DecoClad®

Installation Guide

Contents

Introduction

Performance

As part of Deco's commitment to compliant building products, the DecoClad® systems have been designed to meet Australia's stringent building standards. DecoClad® range has been tested to and passed the following standards.

Certifications

All testing has been done using the detail provided in this installation guide and in order to claim the performances set out here within, the detail in this guide must be followed.

Description/Standard

- Combustibility test for materials - AS1530.1/CSIRO
- Determination of ignitability, flame propagation, heat release and smoke release - AS/NZ1530.3/CSIRO
- Heat and smoke release rates for materials - AS3837/CSIRO
- Resistance to cyclonic wind pressures - AS4040.3/AZUMA DESIGN
- Weatherproofing performance of facade systems - AS4284-2008/AZUMA DESIGN

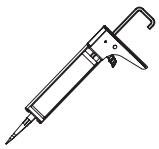
DecoClad® is also compliant with the NCC Non-Combustible building elements. (NCC 2022 VOL.1 - C2D10 (6)(e) Non-Combustible building elements).

Suggested Installation Tools

Screws/Rivets

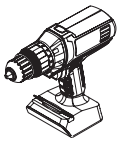
Metal – colour-matched pop rivets or self drilling TEK screws

Wood – self drilling timber screws



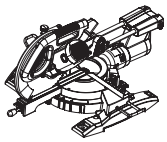
Sealant/Adhesive

Deco recommends the use of high quality sealant and adhesives.



Impact Driver

A high-quality Impact Driver with an appropriate driver bit is recommended for fixing all extrusions to the building structure.



Mitre Saw

A high-quality Mitre Saw equipped with an aluminium cutting blade is recommended for cutting the boards to length and trimming the board ends.

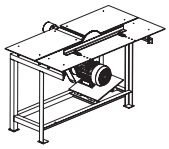


Table Saw

A high-quality Table Saw is recommended for ripping the final (top) board to the correct dimension for finishing of the installation.

Preparation

Useable Extrusion Length

All DecoClad® boards and accessories are supplied in 6.5m lengths. As part of the manufacturing process, the first 10mm of both ends of the extrusion are taped and not imaged, therefore each board will need to be trimmed by 25mm on each end to remove the tape and provide a clean finish. After the removal of each end, the useable length of each board is 6.45m.

Framing

All framing should be constructed from steel or timber according to the requirements of the NCC and relevant standards to ensure resistance to wind loads, with studs positioned at maximum 600mm centres. For non-cyclonic vertical applications ensure that the wall is battened out or has studs at 600 centres; in cyclonic applications studs should be installed at 450 centres. When using a Joining Connector for "Classic Installations", or a Flushline Tee section for "Flushline Installations", ensure that a stud, batten or noggin is installed behind the connector.

Fixing Application Requirements

When fixing DecoClad® to the wall, fixings should be used every 450mm for cyclonic applications or every 600mm for non-cyclonic applications. 30mm x 10G self tapping panhead or button head screws (galvanised or stainless steel) shall be used in all circumstances.

Sarking/Building Wrap

To ensure a waterproof application, a sarking or building wrap layer should be installed first to prevent any water penetrating the building. Care should be taken to ensure that all penetrations are carefully sealed to ensure water does not penetrate the building wrap or sarking.

Handle With Caution

WARNING - When handling DecoClad® care should be taken and appropriate Personal Protective Equipment should be worn at all times. Failure to do so risks potential serious injury, disablement or death. When processing Cladding Boards or accessories, care should be taken to ensure that the work space is clean and free from dust, sawdust, metal fines and/or shavings. Processing of the Cladding Board in areas with excessive dust, sawdust, metal fines and/or shavings risks potential damage to the finished surface.

DecoClad® Profiles

Pre-Punched Extrusions

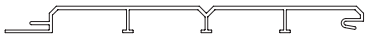
In order for DecoClad® to achieve the highest levels of performance and to enable a quick and easy install, many of the extrusions come with pre-punched fixing slots. The fixing slots are included in the following profiles:

135mm Narrowline

0.870m² Coverage / 6.45m Board, 1.029kg/m

200mm Shadowline

1.290m² Coverage / 6.45m Board, 1.615kg/m



180mm V-Groove

1.161m² Coverage / 6.45m Board, 1.451kg/m

160mm Weatherboard

1.032m² Coverage / 6.45m Board, 1.095kg/m

205mm Seamline

1.322m² Coverage / 6.45m Board, 1.587kg/m

75mm Castelline

0.483m² Coverage / 6.45m Board, 0.688kg/m

DecoClad® Accessories

Note: All accessories have been designed with detail in mind and provide a consistent 20mm depth profile (how far the accessories protrudes from the frame) and a 25mm external face.

Starter Strip (DC-CL07)

The Starter Strip is the base profile which starts the connection to the wall. The Starter Strip is required to be attached to the wall at the bottom of horizontal applications, or to one side of vertical applications.

Cover Strip Base (DC-CL28)

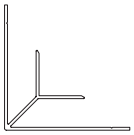
The Cover Strip Base is connected to the wall to allow the Cover Strip Clip (DC-CL29) to be inserted and securely attached to the building.

Cover Strip Clip (DC-CL29)

The Cover Strip Clip is a snap fit extrusion allowing a clean finish with no exposed fasteners.

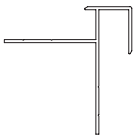
Internal Corner (DC-CL23)

The Internal Corner is designed to allow the easy application of cladding to corners pointing into the building used in "Classic Installation".



External Corner (DC-CL32)

The External Corner is designed to allow the easy application of cladding to corners pointing out from the building used in "Classic Installation".

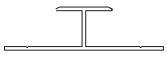


End Cover Channel (DC-CL25)

The End Cover Channel can be installed to the sides to cover the cut ends of the extrusion in the "Classic Installation".

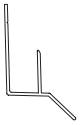
Joining Connector (DC-CL24)

The Joining Connector allows an easy connection of two full length cladding boards in wider applications or where a perpendicular feature is required in "Classic Installation".



Drainage Cover (DC-CL06)

The Drainage Cover can be installed above windows to ensure that any surface water is directed away from the top of the window system ensuring unwanted water does not access the top of the window system.



Flushline 20X20 Angle (DC-ANG2020)

For use in "Flushline Installation", the 20mm x 20mm Angle is supplied in powder coated black or any powder coated finish you require. This extrusion is used to cover the ends of the Cladding Boards to create a clean finish.

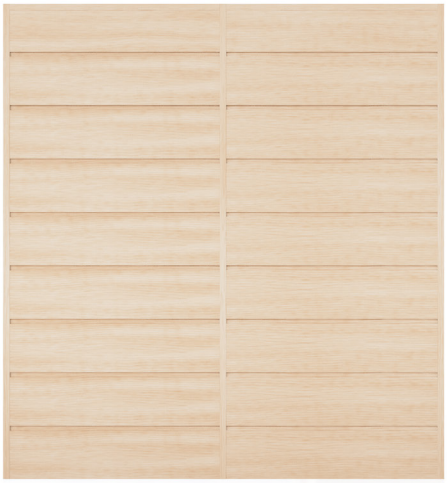
Flushline Tee 20x20x1.6 (DC-T2020)

The Flushline Tee section is used in "Flushline Installations" to replace the Joining Connector (DC-CL24) for a minimal look. Supplied in powder coated black or other finishes on request.

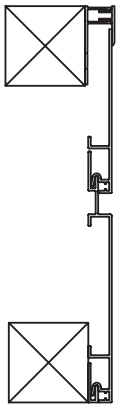
DecoClad® Installation Detail

DecoClad® Installation Detail - Classic Installation

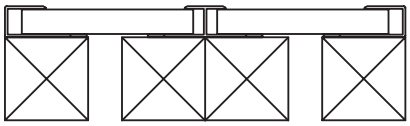
The “Classic Installation” utilises DecoClad® accessories in a colour-matched finish. All accessories have been designed with detail in mind and provide a consistent 25mm external face.



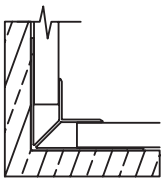
Front View



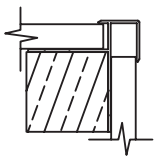
Side View



Top View



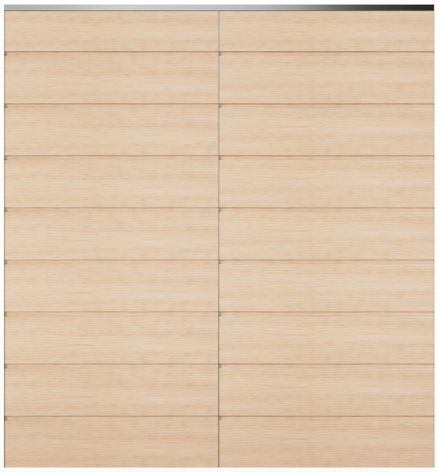
Internal
Corner Detail
Top View



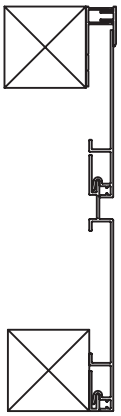
External
Corner Detail
Top View

DecoClad® Installation Detail - Flushline Installation

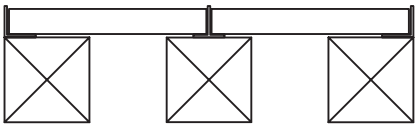
The “Flushline Installation” utilises the 20x20mm Angle and associated profiles. The “Flushline Installation” allows a seamless connection between boards with minimal visibility by utilising the black powder coated Flushline Tee.



