

Rinato™ Prestige Cladding Installation Instructions



rinato™

without compromise

Experience the beauty of wood with the benefits of composite

Our WPC cladding boards utilise the same advanced co-extrusion technology as our Natural range of deck boards. The cladding looks completely natural, is low maintenance and easy to clean, unlike timber cladding. The boards are UV resistant and will not fade, keeping their stylish colours for years to come. It is important to allow for the expansion and contraction of the boards in different temperatures. We recommend that batons are used to support the cladding every 500mm.

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While composite woods are highly durable it is recommended to follow the guidelines when storing, handling and installing the composite cladding products to ensure their lasting beauty.

Storage:

- Materials should be covered until ready to install to ensure a clean surface
- All products shall be stored flat and supported above the ground at 500mm intervals starting at the ends
- Battens used to separate and support the cladding material should be spaced no greater than 500mm
- Supporting battens used in storage should align through the stack to equally transfer the load to the ground
- Where pallets are delivered these should not be stacked more than four pallets (or 3m) high

Handling:

- Cladding materials should be placed and not dumped when unloading
- Lift and set boards down rather than sliding the boards to avoid damage
- Carry the cladding boards on their edge for better support
- During installation, do not slide or drag any equipment across the boards
- The surface of the cladding boards should be kept free of construction debris and material to prevent damage to the boards

Prior to installing any composite cladding system it is recommended that you check with local building codes for any special requirements or restrictions. The diagrams and instructions outlined in this guide are for illustration purposes and are not meant or implied to replace a licensed professional.

Safety:

- Always wear safety glasses and relevant Personal Protection Equipment (PPE)
- When cutting and installing boards it is advised to wear gloves, a respiratory mask, long sleeves and trousers
- Static build-up is a natural occurring phenomenon that can occur with many composite products. Dry and windy environments may make this more apparent. The levels of static build up will not cause personal injury
- The composite boards CANNOT be installed directly onto a flat surface. They must be installed onto a substructure to allow adequate and unobstructed air flow under the cladding to prevent excessive water absorption. A minimum of 25mm clearance beneath the cladding should be provided to promote drainage and drying
- Excessive heat on the surface of the composite cladding products from external sources such as (but not limited to) fire or reflection of sunlight from energy efficient window products such as Low-E glass can cause an unusual heat build-up on exterior surfaces. The rise in surface temperature from Low-E glass to adverse levels is deemed extremely rare due to the prevailing climate. Excessive heat exposure can cause the boards to sag, warp, discolour, increase expansion/ contraction, accelerate weathering, and in extreme circumstances, melting of the board

Use:

- Standard woodworking tools may be used. It is recommended that all blades have a carbide tip. Stainless steel or acceptable coated screws are recommended
- Plan a layout for your cladding before starting to ensure the best look is achieved. Pay particular attention to interfaces with doors, windows and soffits in order to determine the optimal starting position for the first boards
- Composite cladding boards are not intended for use as columns, support posts, beams, joist stringers or other primary load-bearing members
- Boards must be supported by a compliant substructure and CANNOT be installed onto existing cladding boards
- All fixings should be fastened at a 90 degree angle to the cladding system
- Use white chalk, straight boards or string lines as templates. NEVER use coloured chalk on the boards as this can cause permanent staining
- All recommended fixings are available from us. Please visit www.fhbrundle.co.uk for more information.

Please ensure you are familiar with all the cladding components and fixings prior to starting.

Board (13 x 140 x 2400/3600mm)



Finishing Board (70 x 10 x 3600mm)



End Trim (47 x 45 x 3600mm)



Angle Trim (55 x 55 x 3600mm)



In-Line Joint Trim (79 x 26 x 3600mm)



Clips & Screws



Starter Clip



Due to the natural expansion and contraction of the composite material with changes in ambient temperature and humidity, please ensure the following gap requirements for all composite cladding products are achieved.

