



QUICK START INSTALLATION GUIDE

Version E.1.1 | 03/2023



Before installing, please ensure you have downloaded the latest version of this installation guide by scanning this code.

www.eva-last.com

A PRODUCT BY

EVA-LAST[®]
INSPIRED BY NATURE, DESIGNED FOR LIFE.



1 Plan installation



2 Install furring and wall structure.



3 Install a reference clip strip.



4 Level and install remaining clip strips against the reference point.



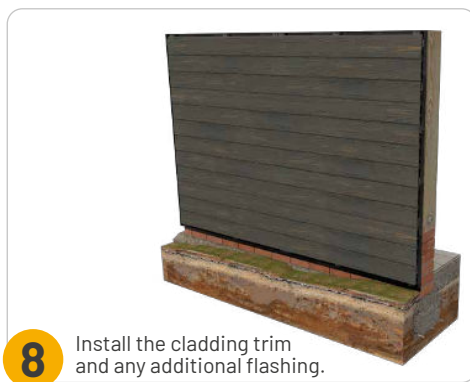
5 Install trim adaptors and flashing.



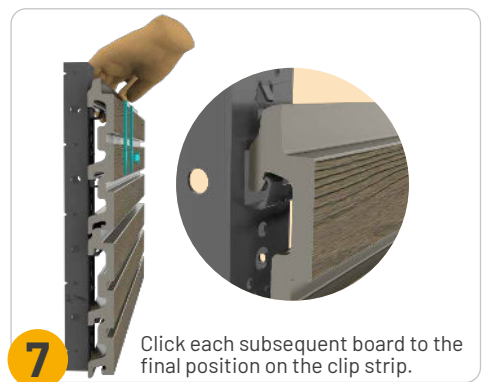
6 Install the first board starting from the bottom working up.



9 Seal and finish the installation.



8 Install the cladding trim and any additional flashing.

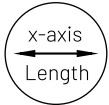
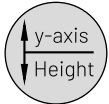


7 Click each subsequent board to the final position on the clip strip.

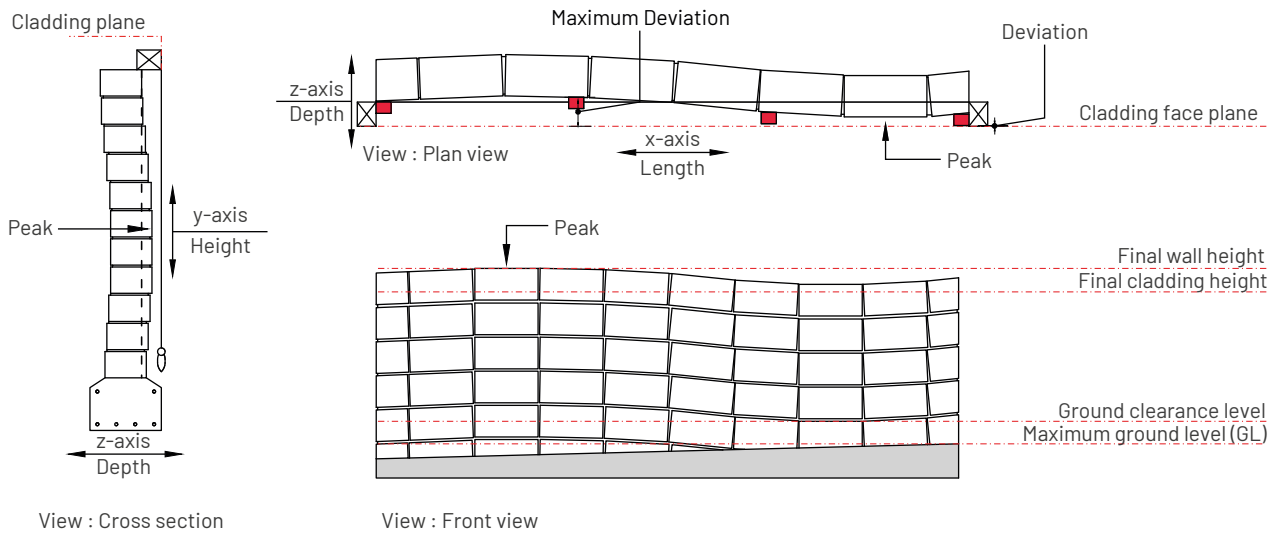
TYPICAL VISTA CLAD INSTALLATION PROCESS

Thank you for choosing VistaClad cladding products. This quick start guide aims to provide the essential information required to install the VistaClad system. It is assumed that the user has an understanding of general building and cladding practices, and is aware of any applicable legislation requirements. A competent professional is required to design the application. For further information regarding installation, please see the full installation guide. For additional material safety and handling information, please refer to the applicable MSDS.

STEP 1 Determine if the wall has any deviations



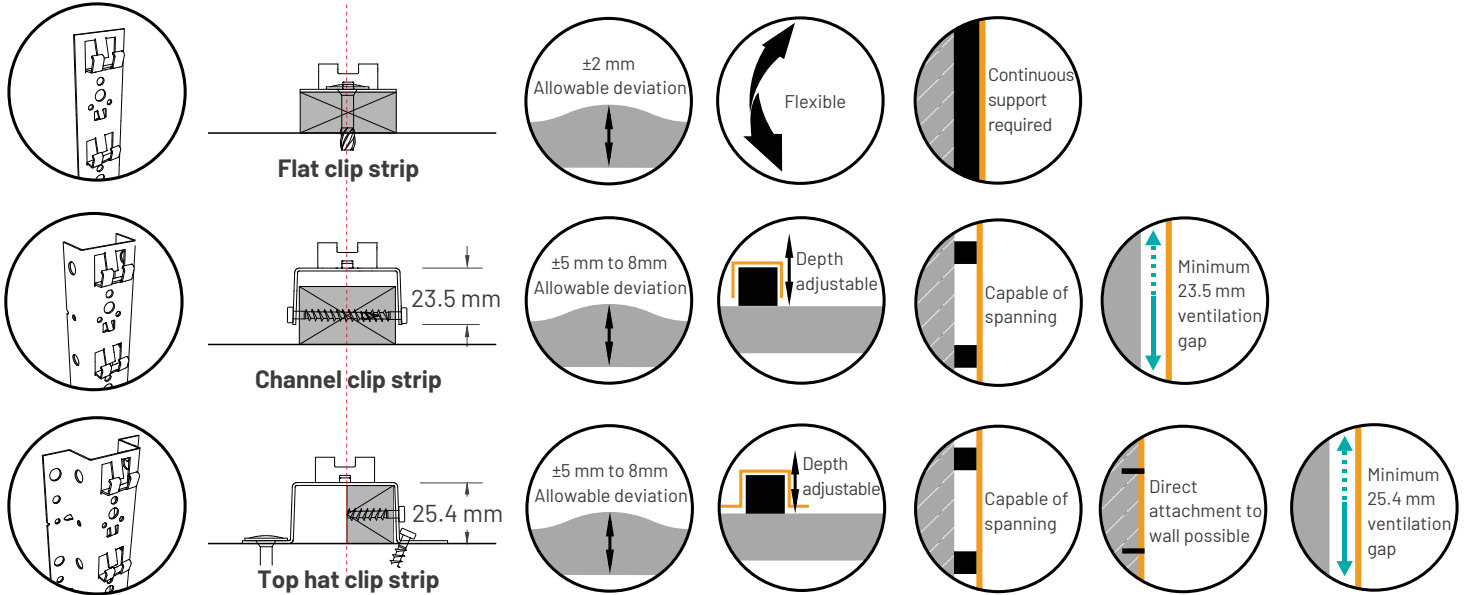
Before proceeding with construction, it is essential to confirm that the wall is structurally suitable, assess existing conditions, and determine any deviations in all three planes.



