Sculptform Click-on Cladding

Installation Guide - Series 2

Scan to view our Installation Videos

SCULPTFORM

IMPORTANT

This installation manual is intended to provide information that will enable designers, builders and owners to execute their projects effectively. Not all project types, design requirements and installation scenarios will be covered.

The Sculptform team are happy to assist with project-specific solutions by contacting us on 1800 008 828 or emailing support@sculptform.com.

Product recommendations throughout the manual are based on proven performance, however this does not mean that alternative uses are not possible. Differing expectations of what is considered “good performance” will vary, and Sculptform takes no responsibility for what may be considered “product failure.” It is important for designers, builders and owners to fully understand the product before making final selections.

It is the responsibility of designers, builders and owners to ensure that the information in this manual is current, by checking with Sculptform or referring to our website sculptform.com. As new technology is introduced or industry standards are altered, Sculptform reserves the right to alter existing specifications and delete product without notice.

The use of this manual does not:

› guarantee acceptance or accreditation of a design, material or building solution by any entity authorised to do so under law;

› mean that a design, material or building solution complies with the National Construction Code; or

› absolve the user from complying with any local, State, Territory or Government legal requirements.

Taking Delivery

After being tallied and quality checked, each order is carefully packed, strapped and shrink wrapped. Our logistics department then arrange transport directly to your job site.

The following steps should be taken when accepting delivery:

1. Check against the consignment note that you have the correct quantity of packs.
2. Assess the overall condition of the packs. If there is any damage it should be recorded on the delivery document which is returned to the driver and the supplier must be notified immediately.
3. Find the packing slip which will be in a plastic sleeve on one of the packs. Check that every item is there and that the quantity is correct.
4. Do a quality check.
5. Notify Sculptform within 7 days of delivery if any items are out of specification.

Onsite storage

1. › If possible the product should be kept in its original pack until installation. If it is repacked, it should be done the same as the original pack to maintain quality.

2. › It should be stored in a cool dry place out of the weather until ready to install.

3. › Crates/packs should be tarped if being stored outside.

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The Click-on Cladding System

Click-on Cladding Boards

Rainscreen facade skin,
available in a range of profiles.

Mounting Tracks

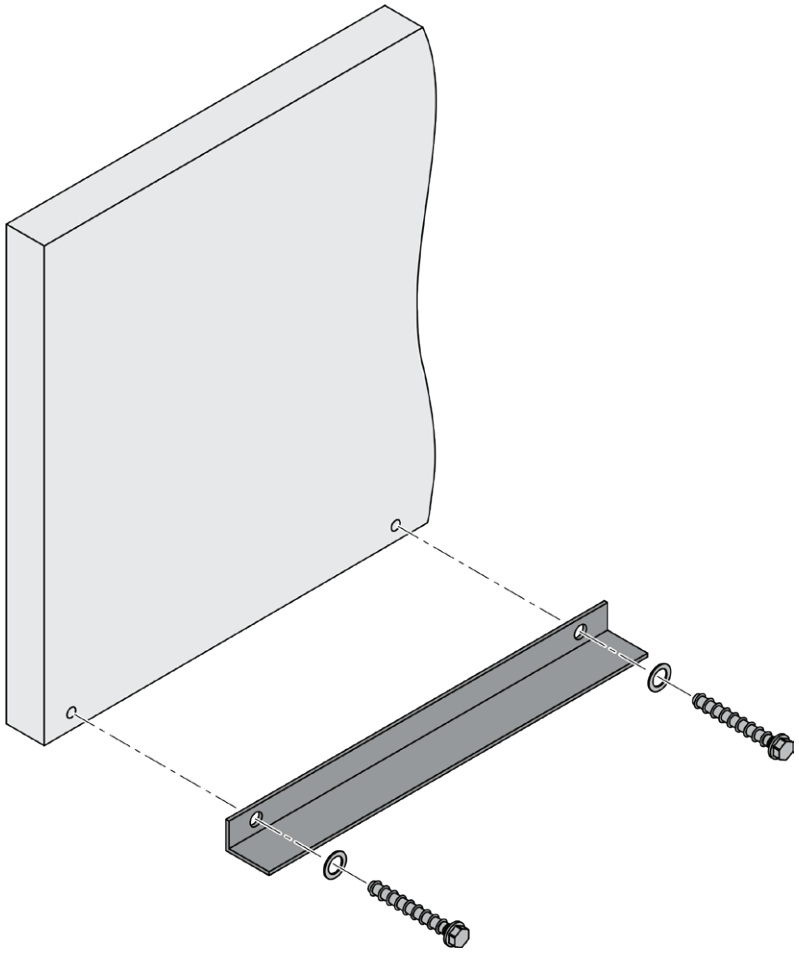
With factory spaced
and fitted clips.

Substructure

Normally a stud frame, insulation
and a weather resistive
membrane.

Installation Procedure

1



1. Check your substrate is plumb and straight. Keep in mind, the mounting tracks run at 90° to the cladding boards. If installing onto a stud frame, the mounting tracks can be either running across or along the studs.

   Note: The two-part 35x25mm Mounting Track has an in/out adjustment range of 6mm (25-31mm) to assist with this.

2. Always consider set out before you start, including your start and end points, penetrations and trims required. Refer to the construction details on page 21 for more information.

3. Install building wrap directly to the stud frame following manufacturers installation details. *(Be sure to use a high-quality membrane such as 'Proclima'; this is not supplied by Sculptform)*.

   The Click-on Cladding system is a rainscreen skin designed to deflect most of the rain and protect the building wrap from the elements. The building wrap plays a crucial part in the weather tightness of the building.

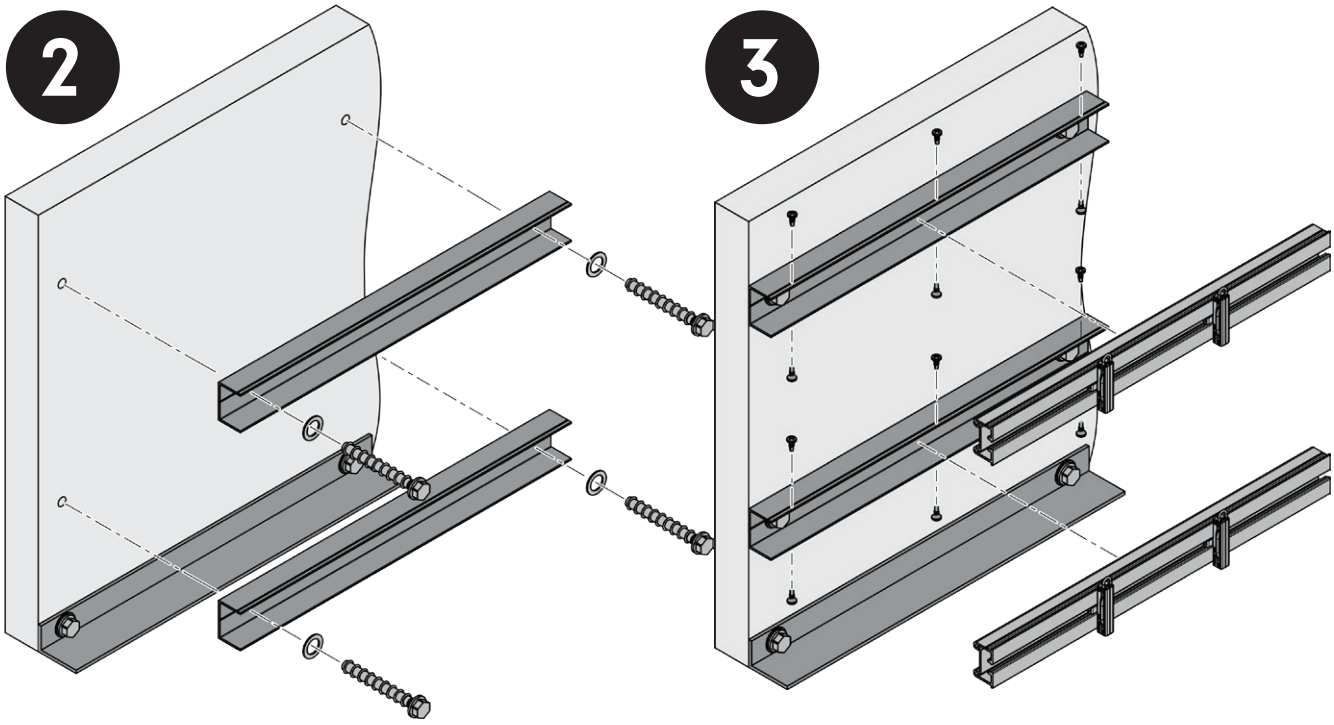
   Note: The building wrap may need to be install on top of some of the trims and flashings, refer to pages 21 for construction details.

4. To start, install the base trims and end trims.

   For weatherproofing, sealing tape *(provided by your membrane supplier)* is usually required to seal the trims to the membrane.

   Note: Where trims intersect, notch the back leg of the base angle so they finish flush.

Installation Procedure Continued



Fix the mounting track base to the substrate using suitable fixings.

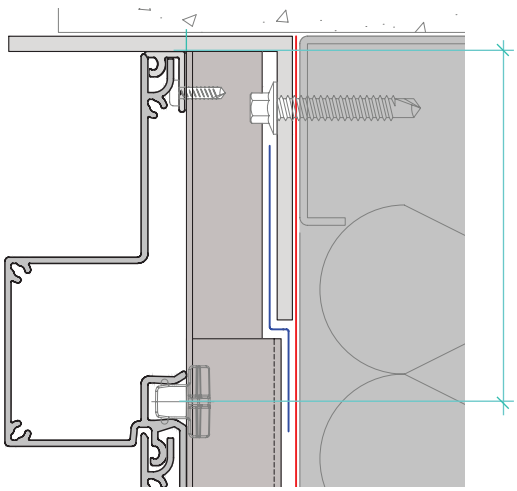
- Fixing centres and track centres (see image below) as per the engineers recommendations.
- Screw spec to be confirmed by your engineer based on site specific windload and other engineering considerations.

Note: If installing curved track, also refer to the 'Installing Curved Mounting Tracks' section on page 13.

Fit the mounting track onto the base, ensuring the clips line up vertically and considering the start and end points. Refer to page 15 for list of profiles showing first clip positions. Stitch the mounting track and base together top and bottom using the black screws supplied.

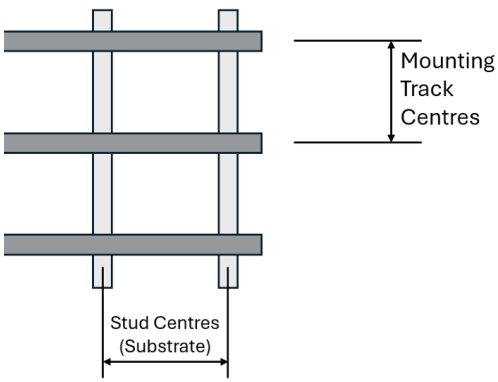
Note: It is recommended to adjust your driver torque settings to suit. If too much torque is used there is a risk of snapping the screw heads off.

Stitching spans: at every substrate fixing, and in the centre of the span, as shown.



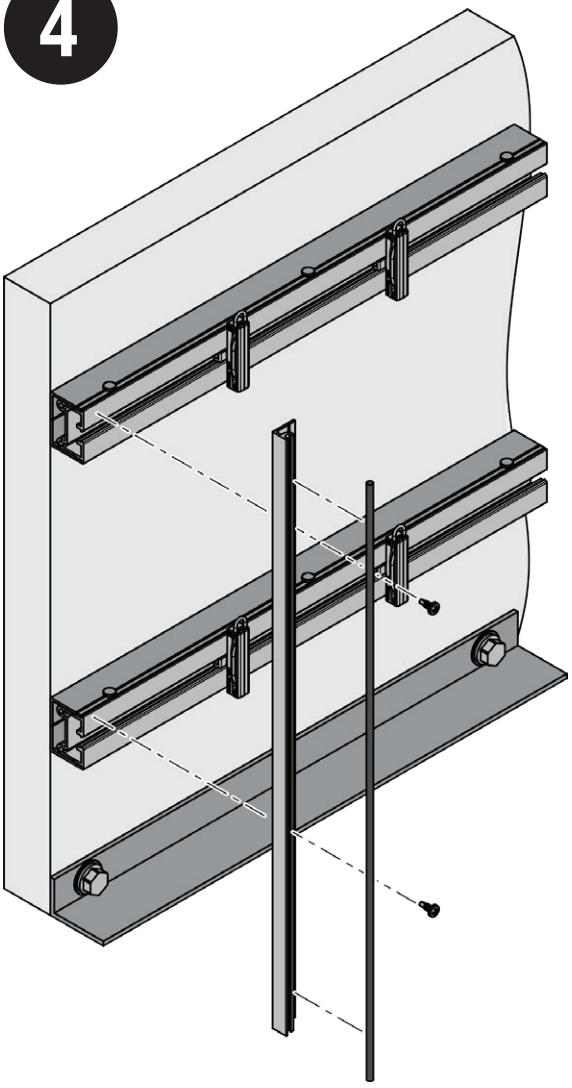
First clip distance

75x23 Flute	67mm
100x23 Flute	112mm
120x48 Edge	112.5mm
180x48 Edge	172.5mm
300x48 Edge	292.5mm
300x12 Fineline	292.5mm
100x48 Block 50	92mm
100x48 Block 25	92mm



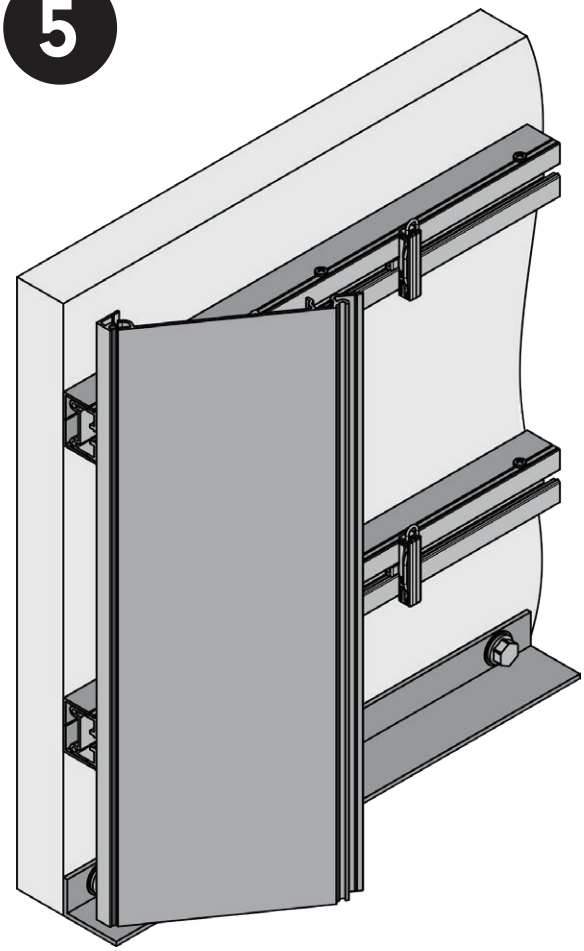
Installation Procedure Continued

4



Once all the trims are installed, fit the starter profile to the face of the mounting track with the black screws supplied and insert the foam. See page 9 for foam insertion procedure.

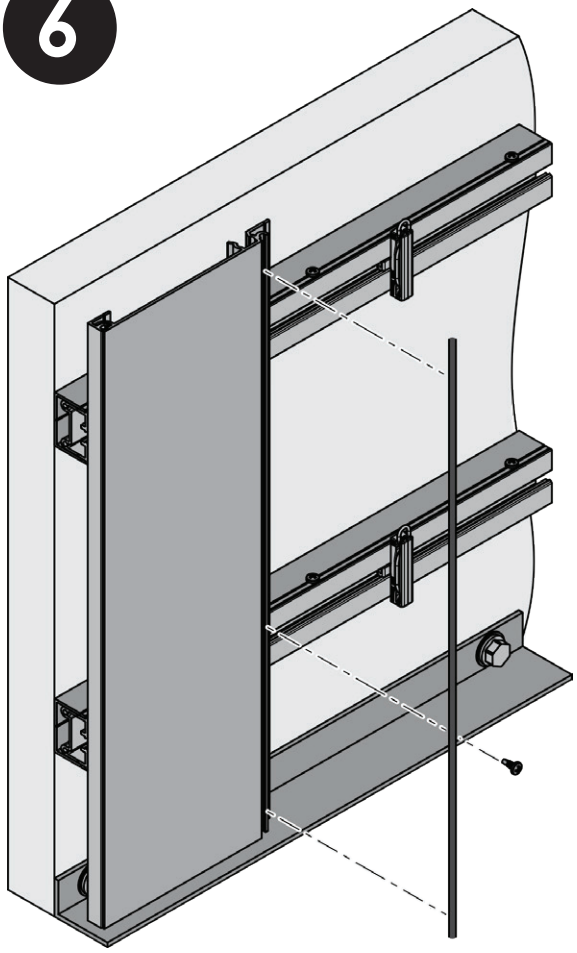
5



Fit your first cladding board, by engaging the groove side into the tongue of the starter profile, rotating the board down and clicking it into engagement. A ‘CLICK’ will be heard once engagement has taken place.