Spacing Boards & Joists:

- Cladding board ends should be installed with a 3mm gap between adjoining boards
- Timber joists should be installed with a 20mm gap between ends
- A 15mm gap should be provided between the lowest cladding board edge and the ground
- A clear cavity of no less than 25mm between the rear face of the cladding and the outer wall/ surface of the structure being clad should be provided to allow sufficient airflow
- Maximum 500mm joist centres
- Extra care is required in order to provide sufficient joisting around windows, fascia's, soffits, guttering, ventilation points and corners of walls. These locations should be planned and co-ordinated with the cladding system to ensure alignment with the composite fascias and trims. This will allow fixing of the fascia and trims back to the joists
- A double joist arrangement will be required for mid panel joints and at corners to allow the joint trims to be seated and fixed to both joists

Below is an example of a typical installation and will be used to demonstrate the installation of the composite cladding System.

Typical Installation:



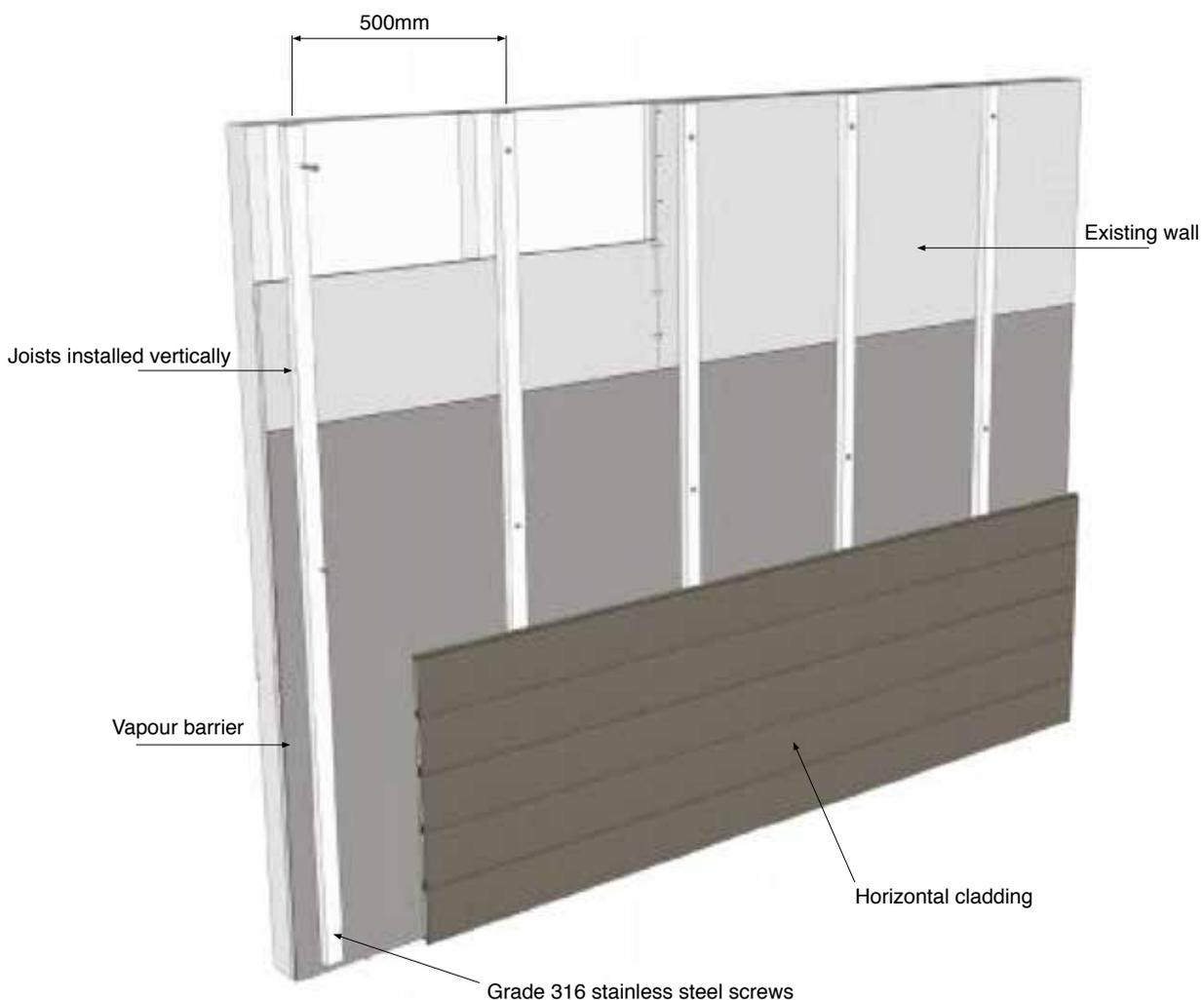
Cladding Joist Layout:

Joists that are fixed directly to the outer wall once a waterproof membrane/vapour barrier is in place. This is the most common method for boards installed horizontally.

If the wall is uneven or cannot bear additional loads, the cladding may be fixed to battens on a self-supporting frame.

Joist Specification:

- Cladding can be fixed to pressure treated softwood timber joists in accordance with BS8417, aluminium battens or WPC joists depending on design requirements
- Joists should be fixed into position at 500mm centres using suitable Grade 316 stainless steel countersunk wood/masonry screws. All joists need to be fixed in a minimum of 3 places
- All joists need to be 25mm minimum thickness, flat and levelled against the wall. Use shims as required
- Joists to be used at external corners should be at least 50mm wide to accommodate the external angle trim and provide space for the aluminium cladding clips to be fixed
- A building professional should be consulted regarding vapour barriers and insulation for your project. Where a vapour barrier is to be used, it should be a breathable type and must be positioned behind the joists to allow the cladding a minimum 25mm airflow. It is essential that a barrier/coating is installed to prevent water penetration and trims back to the joists



Step 1 - Setting Out The Joists:

Working from a corner (internal or external) mark out the joists every 500mm max. Additional joists will be required around edges such as windows, doors, eaves and corners where additional joists should be installed specifically to carry the final cladding trims.

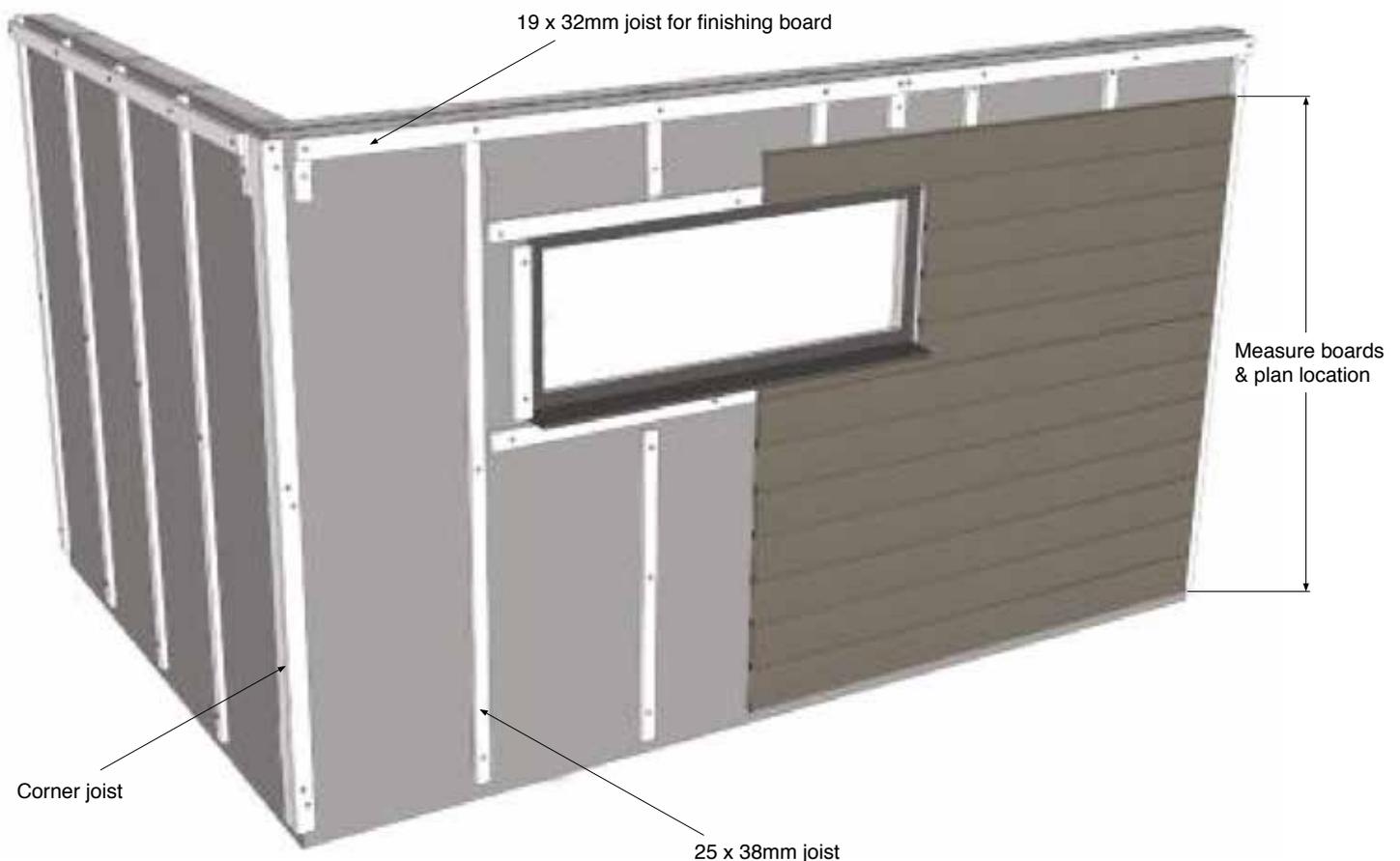
Intermediate joint trims need to be planned as they will require two joists spaced either-side to allow fixing of the aluminium clips whilst providing a solid base for the joint trim to be fixed back to.