STEP 2 Choose an appropriate clip strip for the application



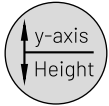
The VistaClad system provides three clip strip options. The existing wall conditions may influence the choice in strip.



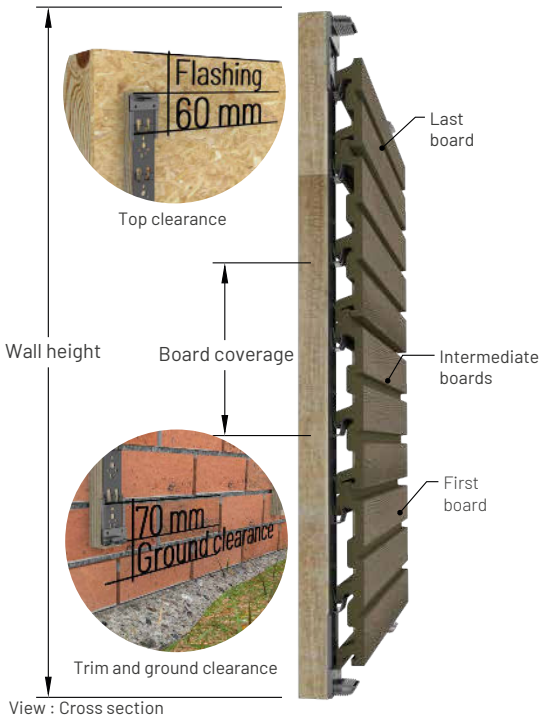
STEP 3 Choose a board and material technology

When selecting a material technology for the cladding system, it is crucial to consider how the material technology type, colour, and profile length will affect the final board length after installation. Board length is affected by temperatures on-site and will grow (expand) or shrink (contract) in relation to site temperatures. Trim can be used to conceal the change in length, resulting from these temperature changes. It is important to provide enough space to accommodate board expansion and ensure that the board will not contract past the trim. If expansion gap sizes are a concern, choose lighter coloured profiles and materials technologies with lower expansion coefficients. Alternatively consider shortening board length and using more butt joints within your planned board layout (See step 5). If the backside of the boards is exposed to UV rays, use a backing board or film. For guidance on how to calculate and account for expansion and contraction, consult the full installation guide.

STEP 4 Determine the number of boards



To establish the number of boards required for the cladding system, remove any additional clearances and trim edges from the full height of the wall before dividing this by the board coverage. Two typical board sizes are available 3" (requiring 76.3 mm coverage) and 6" (requiring 152.6 mm coverage).



1 Calculate the board quantity (BQ) = $\frac{\text{Wall height} - \text{Flashing and trim gap} - \text{Ground clearance}}{\text{Board coverage (Typically 76.3 or 152.6)}}$

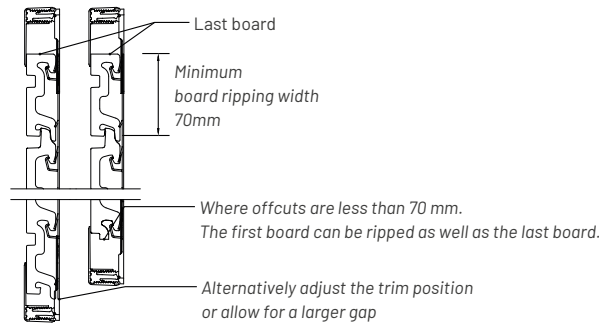
Example
 $BQ = (3000 \text{ Height} - 60 - 70 - 50) / 152.6$
 $BQ = 2820 / 152.6$
 $BQ = 18.47$ Boards over the height.

2 Where the quantity of boards is not a whole number, a offcut will be required.
 Offcut = $(BQ - \text{Whole boards}) * \text{Board coverage}$.

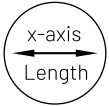
Example
 Offcut = $(18.47 - 18) * 152.6$
 Offcut = $0.47 * 152.6$
 Offcut = 71.72 mm.

3 Adjusting ripping size

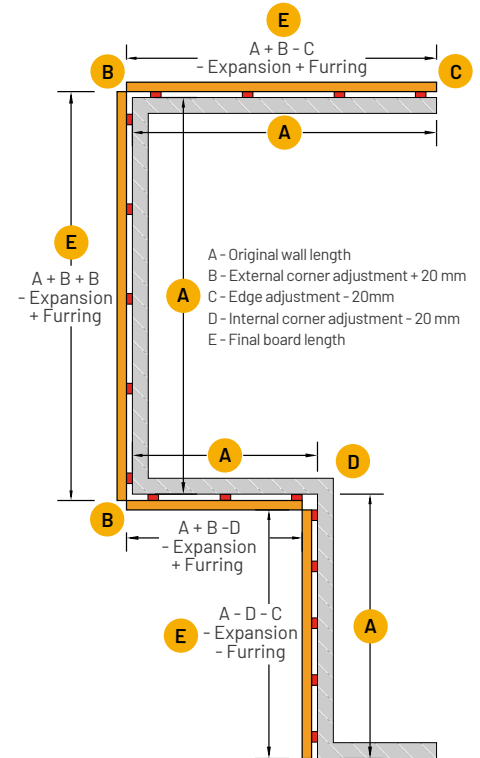
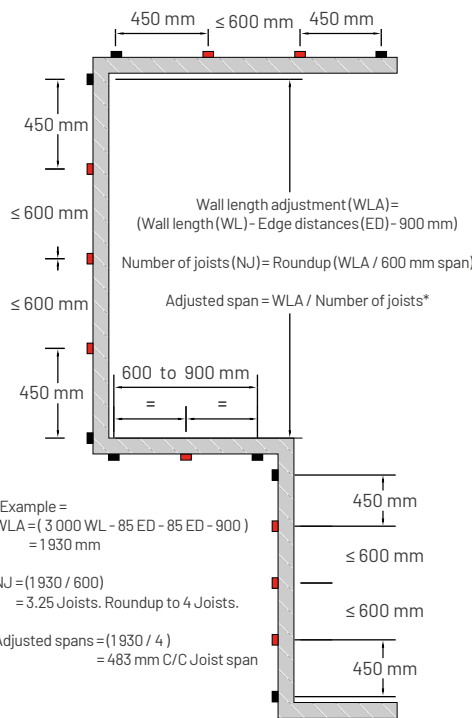
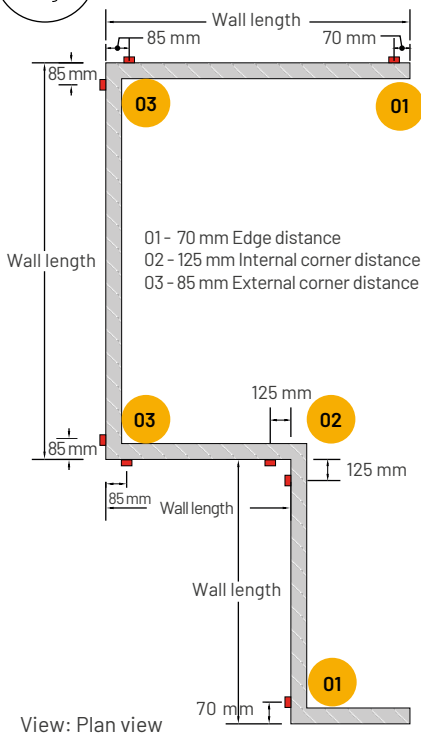
If the offcut is greater than the minimum requirement of 70 mm, the last board can be ripped. Anything less than half of a full board will require additional adjustment as illustrated below.



