Flatroof
By Ultraframe

FLAT ROOF | INSTALLATION GUIDE

V2 | August 2022

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By Ultraframe

Dear Customer,

Thank you for choosing the Ultraframe Flat Roof product.

This guide is designed to make fitting as straightforward as possible.

Before you commence installation of the roof, please take a moment to read the guide.

This guide is written on the basis that a qualified surveyor has undertaken correct checks for the capability / structural performance of any existing framework / walls / foundations to verify they are fit for purpose. Any feedback - positive or negative - is welcomed so we can make our systems even better.

Please contact the Tech Support Team on **01200 452 918** or email **techsupport@ultraframe.co.uk**

For everything you need to know about the Ultraframe Flat Roof, including guides and installation videos visit http://ultraframe.co.uk/trade

Fitters:

Please look out for the Registration Form to pass on to the homeowner.

Flat Roof Fitter's Tips

If this if the first time you're fitting a Flat Roof we ask you to familiarise yourself with the Installation Guide before you start.

Ensure that you have all the key documents outlined on page 12, all the correct tools and safe access equipment, these are outlined on page 3. If you don't have any of the key documents, please call

Technical Support at Ultraframe on 01200 452918 - have your order number handy.

TOOLS REQUIRED


Clamps

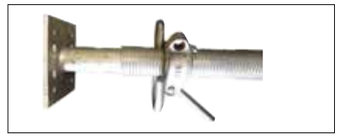

2.5m straight edge


8mm & 10mm Hex head socket


Tape measure


5mm & 6mm drill bit


Drill/impact screwdriver


Acro prop x 4


Plumb bob and string line


Scaffolding to exterior or 2 towers with Youngman boards


Long (1,800mm) and short spirit levels


Gasket shears/Snips

Pozi PZ2
Phillips PH2

Driver bits


Deadblow hammer or white rubber mallet


Expansion foam gun

Not Supplied:

Several items are not supplied by Ultraframe as they are easier and cheaper to source locally.

These are:-

- **3 x 2 CLS timber battens for the ceiling**
- **12.5mm foiled backed plasterboard and skimming beads**
- **Roof coverings**
- Anchor or masonry fixing bolts to host wall
- LED (fire resistant) lighting
- Structural support (available from Ultraframe)
- Frame to box beam fixings
- Expanding foam (for filling small apertures)
- Roof edge timber drip profile

Health & Safety

Site safety is paramount. The Construction (Design & Management) Regulations 2015 apply to the whole construction process, on all construction projects from concept through to completion. Compliance is required to ensure construction projects are carried out in a way that secures health and safety. The installation company shall be responsible for the safety of all of the fitting team, the customer and members of the public.

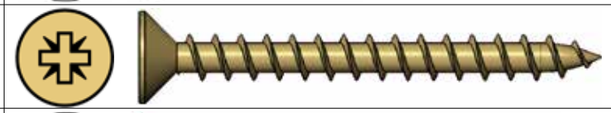
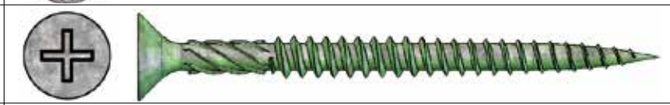
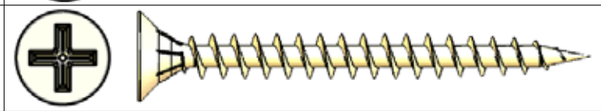
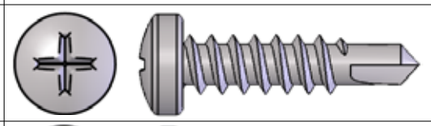
The Surveyor should have carried out a written risk assessment to reduce risk on site and this should have been discussed with you (the installer) prior to starting.

Please use safe working platforms/ scaffolding all round and ladders that comply with BS EN 131. Always use equipment in line with manufacturers recommendations. Personal Protective Equipment – such as goggles, mask and ear defenders – should be used when, for example, grinding out for the flashing.

FLAT ROOF FIXING SUMMARY

PLEASE USE THE SUPPLIED FIXINGS WHEN INSTALLING THE FLAT ROOF TO ENSURE A SECURE AND CORRECT INSTALLATION.

FIXINGS SUPPLIED Below shows the various fixings supplied for the installation of a Flat Roof. These should be found in the box containing this document.