It is advisable to fix the final location of the intermediate joint trim Joists during installation of the cladding boards to enable precise positioning.

We now need to decide the start height for the joists. In order to do this we need to determine how the final cladding boards will align with adjacent doors and windows.

The aim is to avoid creating thin slithers of cladding (which will be difficult to cut on site) so by planning where the boards will finish we are able to adjust the start height off the ground.

- Minimum 25 x 50mm wide joists will be required for all external corners including windows and doors. All other joists can be a standard 25 x 38mm
- For the finishing board beneath the eaves we recommend using 19 x 32mm treated battens fixed to the face of the main cladding joists. This will allow the finishing board to hold the top cladding board tightly in place



Step 2 - Before Installing The Cladding:

Before the cladding can be installed we must first fix two vertical trims in place so that the cladding boards can be slotted into place during installation.

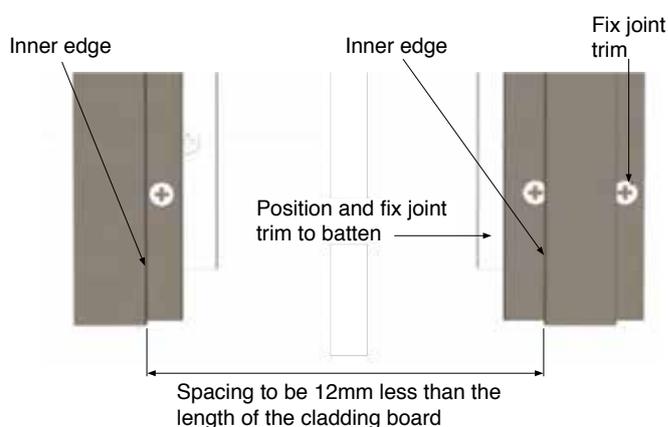
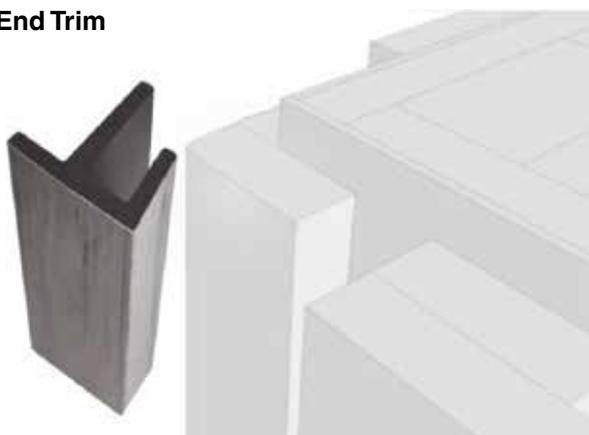
Working from a corner the cladding will be installed in a single direction around the building in portions. Each portion is defined with two vertical trims that the cladding boards can be slotted into, leaving no board end exposed.