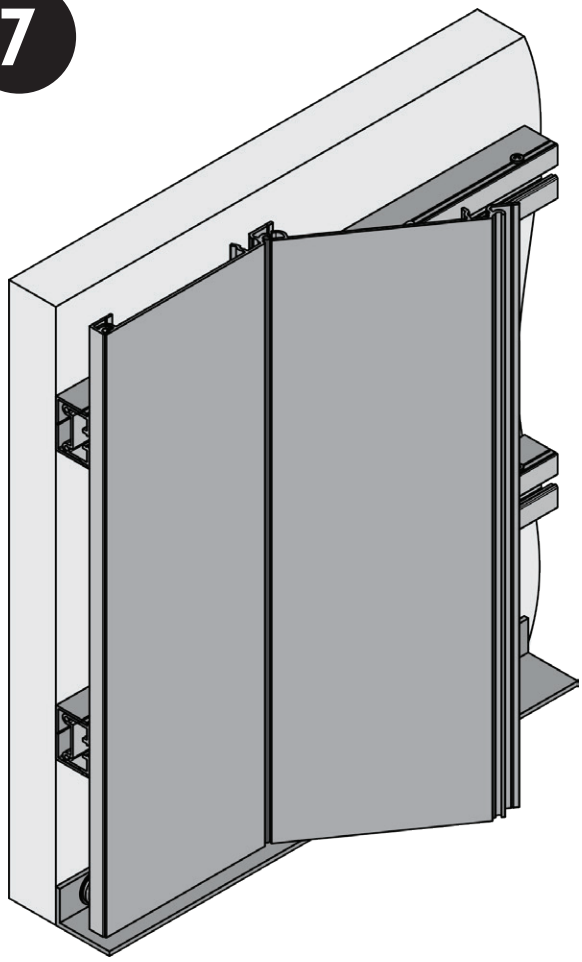
Installation Procedure Continued

6



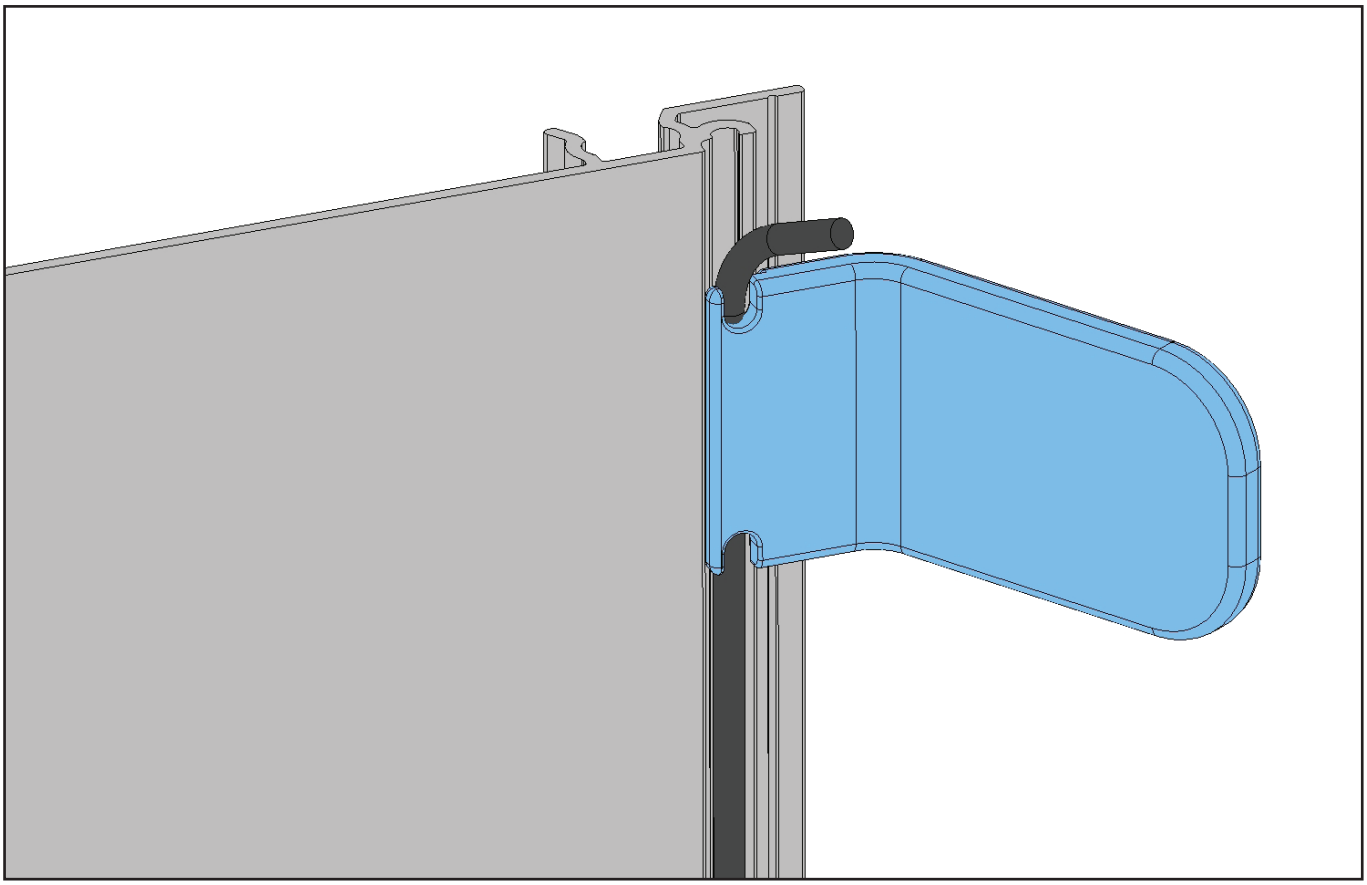
Install a screw through the tongue and into the lowermost mounting track. This will secure the board and make sure it doesn't slide down when thermal movement of the boards occur. Then install the foam cord into the board tongue.

7



Fit the next cladding board and continue this process.

Foam Cord Installation

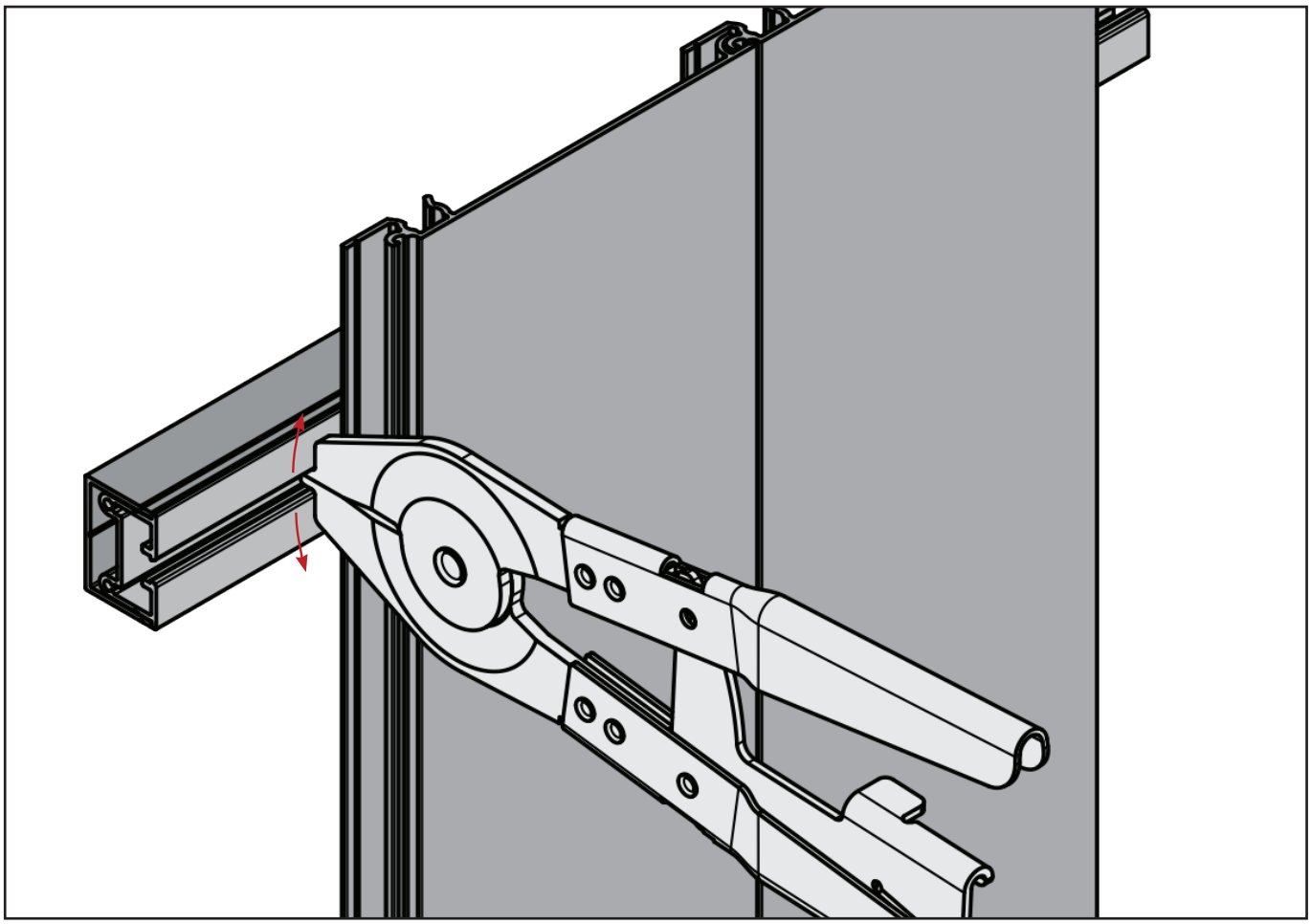


The Foam cord is designed to be an acoustic dampener and reduce rattle between the boards due to wind and thermal movement. The foam cord will be supplied to site with your order in 200m rolls and a foam insertion tool.

It is easiest to insert the foam into each cladding board once it has been installed.

1. Leave the roll on the ground and unwind enough to run the length of your board.
2. Starting just lower than the top of the cladding board, use the tool to push the foam into the channel on the tongue.
3. Slide the tool up and down 2-3 times to ensure the top of the foam is engaged.
4. Run the tool down the cladding board, using your hand to help guide the foam.
5. When you reach the bottom of the board, while keeping the tool in place sharply pull the foam up to snap.
6. Run the tool up and down the last 200mm 2-3 times to ensure the end of the foam is engaged.

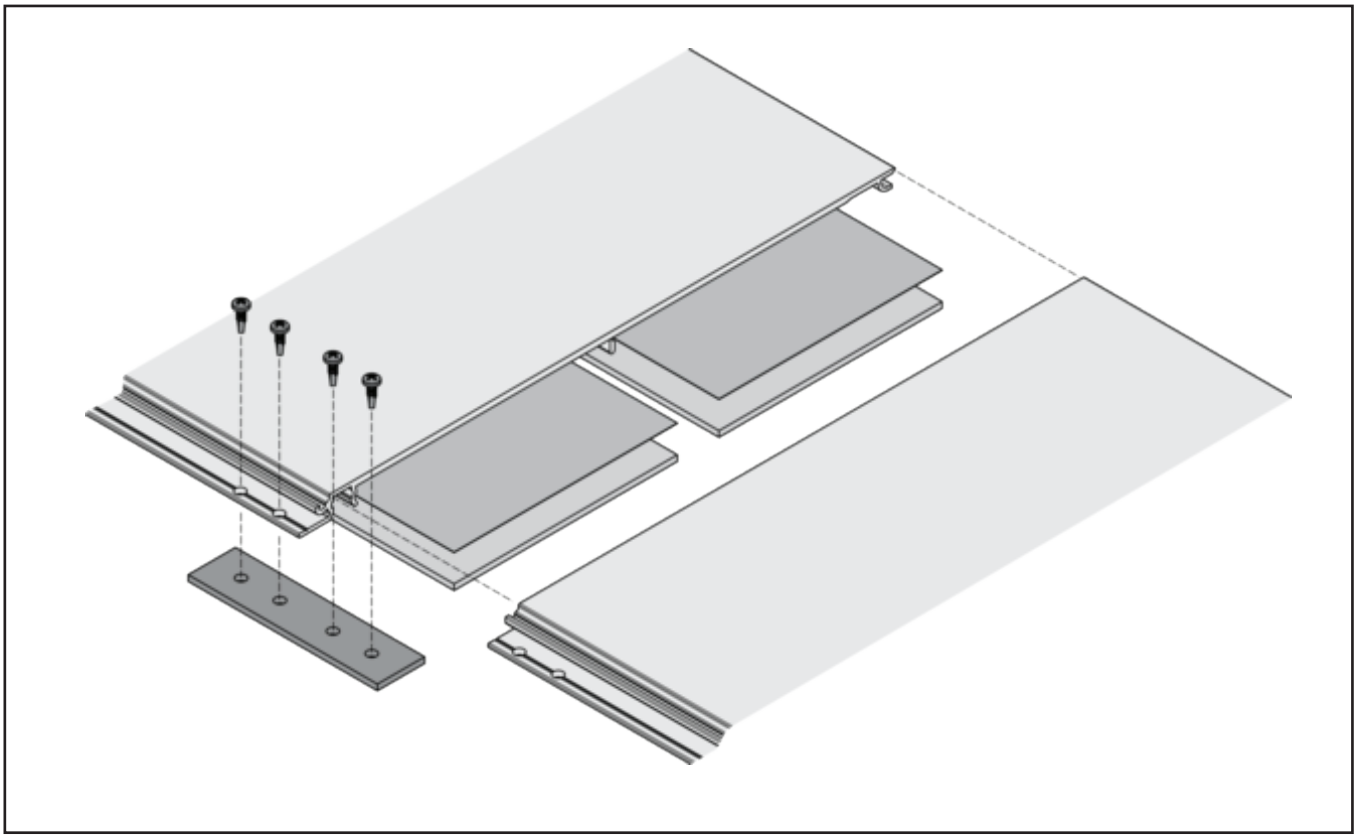
Removing a Cladding Board



To remove a cladding board:

1. First take out any mechanical fasteners.
2. Insert the tips of the removal tool into the throat of the track as close to the tongue side of the cladding board as possible.
3. Squeeze the handle until the first click it heard. This will spread and release the clip from the track.
4. Gently tug on the cladding board to remove. If required, take the removal tool to a second click to spread the track further, taking care not to damage the track.
5. To reinstall the cladding board, the clips can be re-engaged into the track.

Joining Cladding Boards



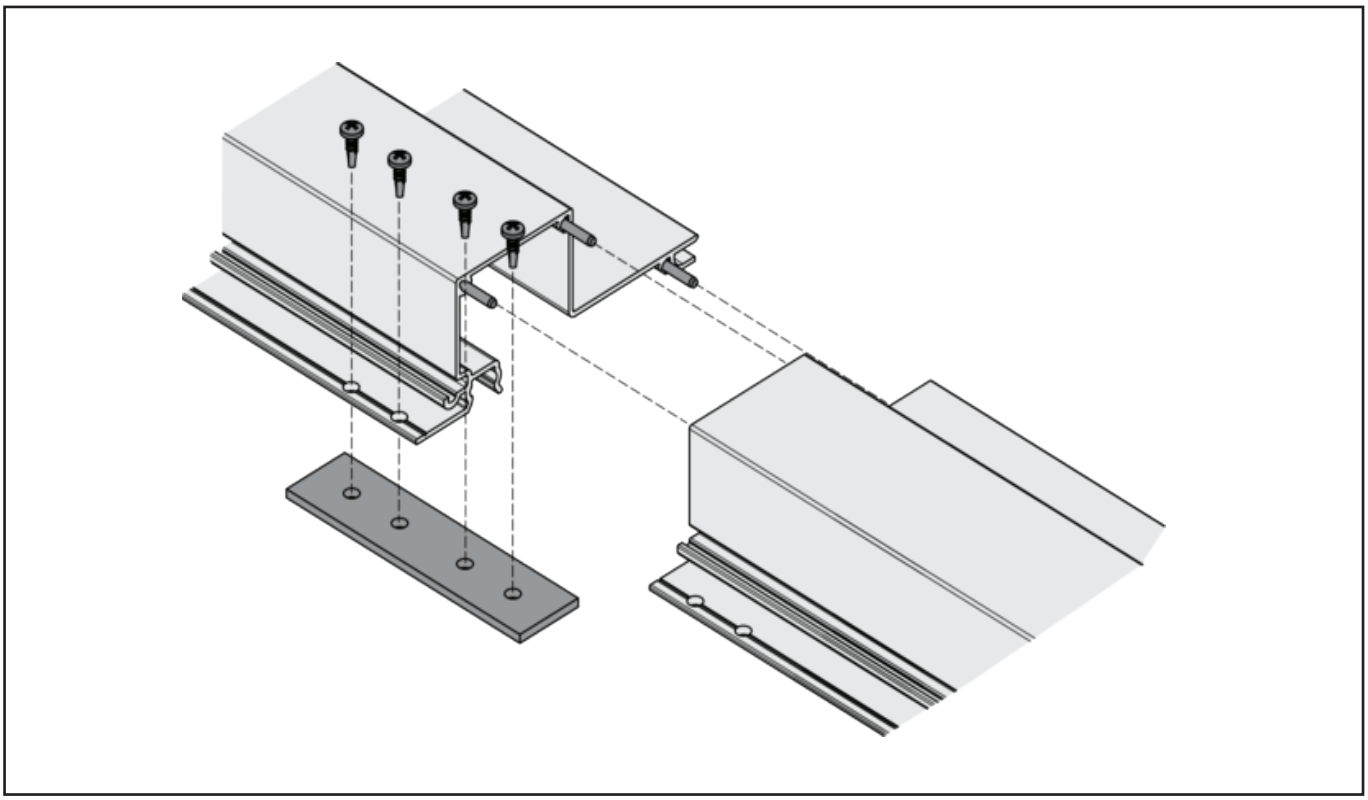
Joining Series 2 Click-on Cladding boards will vary slightly depending on your board profile. For each join you will receive:

- Screw joining Plate with screws and ether,
- Knurled alignment pins, or;
- Double-sided tape alignment plate with Scotch-Brite pads and cleaning alcohol.