Front View



Side View



Top View

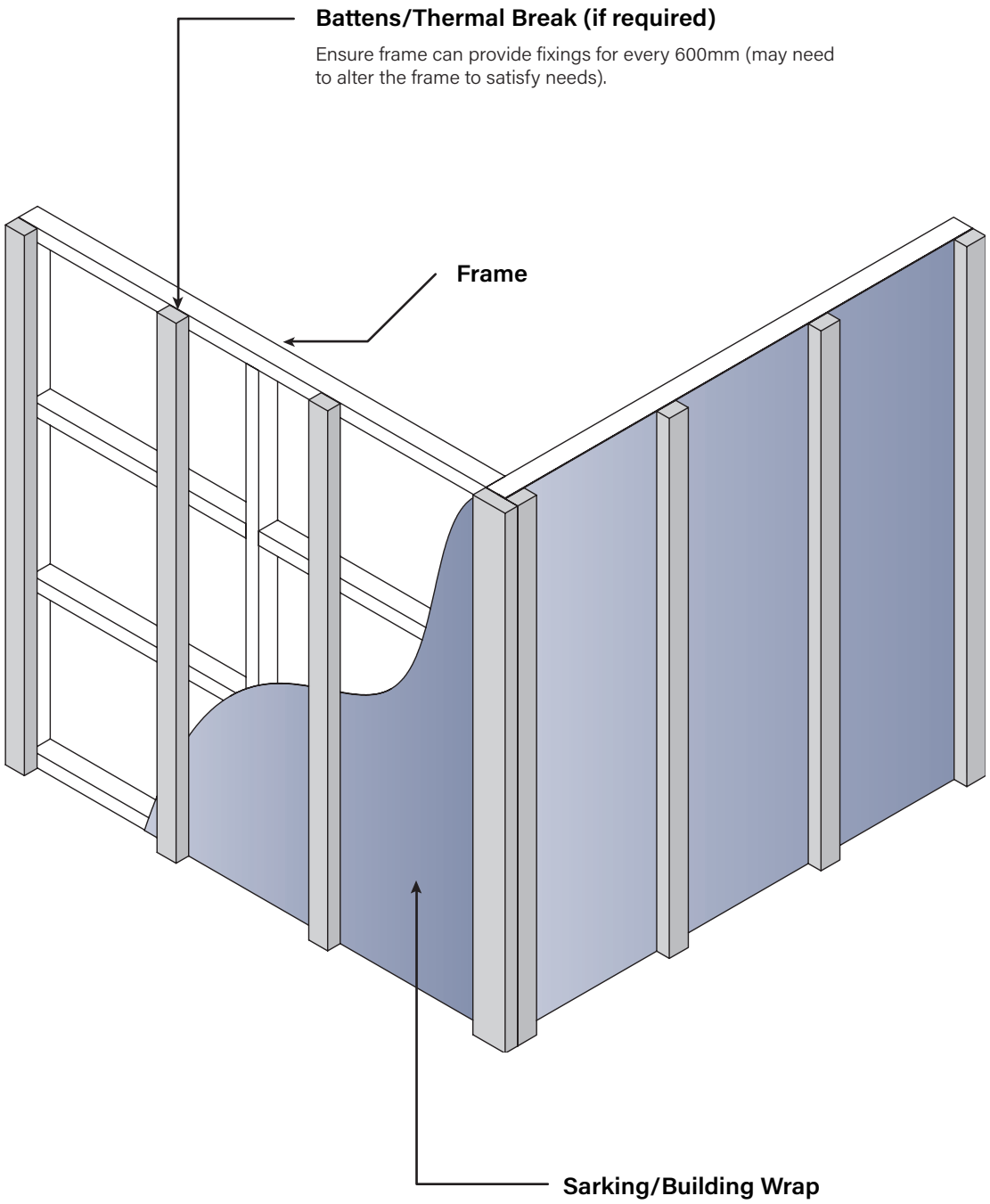
PLEASE NOTE: Stud details are for information only. Framing should be constructed according to the requirements set by the NCC (National Construction Code) and relevant standards.

Horizontal Applications

Horizontal Applications

1 Apply Sarking or Building Wrap and Any Additional Battens or Noggins Required

When installing battens for a horizontal cladding facade, position the battens vertically with a spacing of 600mm between centres.

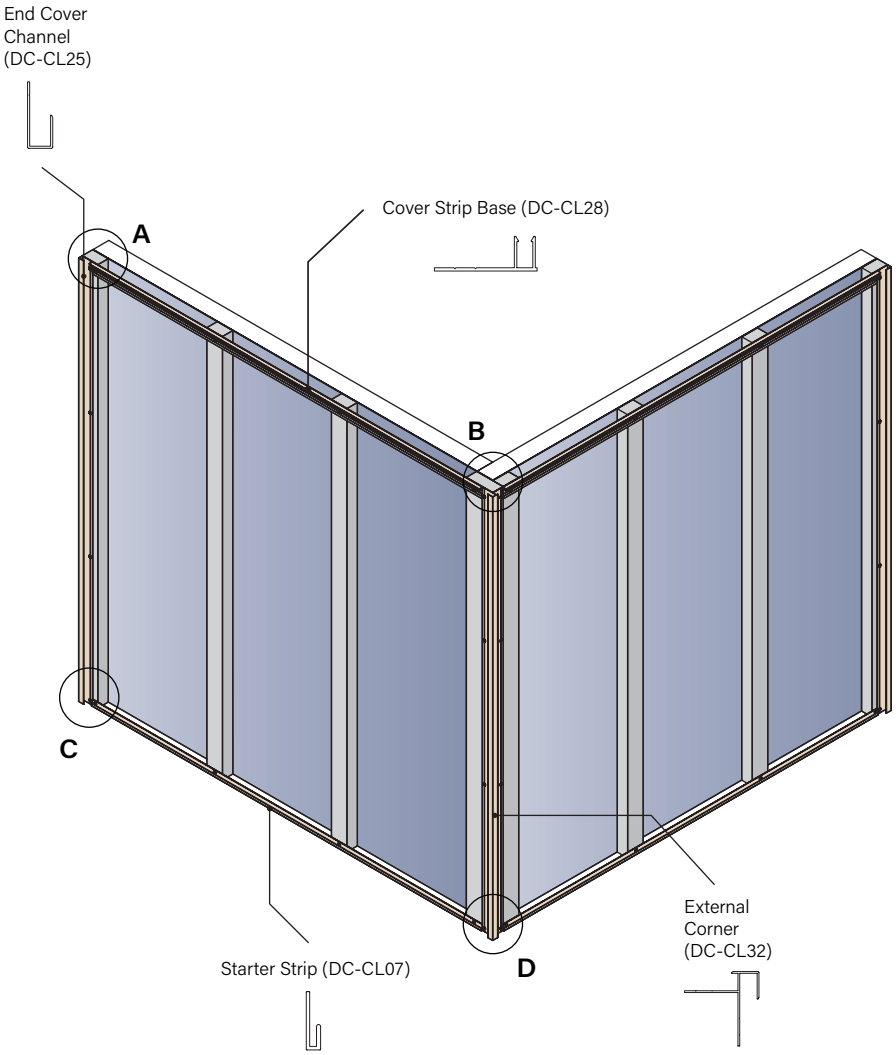


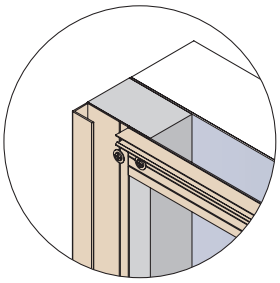
2 Cover Strip Setup

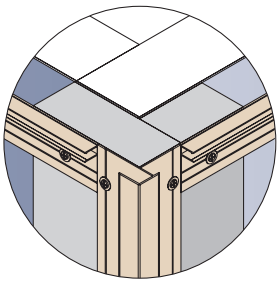
a) Install cladding accessories including End Cover Channels, 20x20 Angles, Joining Connectors, 20x20 Tee Sections and Internal or External Corners. When installing ensure all extrusions are fixed at maximum 600mm centres or as required for the applicable wind loads.

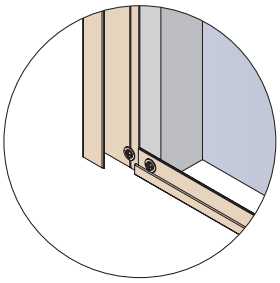
b) Measure and cut horizontal cladding accessories to length including Starter Strip (DC-CL07) and Cover Strip Base (DC-CL28).

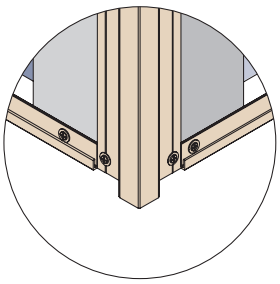
NOTE: Deco accessories are designed to be interchangeable, allowing you to customise them to fit your specific needs. The application demonstrated here represents a typical situation.




Detail A


Detail B


Detail C

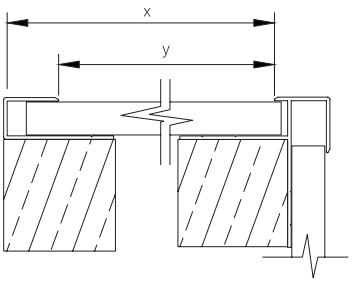

Detail D

3 Install First Board

Measure, cut and install first board by positioning lip over the Starter Strip (DC-CL07) and fix board using 30mm 10G screws as required for your application. To ensure that the board has the required allowable movement, the fixings are required to be installed through the pre-punched slots. Failure to do so may result in excessive stress and failure of the fixing.

