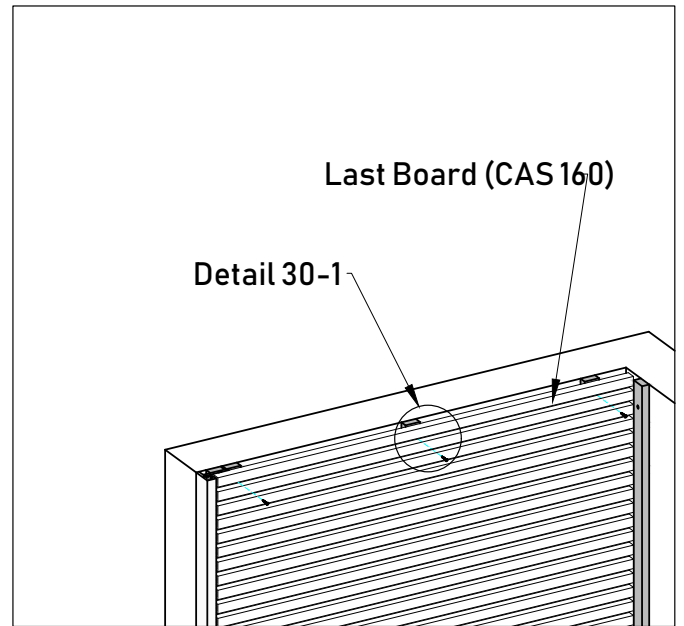
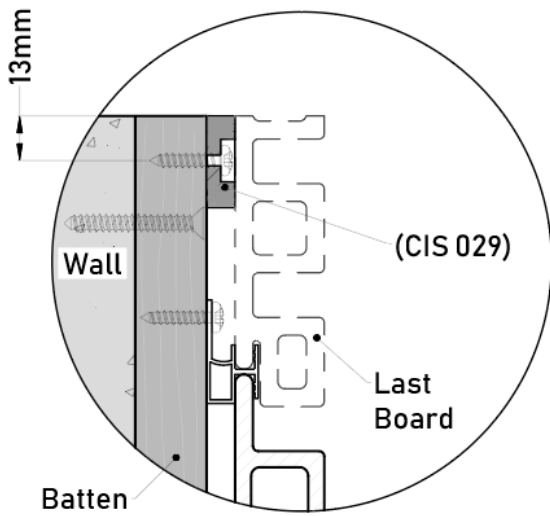
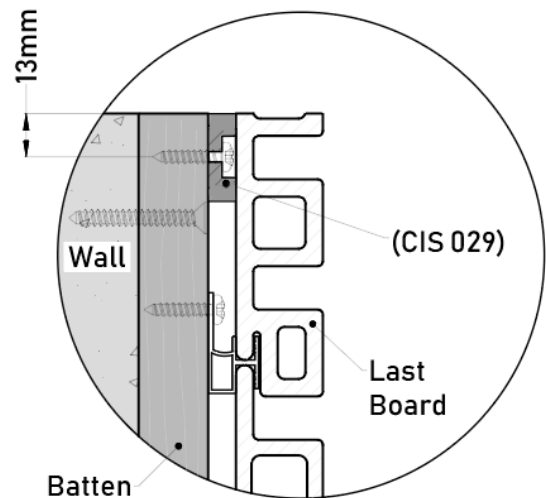


Diagram 30



Detail 29-1



Detail 30-1

PLEASE NOTE:

Pre-drill the ripped cladding board before installation to allow for expansion and contraction. Please review the section, "**Pre-drill**", on **page 4** of this installation guide for details.