Joining Procedure for Screw joining plate and double-sided tape alignment plate (Edge and Fineline Profiles)

1. Using the Scotch-Brite abrasive pad, rub the back of the cladding where the alignment plate will be stuck across the butt join.
2. Using the cleaning alcohol, wipe the area to ensure it is free of dirt, oil and other contamination.
3. Take the liner off the tape gently and align the butt join, pressing the plate evenly across the back of the butt join to ensure full adhesion.
4. Screw the joining plate to the back of the tongue to ensure the join doesn't come apart.

Joining Cladding Boards



Joining Procedure for Screw joining plate and knurled alignment pins (Block and Flute Profiles)

1. Knock the knurled side of the alignment pin into the screw bosses in the cladding board profile. Knurling should be fully embedded.
2. Align the butt join and push together, ensuring the join is tight.
3. Screw the joining plate to the back of the tongue to ensure the join doesn't come apart.

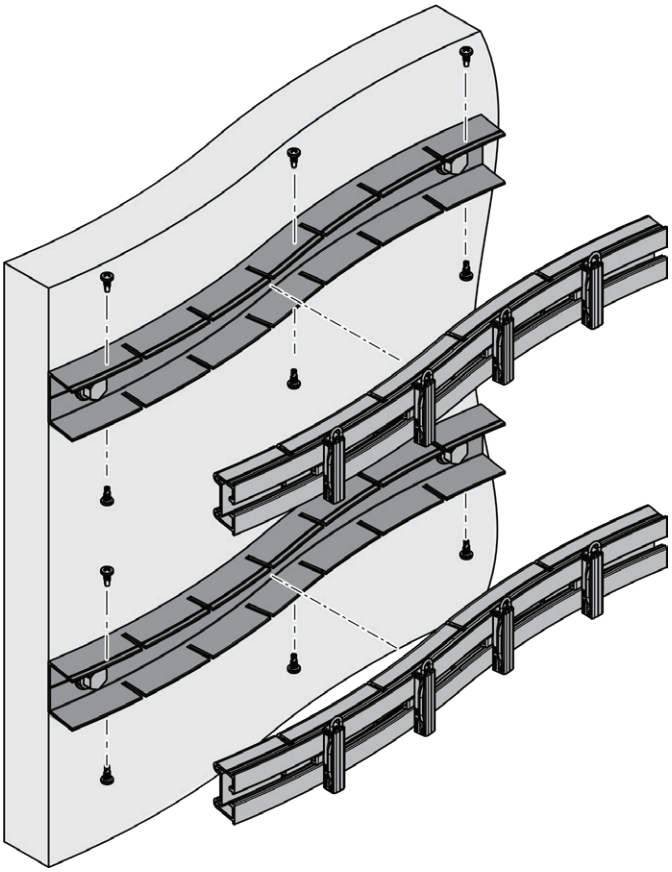
Maximum joined cladding board lengths allowed:

- Exterior facade: 18m maximum. Larger than this requires an interstory brake, see page 29.
- Internal wall/exterior soffit: 18m maximum. Larger than this requires an interstory brake, see page 29.

Other important notes:

- The double-sided tape and cladding board need to be at least 16˚ C at time of fitment. If it is colder than that it is recommended that a heat gun is used to increase the temperature.
- The back of the cladding boards needs to totally dry prior to sticking the joiner plate on.
- When joining board ensure you don't have more than one screw fixing the board to the mounting track as outlined in point 9 in the cladding board installation procedure.
- When joining cladding boards using this method, make sure they are located randomly for a seamless look.

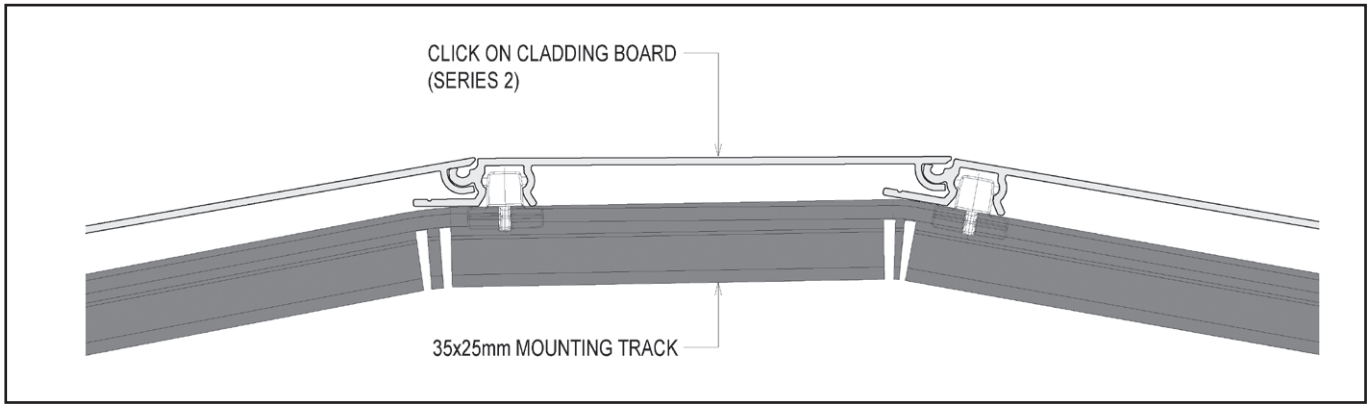
Installing Curved Mounting Tracks



Curved Mounting Track is a flexible track designed to be wrapped around curved surfaces. The track is supplied to site straight, but the slots cut in both track extrusions allow the track to flex.

The curved track needs continuous back support to fix to, like rolled steel sections. It can't span between studs, for example.

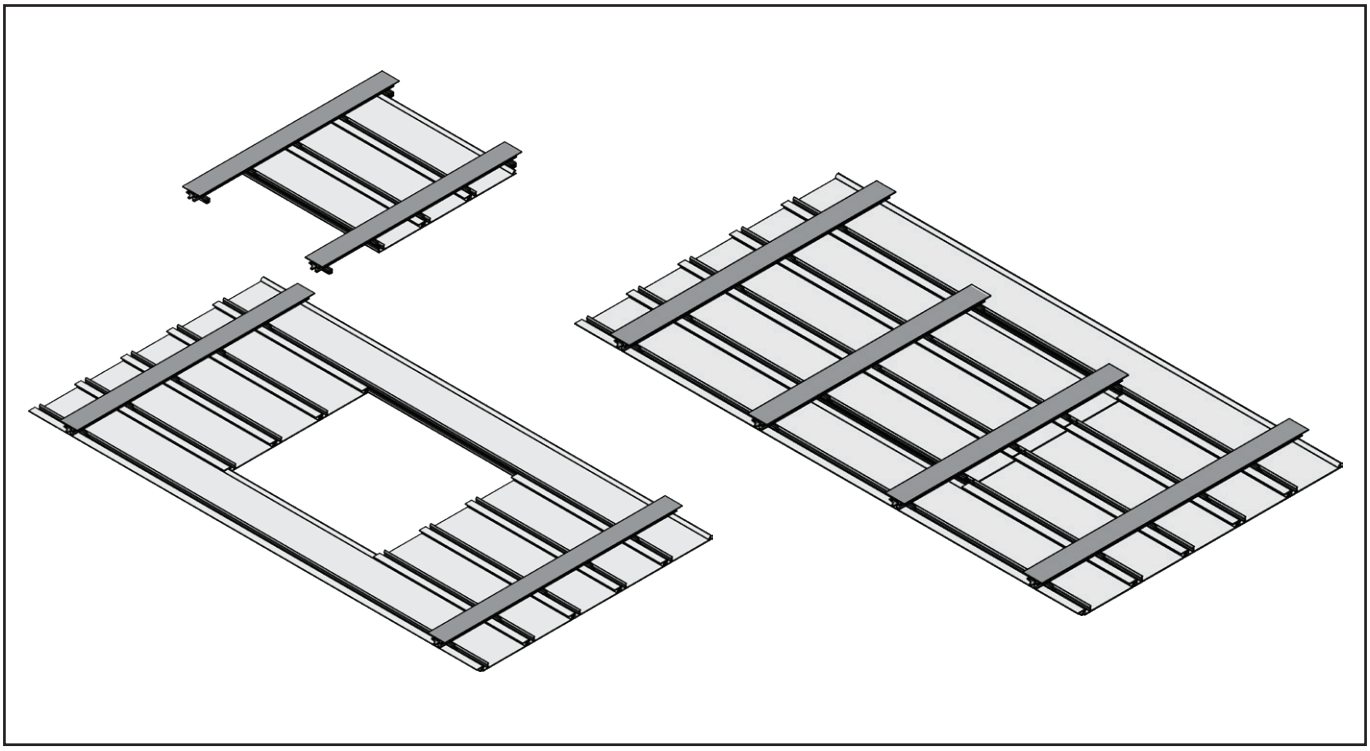
The track is designed to curve using a series of flat facets and hinge points (slots). The hinge points on the track alight with tongue and groove of the cladding to create a consistent curve.



To install the curved track

1. First roughly shape the Track Base profile to the approximate radius. This can be done using the curved substrate you are fixing to as a guide.
2. Fix the shaped Track Base to the substrate roughly every 200mm or as required.
3. Again, shape the mounting track with clips to the approximate radius, ensuring the angle at each hinge is consistent over the length of the track. Make sure the clip is on the correct side of the hinge point for the direction the cladding is running along the wall.
4. Fit the Mounting Track into the Track Base and stitch, top and bottom as required.

Soffit / Ceiling Access Panel



If an access panel is required in a soffit or ceiling application, we recommend you use a drop-in style hatch.

This panel is simply made up onsite with the Mounting Tracks and cladding boards supplied.

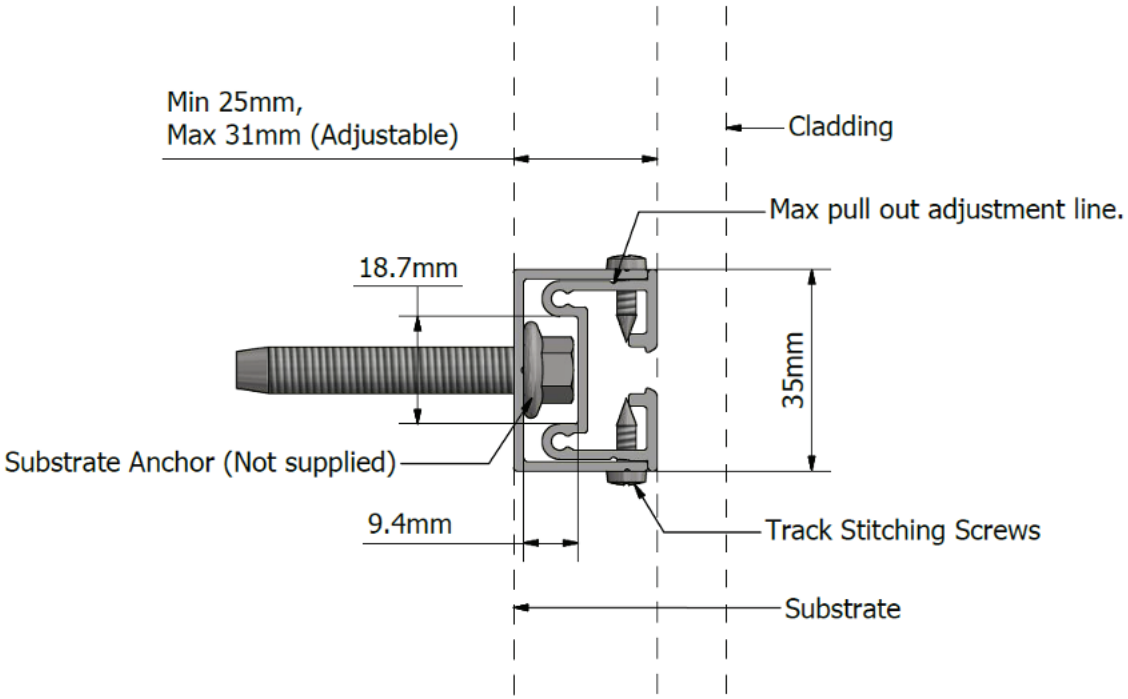
To fit,

1. Install cladding boards around where the access panel is required, leaving the required opening (generally 600mm).
2. Rip the tongue off the boards where required to allow the panel to push up.
3. Cut short length of cladding boards for the access panel allowing for a 1-3mm clearance gap around the panel.
4. Assemble the access panel with two mounting tracks. Overhang the mounting tracks 1 clip further on each side of the access panel.
5. Remove the spring from these four overhang clips.
6. Feed the access panel through the hole in the ceiling and drop into place. The Clips without springs will engage to ensure alignment.

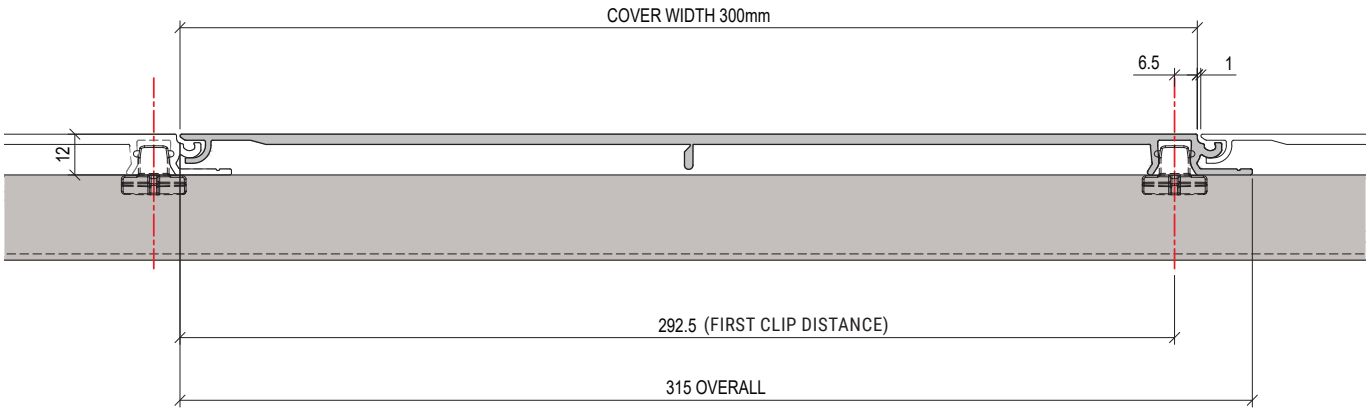
To operate, lift the panel up rotate and drop though the opening to avoid damage of the surface.