STEP 5 Planning board layout



Once the wall has been assessed, the appropriate clip chosen and the number of boards calculated along the height of the wall, the horizontal laying pattern can be addressed.



Note: The VistaClad system requires a minimum width of 200 mm.

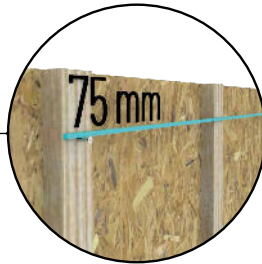
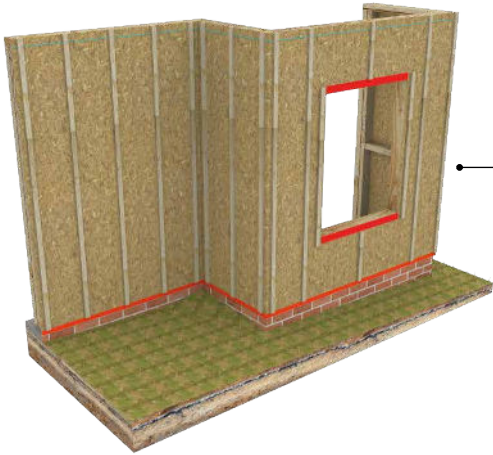
Identify the crucial dimensions of wall and plan the edge distances.

Plan the clip strip locations at appropriate spans. Typical spans are 600 mm and typical edge spans are 450 mm.

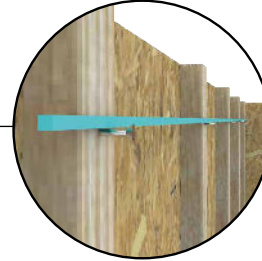
Plan the final lengths for boards. Boards may extend past the wall or require additional space.

STEP 2a Horizontal installation

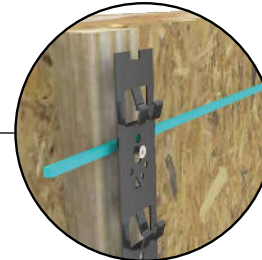
1 Install furring. Ensuring that the furring is plumb, level in all three planes and at the spans needed to support the clip strips.



2 Run a builders line between the two outermost points, 75 mm (Remember to account for any additional space for flashing) from the top line of the cladding installation



3 Fasten small screws with heads smaller than 8mm along the builders line at every furring strip.



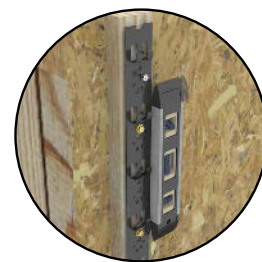
4 Hang each clip after cutting the clip strip to length from the screw from the largest top most hole. As indicated in the image.

Note: Treat any exposed or cut steel edges before installation.

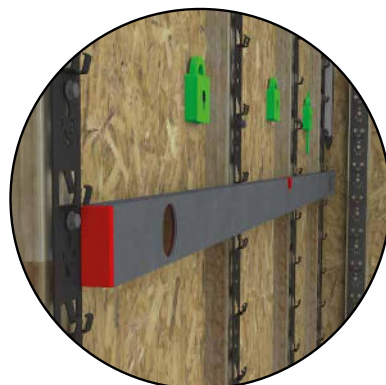
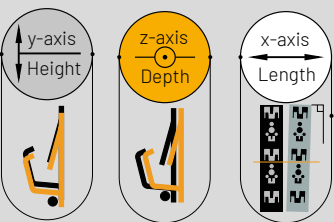
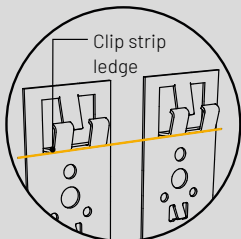


5 "Lock" the first clip strip into place by fastening the strip in at least three locations at the required spans. This clip strip will become the reference point for all other clips strips.

Note: Once all clip strips have been fastened into place and are level, return to fasten the clips at the appropriate spans required for installation.



Tip: Use a torpedo level to check that the clip strip is plumb. The furring or intermediate structural parts should provide a level surface for the clip strip.

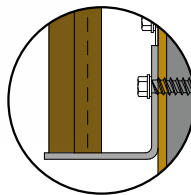
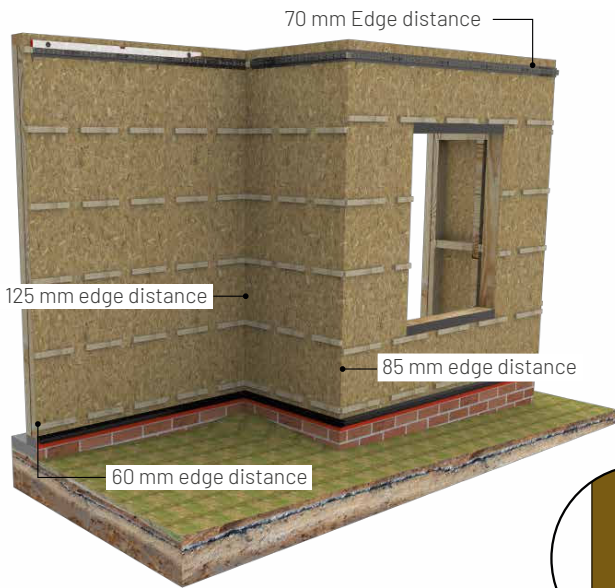


6 Level the clip strips (as illustrated) in all 3 planes. The clip strips ledge provides the most convenient and accurate point of reference.

Tip: Use a straight edge and level at least three times the span, to level the clip strips.

Note: Once all clip strips have been fastened into place and are level, return to fasten the clips at the appropriate spans required for the installation.

STEP 2b Vertical installation



1 Install furring. Ensuring that the furring is plumb, level in all three planes and at the spans needed to support the clip strips. Provide gaps for ventilation and drainage.

Note: Do not use flat strips for vertical applications. Top hat clip strips are best suited to the application and require no additional furring.

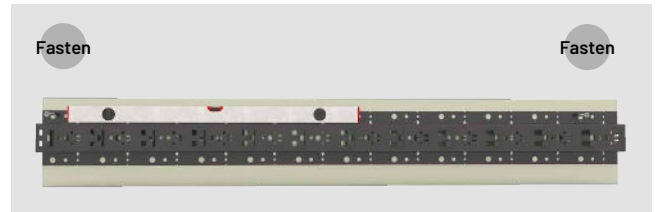
2 Vertically laid boards require additional support as they will slide down.

Install a structural element with drainage holes (Perforated angle). Allow for 1500 to 2500 mm²/m perforations with holes no larger than 9.5 mm.

Structural elements can be 2.0* mm thick for steel and 2.5*mm thick for aluminium. Width and height would depend on the clip and board combination.

*Thickness is based on the assumptions that the structural element will be supporting a board load of 16 kg/m². (board length is a maximum of 5.8m)

3 Fasten each horizontal strip at the top two most extreme edges ensuring that they are level.



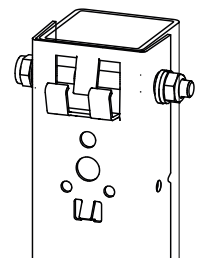
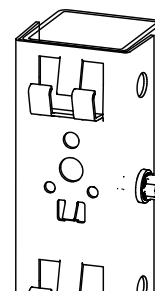
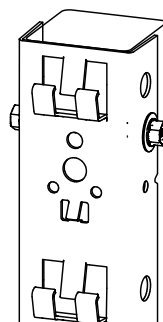
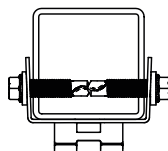
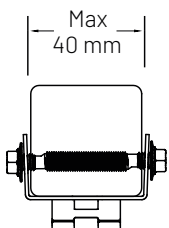
4 As per step 6 of the horizontal installation, use levels or plumb lines to ensure that the ledges are aligned.