Diagram 31 presents the final appearance after completing the installation

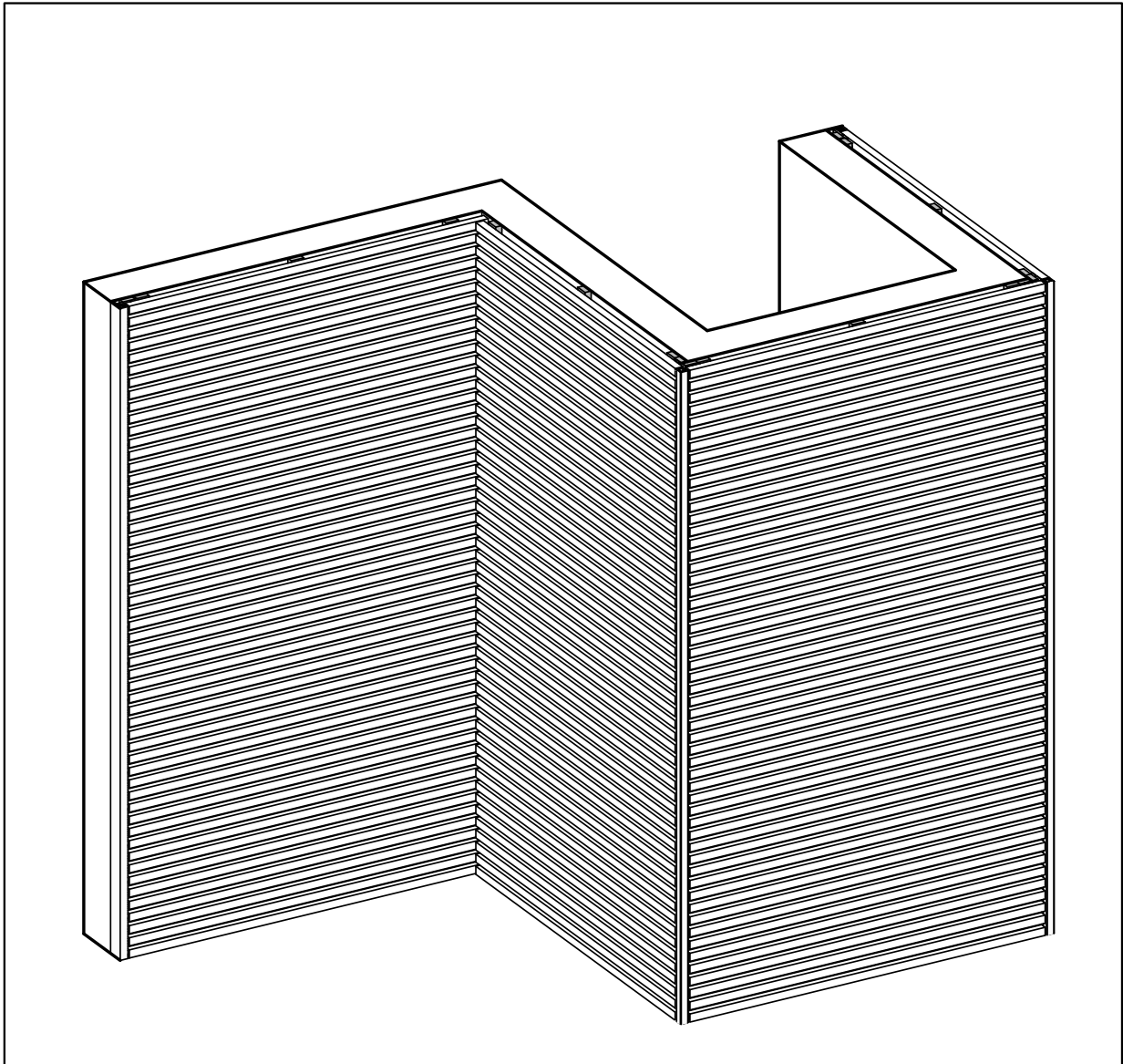


Diagram 31

32 FRAMING

Fix the battens onto the ceiling where you intend to install the board. It is recommended to apply the batten span of not more than 300mm, as shown in **Diagram 32**.

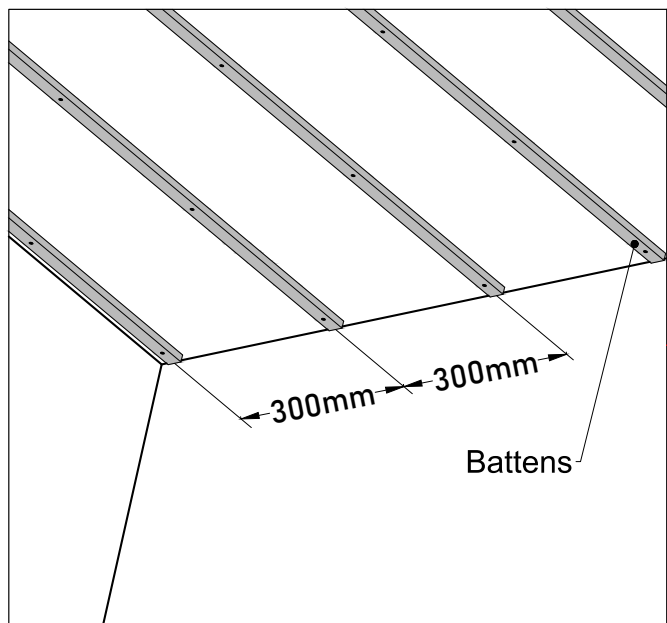


Diagram 32

33 Fasten the Starting Trim (CIS 023) onto the end of the battens with screws, as shown in **Diagram 33**.

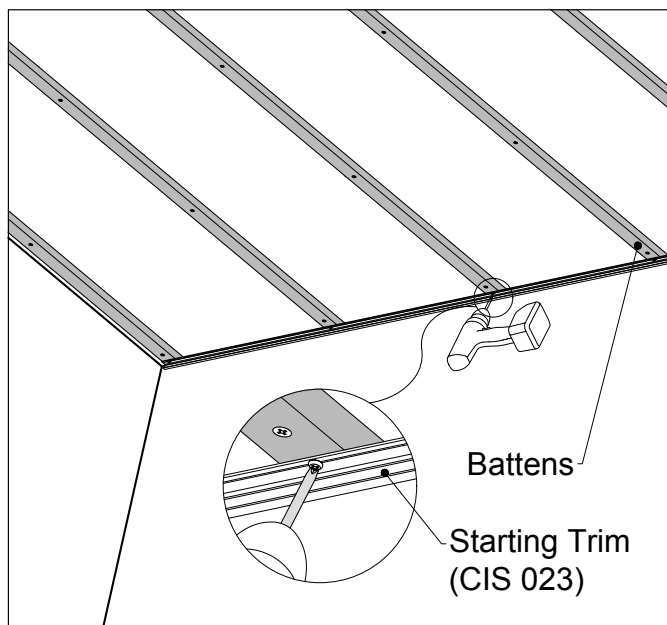


Diagram 33

34 CEILING BOARD INSTALLATION

Put the Cladding Board (CAS 160) over the Starting Trim (CIS 023) and fasten it to the battens with Clip (CIS 026), as shown in **Diagram 34** and **Diagram 35**.

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 (CIS 026) at the middle of each board**, as shown in Detail 35-1.

DO NOT LOCK any other Clip (CIS 026) for the same board.

Please review page 13, "Locking the Wall Cladding Board" of this installation guide for further information.

2. The gap between the Fascia Board and the adjacent walls is vital to avoid warping or buckling, as shown in Detail 35-2. Please select the appropriate gap value according to the Expansion and Contraction Values Table on page 4 of this installation guide.