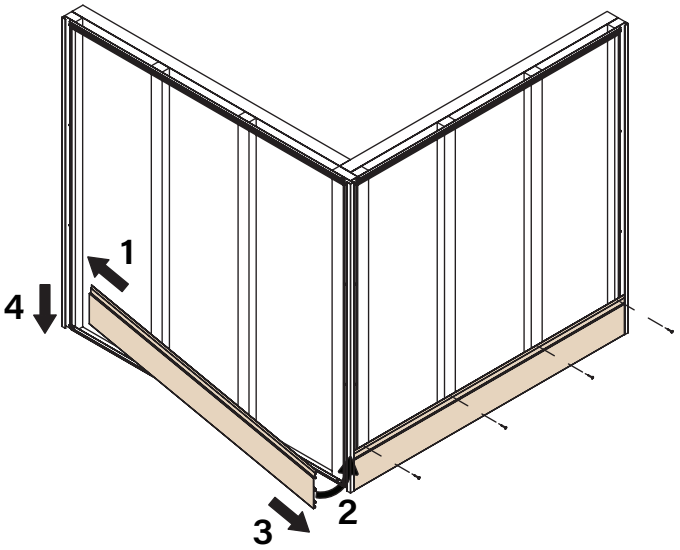
CUTTING TIP

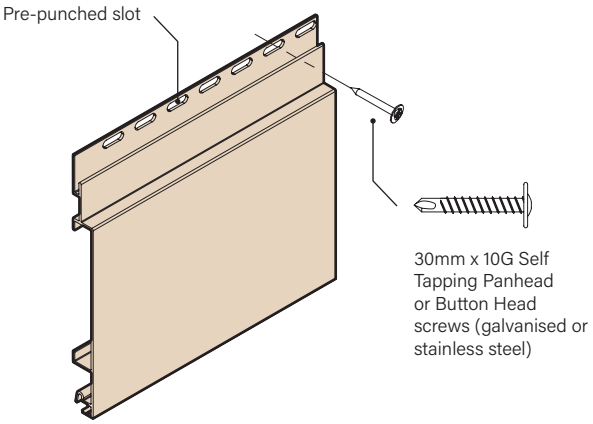
When cutting the boards to length, one method of ensuring that you have adequate coverage is to measure the distance available in the internal dimension of the End Cover Channel (DC-CL25) to the end of the cover at the other end and subtract 5mm. (See diagram)



Length of Board = x - 5mm

Length of Cover Strip (DC-CL29) = y - 2mm

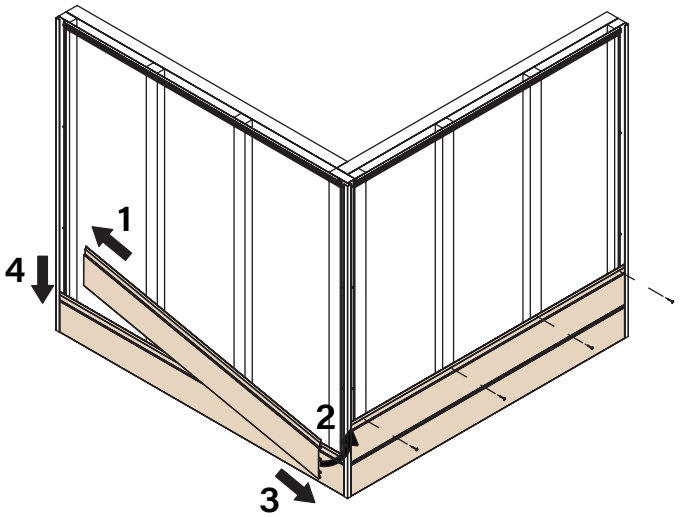


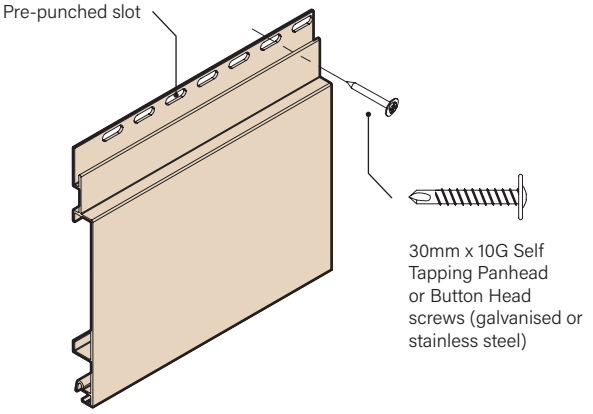


4 Install Next Board and Repeat Until Final Board

Install the next board by positioning lip over the positioning leg on the previous board and fix board using 30mm 10G screws as required for the applicable wind loads. Ensure that the fixings are installed through the pre-punched slots.

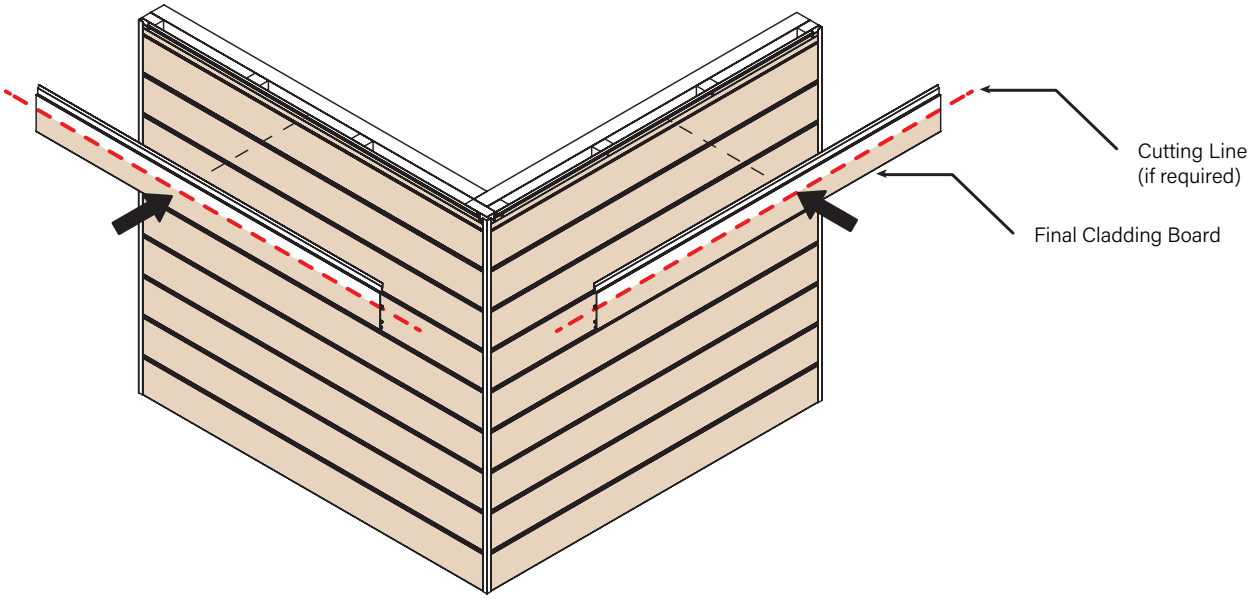
TIP: After every 5th board, measure vertically from both ends of the cladding to ensure consistent length. Adjust the angle of the sixth board if needed for levelness, then proceed with fixing each subsequent board to maintain a level surface.





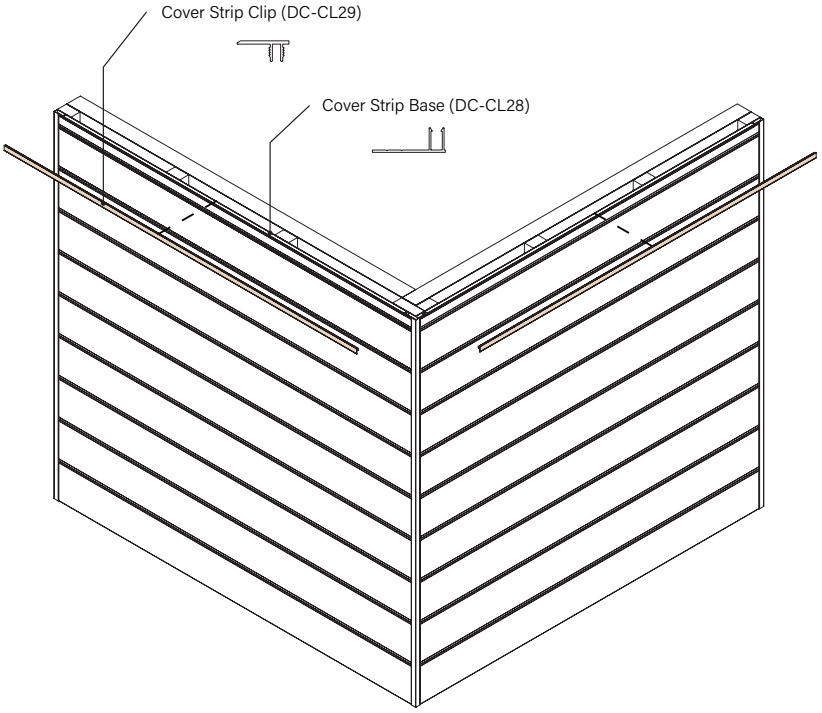
5 Rip and Install Final Board

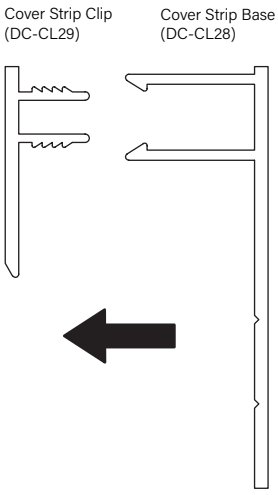
The final Cladding Board might not be the right fit, so it needs to be ripped with a table saw. Measure the remaining space and cut the board accordingly for a proper fit.



6 Cut and Install Cover Strips

Measure horizontal Cover Strip Clip (DC-CL29) between the external face of the vertical members (see cutting tip on previous page), cut to length and snap in to fit.