5 Install additional perforated angles where vertical boards may require support, such as window lintels and butt joints.

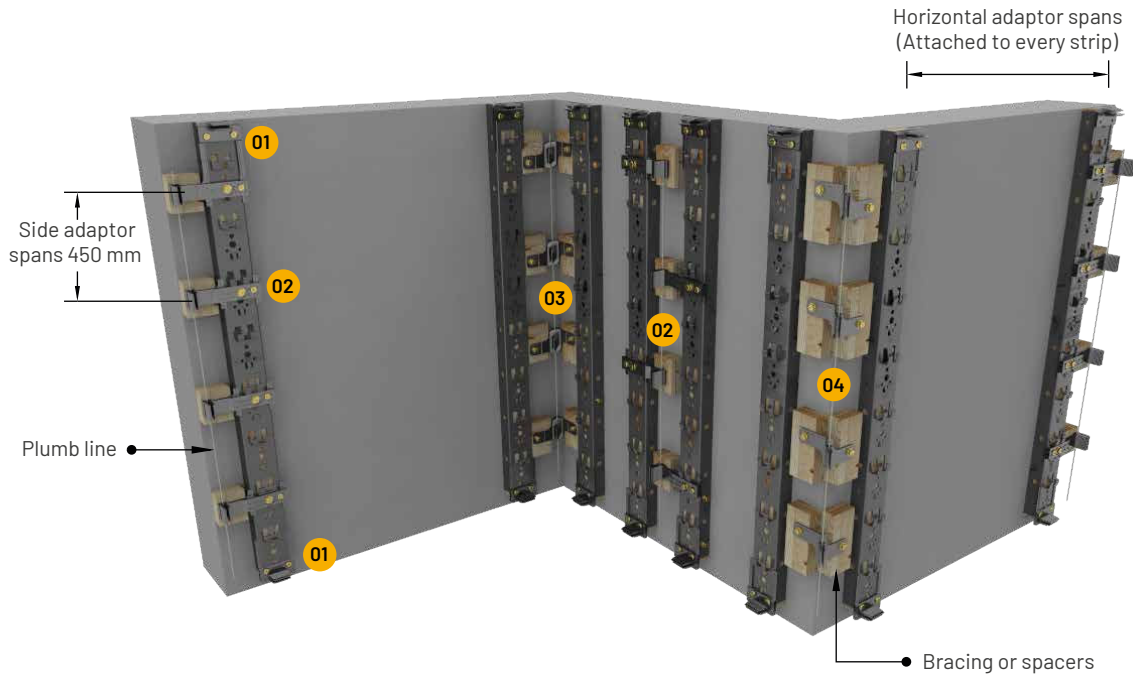
Note: Once all clip strips have been locked into place and are level, return to fasten the clips at the appropriate spans required for the installation

STEP 2c Channel and top hat clip strips

Both channel clip strips and top hat clip strips are rigid members that are capable of spanning. Additional fastening points have been provided along the side faces of the channels and top hats to allow for wall deviations as indicated on page 1. The size of these members allow for fastening or clipping over 1.5" or 38 mm structural members and composite battens. When fastening from the side ensure that the edge distances within the structure are adequate.



VistaClad has a trim adaptor and aluminium trim available for a quick and neat installation. Adaptors fastened to the clip strip remove the need for fastening through composite profiles. Trim adaptors must be installed before boards.

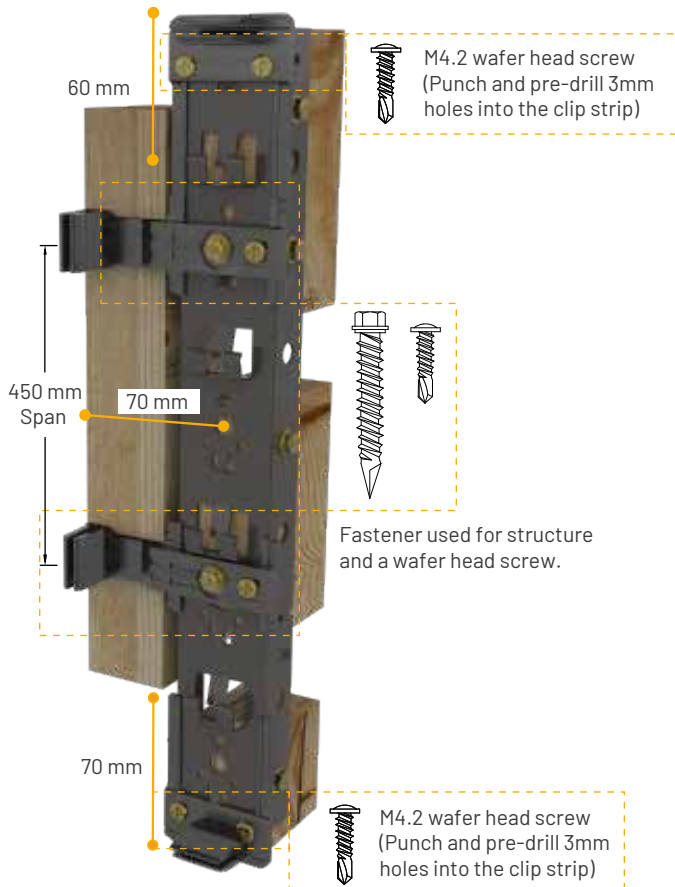


Note:
Ensure that there is support behind the clip strip when fastening adaptors.

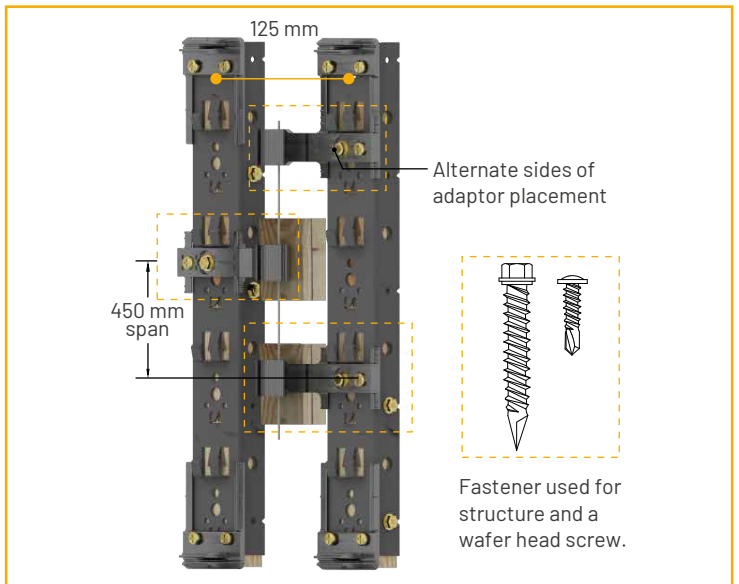
VistaClad trim and adaptors are used to cover board edges and additional flashing may need to be installed at this phase.
See the flashing section on page 12 before continuing.