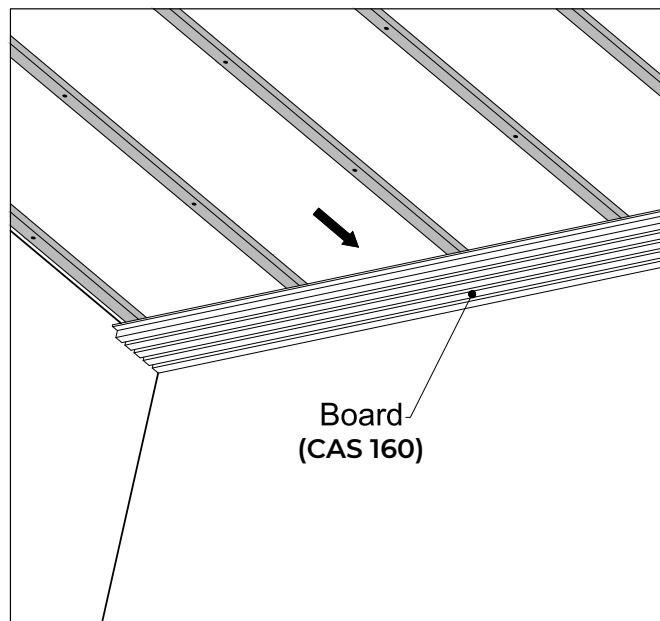


Diagram 34

35

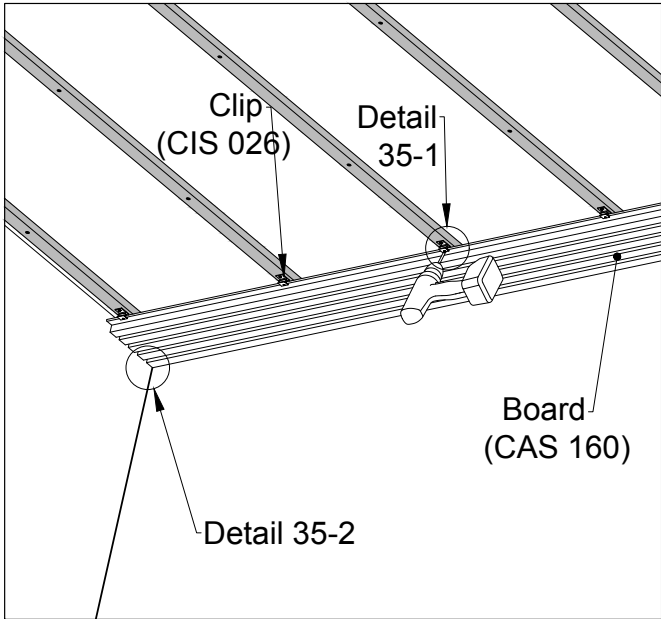
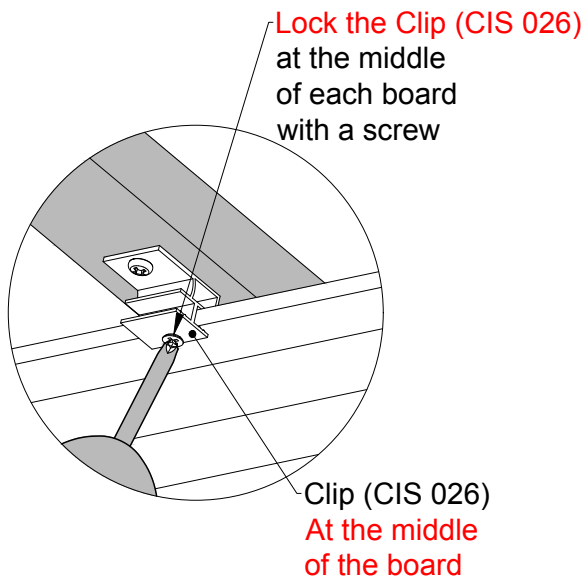
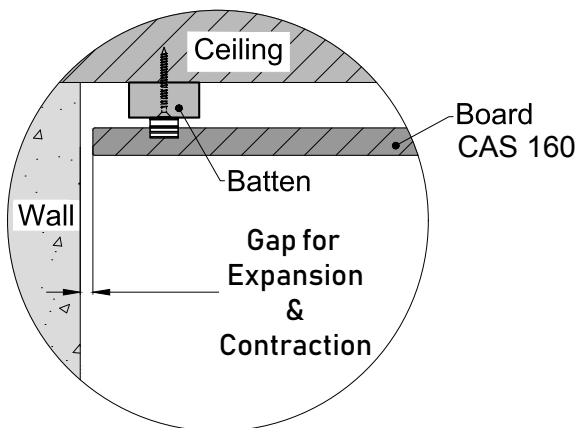


Diagram 35



Detail 35-1



Detail 35-2

36

Put the next Cladding Board (CAS 160) in place and slide it inside the Clip (CIS 026) as shown in **Diagram 36**. Then fasten it to the battens with Clip (CIS 026), repeat the same procedure as installation **Step 34**.

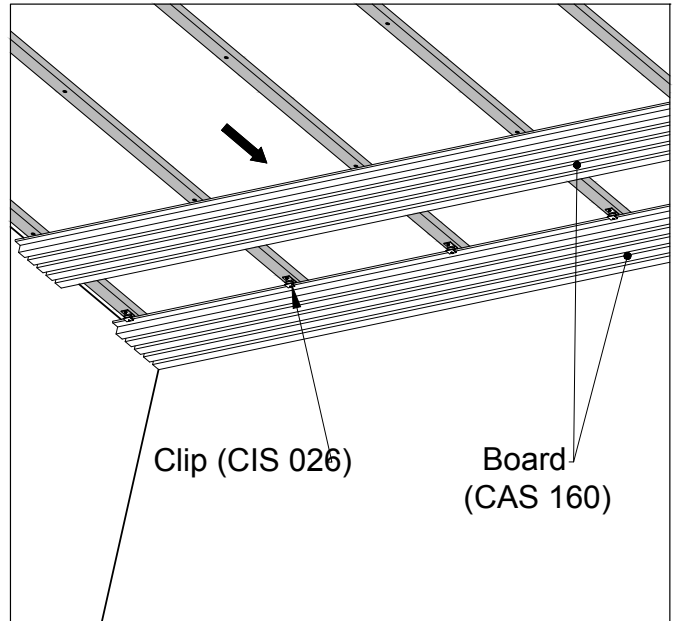


Diagram 36

37 When you are at the Cladding's last board, measure the distance between the end of the battens and the Clip (CIS 026), as shown in Diagram 37 and Detail 37-1.