It is advisable to fix the final location of the intermediate joint trim Joists during installation of the cladding boards to enable precise positioning.

A - Fix the first vertical trim to the joist using countersunk wood screws every 750mm ensuring that the screws are installed through the rear flange. It is advised to pre-drill pilot holes.

B - We now need to position the second trim (and associated joists if installing a joint trim) to allow the cladding boards to be slotted into. The spacing of the trim will depend on the length of board being installed.

Fix End Trim



Measure, space and fix second trim

Pilot hole and fix the joint trim

The aim is to ensure that 6mm of the cladding board is housed within the trim at both ends.

It is recommended that the distance between the outer faces of both trims is equal to the length of the cladding board minus (-) 12mm.

The cladding board will therefore be 12mm longer than the gap between the trims. See diagram above

This will allow the cladding board to be fully pushed into the 1st trim and then drawn back 6mm to fit within the 2nd trim, achieving 6mm cover to both ends.

Step 3 - Install The Starter Clips:

C - The Starter Clips will now be installed on top of the bottom of the joists by first pre-drilling into the starter clips and then fixing to each joist using the screws.

D - Ensure the starter clips are installed in the correct orientation and level. Please note that all cladding boards and trims should be no closer than 15mm to the ground.



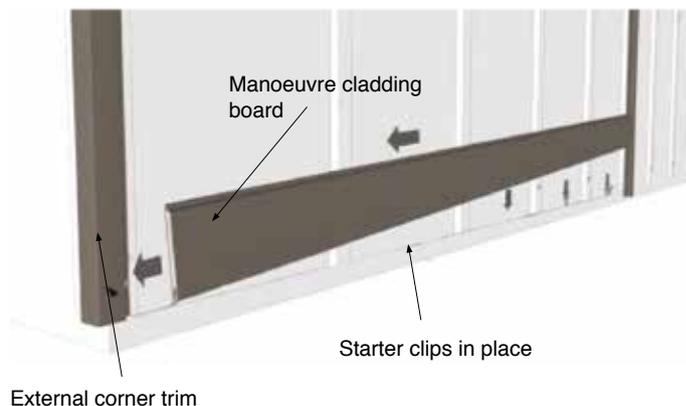
Step 4 - Install The First Cladding Board:

E - Take a cladding board and place the side with the lip down onto the starter clip. You will find the second trim prevents the board from sitting fully on the starter clips.

Slide the cladding board fully into the recess of the first composite trim, bringing the opposite end of the cladding board down onto the starter clips.

The cladding board should now be fully seated.

First cladding board being positioned onto starter clips and into first trim

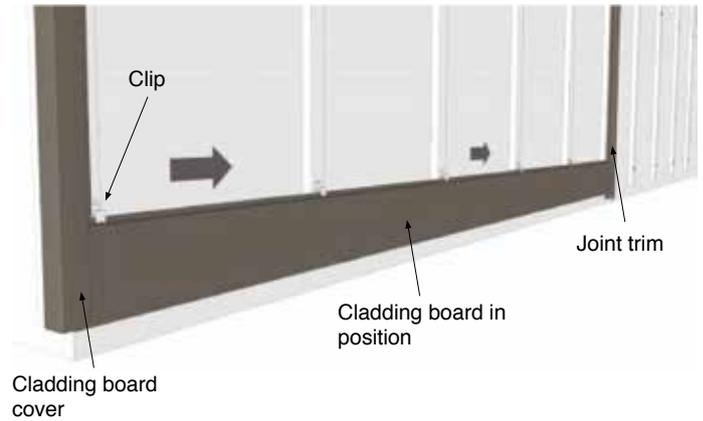


Step 4 (continued):