Side View

Snap Cover Strip Clip into Cover Strip base

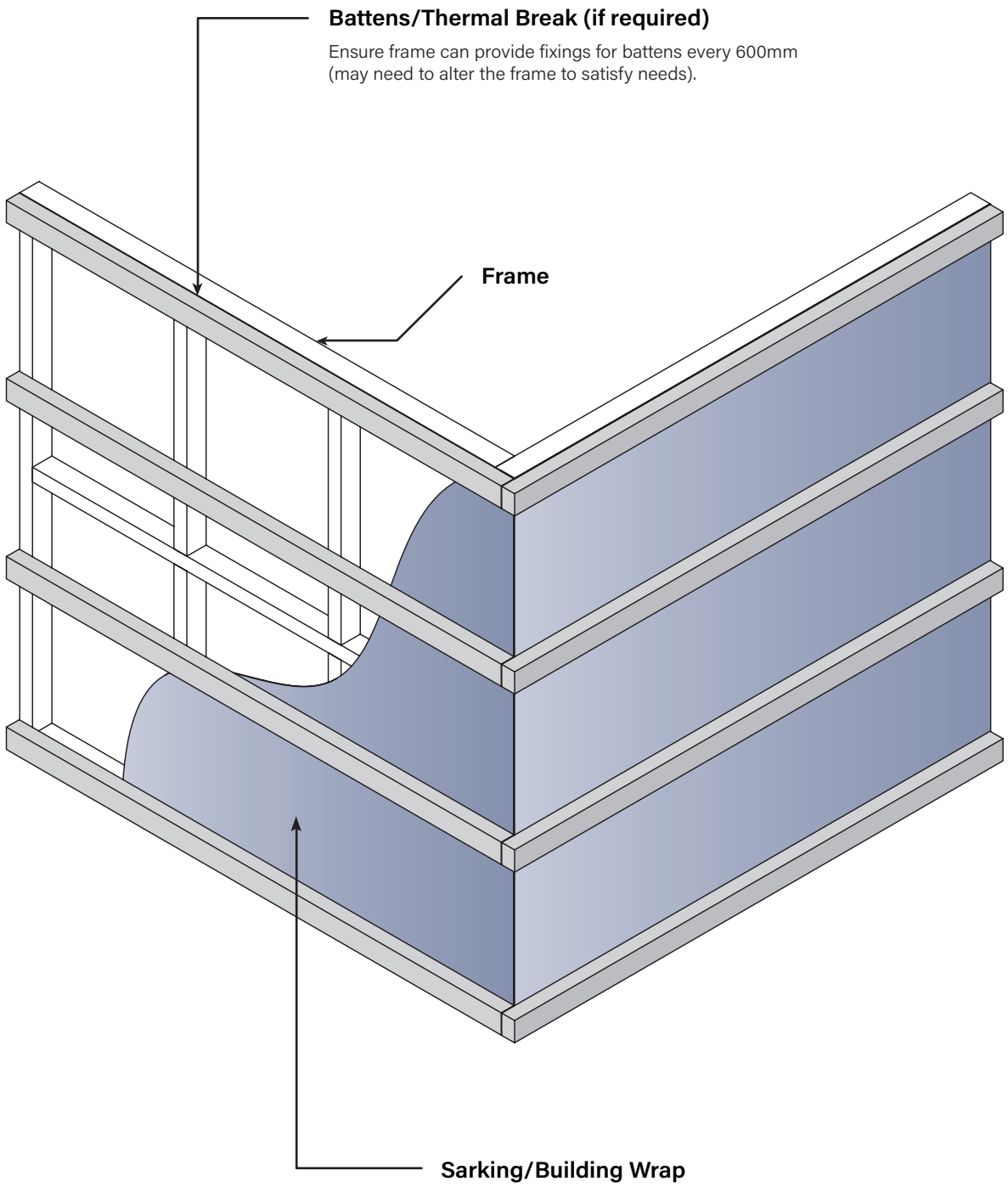
Vertical Applications

Vertical Applications

1

Apply Sarking or Building Wrap and Any Additional Battens or Noggins Required

When installing battens for a vertical cladding facade, position the battens horizontally with a spacing of 600mm between centres.



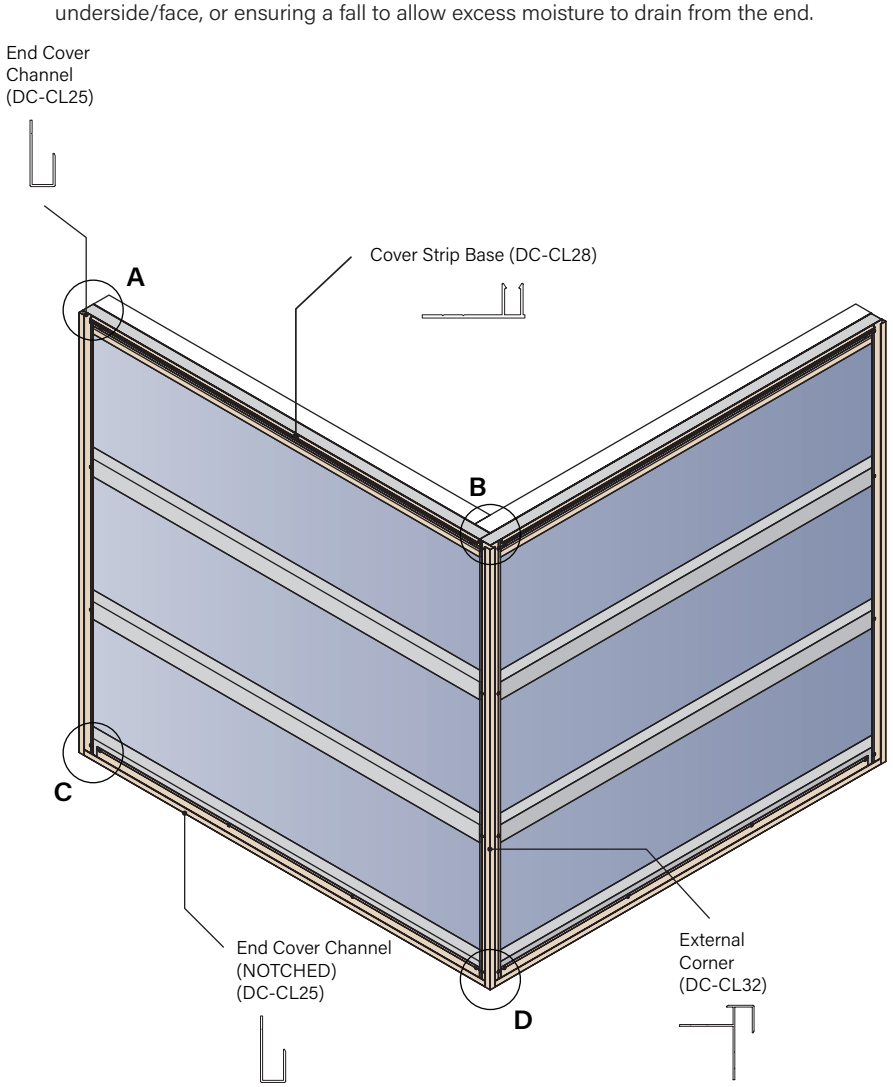
2 Cover Strip Setup

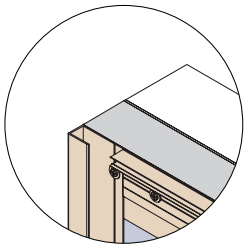
a) Install cladding accessories including End Cover Channels, 20x20 Angles, Joining Connectors, 20x20 Tee Sections and Internal or External Corners. When installing ensure all extrusions are fixed at maximum 600mm centres or as required for the applicable wind loads.

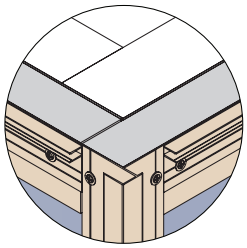
b) Measure and cut vertical cladding accessories to length including, Starter Strip (DC-CL29) and Cover Strip Base (DC-CL28).

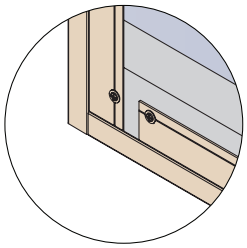
NOTE: Deco accessories are designed to be interchangeable, allowing you to customise them to fit your specific needs. The application demonstrated here represents a typical situation.

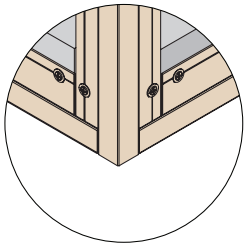
Horizontal Channel Drainage Requirements:
Where End Cover Channels/Drainage Channels are used in a horizontal orientation, cladding boards should not be installed sitting directly on the End Cover Channel, and drainage of the channel should be provided, either with drainage holes to the underside/face, or ensuring a fall to allow excess moisture to drain from the end.




Detail A

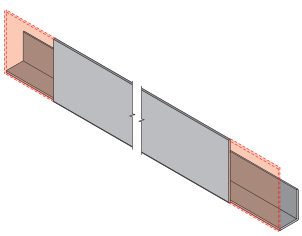

Detail B

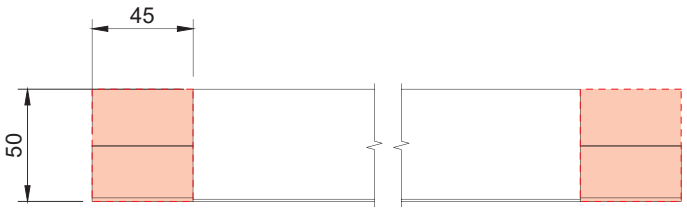

Detail C


Detail D

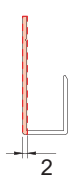
NOTCHING DETAIL FOR END COVER CHANNEL (DC-CL25)

When applying the End Cover Channel to the bottom edge of the cladding area, the rear wall will need to be notched (as seen in Detail C and D) in order to allow full coverage on the front face. Alternatively, the Cover Strip Base and Clip could be applied as depicted in Detail A and B to the bottom edge. **NOTE: Areas highlighted red are to be notched.**


Isometric Back View



Back View



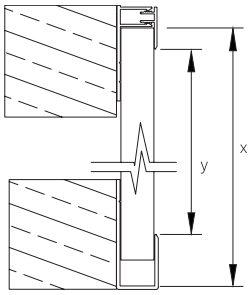
Side View

3 Install First Board

Measure, cut and install first board by positioning lip over the Starter Strip (DC-CL07) and fix board using 30mm 10G screws as required for your application. To ensure that the board has the required allowable movement, the fixings are required to be installed through the pre-punched slots. Failure to do so may result in excessive stress and failure of the fixing. **NOTE: DecoClad® can be installed from either direction however Deco recommends working from the corner out.**

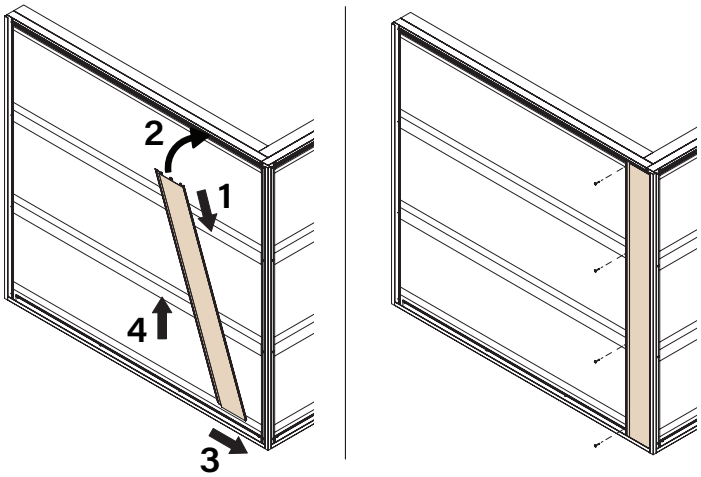
CUTTING TIP

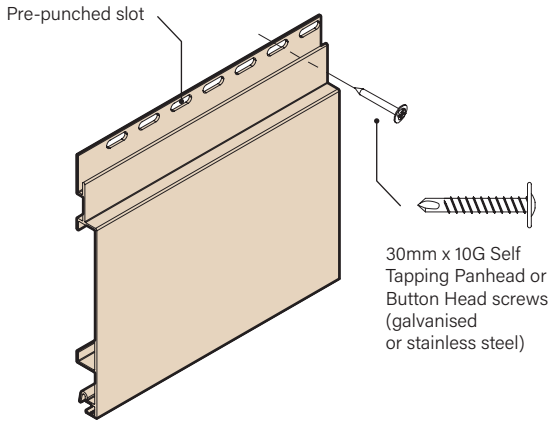
When cutting the boards to length, one method of ensuring that you have adequate coverage is to measure the distance available in the internal dimension (x) of the End Cover Channel (DC-CL25) to the end of the Cover Strip Base (DC-CL28) and subtract 5mm. (See diagram)