List of Components and Key Dimensions

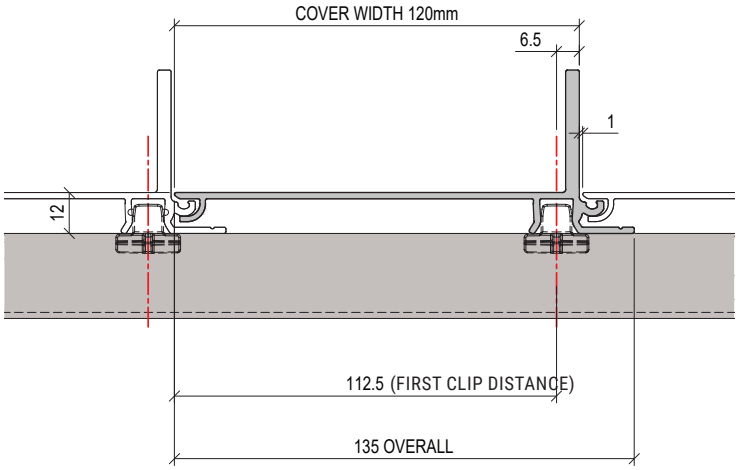
35x25mm MOUNTING TRACK



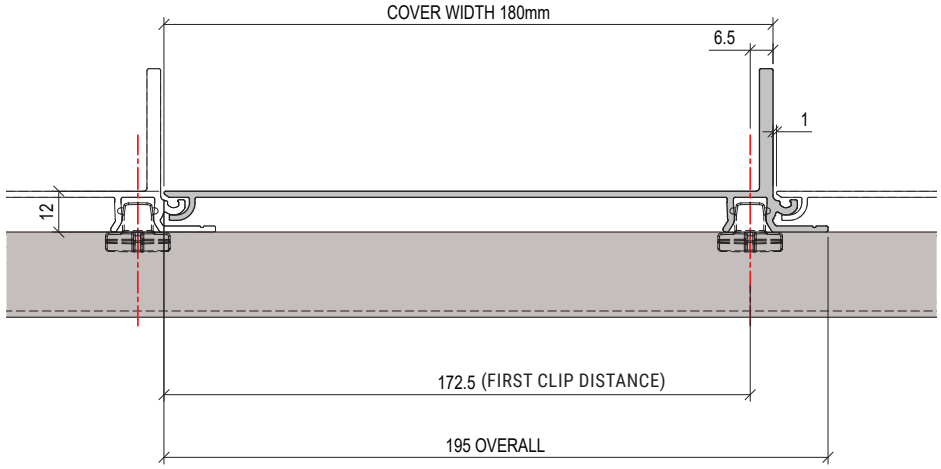
CLADDING BOARD: 300x12mm FINELINE



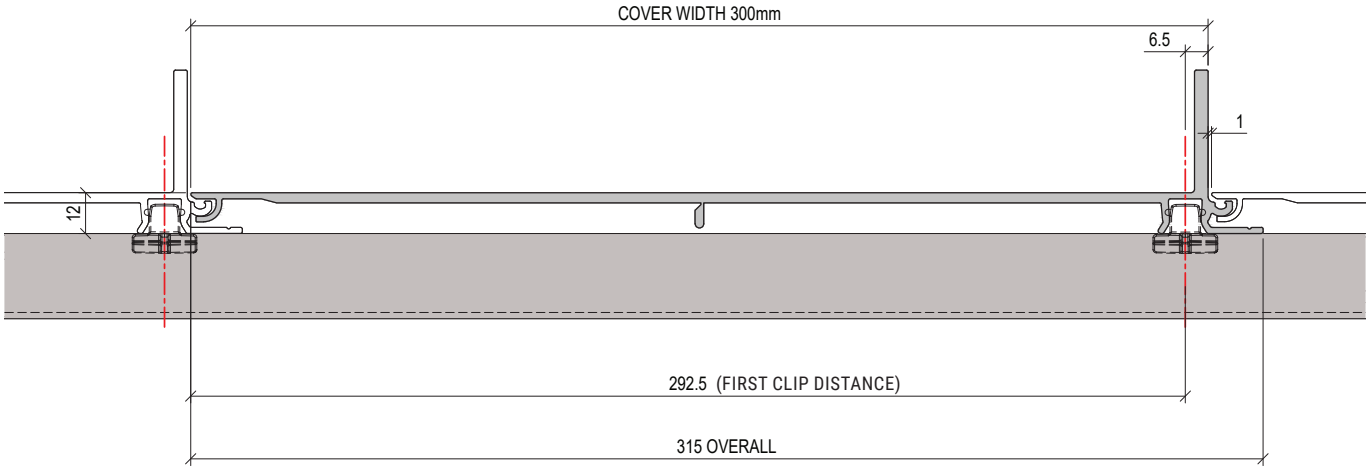
CLADDING BOARD: 120x48mm EDGE



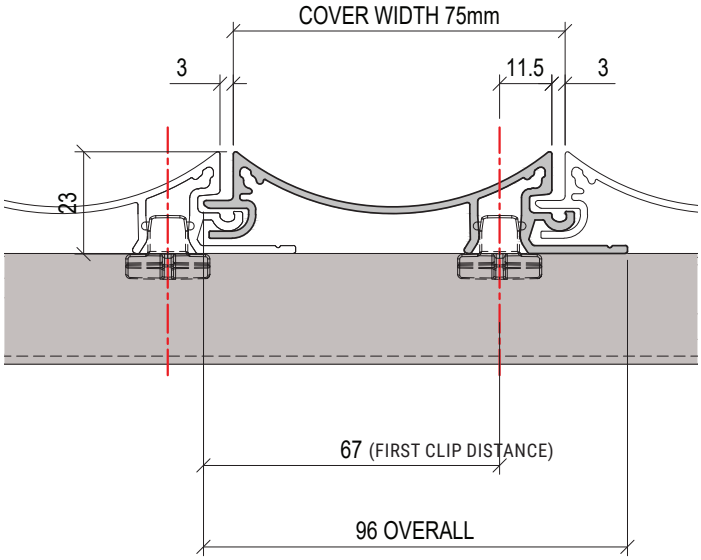
CLADDING BOARD: 180x48mm EDGE



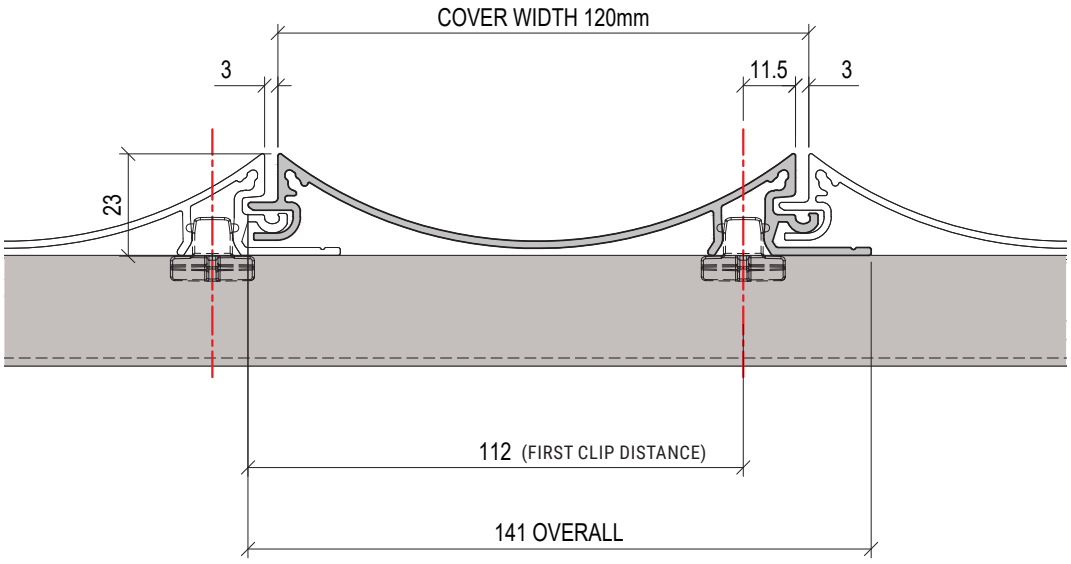
CLADDING BOARD: 300x48mm EDGE



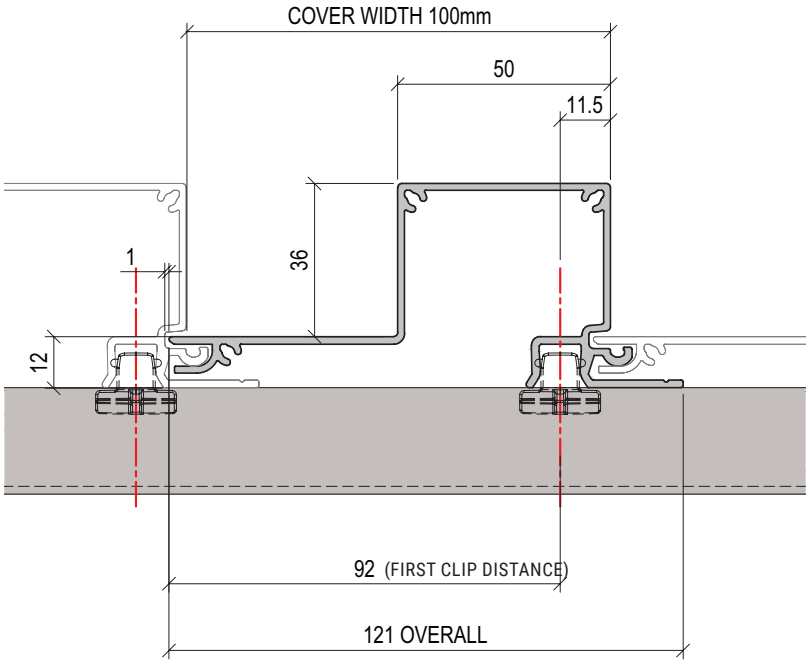
CLADDING BOARD: 75x23mm FLUTE



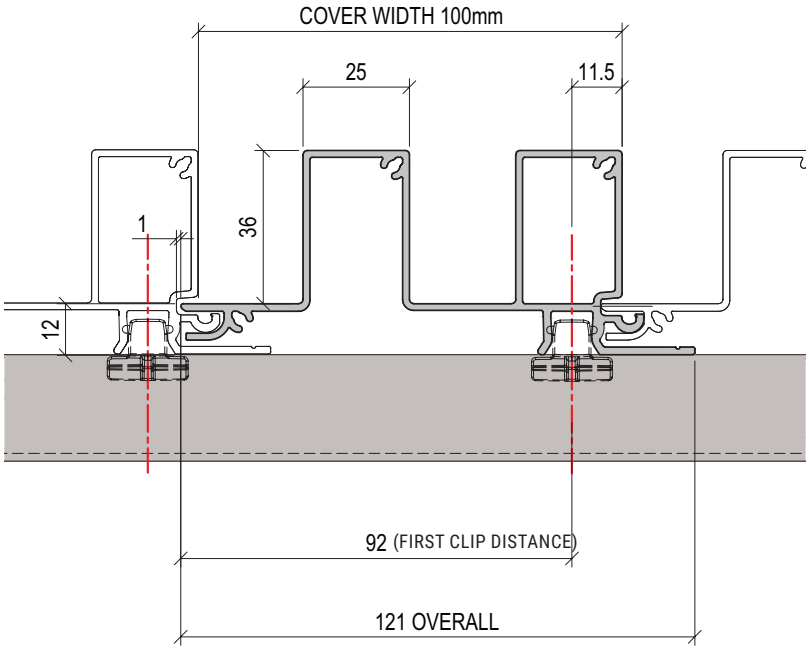
CLADDING BOARD: 120x23mm FLUTE



CLADDING BOARD: 100x48mm - BLOCK 50mm

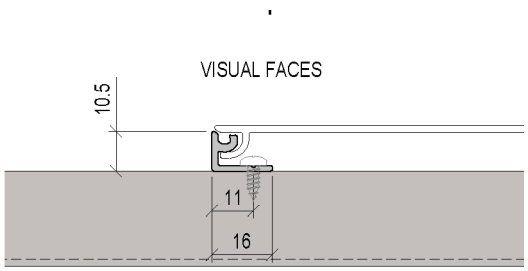


CLADDING BOARD: 100x48mm - BLOCK 25mm

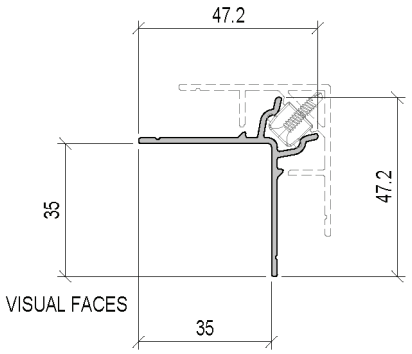


Trims

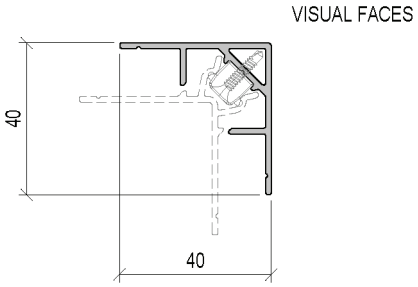
STARTER PROFILE



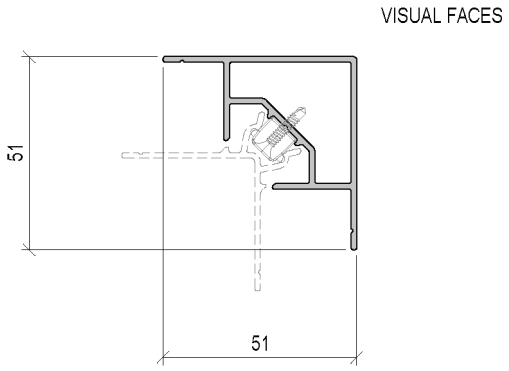
OPEN CORNER PART 1



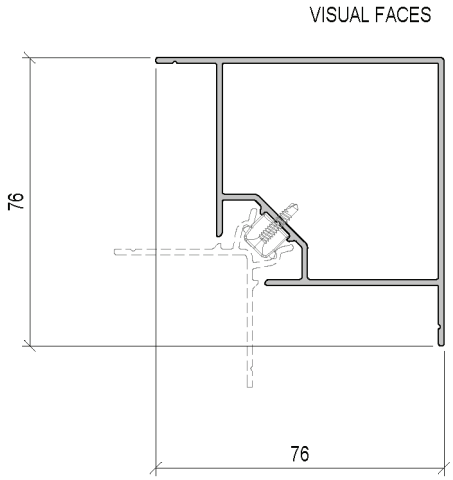
OPEN CORNER PART 2: 12mm



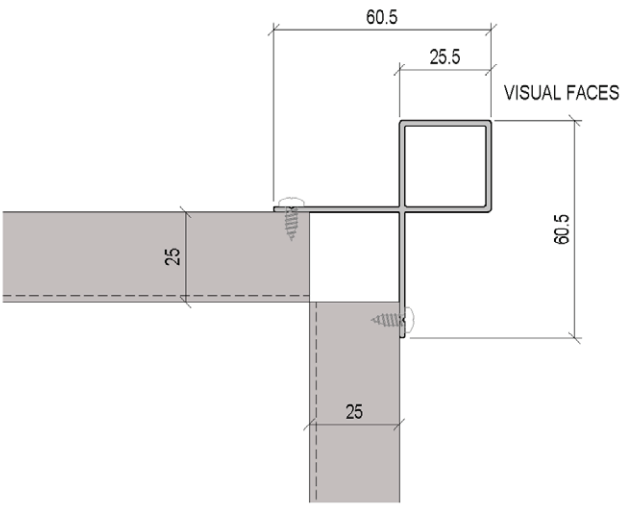
OPEN CORNER PART 2: 23mm



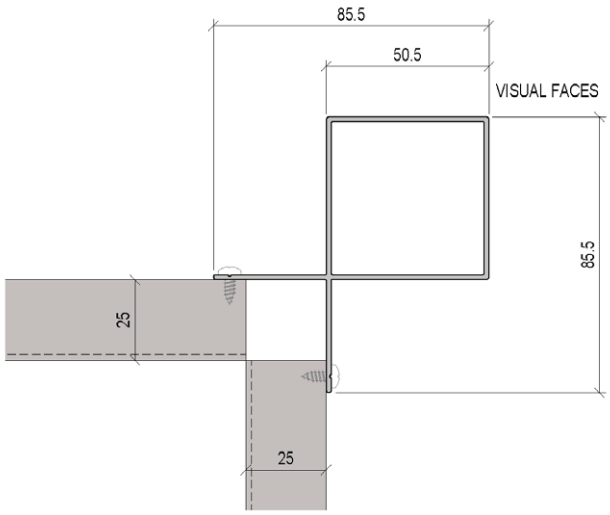
OPEN CORNER PART 2: 48mm



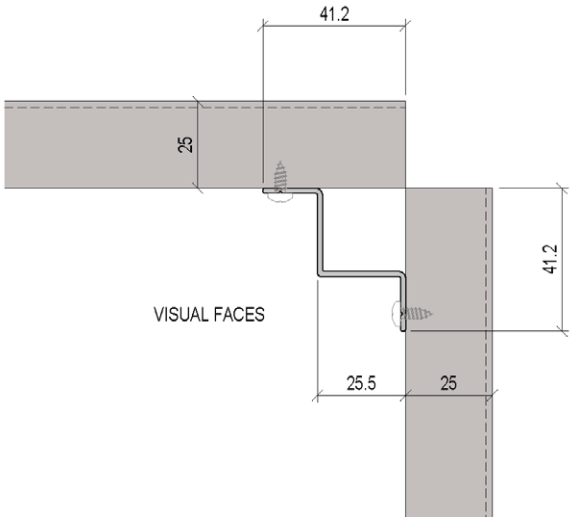
CLOSED EXTERNAL CORNER 25mm



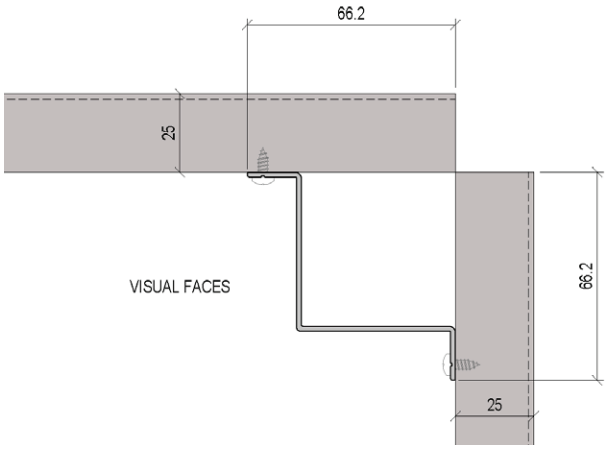
CLOSED EXTERNAL CORNER 50mm



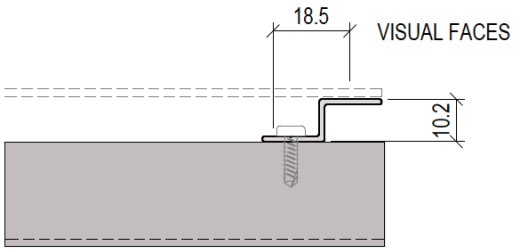
CLOSED INTERNAL CORNER 25mm