- 01 - Top and bottom adaptor
- 02 - Side adaptor
- 03 - Internal corner adaptor
- 04 - External corner adaptor

Side adaptor



Butt joins with side adaptor



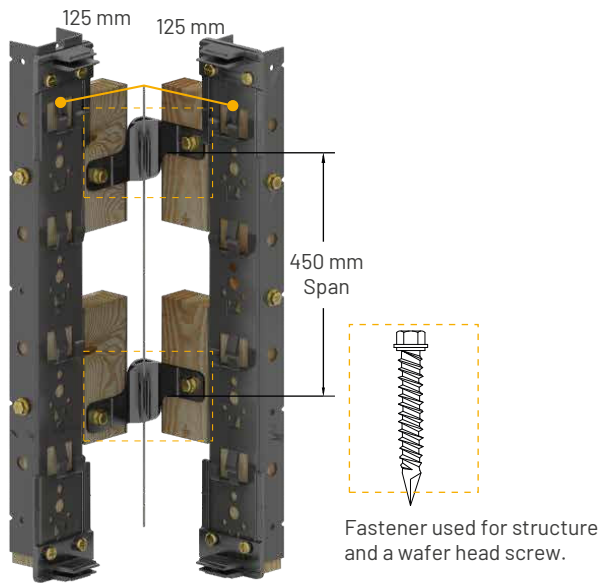
Double up on adaptors around trim joins.



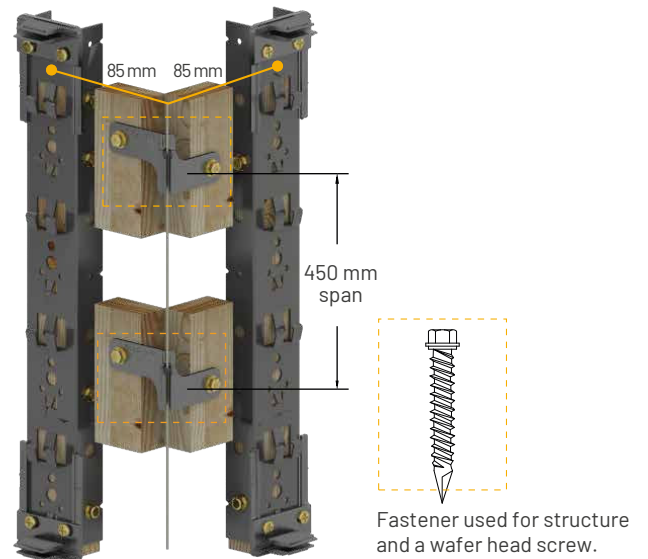
Side adaptors

Top and bottom adaptor

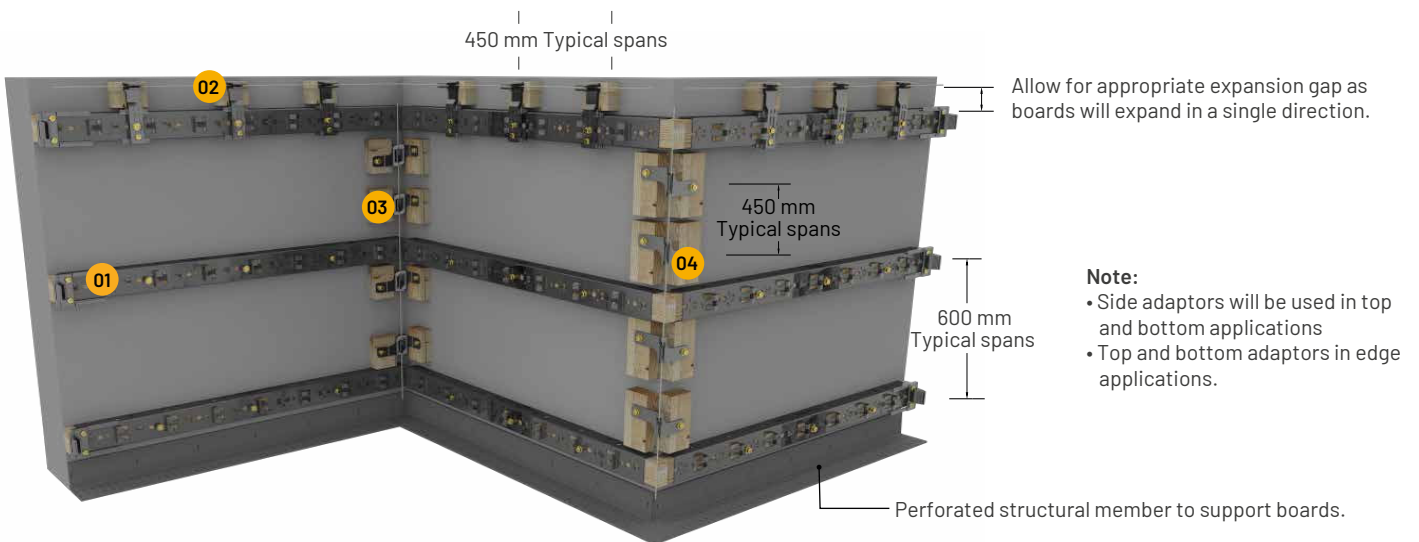
Internal corner adaptor



External corner adaptor

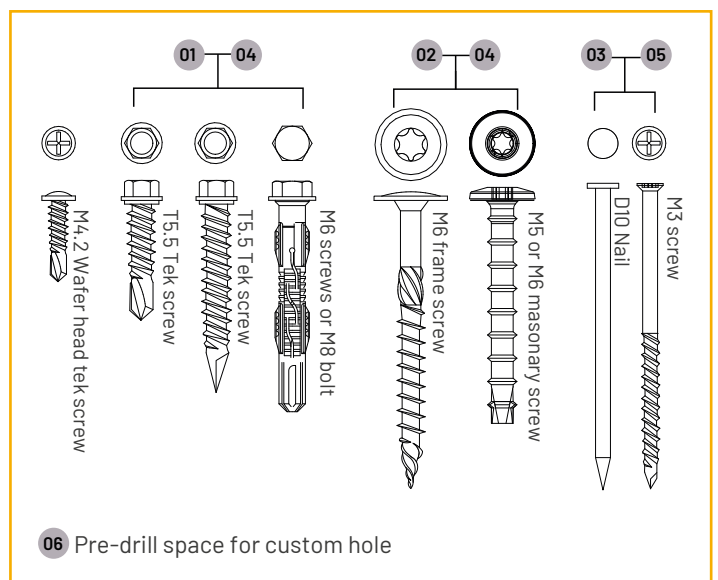
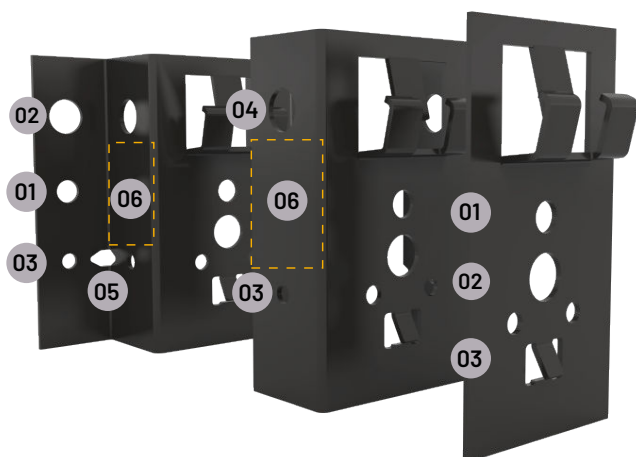


VistaClad trim adaptors in vertical installations



VistaClad clip strip fasteners

VistaClad clip strips provide several fastening opportunities for various types and sizes of screws.