Length of Board = x - 5mm

Length of Cover Strip = y - 2mm

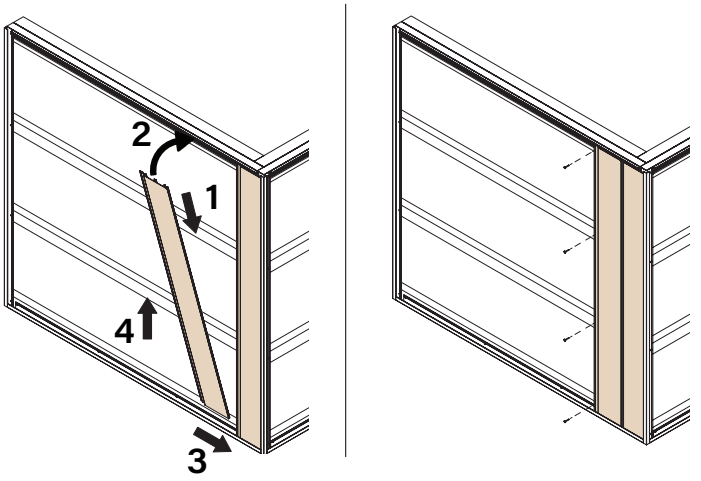


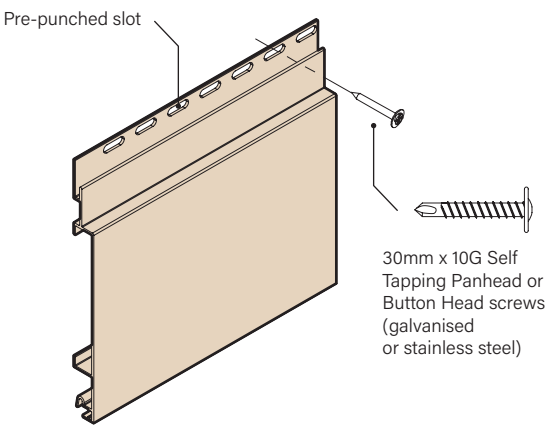


4 Install Next Board and Repeat Until Final Board

Install the next board by positioning lip over the positioning leg on the previous board and fix board using 30mm 10G screws as required for the applicable wind loads. Ensure that the fixings are installed through the pre-punched slots.

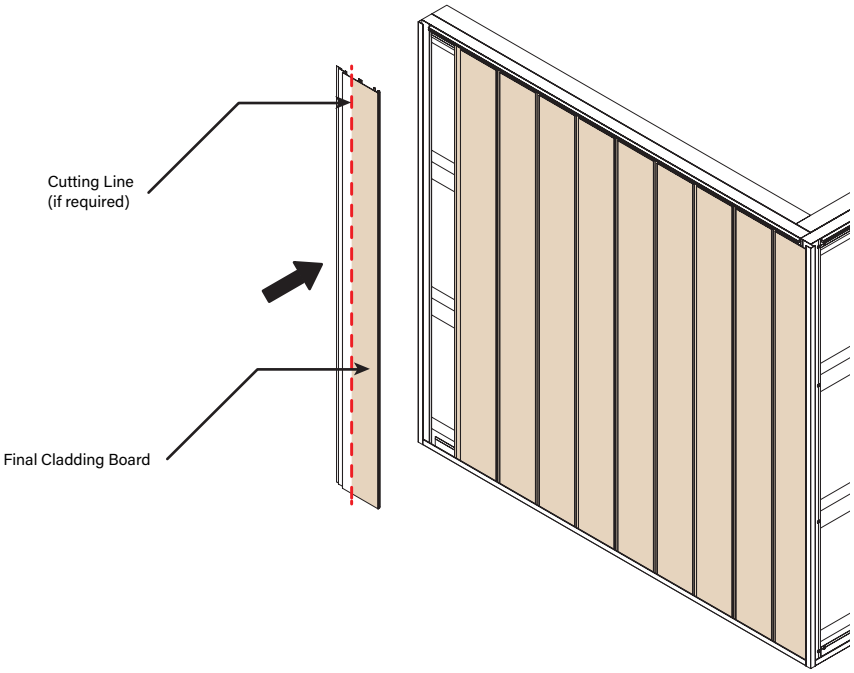
TIP: After every 5th board, measure horizontally from both ends of the cladding to ensure consistent length. Adjust the angle of the sixth board if needed for levelness, then proceed with fixing each subsequent board to maintain a level surface.





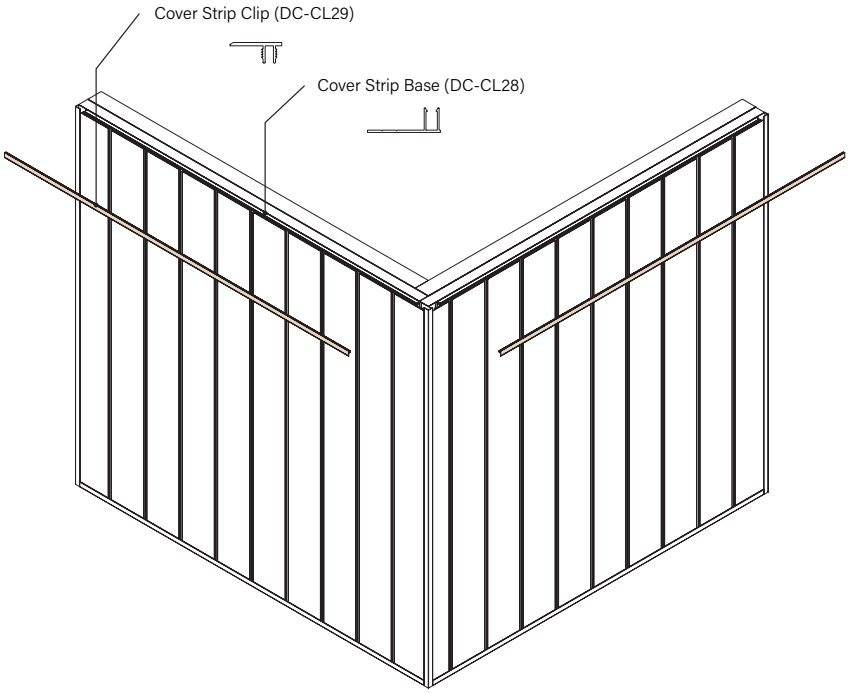
5 Rip and Install Final Board

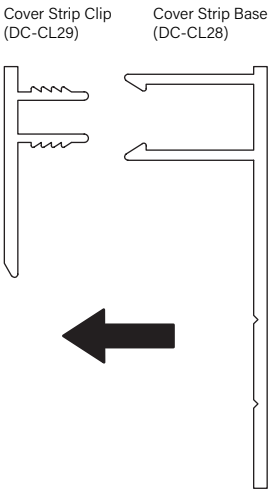
The final Cladding Board might not be the right fit, so it needs to be ripped with a table saw. Measure the remaining space and cut the board accordingly for a proper fit.



6 Cut and Install Cover Strips

Measure horizontal Cover Strip Clip (DC-CL29) between the external face of the vertical members (see cutting tip on previous page), cut to length and snap in to fit.





Side View

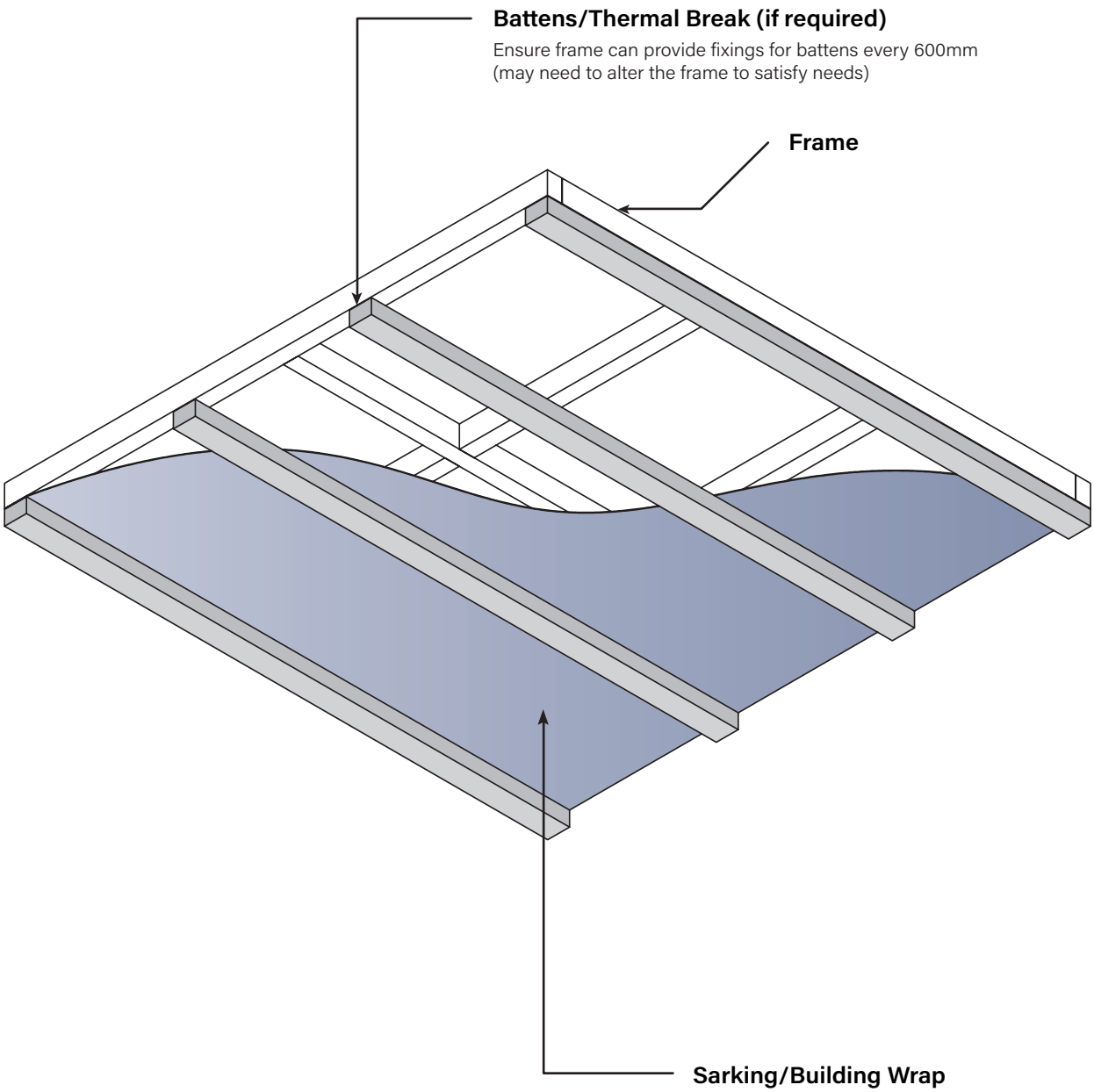
Snap Cover Strip Clip into Cover Strip base