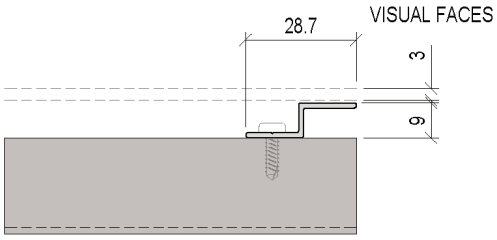
CLOSED INTERNAL CORNER 50mm



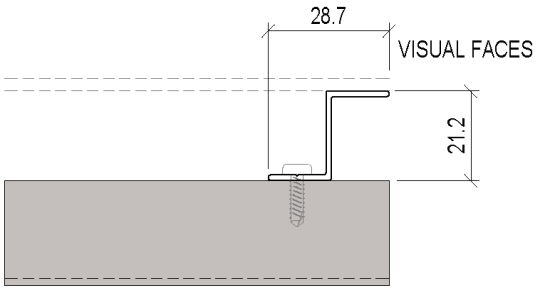
BOARD SUPPORT PROFILE: 1.8mm



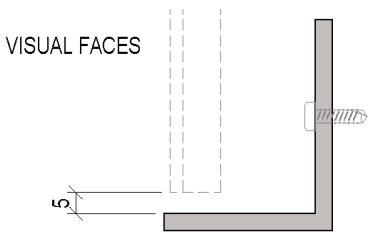
BOARD SUPPORT PROFILE: 3mm



BOARD SUPPORT PROFILE: 23mm

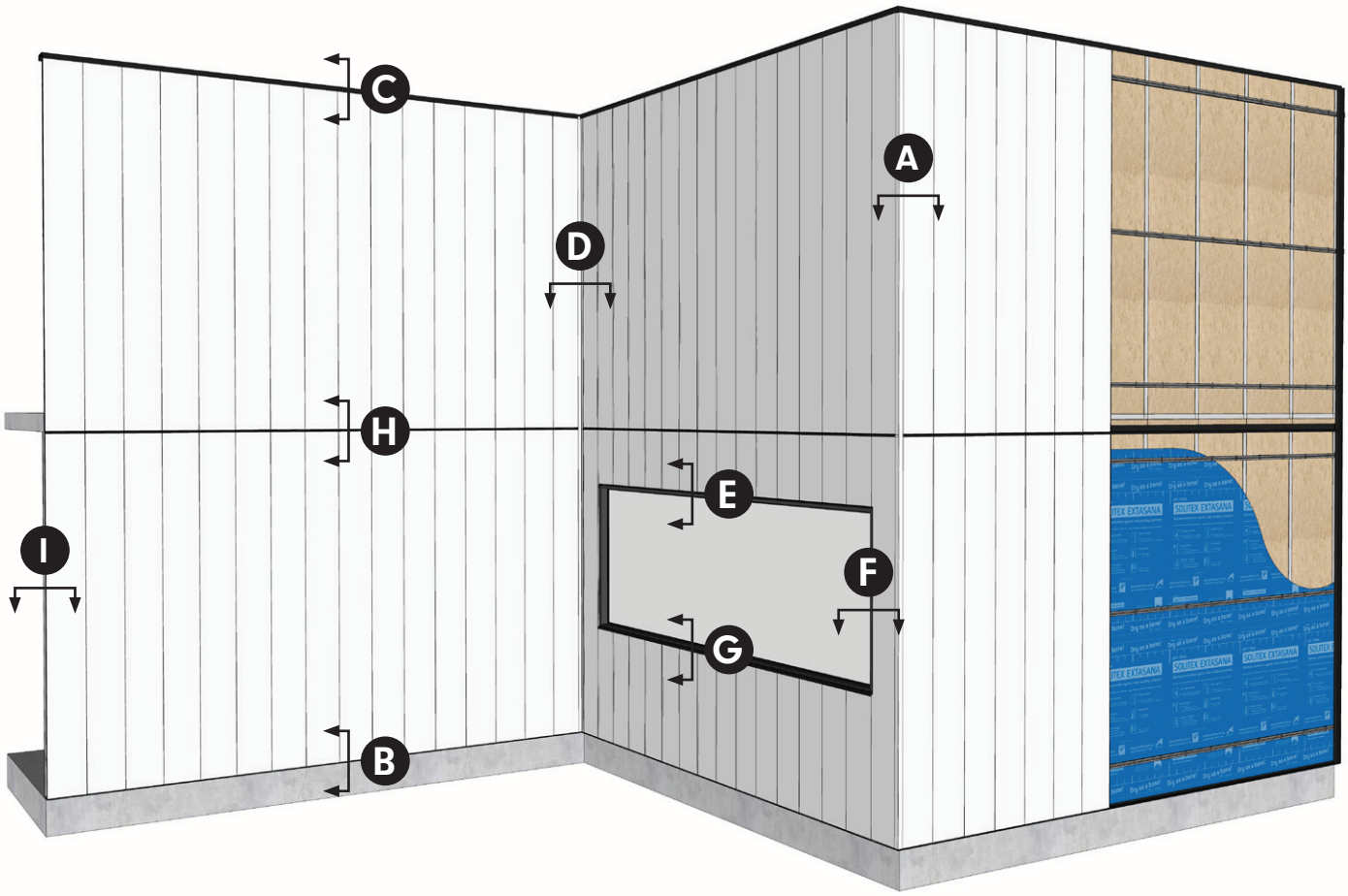


L-PROFILE



BASE L-PROFILE SIZE CHART	
12mm Profiles	40x50x3
23mm Profiles	40x50x3
48mm Profiles	75x75x2.5

Construction Details



A: External Corner Details _____ 22
12mm Vertical Cladding
23mm Flute Vertical Cladding
48mm Block Vertical Cladding - Closed Corner Option
48mm Block Horizontal Cladding - Closed Corner Option

B: Base Detail _____ 24
12mm Vertical
12mm Horizontal

C: Top Capping Detail _____ 25
12mm Vertical

D: Internal Corner Detail _____ 26
12mm Vertical
23mm Vertical Flute
48mm Block 50 Vertical - Closed Internal Corner Option
48mm Block 50 Horizontal - Closed Internal Corner Option

E: Penetration Header Detail _____ 28

F: Penetration Side Detail _____ 28

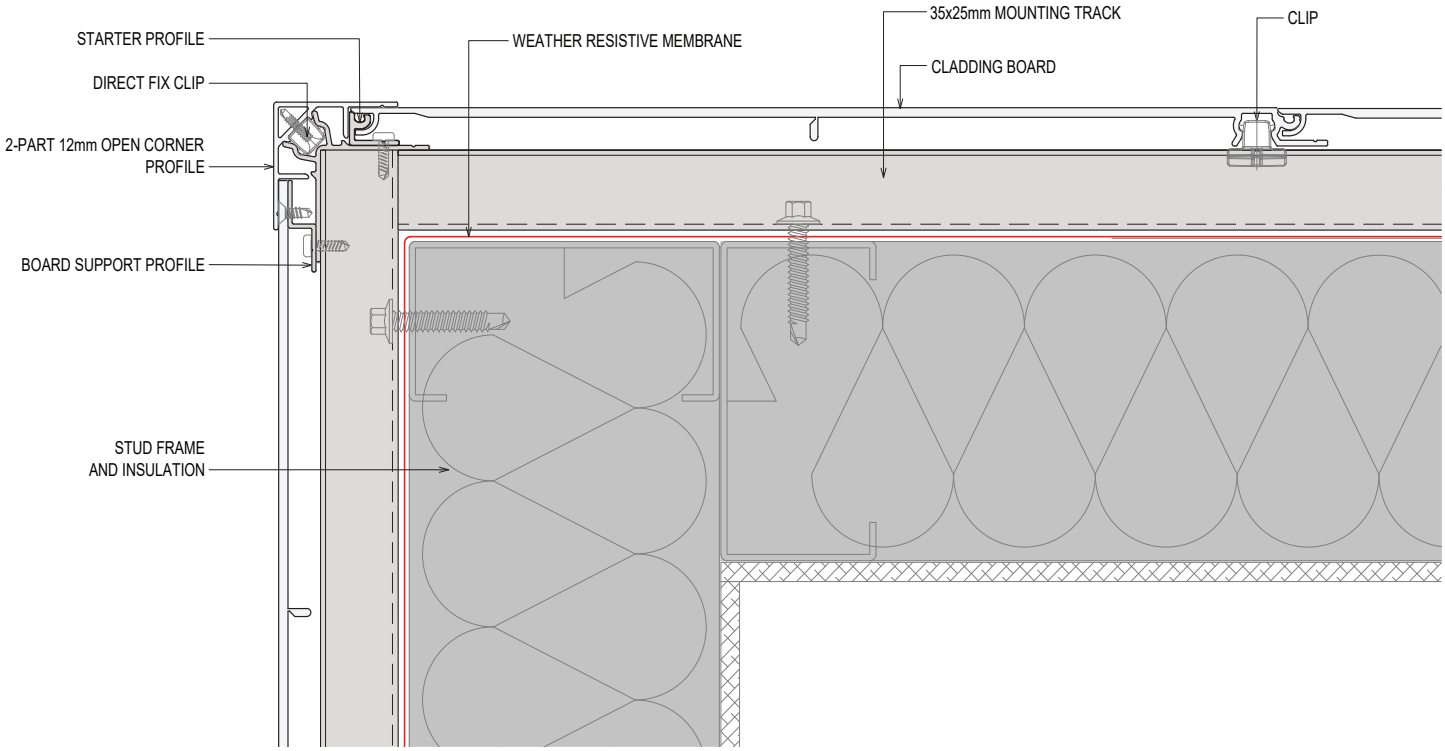
G: Penetration Sill Footer Detail _____ 29

H: Interstory / Board Joint Detail _____ 29

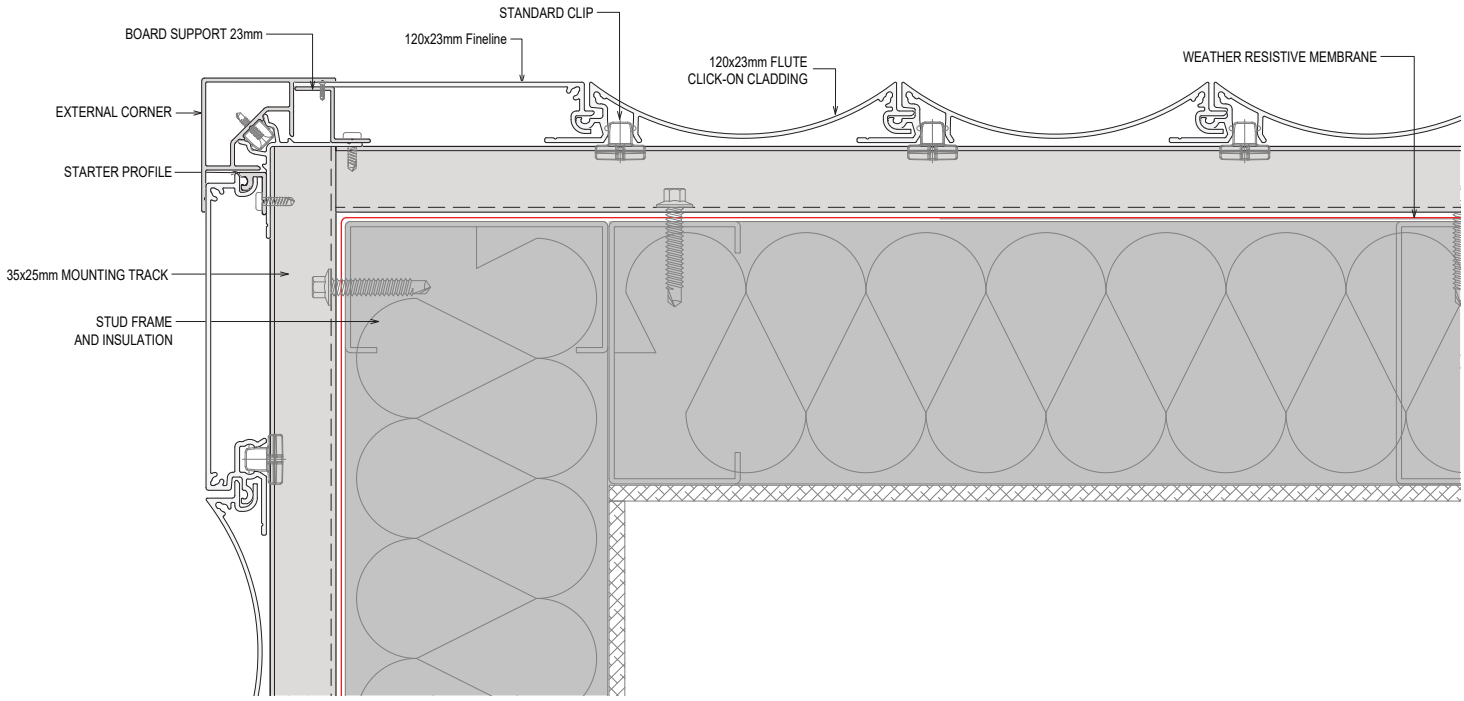
I: End Detail _____ 30
12mm Fineline Vertical
120x23mm Flute Vertical
100x48mm Block Vertical End Detail