STEP 4a Horizontal installation

Align the first board with the clip

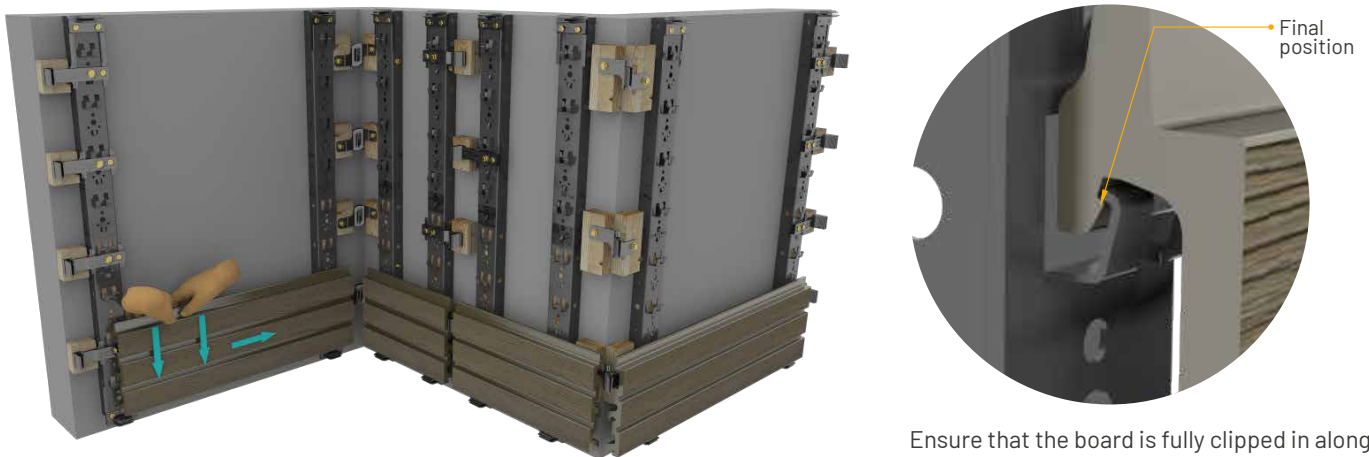
Fully supporting the full length of the board. Place the board above the clip. Aligning the feet with the clip hooks.



Note: At lengths of larger than 4 spans, two people should install the board

Press down

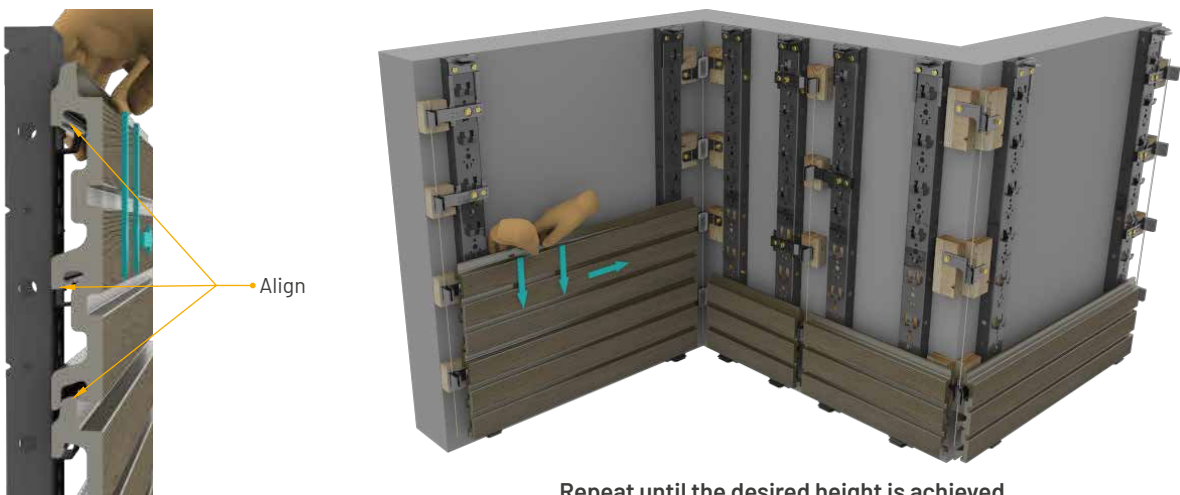
Start at one side of the board and push or lightly knock the top of the board with a soft mallet into the board's final position.



Ensure that the board is fully clipped in along its full length before starting the next board

Align the next board and press down

Align the board against the tongue of the previously installed board and placing the board against the clip. Press down from one side of the board to the other.



Repeat until the desired height is achieved

STEP 4b Vertical installation**Align the first board with the clip**

In vertical applications boards over 3 m may be prone to buckling before insertion. A minimum of two installers are recommended. Ensure that the top of the board is fully supported before attempting to insert the board.

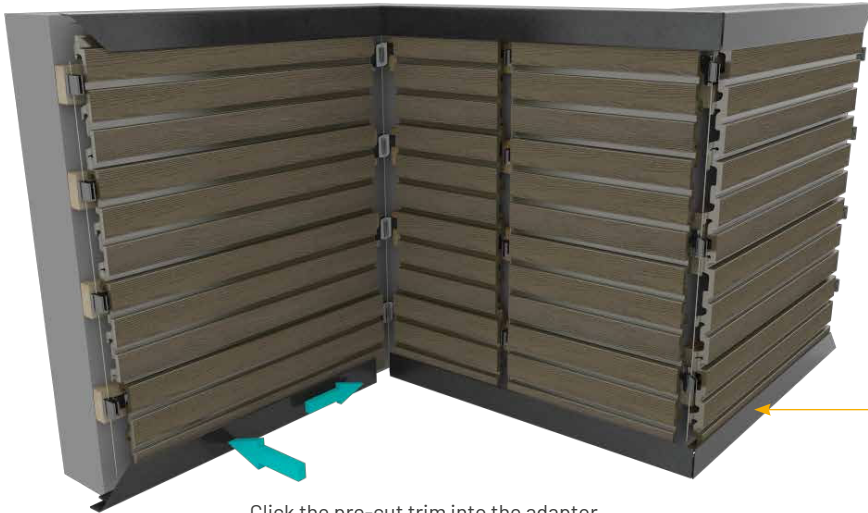
**Press down**

Start from the top of the board, push or lightly knock the top of the board with a soft mallet into the board's final position.

**Press down**

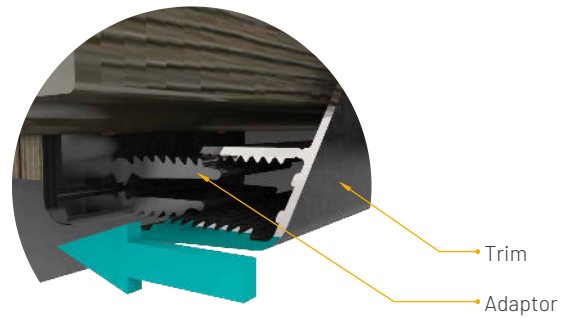
In vertical applications, provide enough clearance in internal corners to insert the next set of boards. This can be achieved by inserting boards from a single direction.