Soffit Applications

Soffit Applications

1 Apply Sarking or Building Wrap and Any Additional Battens or Noggins Required

When installing battens for soffit cladding, position them perpendicular to the cladding's direction with a spacing of 600mm centres (e.g., horizontal battens for vertical cladding).

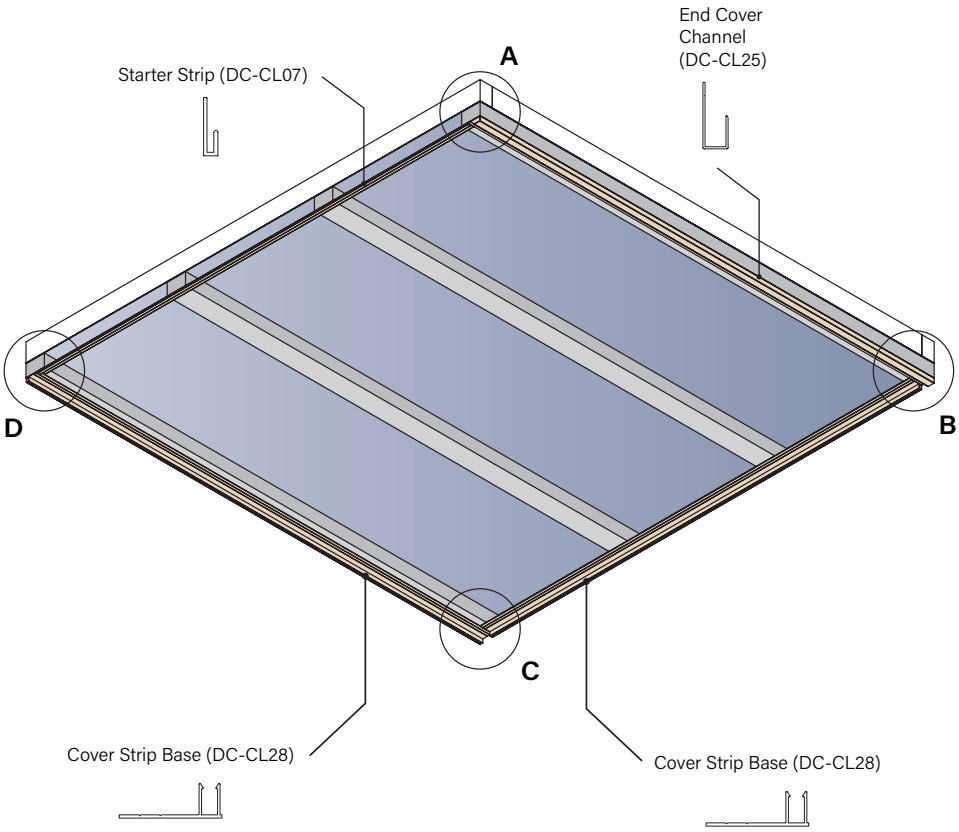


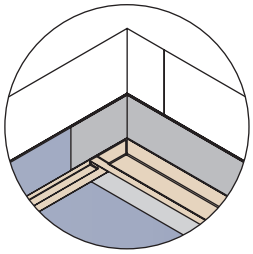
2 Cover Strip Setup

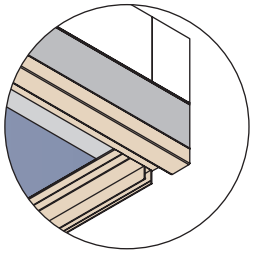
a) Install cladding accessories including End Cover Channels, 20x20 Angles, Joining Connectors, 20x20 Tee Sections, Internal or External Corners. When installing ensure all extrusions are fixed at maximum 600mm centres or as required for the applicable wind loads.

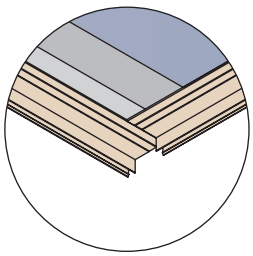
b) Measure and cut cladding to length including, Starter strip (DC-CL07) and Cover Strip Base (DC-CL28).

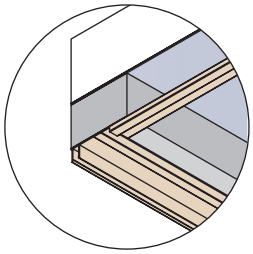
NOTE: Deco accessories are designed to be interchangeable, allowing you to customise them to fit your specific needs. The application demonstrated here represents a typical situation.




Detail A


Detail B


Detail C

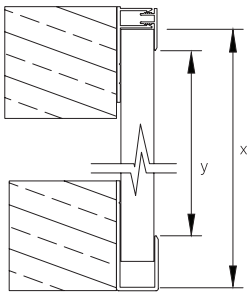

Detail D

3 Install First Board

Measure, cut and install first board by positioning lip over the Starter Strip (DC-CL07) and fix board using 30mm 10G screws as required for your application. To ensure that the board has the required allowable movement, the fixings are required to be installed through the pre-punched slots. Failure to do so may result in excessive stress and failure of the fixing. **NOTE: DecoClad® can be installed from either direction however Deco recommends working from the corner out.**

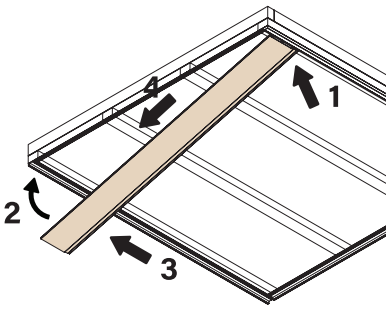
CUTTING TIP

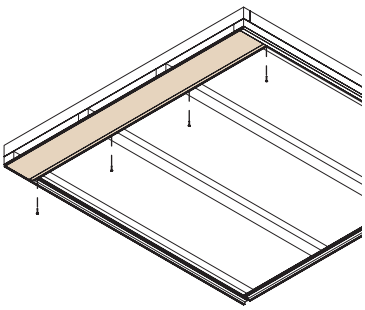
When cutting the boards to length, one method of ensuring that you have adequate coverage is to measure the distance available in the internal dimension of the End Cover Channel (DC-CL25) to the end of the cover at the other end and subtract 5mm. (See diagram).

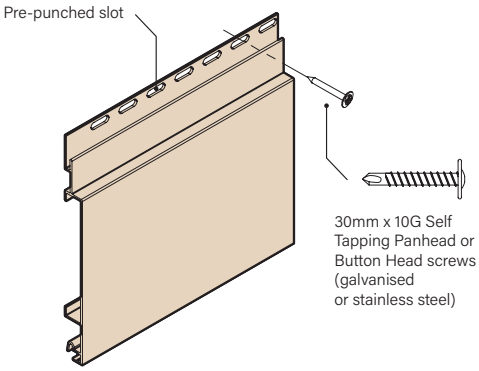


Length of Board = x - 5mm

Length of Cover Strip (DC-CL29) = y - 2mm



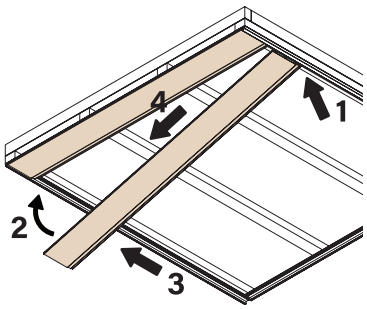


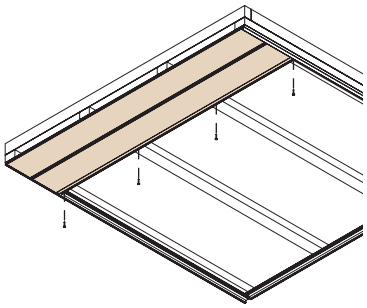


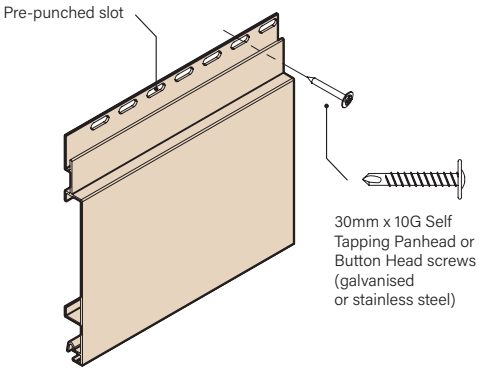
4 Install Next Board and Repeat Until Final Board

Install the next board by positioning lip over the positioning leg on the previous board and fix board using 30mm 10G screws as required for the applicable wind loads. Ensure that the fixings are installed through the pre-punched slots.

TIP: After every 5th board, measure horizontally from both ends of the cladding to ensure consistent length. Adjust the angle of the sixth board if needed for levelness, then proceed with fixing each subsequent board to maintain a level surface.