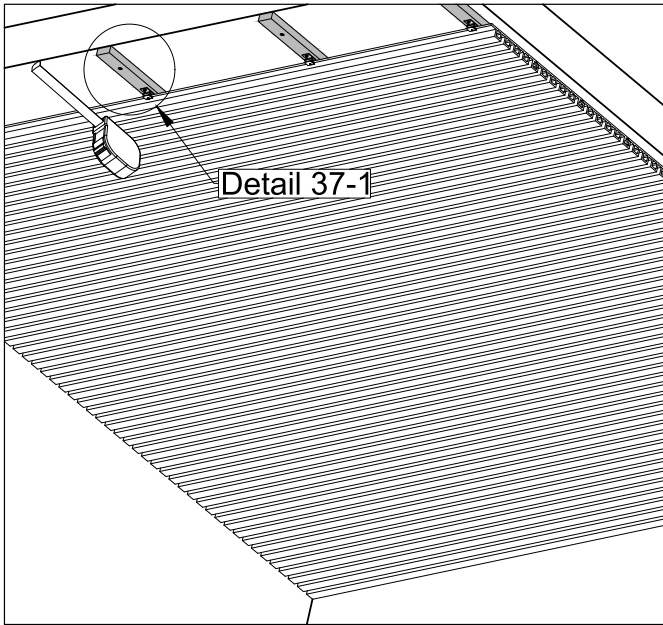
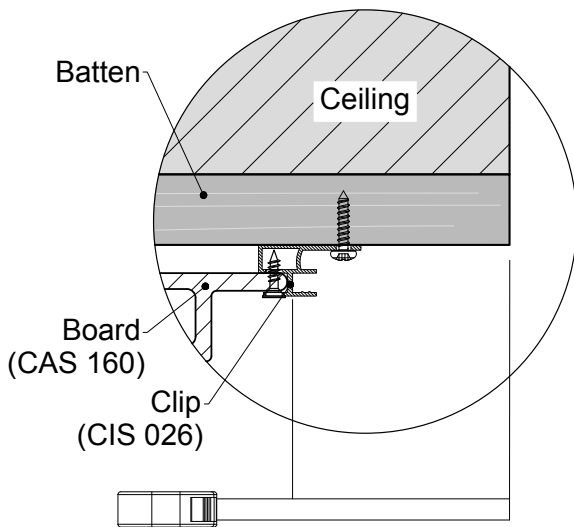


Diagram 37



Detail 37-1

38 Rip the Cladding Board (CAS 160) according to the measured length, as shown in Diagram 38 and Detail 38-1.

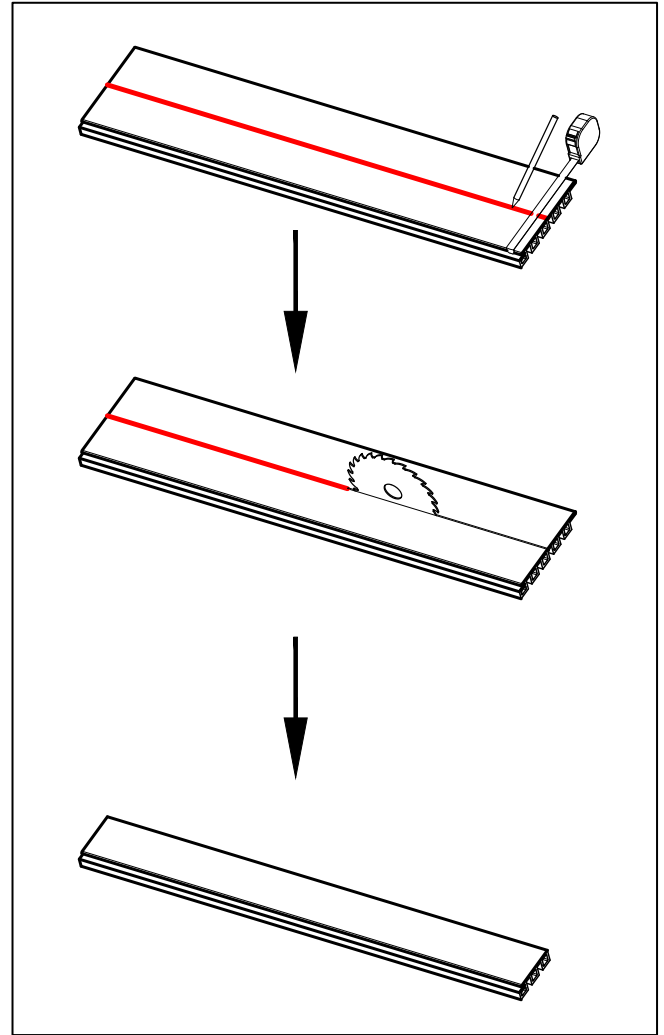
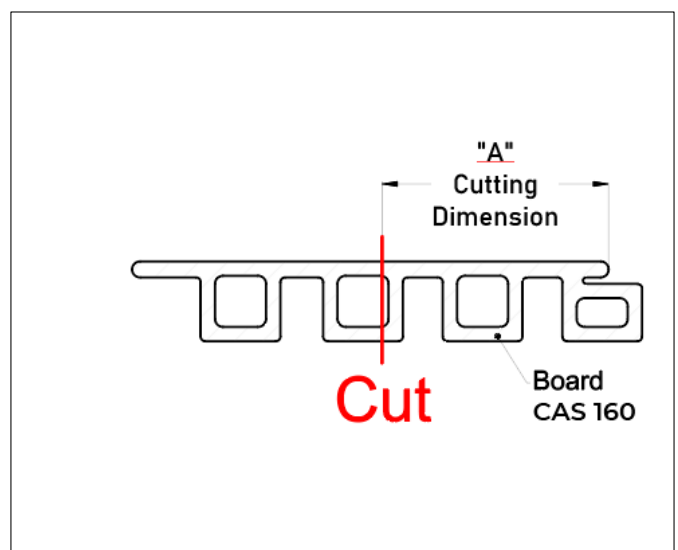


Diagram 38



Detail 38-1

39

Then install the CIS 029 Stopper onto the battens with screws, as shown in **Diagram 39** and **Detail 39-1**.