A: EXTERNAL CORNER DETAILS

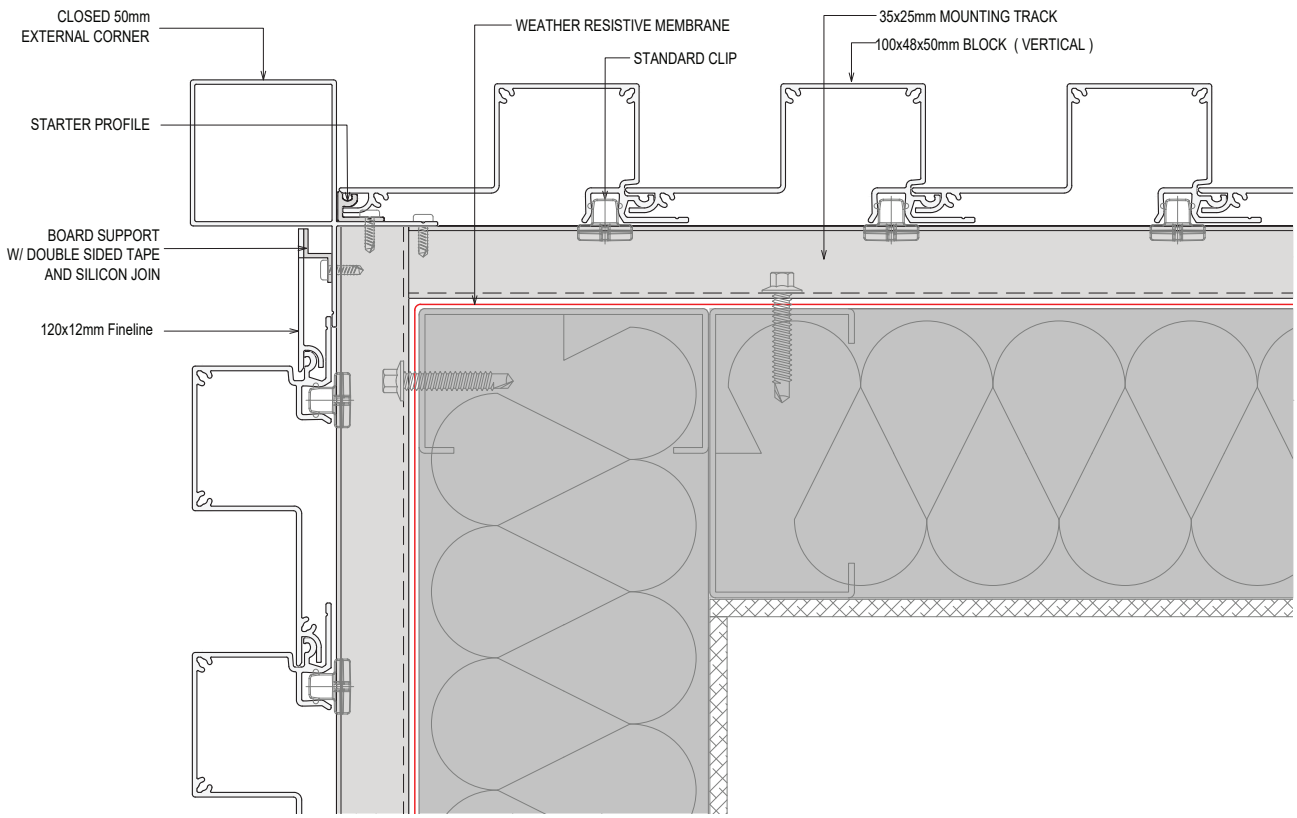
12mm Vertical Cladding



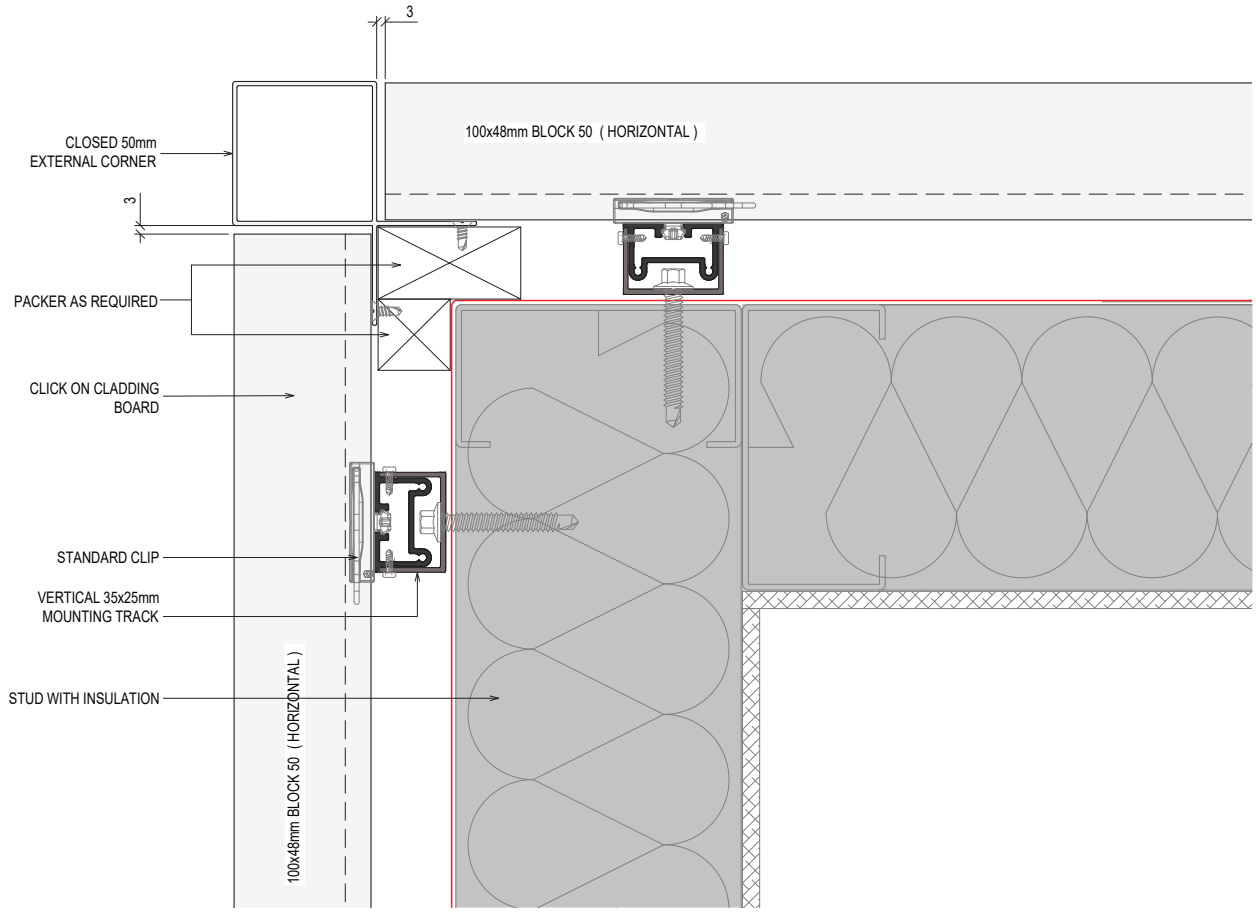
23mm Flute Vertical Cladding



48mm Block Vertical Cladding - Closed Corner Option

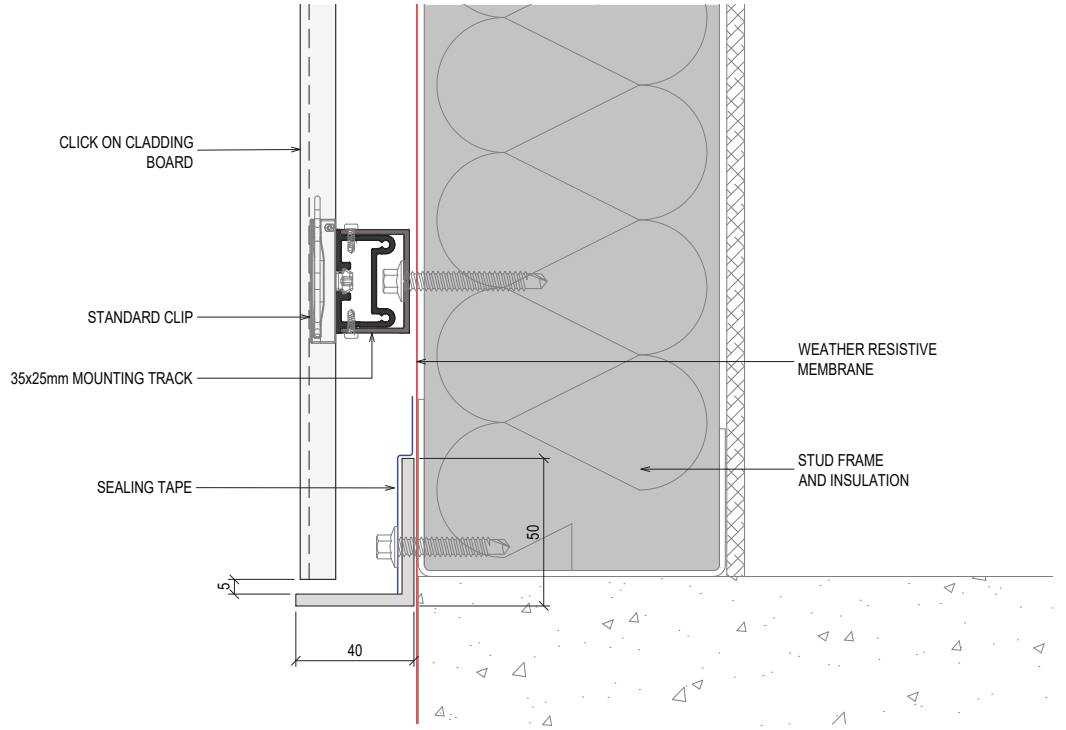


48mm Block Horizontal Cladding - Closed Corner Option

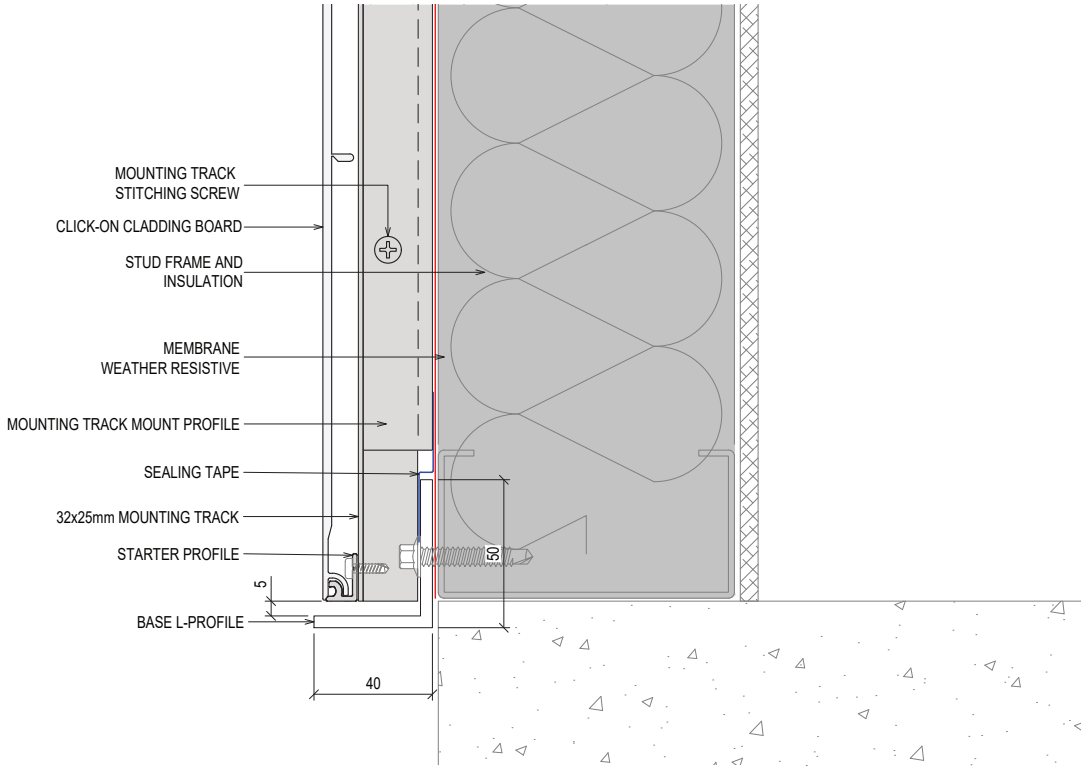


B: BASE DETAIL

12mm Vertical

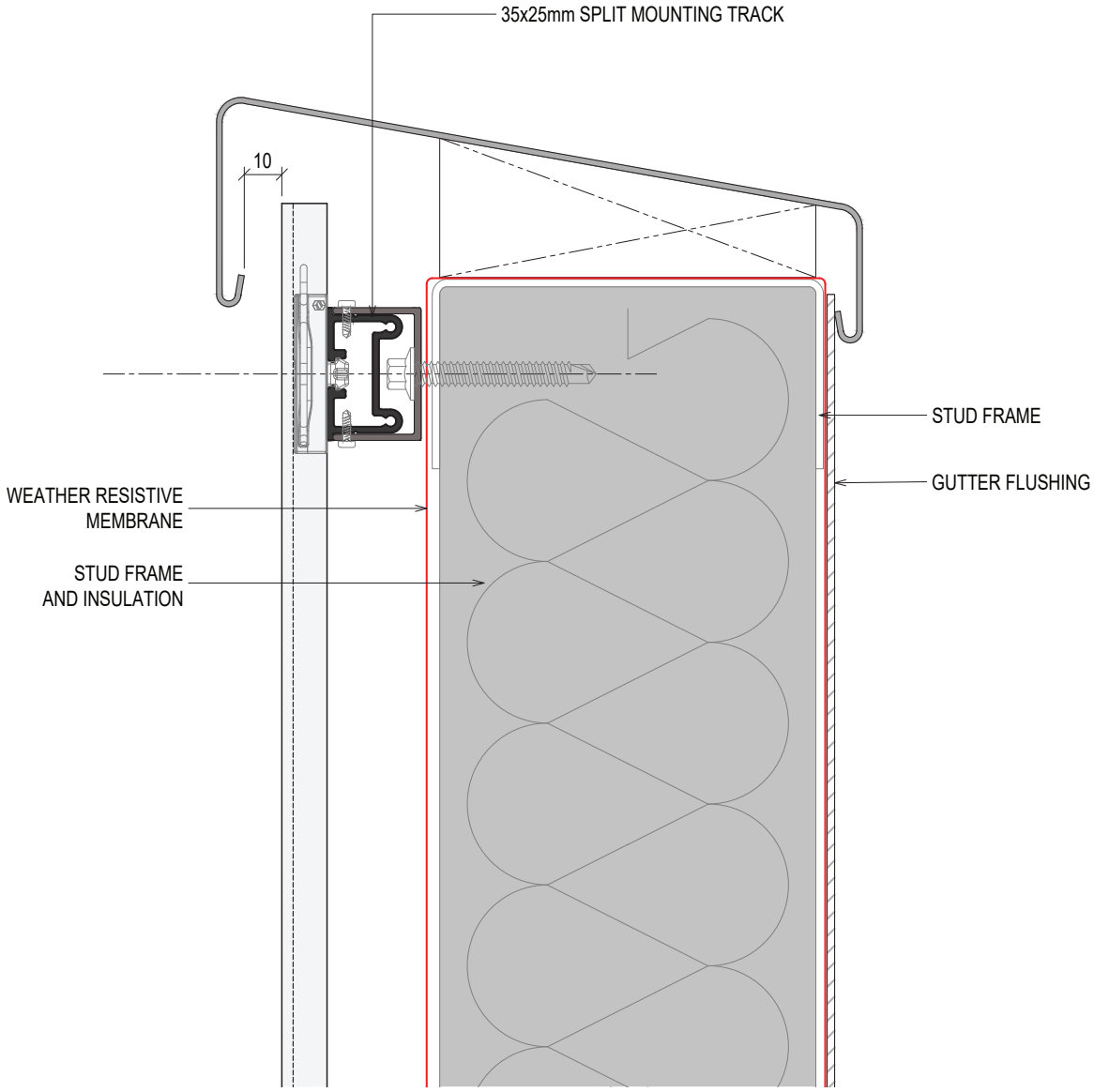


12mm Horizontal



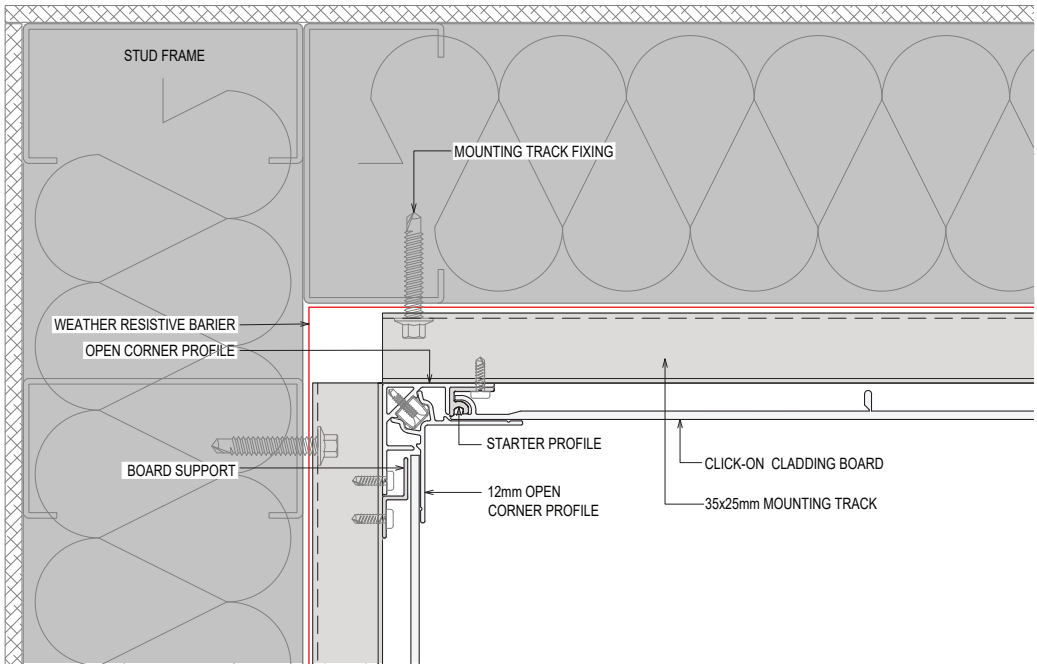
C: TOP CAPPING DETAIL

12mm Vertical

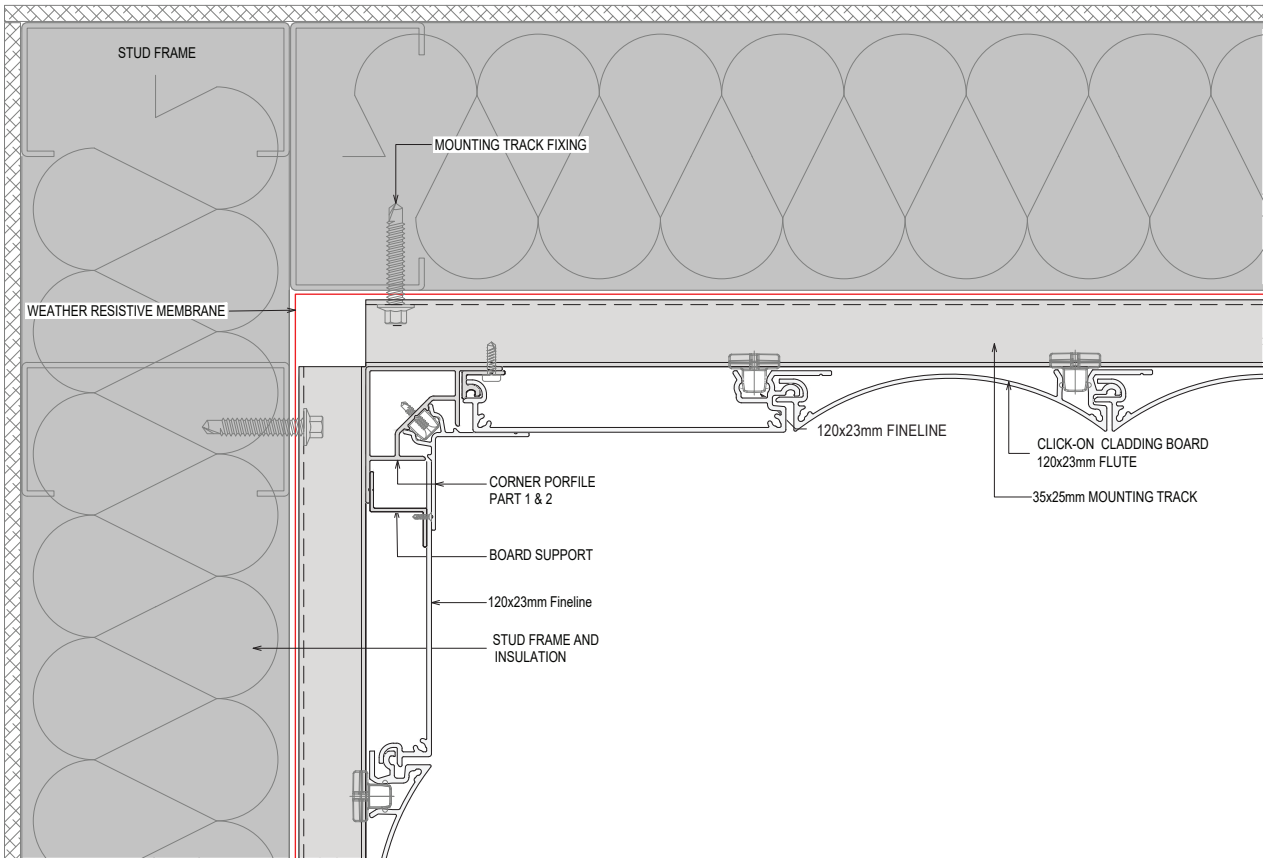


D: INTERNAL CORNER DETAILS

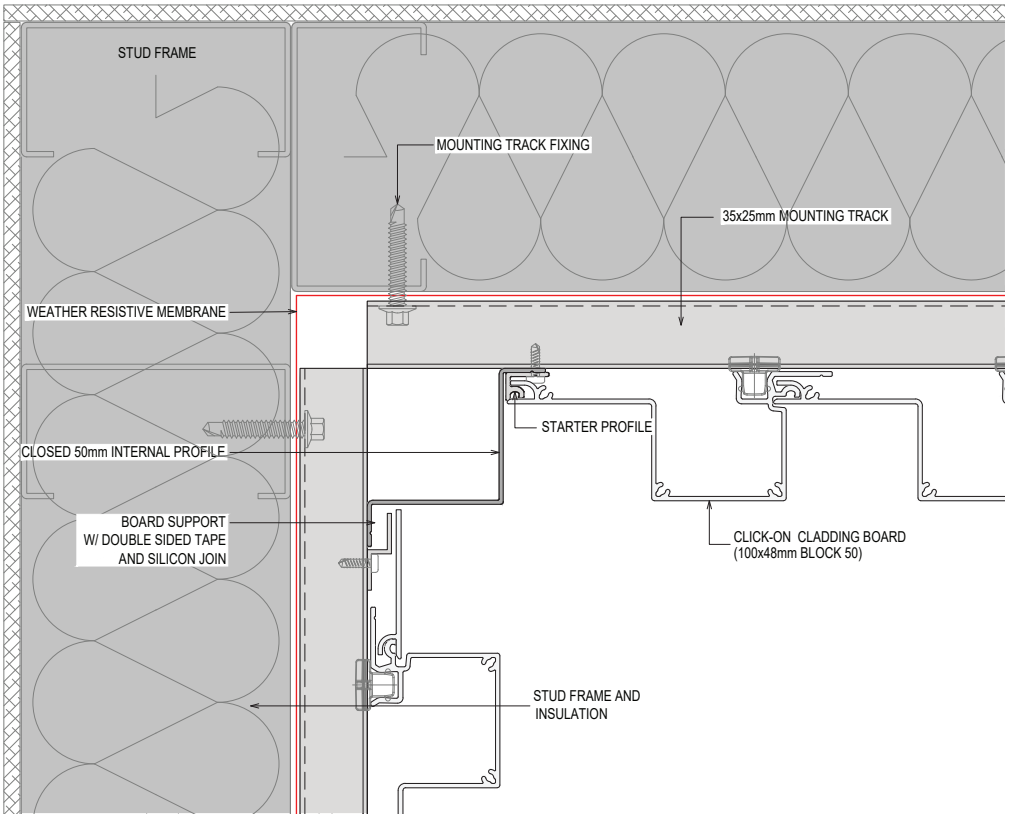