Click the pre-cut trim into the adaptor and adjust it to the correct position*

*Note: Adjust the trim to the correct position before fully engaging the adaptor

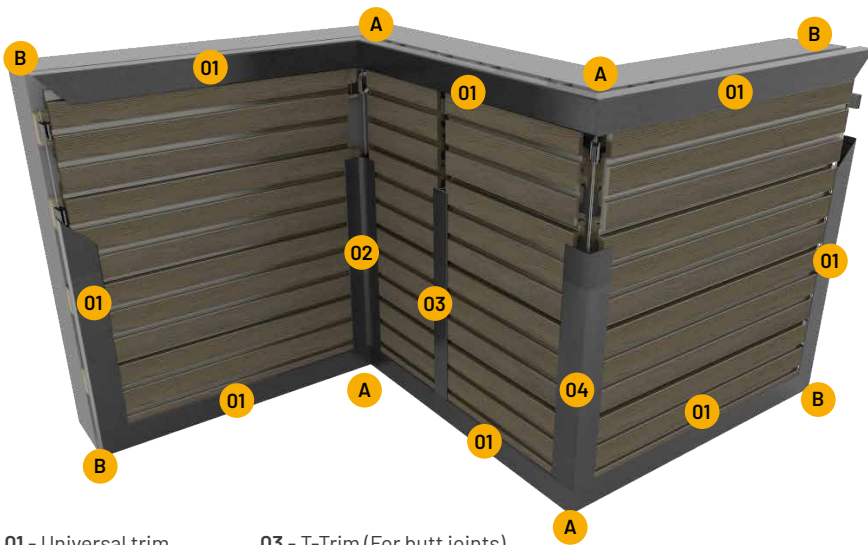


Click the trim in over the adaptor until they can go no further.

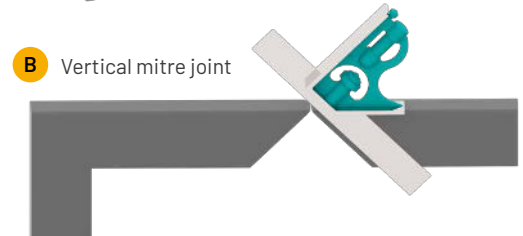
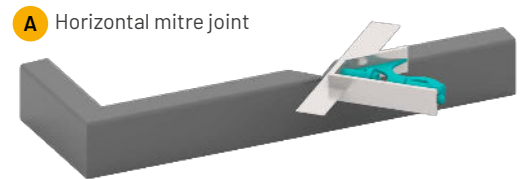
Apply a 5 mm Ø bead of Caulking material along the trim. Before pushing the trim into the adaptors, directly over the adaptor.



Joining VistaClad trim



- 01 - Universal trim
- 02 - Internal corner trim
- 03 - T-Trim (For butt joints)
- 04 - External corner trim



Apply caulking to full board grooves. Clear away excess.



Potential Caulking options

- Loctite 100% Silicone
- Loctite PL Roof and Flashing Sealant
- Alcolin Alco Flex Neutral Silicone

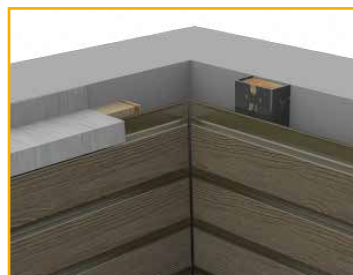
Finishing without VistaClad trim



Use Z flashing and angles for edges and heads



Butt joints will be exposed. Allow for expansion gaps.

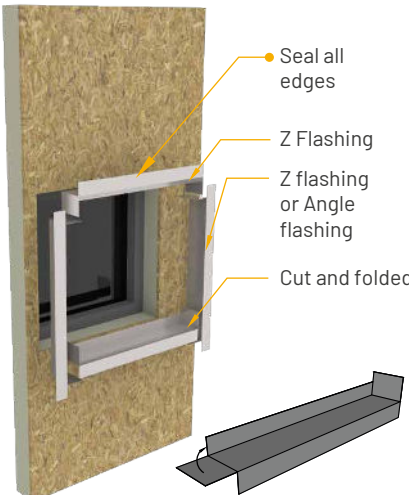
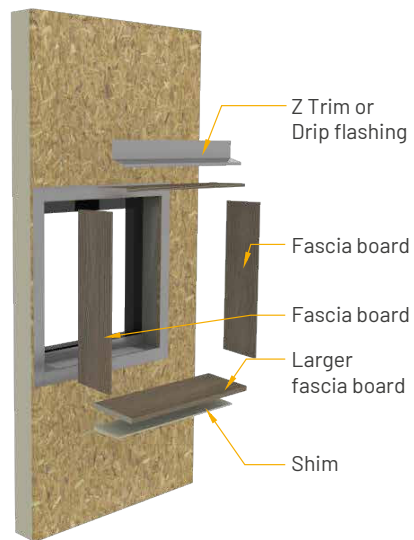
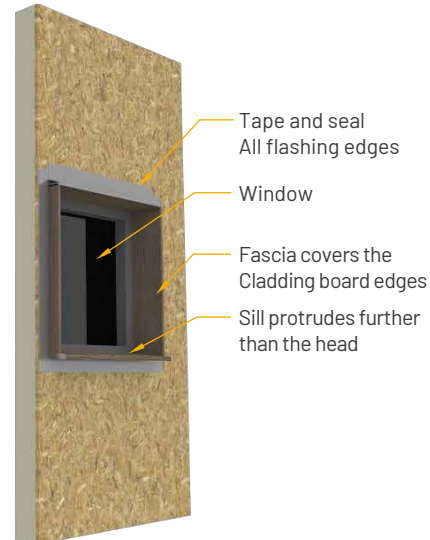


Mitre cut Internal corners. Allow for expansion gaps.





Mitre cut external corners. Allow for expansion gaps.

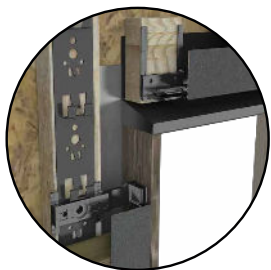
Flashing preparation around a window using fascia boards

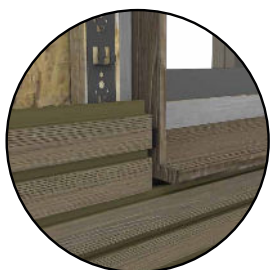
Install flashing	Install fascia and drip edge flashing	Seal edges
 <p>Seal all edges</p> <p>Z Flashing</p> <p>Z flashing or Angle flashing</p> <p>Cut and folded</p> <p>Convert Aluminium Z Flashing into Sill pan. *Sill pan parts may be available in different regions.</p>	 <p>Z Trim or Drip flashing</p> <p>Fascia board</p> <p>Fascia board</p> <p>Larger fascia board</p> <p>Shim</p>	 <p>Tape and seal All flashing edges</p> <p>Window</p> <p>Fascia covers the Cladding board edges</p> <p>Sill protrudes further than the head</p>

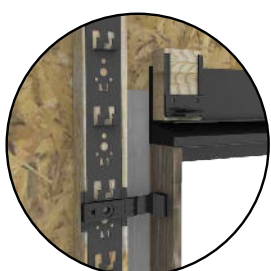
Installation around windows and other obstacles



- 

1 Install additional clip strips, 70 mm from the edge of the window as per standard edge distances.
- 

2 Install side adaptors and top and bottom adaptors at window corners and as per recommended spans of 450 mm.
- 

3 Install boards as per standard methods. Where necessary rip boards and leave a 10 mm gap to allow clearance below the window sill.
- 

4 Install and join universal trim around windows before sealing along all edges. Ensure adequate water tightness.

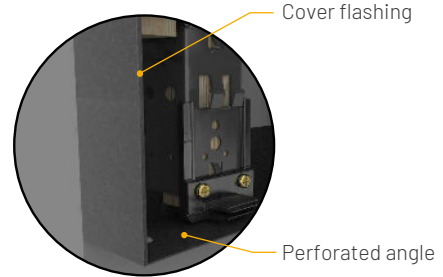
The VistaClad trim system is designed to cover board edges while removing the need to fasten through the composite boards. Additional flashing is required to cover wall cavities and prevent water ingress. Combinations of trim and furring can be sealed with adhesives and flashing tape. Flashing needs to be installed at strategic points in the installation as detailed below.