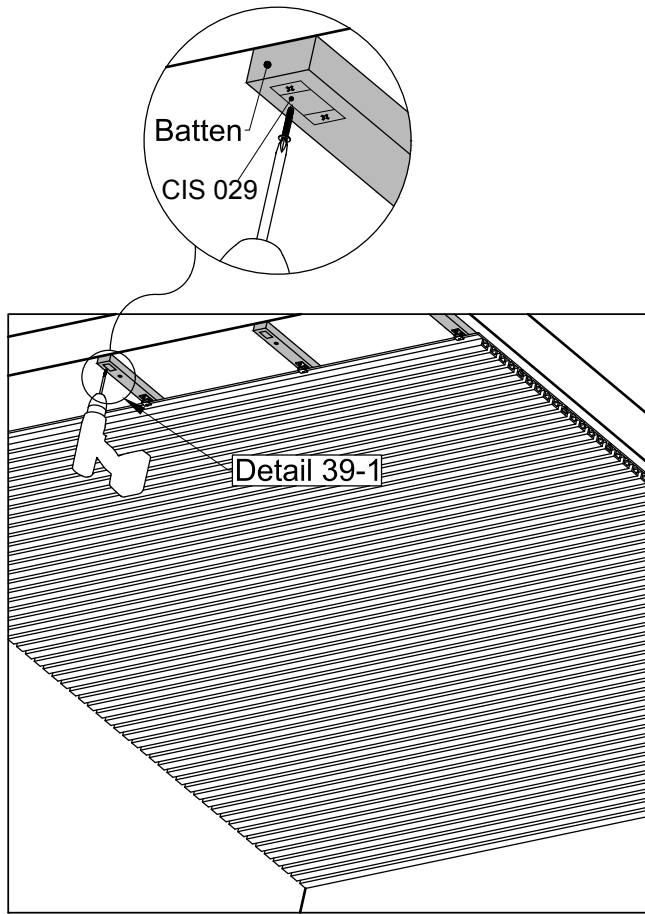
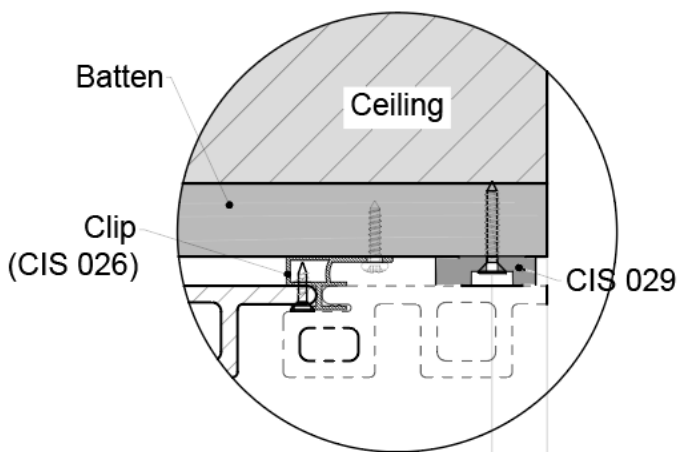


Diagram 39



Detail 39-1

40

Put the ripped Cladding Board (CAS 160) over the Clip (CIS 026) in position and pre-drill the screw holes before installation, as shown in **Diagram 40** and **Detail 40-1**.

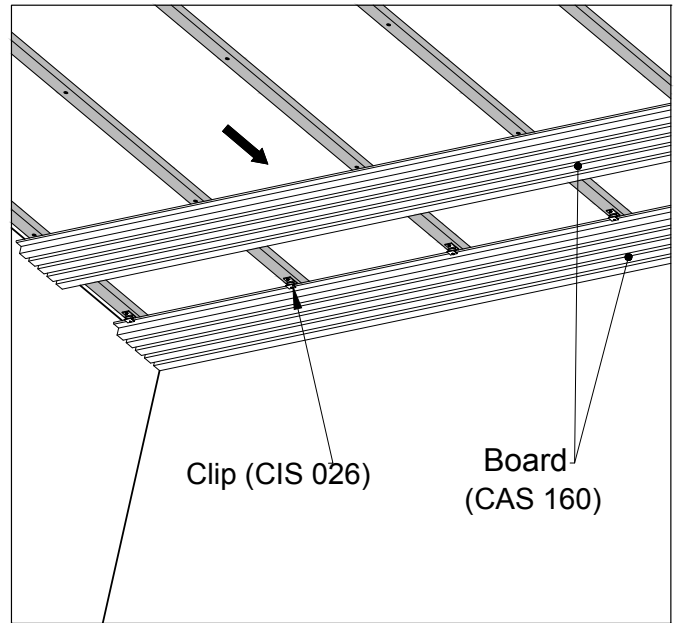
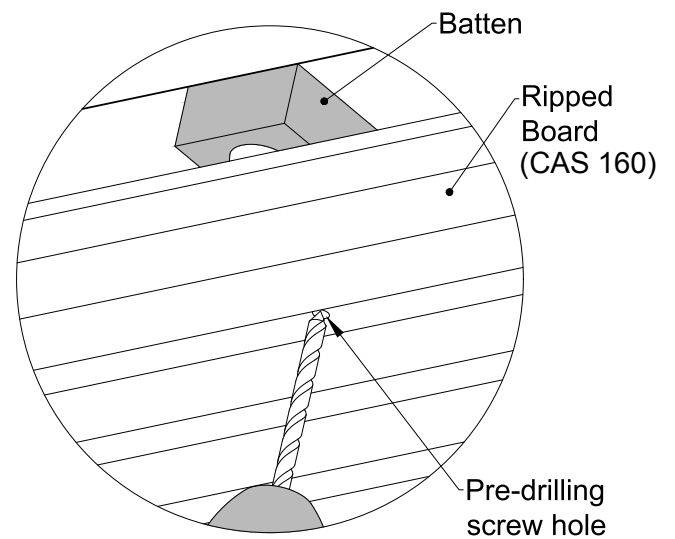


Diagram 40



Detail 40-1

41

Face fix the ripped Cladding Board (CAS 160) onto each batten along the length of the board over (CIS 029), as shown in **Diagram 41** and **Detail 41-1**.