NRTF 050 4.2 x 25 Wafer head piercing point screw		**POZI SCREWDRIVER BIT**
NRBF 050 4.0 x 40 Deck-tite countersunk screw		**POZI SCREWDRIVER BIT**
GPHS 050 4.2 x 38 Wafer head countersunk self drill		**SQUARE SCREWDRIVER BIT**
FRFC008 150 M6 x 150 Hex head deck screw		**M6 HEX SCREWDRIVER BIT**
NRDS 070 25 4.5 x 70 Countersink deck screw		**PHILLIPS SCREWDRIVER BIT**
NRPS 050 4.0 x 25 Deck-tite Countersunk screw		**POZI SCREWDRIVER BIT**
FBMS 050 5.0 x 50 Multi-purpose screw		**PHILLIPS SCREWDRIVER BIT**
FBFDN 050 3.35 x 50 Annular ring shank nail		
CHA007 4.2 x 19 Self Drill screw		**PHILLIPS SCREWDRIVER BIT**
UZSB003/1 4.8 x 22 Self Drill screw		**PHILLIPS SCREWDRIVER BIT**

FIXING LOCATION SUMMARY

Fixing top of beam OSB into female corbel

4 fixings per corner

GPHS 050
4.8 x 38 Square
CSK S/Drill

Abutment bracket to internal face of beam

9 fixings per bracket

GPHS 050
4.8 x 38 Square
CSK S/Drill

Abutment bracket to host wall

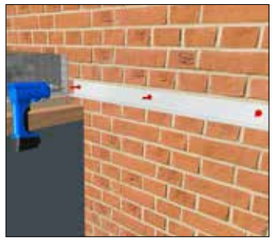
Min 4 fixings per bracket

FIXING NOT SUPPLIED
Suitable fixing required into substrate

Fixing through the head of frames

Fixings within 150mm of each corner and max. 450mm centres

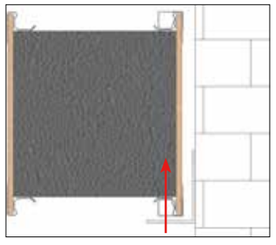
FIXING NOT SUPPLIED
Suitable fixing required



Angled wall plate to host wall

Fixings within 150mm of each corner and max. 450mm centres

FIXING NOT SUPPLIED
Suitable fixing required



Wall angle to parallel running panel

1 per 300mm centres

FBMS050
5.0 x 50mm
Wood screw

Abutment bracket to external face of beam

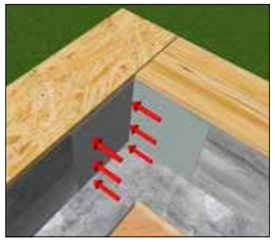
9 fixings per bracket

GPHS 050
4.8 x 38 Square
CSK S/Drill

Abutment bracket to host wall

Min 4 fixings per bracket

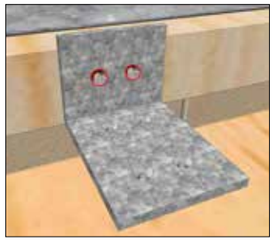
FIXING NOT SUPPLIED
Suitable fixing required into substrate



Internal cleat top beam

12 fixings per bracket

GPHS 050
4.8 x 38 Square
CSK S/Drill

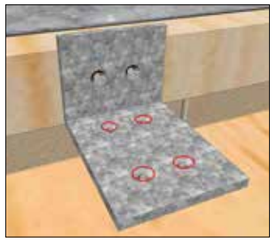


Small wall strap

2 fixings per bracket

INTO BEAM

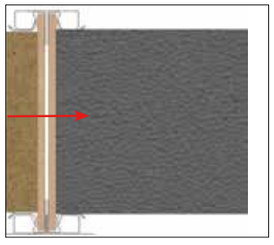
NRDS070 25
4.5 x 70 Deck screw
CSK Phillips



Small wall strap

4 fixings per bracket

INTO TIMBER WALLPLATE
FIXING NOT SUPPLIED
Suitable fixing required into substrate