12mm Vertical



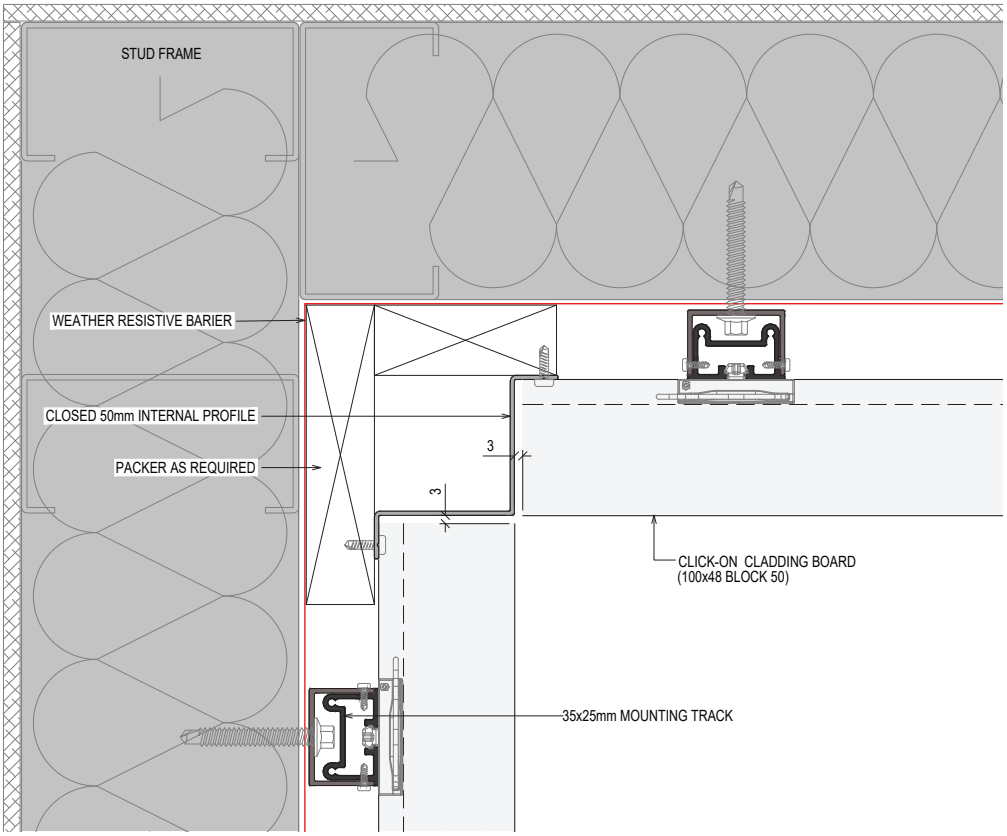
23mm Vertical Flute



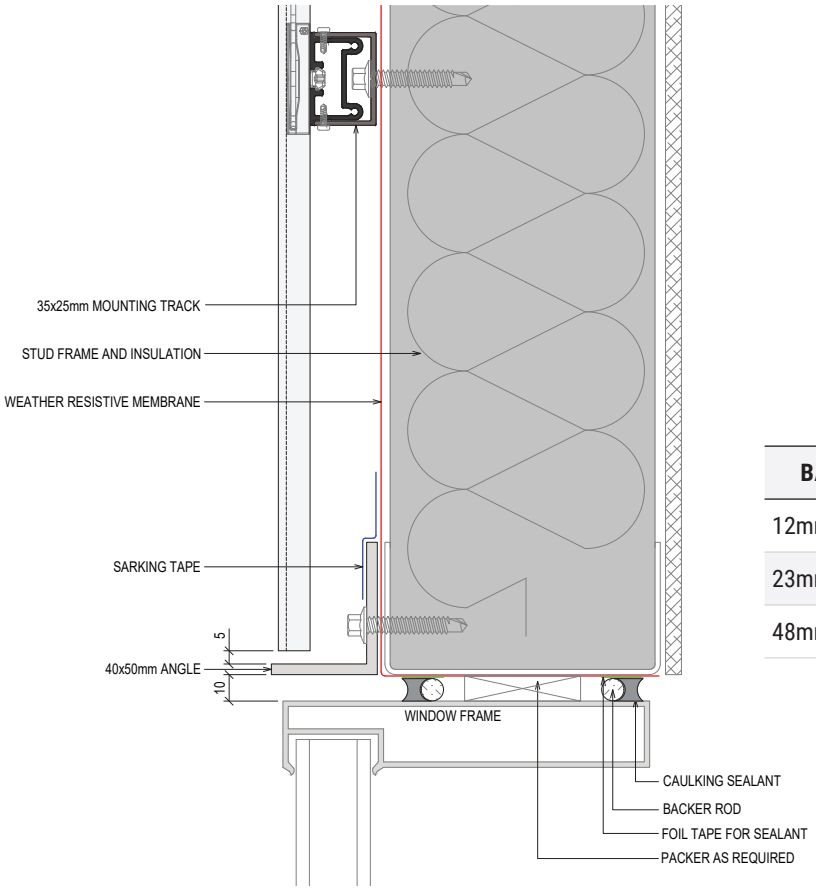
48mm Block 50 Vertical - Closed Internal Corner Option



48mm Block 50 Horizontal - Closed Internal Corner Option

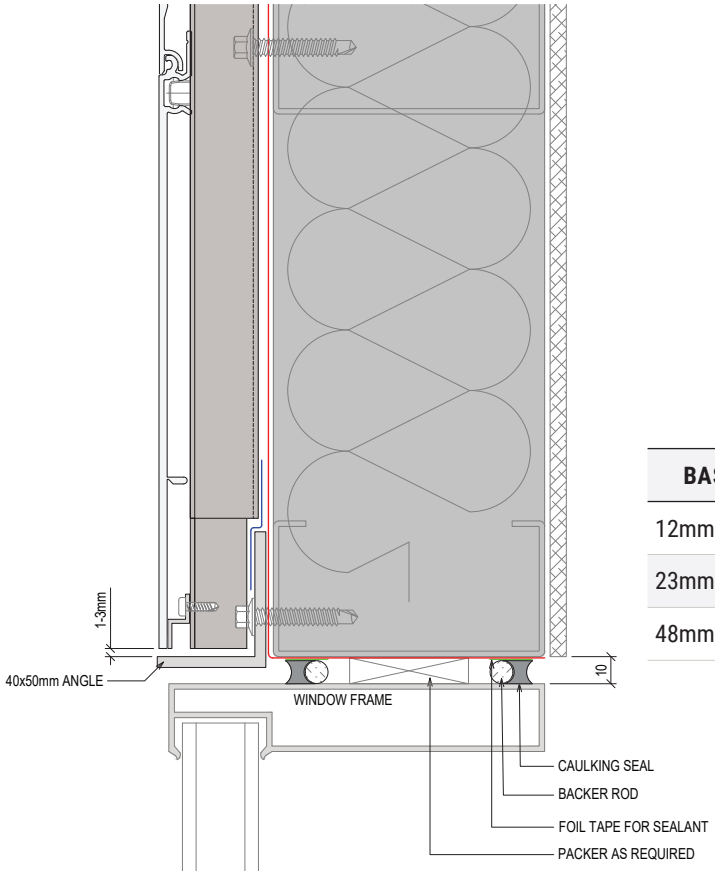


E: PENETRATION HEADER DETAIL



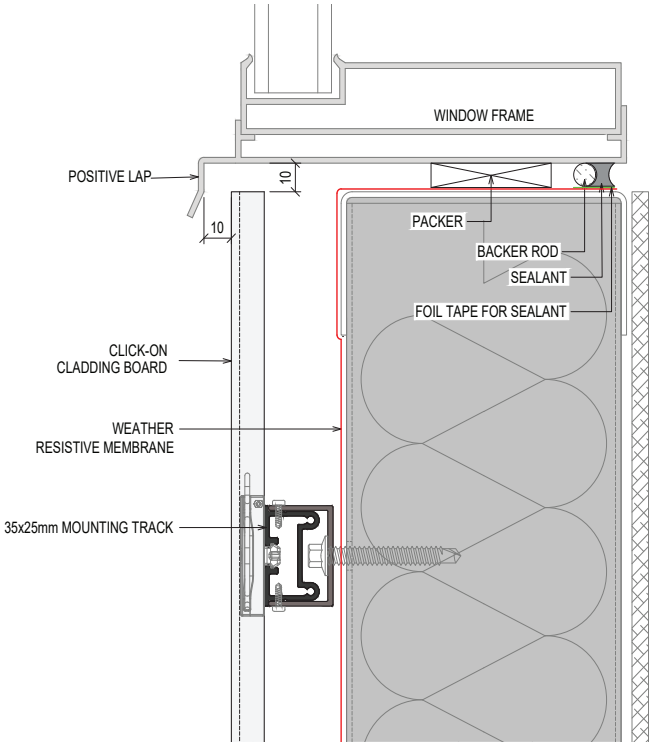
BASE L-PROFILE SIZE CHART	
12mm Profiles	40x50x3
23mm Profiles	40x50x3
48mm Profiles	75x75x2.5

F: PENETRATION SIDE DETAIL

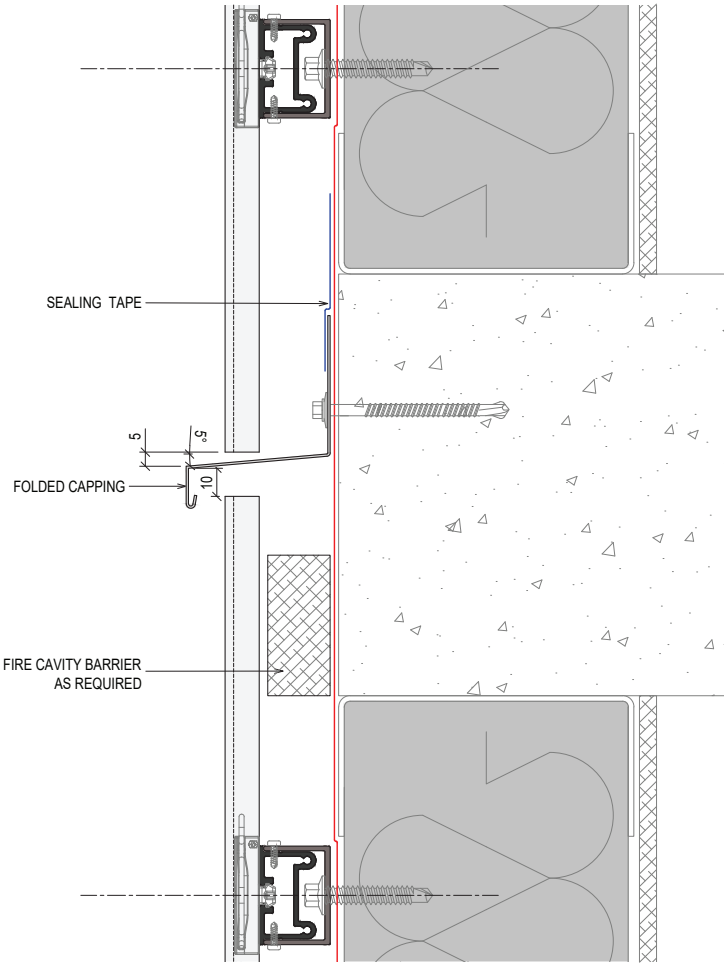


BASE L-PROFILE SIZE CHART	
12mm Profiles	40x50x3
23mm Profiles	40x50x3
48mm Profiles	75x75x2.5