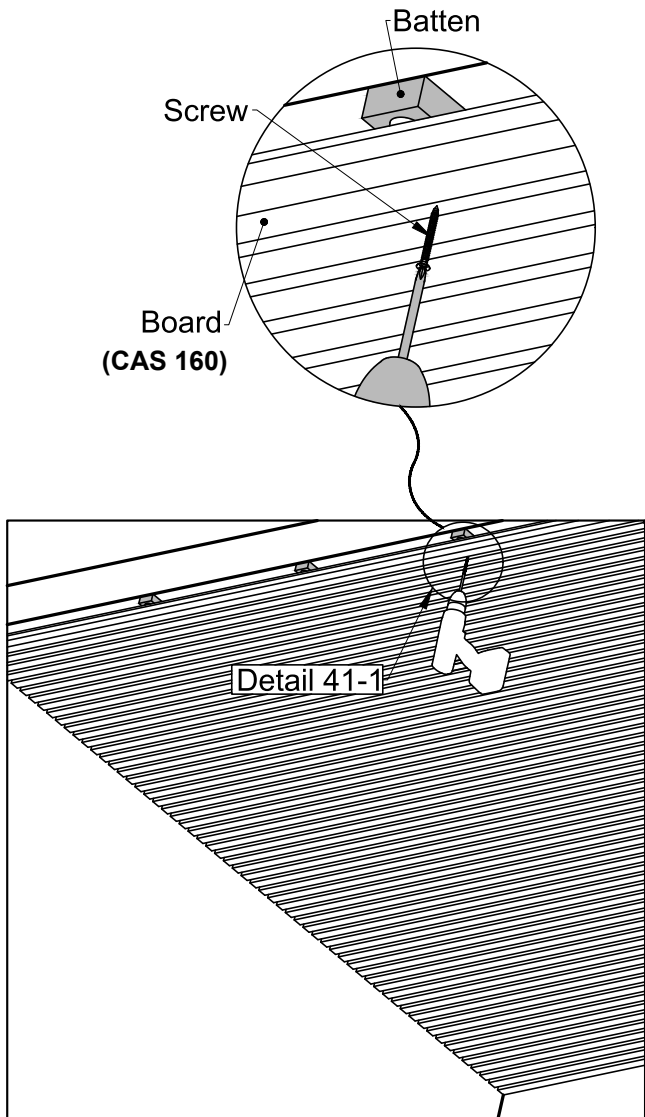
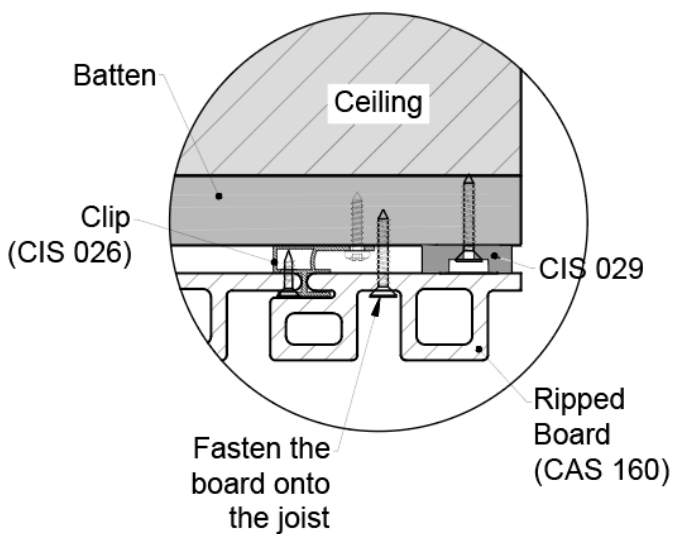


Diagram 41

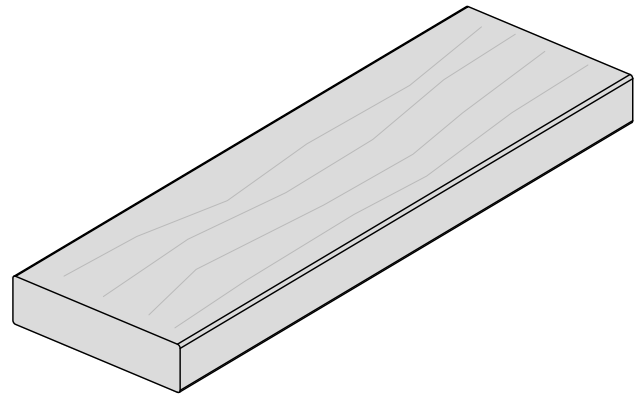


Detail 41-1

42

TRIMMING

Rip the Fascia Board into halves, as shown in **Diagram 42** and **Detail 42-1**.