F - We now need to draw the cladding board back out of the first trim by 6mm and into the second trim to allow the board to be fully housed at both ends.

Next, take the cladding clips and put them on top of the board, fixing them directly to each joist using wood screws.

Draw back cladding board by 6mm and push into second trim



Do not fix the clips to the cladding board, just the joist



Slide board fully into first trim.



Fix clips to each joist

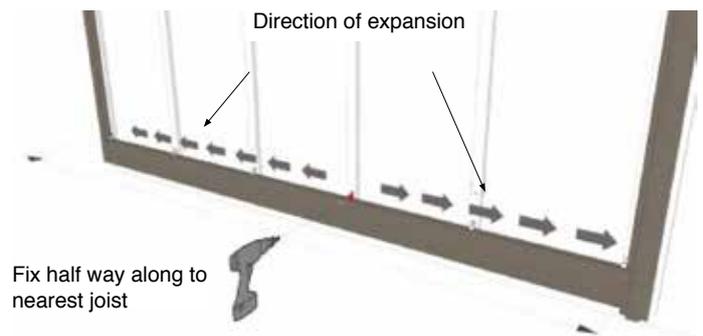
Step 5 - Locking The Wall Cladding Board:

G - Now we need to lock the board to control expansion and contraction. We will do this by using the extra hole provided on the cladding clips. We will be locking the board down half way along its length to allow for even movement to take place either end of the board.

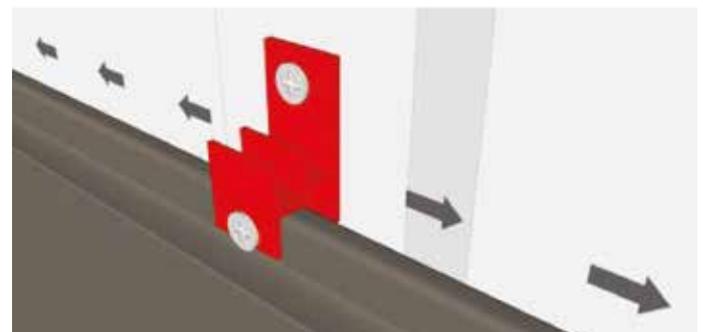
Using the wood screws fix the cladding clip to the cladding board. It is advised to pre-drill pilot holes.

Only one locking point is required for each cladding board and centrally located (approx) as shown at the bottom of the page. Each board must be locked in place.

Controlling expansion and contraction:
Lock the board in one location.



Lock centre of each board using screws:



Step 6 - Install The Remaining Cladding Boards (vertically):

H - Repeat steps 4 and 5 and install all the cladding boards until you have reached the top of your wall. Refer to step 7 for the final board beneath the eaves.

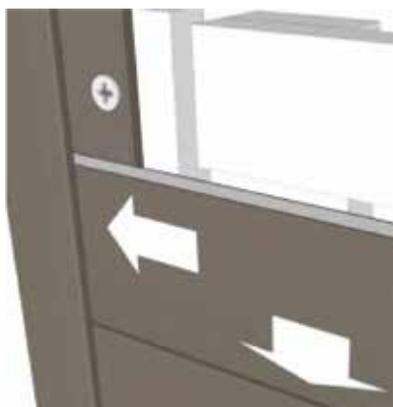
Installing remaining boards up to the last full board, if length is bigger than our standard, a joint trim will be needed as below.