Flashing depth = Furring width (Including clip strip) + Board thickness



- 1** Before installing the cladding boards and adaptors, install flashing directly to the wall. Flashing at the bottom of the system should be perforated to allow water to escape, regardless of installation type.

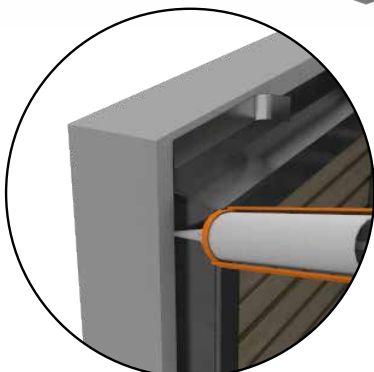
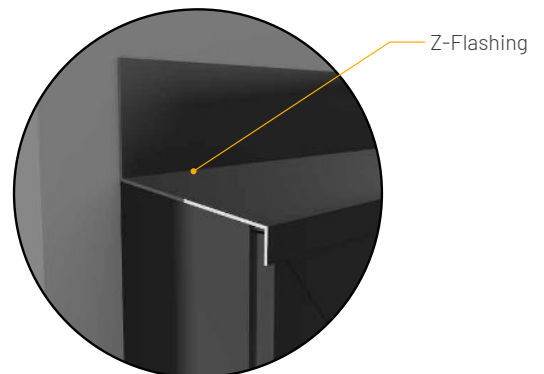
Use cover flashing around edges.
Use perforated angles at the bottom of the system to allow water to escape.



- 2** Install boards and trim as per previous steps.

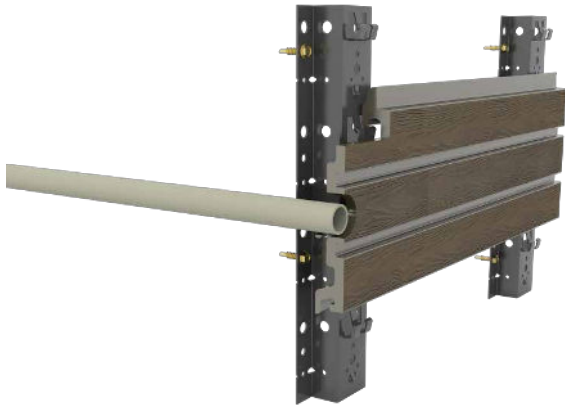


- 3** Install Z-flashing so that it overlaps the universal trim.



- 4** Seal all edges using flashing tape, sealant and if necessary overlapping flashing to direct the flow of the water, dependant on regional and design requirements.

Working around small penetrations



Allow for 5 to 10 mm of clip hook clearance in vertical movement for board insertion.

Working around large penetrations



Provide additional clip strips on either side of the part to support the board ends. Allow for 5 to 10 mm of clip hook clearance in vertical movement for board insertion.

Fastening parts to the cladding system

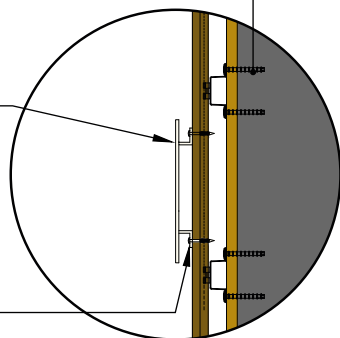
Direct fastening



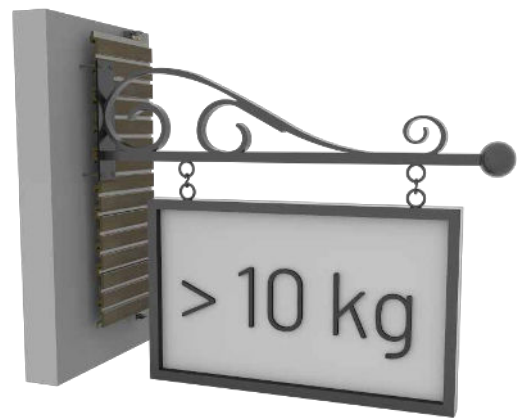
Ensure that the wall and fixings are appropriate

Allowable load of less than 10 kg over a cladding board shared between a minimum of four fasteners between typical spans

A load appropriate fastener suitable for composite applications, to be fastened through the board.

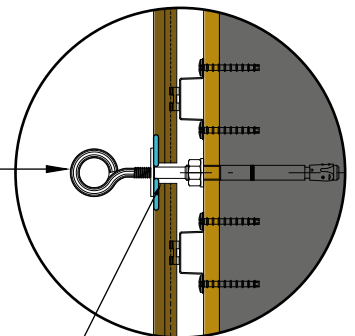


Fastening large parts to the system



Allowable applied load of greater than 10kg between spans

Allow for 5 to 10 mm of clip hook clearance. Consider any deflection or movement the fastener may experience.



Disclaimer and copyright

Document disclaimer

The provided information is offered in good faith as accurate but without guarantee. Eva-Last makes no warranties or representations of any kind (express or implied) about the accuracy, adequacy, currency, or completeness of the information, or that it is necessarily suitable for the intended use.

Compliance with this document does not guarantee immunity from breach of any statutory requirements, building codes or relevant standards. The final responsibility for the correct design and specification rests with the designer and, for its satisfactory execution, with the contractor. Appropriate warnings and safe handling procedures should be provided to handlers and users.

While most data have been compiled from research, case histories, experience and testing, small changes in the environment can produce marked differences in performance. The decision to use a material, and in what manner, is made at your own risk. The use of a material and method may therefore need to be modified to its intended end use and environment.

Eva-Last, its directors, officers or employees shall not be responsible for any direct, indirect, or special loss or damage arising from, or as a consequence of, use of, or reliance upon, any information contained in this document or other documents referenced herein. Eva-Last expressly disclaims any liability which is based on or arises out of, the information or any errors, omissions, or misstatements herein.

Drawing disclaimer

All dimensions and specifications are offered in good faith as accurate but without guarantee. The information captured herein may not contain complete details. Eva-Last makes no warranties or representations of any kind (express or implied) about the accuracy, adequacy, currency, or completeness of the information, or that it is necessarily suitable for the intended use.

Compliance with this document does not guarantee immunity from breach of any statutory requirements, building codes or relevant standards. The final responsibility for the correct design and specification rests with the designer and, for its satisfactory execution, with the contractor.

Utilisation disclaimer

Legislation may differ between jurisdictions. Before installing any Eva-Last product, ensure that the application is rational and complies with the local regulations and building codes. Wherever necessary, consult a suitably qualified professional. Be sure to comply with material manufacturer specifications. Where manufacturers and building codes differ, revert to the building code requirements. Check that your choice of product is suitable for its intended application. For further product specification and information visit www.eva-last.com.

Copyright

If reprinted or reproduced or utilised in any form Eva-Last should be acknowledged as the source of the information. Eva-Last periodically updates the information contained in this document as well as that of the Eva Last documents that have been referenced herein. Before using this document, please refer to the Eva-Last website (www.eva-last.com) for the most up-to-date documents.

Contact information

Eva-Last
Room 1203, 12/F Tower 333 Canton Road,
Tsimshatsui, Hong Kong, China
Email: info@eva-last.com
Website: www.eva-last.com