Fascia Board

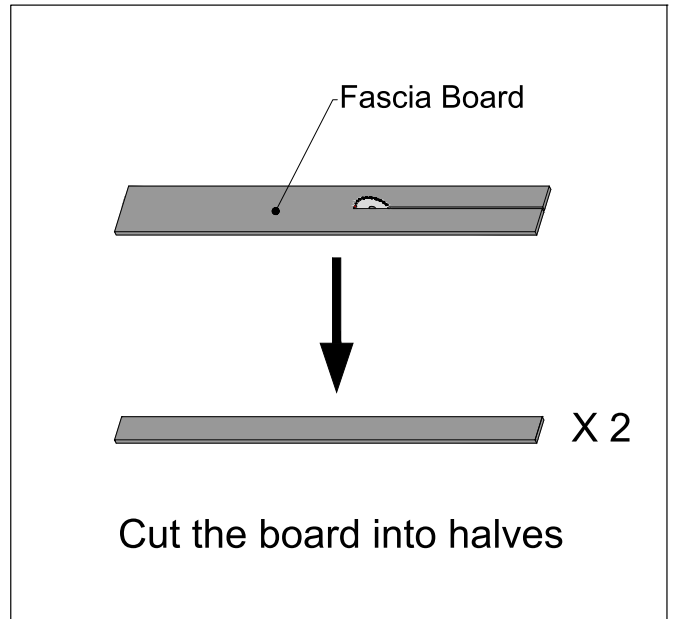
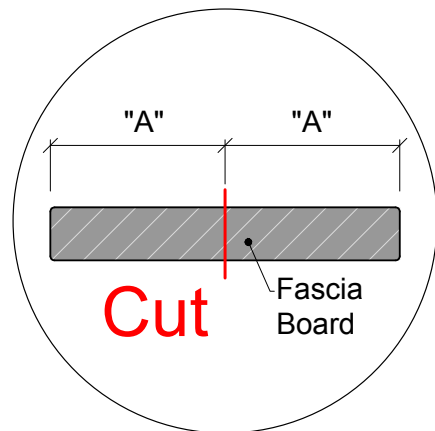


Diagram 42



Detail 42-1

43 Put the board's cut edge toward the ceiling board (CAS 160) underside, then face fix it onto the wall with screws in the distance at least 500mm on centre, as shown in **Diagram 43** and **Detail 43-1**.

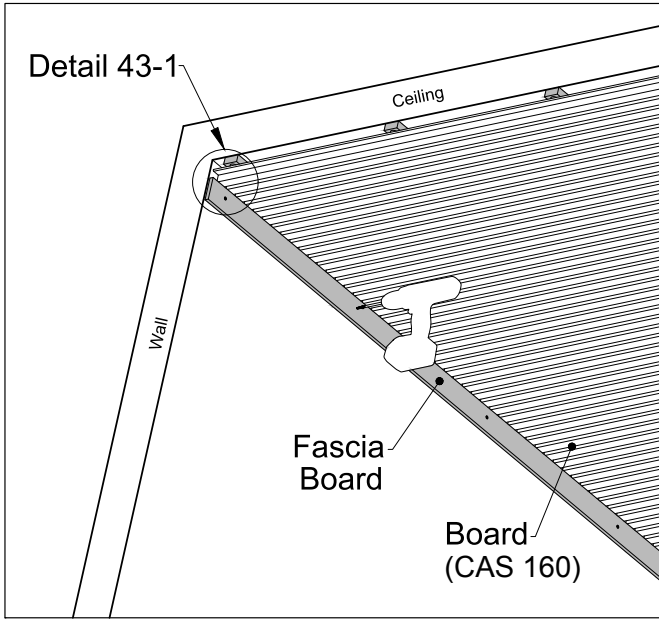
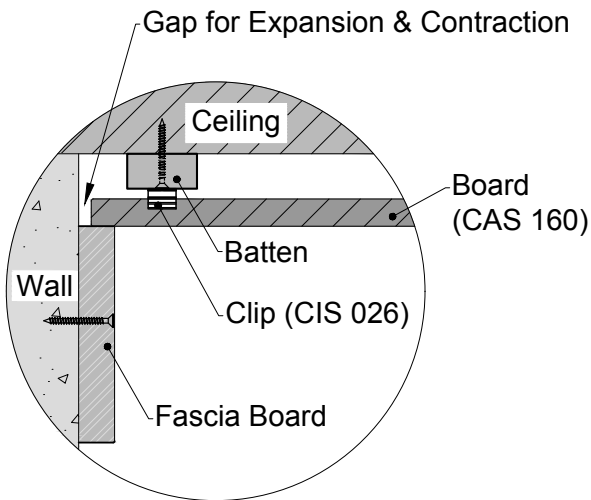


Diagram 43



Detail 43-1

44 Miter cut the trims according to the wall corner, as shown in **Diagram 44** and **Detail 44-1**.

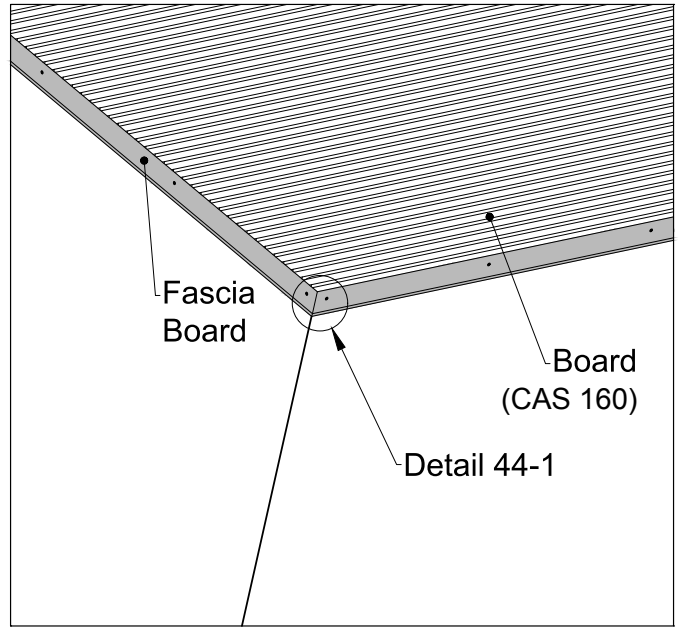
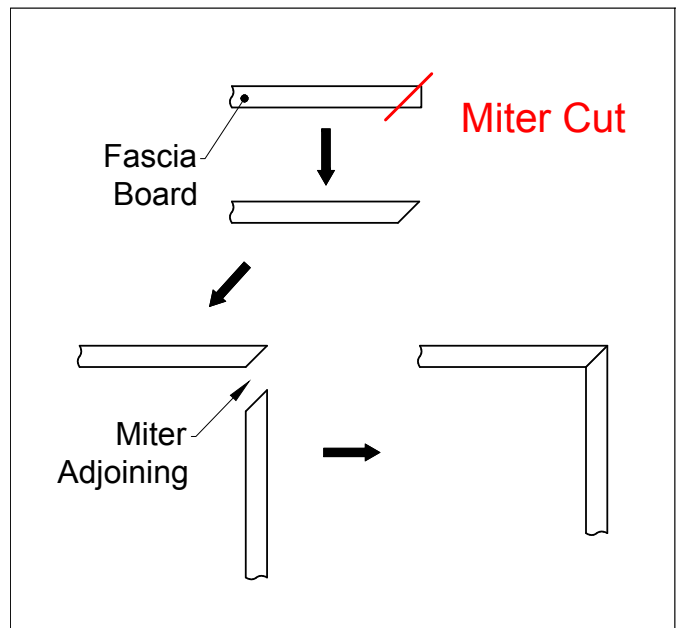