5 Rip and Install Final Board

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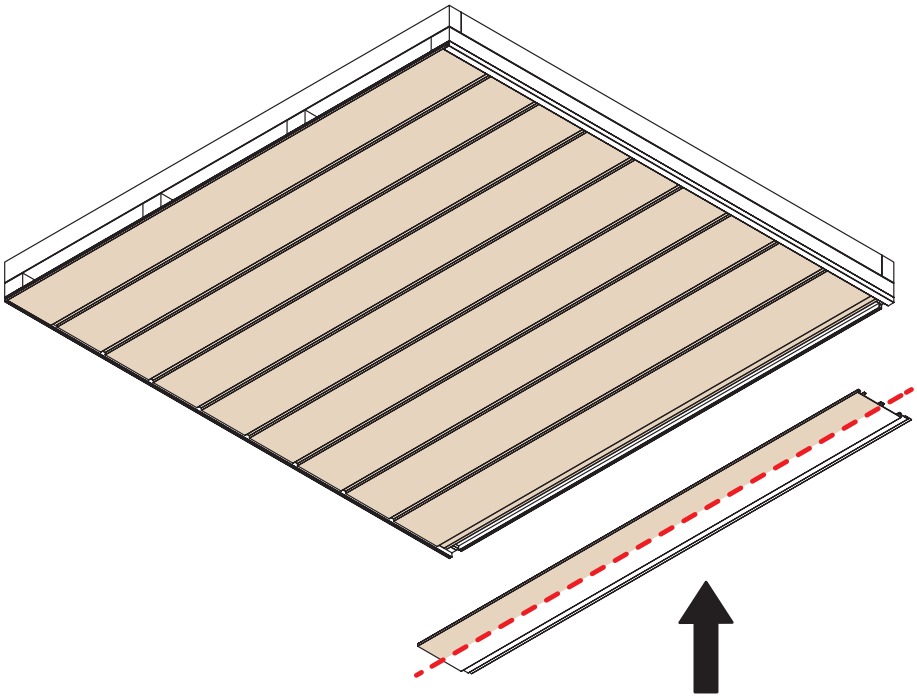
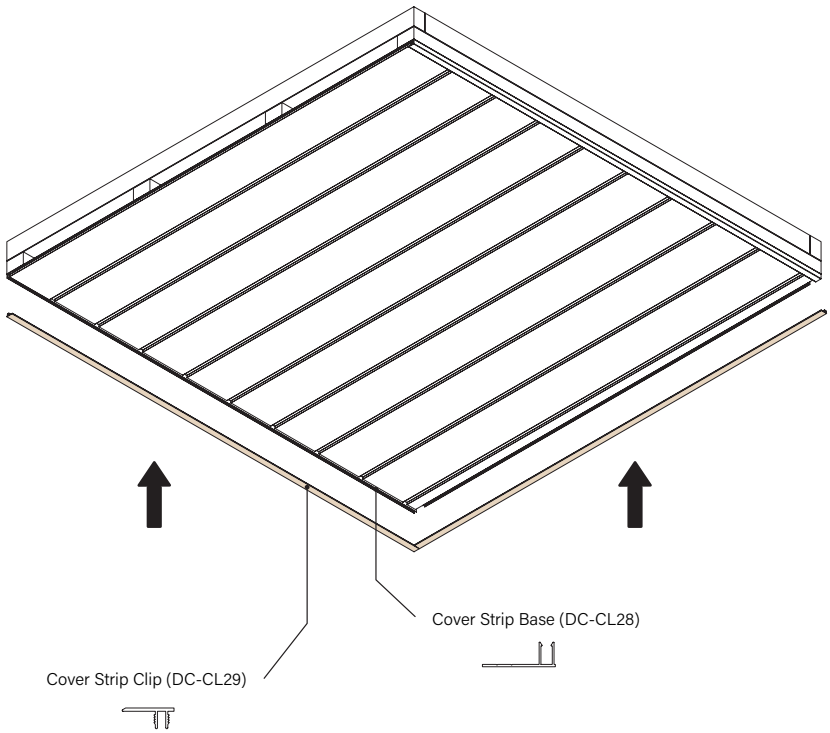
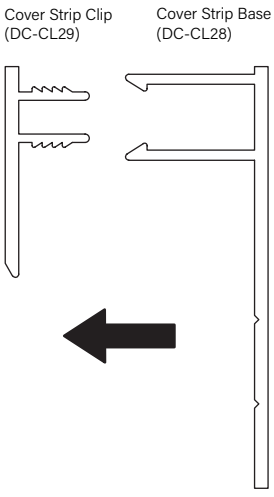


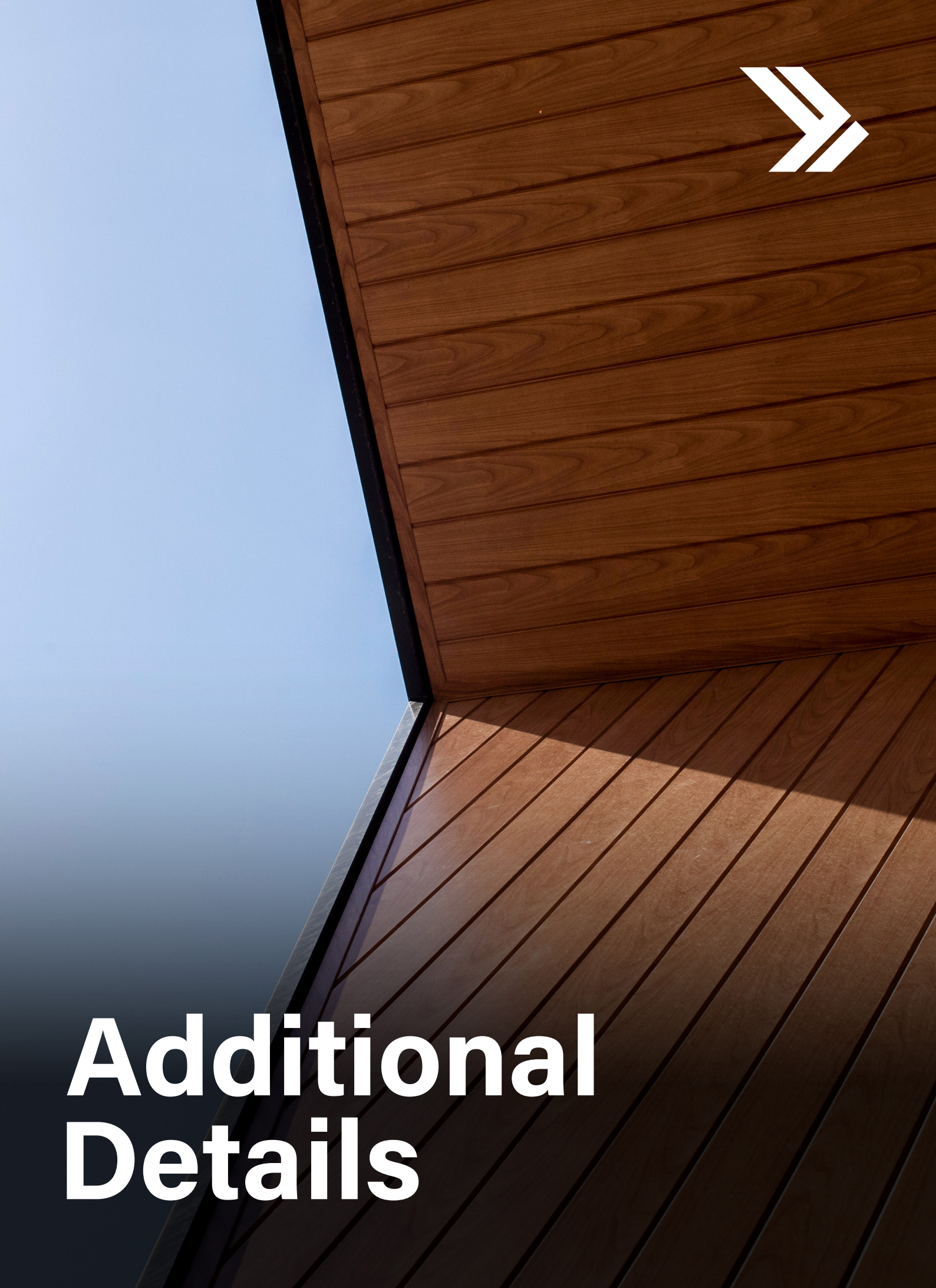
6 Cut and Install Cover Strips

Measure horizontal Cover Strip Clip (DC-CL29) between the external face of the vertical members (see cutting tip on previous page), cut to length and snap in to fit.





Snap Cover Strip Clip into Cover Strip base



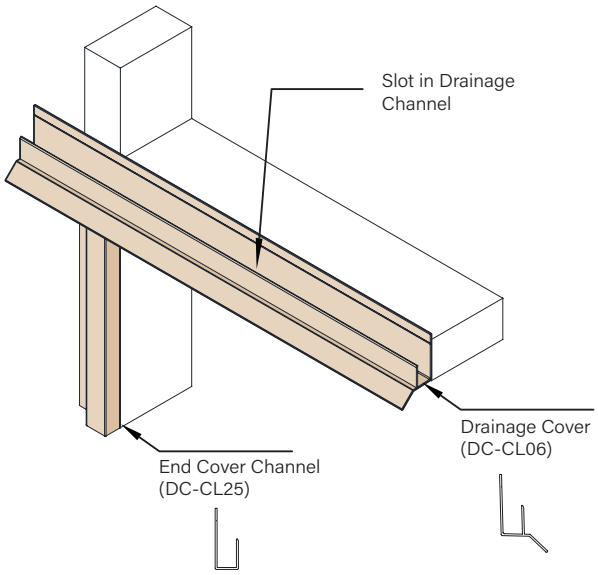
Additional Details

Window, Door and Roofing Applications

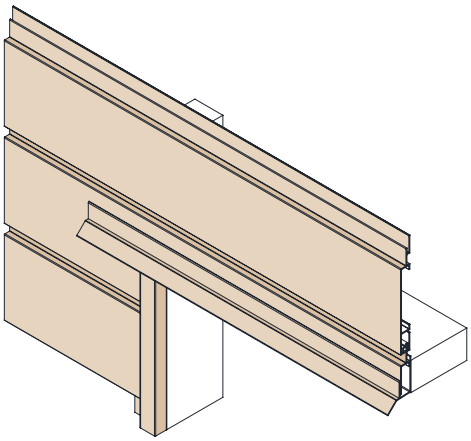
Drainage Cover

It is strongly advised that all windows and doors installed using an inline application are installed with a Drainage Cover (DC-CL06) to the head (see below detail). The Drainage Cover should be extended beyond the window opening by at least 60mm. In order to do so the Drainage Cover will need to be slotted to accommodate the DecoClad® board. When installing, the End Cover Channel (DC-CL25) should be butted up to the Drainage Cover.