Step 7 - Installing The Top Cladding Board:

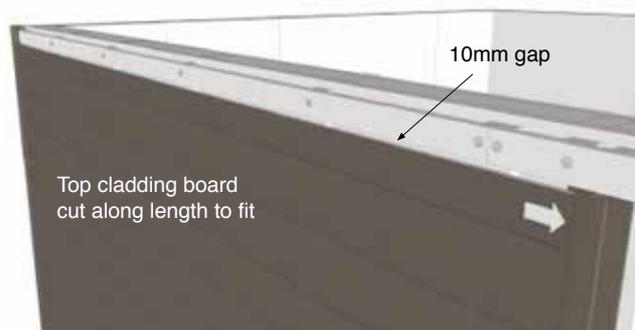
I - Measure and cut the cladding board as required to fit beneath the top horizontal joist. Allow a maximum gap of 10mm between cladding board and horizontal joist.

Board slotted into trim and drawn back



J - The top cladding board should now be installed. Slide the board into the first trim, draw back by 6mm whilst pushing the opposite end into the second trim.

Cut final board maximum 10mm below top joist



Step 8 - Installing The Finishing Board:

K - A finishing Board will be used to cover the top of the final cladding board.

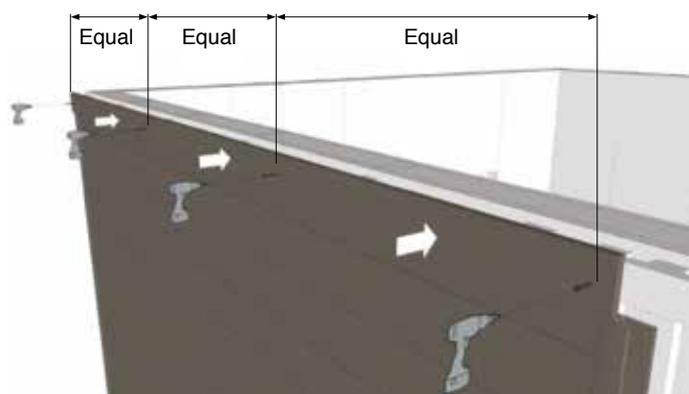
The Finishing Board will be screwed back to the timber joist running horizontally beneath the eaves as installed in step 1.

L - It is recommended that the ends of the finishing boards align with the centreline of the vertical trims, although not essential.

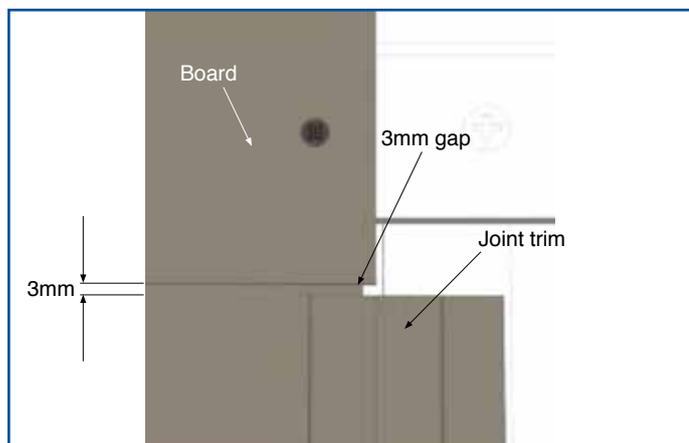
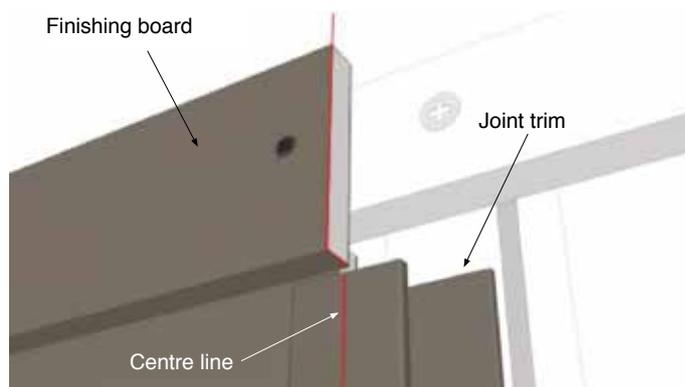
Allow a 3mm gap between bottom of finishing board and top of vertical trim for expansion.