Diagram 40



Detail 40-1

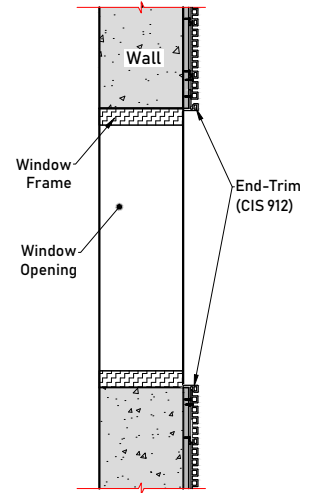
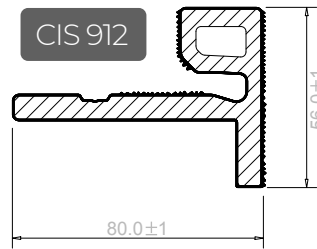
WINDOW REVEALS INSTALLATION

We recommend three window reveals installation options;

OPTION 1

More Suitable for Shallow Reveals

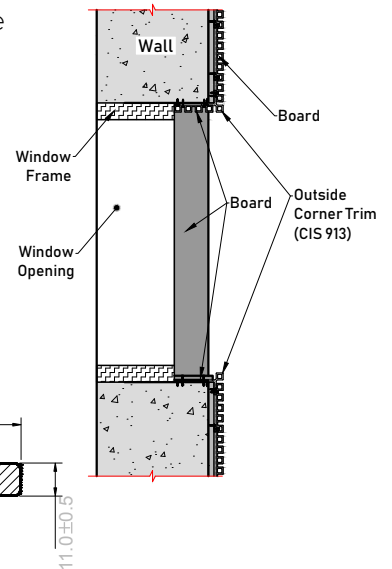
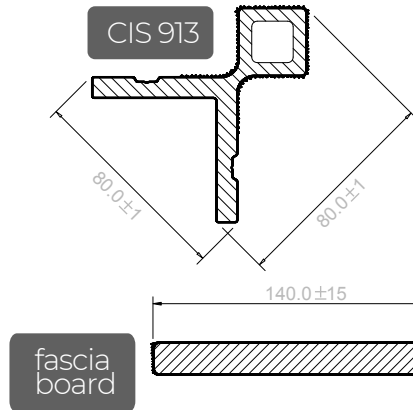
Use the End-Trim (CIS 912) to picture frame around the window.



OPTION 2

More Suitable for Deeper Reveals

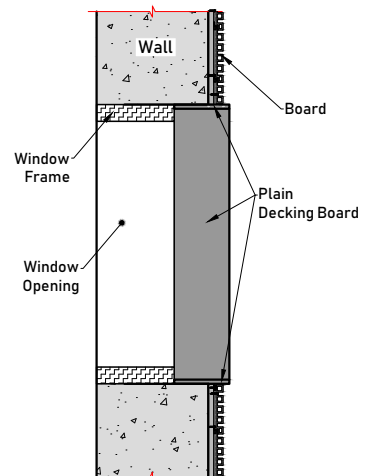
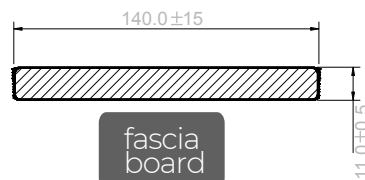
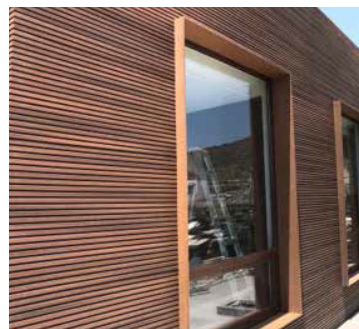
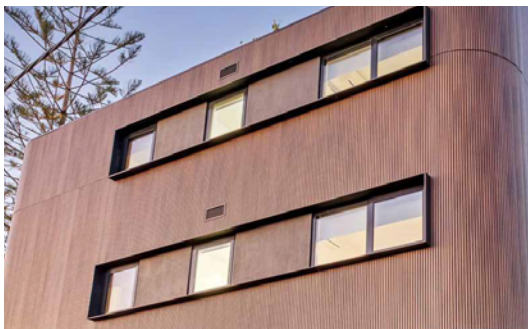
Use the Outside Corner Trim (CIS 913) to picture frame around the window and use either the CAS 160 castellation cladding board (CAS 160) or composite decking board (i.e. Fascia Board), or combination of these profiles on the window returns, to achieve a timber look inside the window.



OPTION 3

More Suitable for Deeper Reveals

Use a composite decking board (i.e. Fascia Board) to picture frame around the window, then but the castellation cladding boards against it.





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