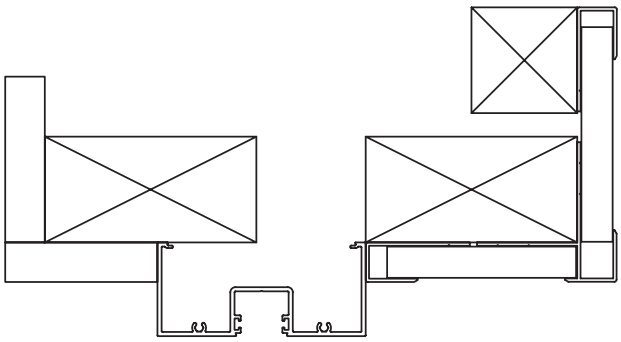
Horizontal Channel Drainage Requirements:
Where End Cover Channels/Drainage Channels are used in a horizontal orientation, cladding boards should not be installed sitting directly on the End Cover Channel, and drainage of the channel should be provided, either with drainage holes to the underside/face, or ensuring a fall to allow excess moisture to drain from the end.



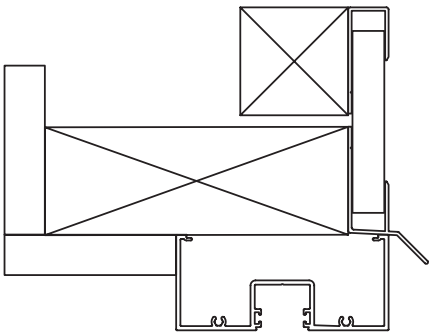
View of Head and Jamb before installation boards



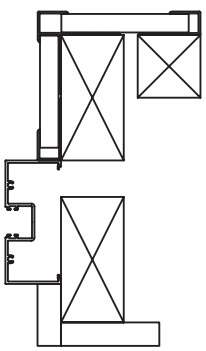
View of Head and Jamb with DecoClad® boards installed



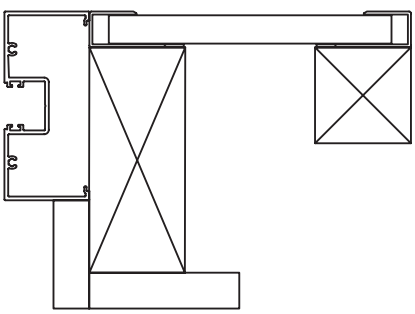
Window Head - Return option overview



Window Head - Incline option overview



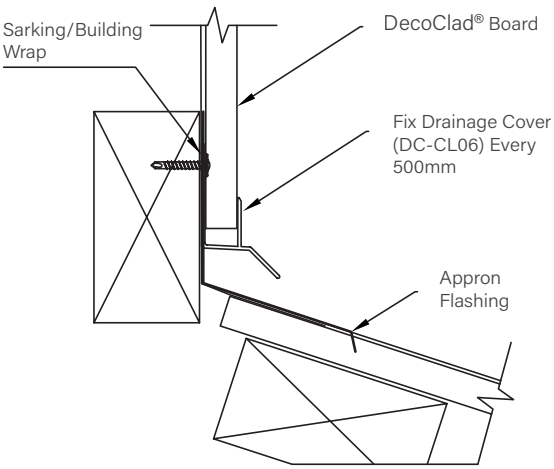
Window Jamb - Return option overview



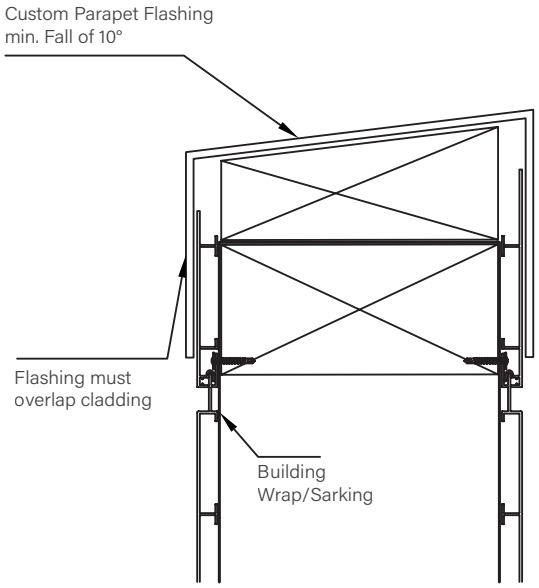
Window Jamb - Incline option overview

Roof and Wall Junction/Parapet Flashing Detail

Horizontal Channel Drainage Requirements:
Where End Cover Channels/Drainage Channels are used in a horizontal orientation, cladding boards should not be installed sitting directly on the End Cover Channel, and drainage of the channel should be provided, either with drainage holes to the underside/face, or ensuring a fall to allow excess moisture to drain from the end.



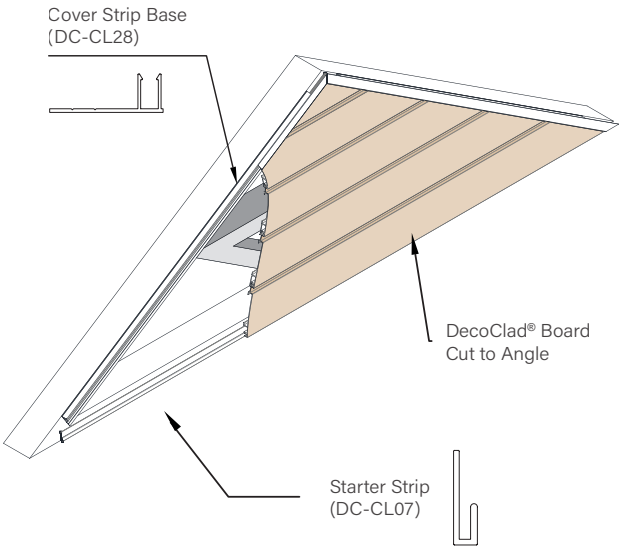
Roof and Wall Junction Overview

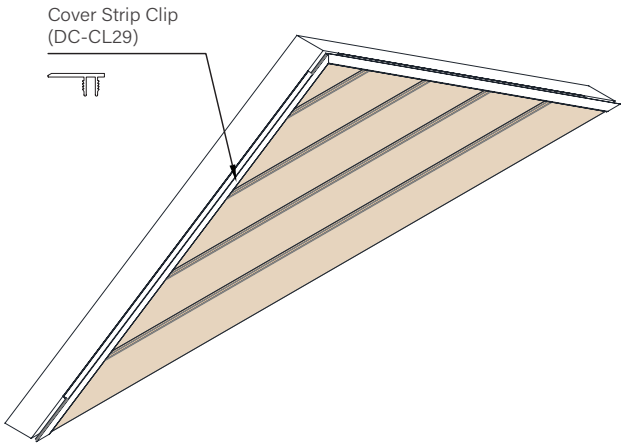


Parapet Flashing Overview

PLEASE NOTE: Details such as fixtures and sealant not shown.

Gable End Detail

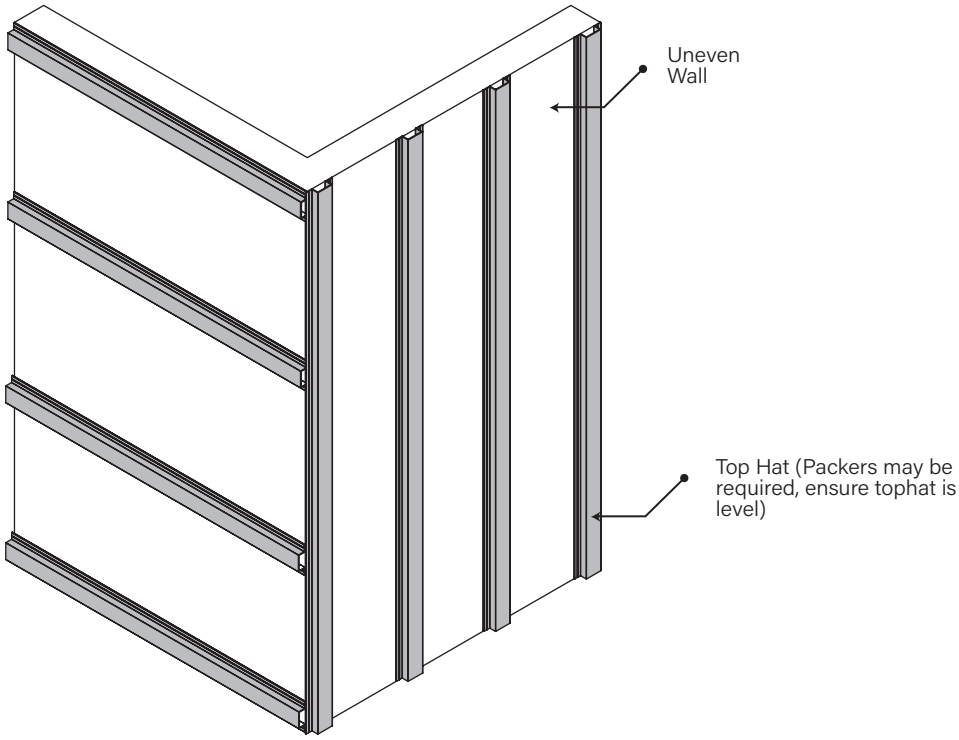




Installing Cladding to an Uneven Wall

1 Install Top Hats/Packers to the Uneven Wall

Install Top Hats, in or out based on the circumstances.



2 Cover Strip Setup

a) Install cladding accessories including End Cover Channels, 20x20 Angles, Joining Connectors, 20x20 Tee Sections, Internal or External Corners. When installing ensure all extrusions are fixed at maximum 600mm centres or as required for the applicable wind loads Refer to previous instructions to see how to do so.

b) Install cladding as usual, refer to previous instructions to see how to do so.