The finishing board can be installed after each portion of cladding is completed or at the very end of the installation.

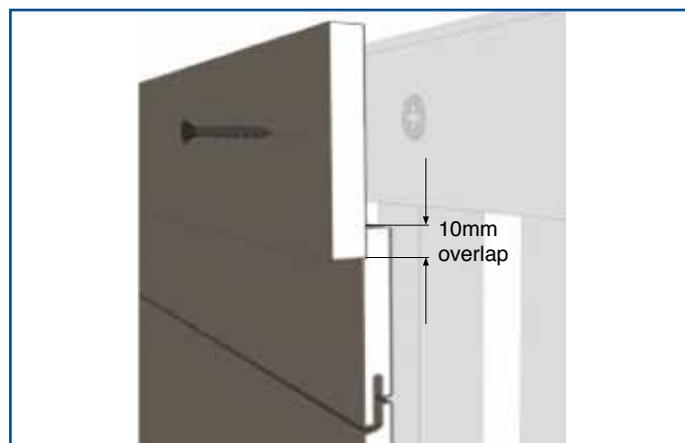
Fix the finishing board to the top horizontal joist



Align the ends of the finishing board with the future joint trim



3mm gap between board and trim



10mm overlap to cladding board

Step 9 - Trims Around Doors And Windows:

Where doors, windows or other features need accommodating in the cladding system please ensure that trims around the openings are installed before the cladding boards.

Full access is required to enable it to be fixed back to the joists in the same way as step 2.

Additional joists will be required around windows and doors to fully support the corner trims and cladding.

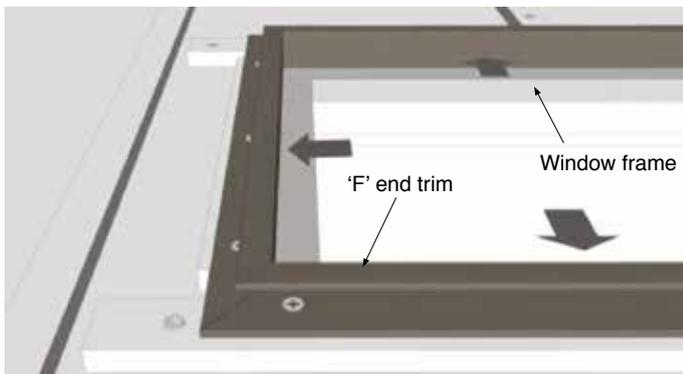
M - For this example we will use the 'F shape' end trim to form the edges and reveals to a window.

Cut the end trims to the desired length and fix back to the timber joists using wood screws

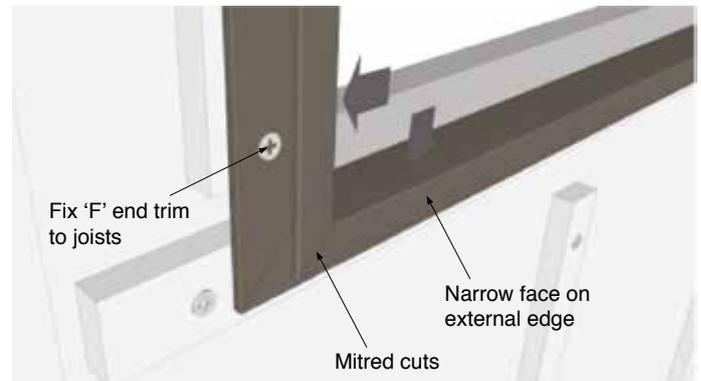
N - We advise forming mitred joints to all corners for a clean and neat finish.

Once the edges around the Window have been fixed continue to install the cladding boards as steps 2 - 8

Measure, cut and fix end trim to joists



Mitred corners work best to achieve neatest finish



For any further advice please contact your local branch.

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