G: PENETRATION SILL FOOTER DETAIL

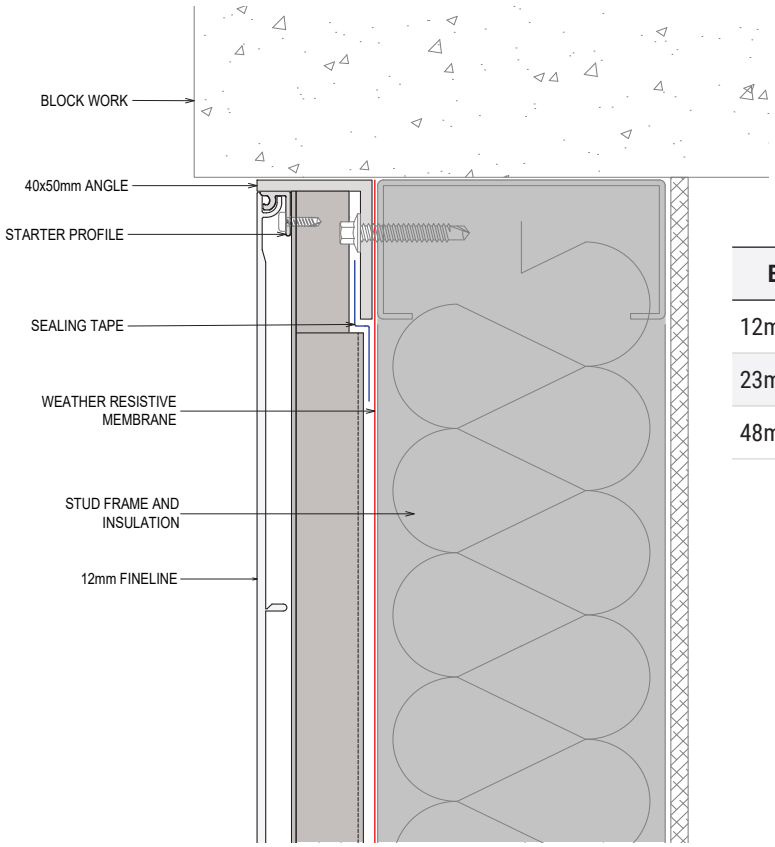


H: INTERSTORY / BOARD JOINT DETAIL



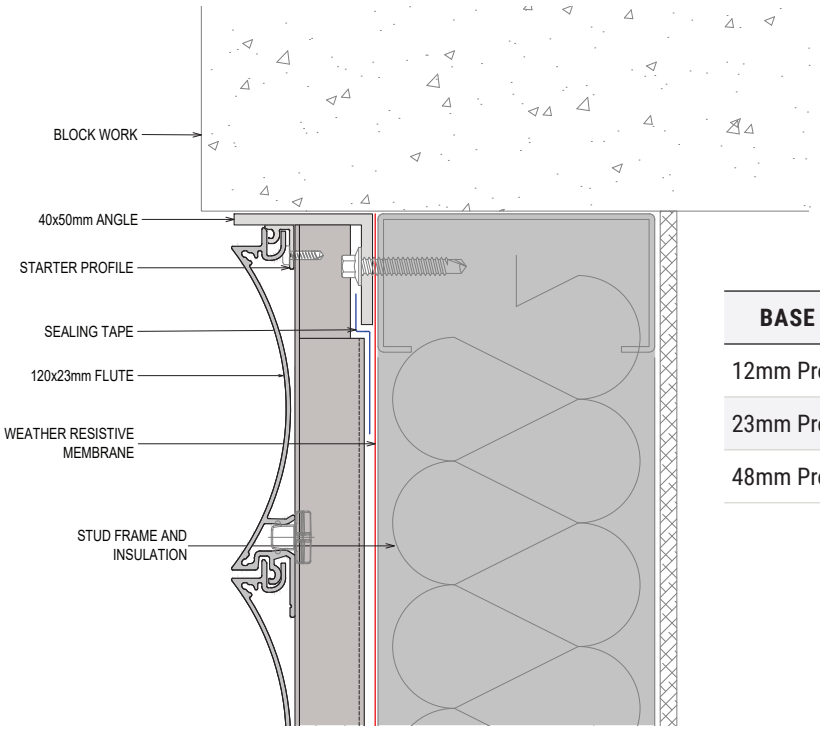
I: END DETAIL

12mm Fineline Vertical



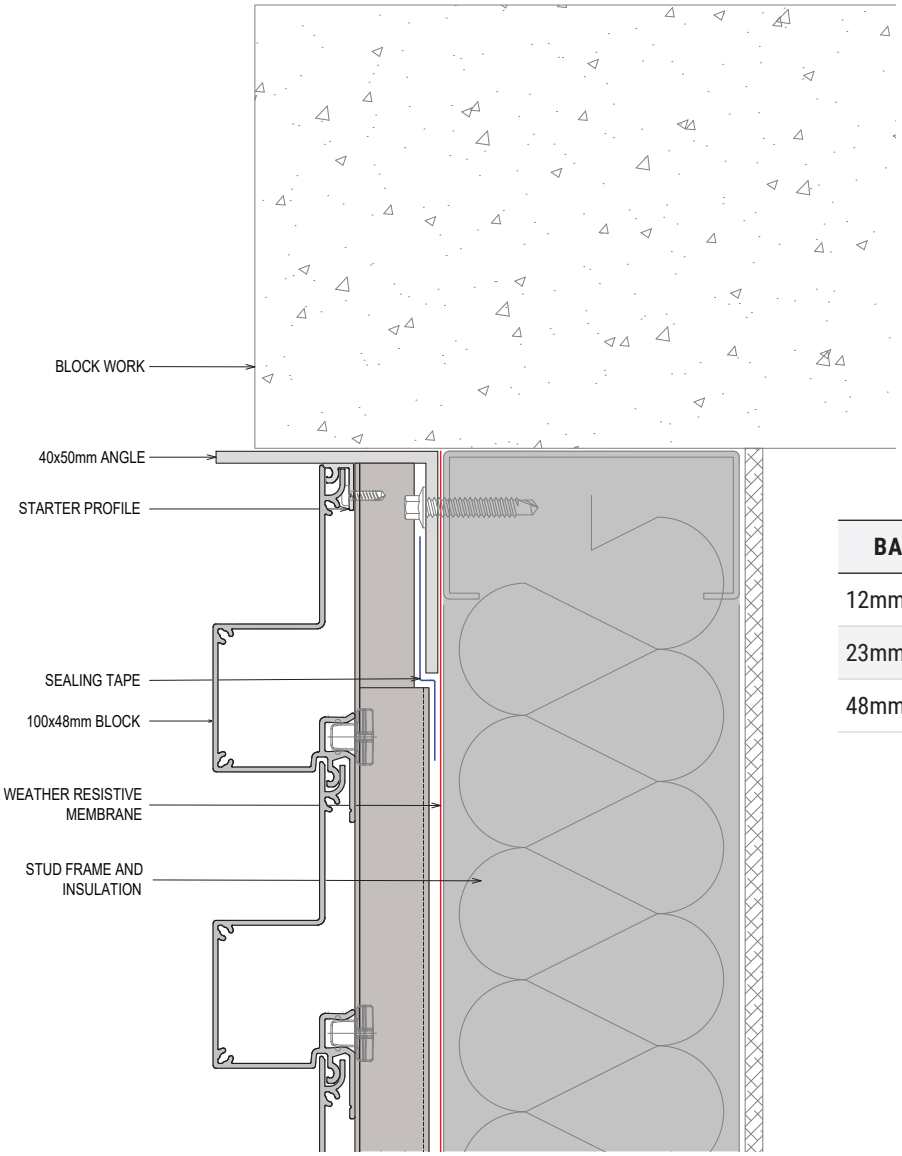
BASE L-PROFILE SIZE CHART	
12mm Profiles	40x50x3
23mm Profiles	40x50x3
48mm Profiles	75x75x2.5

120x23mm Flute Vertical



BASE L-PROFILE SIZE CHART	
12mm Profiles	40x50x3
23mm Profiles	40x50x3
48mm Profiles	75x75x2.5

100x48mm Block Vertical End Detail



BASE L-PROFILE SIZE CHART	
12mm Profiles	40x50x3
23mm Profiles	40x50x3
48mm Profiles	75x75x2.5

Soffit Details

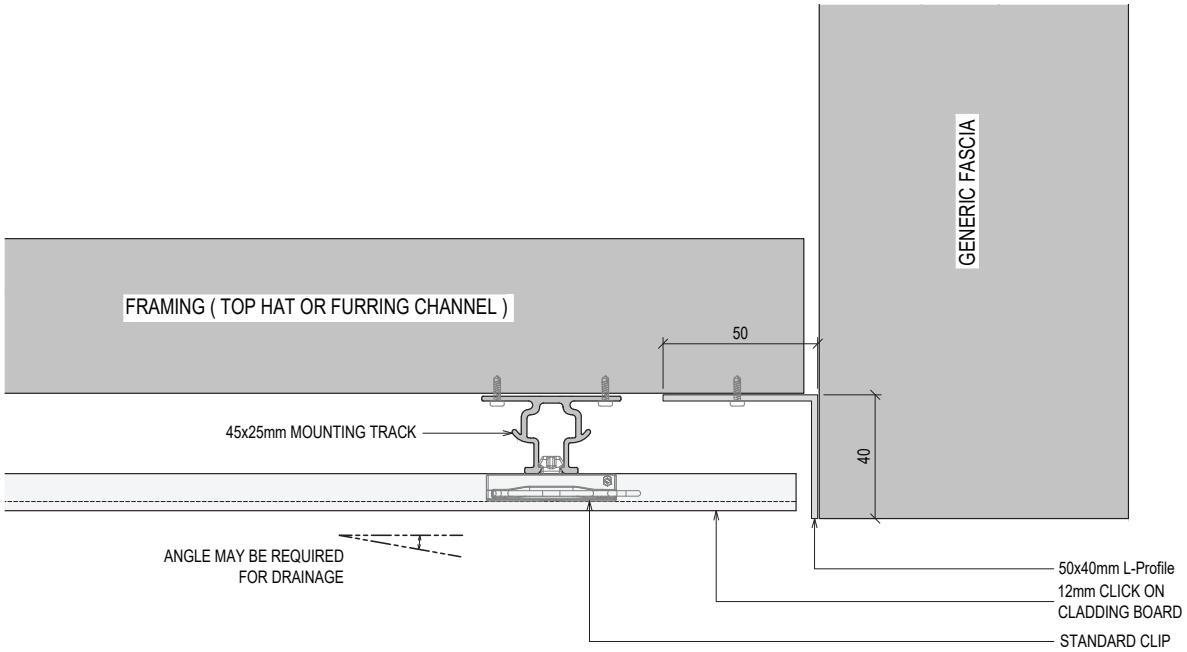
A: Edge Detail **33**

Soffit Perimeter Edge Detail - Straight 40x50 L-Profile

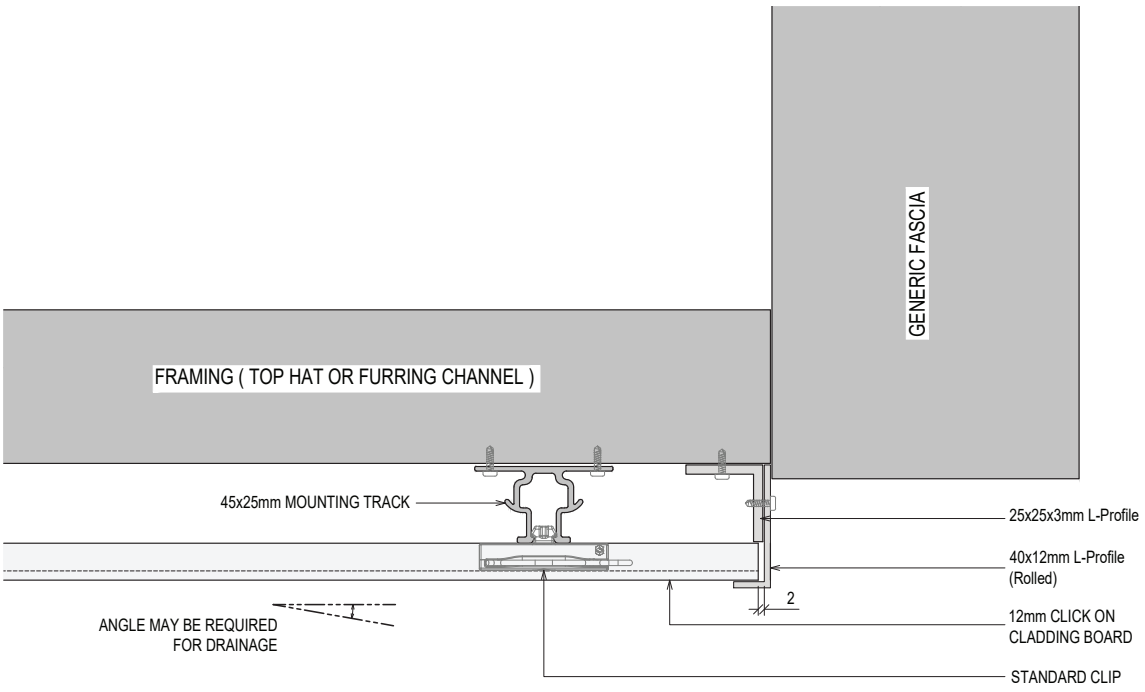
Soffit Perimeter Edge Detail - Curved Trim

Soffit to Facade Transition

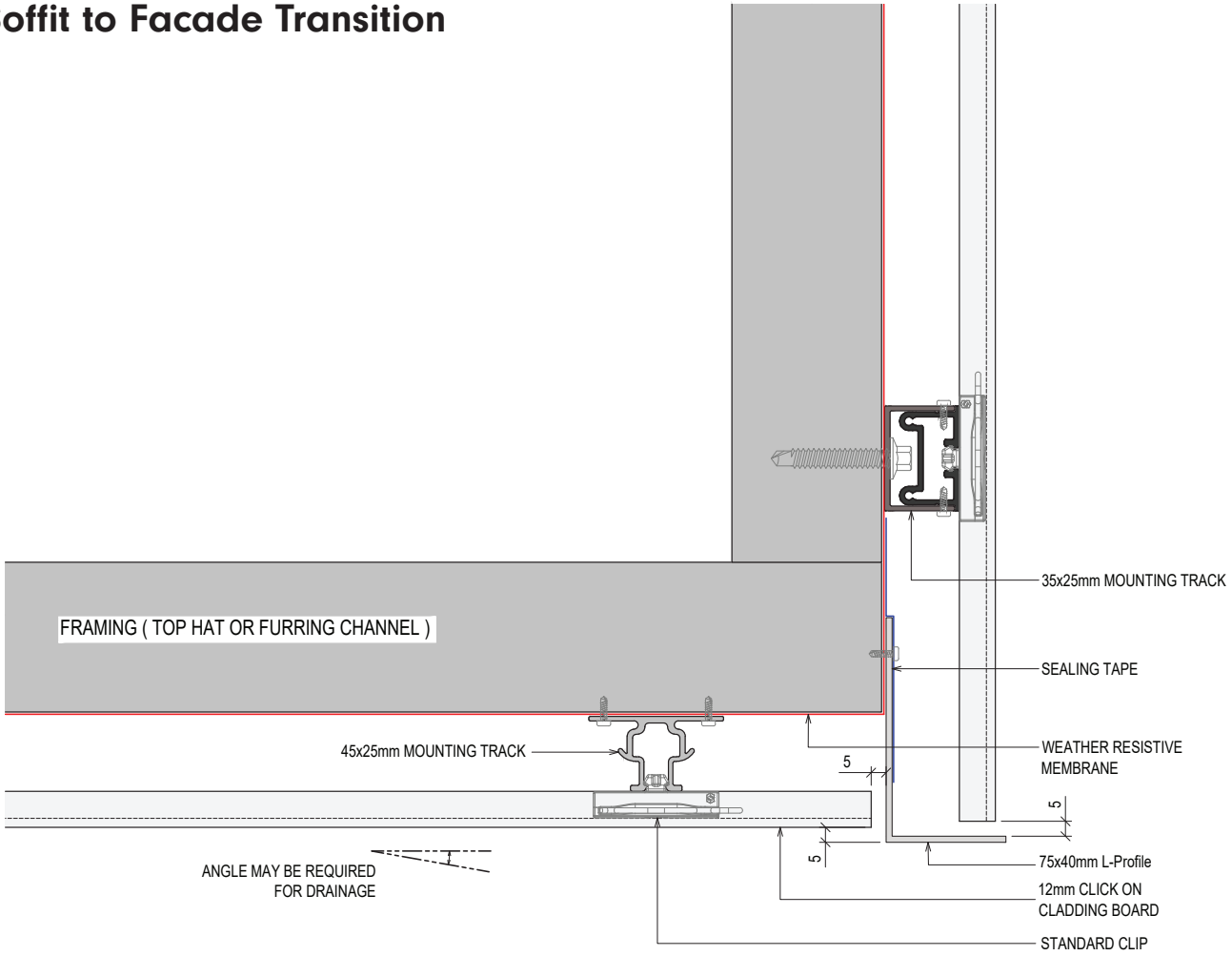
Soffit Perimeter Edge Detail - Straight 40x50 L-Profile



Soffit Perimeter Edge Detail - Curved Trim



Soffit to Facade Transition



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