Trimmer shelf to panel

1 per 500mm centres

NRDS070 25
4.5 x 70 Deck screw
CSK Phillips

FIXING LOCATION SUMMARY

Intermediate beam abutment bracket to host wall

Min 4 fixings per bracket

FIXING NOT SUPPLIED
Suitable fixing required into substrate

Intermediate beam to host wall

Min 4 fixings per bracket

FIXING NOT SUPPLIED
Suitable fixing required into substrate

Abutment bracket to intermediate beam

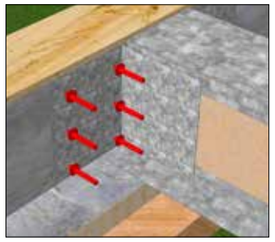
9 fixings per bracket

GPHS 050
4.8 x 38 Square CSK S/Drill

Abutment bracket to intermediate beam

9 fixings per bracket

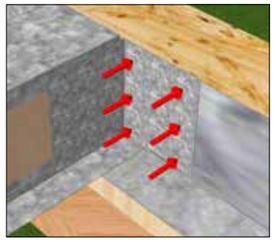
GPHS 050
4.8 x 38 Square CSK S/Drill



Intermediate beam to eaves beam

12 fixings per bracket

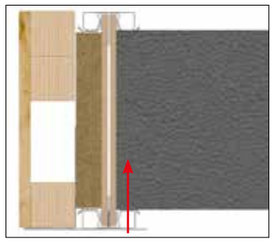
GPHS 050
4.8 x 38 Square CSK S/Drill



Intermediate beam to eaves beam

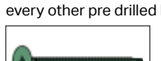
12 fixings per bracket

GPHS 050
4.8 x 38 Square CSK S/Drill

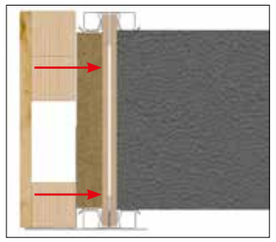


Intermediate beam or trimmer panel to panel

1 per 600mm centres into every other pre drilled hole



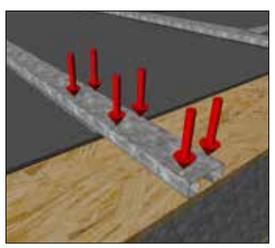
GPHS 050
4.8 x 38 Square CSK S/Drill



Aperture frame to trimmer panel

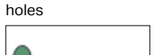
1 per 300mm centres

NRDS070 25
4.5 x 70 Deck screw CSK Phillips



External panel clip to panel and beam

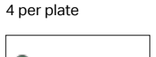
6 or 8 per clip into pre-drilled holes



GPHS 050
4.8 x 38 Square CSK S/Drill

Small tab plate to external panel clip

4 per plate



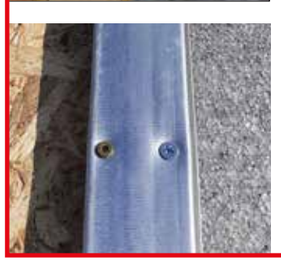
GPHS 050
4.8 x 38 Square CSK S/Drill

External panel clip running parallel to beam

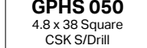
1 per 300mm centres

INTO BEAM

FBMS050
5.0 x 50mm WOOD SCREW

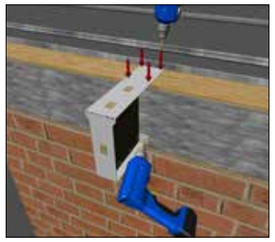


INTO PANEL



GPHS 050
4.8 x 38 Square CSK S/Drill

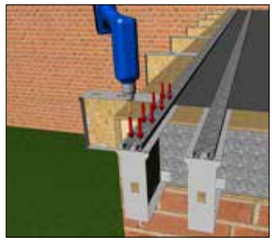
FIXING LOCATION SUMMARY



Fixing fin to top and external face of beam

6 fixings per fin

GPHS 050
4.8 x 38 Square CSK S/Drill



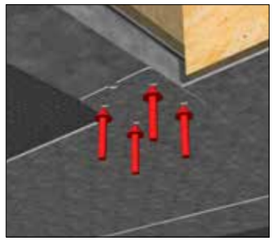
Fixing external panel clip to fin

8 fixings per fin

GPHS 050
4.8 x 38 Square CSK S/Drill

Secure through OSB fin into host wall

FIXING NOT SUPPLIED
Suitable fixing required into substrate



Fixing internal small tab plate to trimmer shelf

4 fixings per plate

GPHS 050
4.8 x 38 Square CSK S/Drill

Fixing internal clip to panel

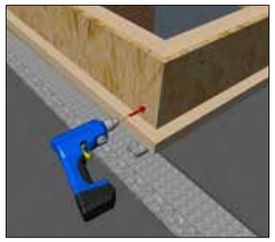
4 fixings per panel

GPHS 050
4.8 x 38 Square CSK S/Drill

Fixing internal small tab plate to wall angle

2 fixings into wall angle

GPHS 050
4.8 x 38 Square CSK S/Drill



Kerb to kerb corner fixing

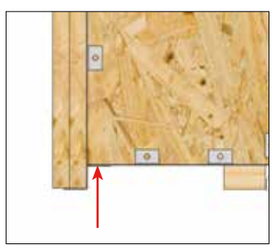
6 fixings per corner

FBMS050
5.0 x 50mm WOOD SCREW

Securing kerb to aperture

1 per 300mm centres

NRDS070 25
4.5 x 70 Deck screw CSK Phillips



Fixing Z section to fin

2 fixings per fin

GPHS 050
4.8 x 38 Square CSK S/Drill

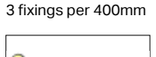
Connecting 2 x Z sections

Pre drill and fix, 1 fixing per corner

GPHS 050
4.8 x 38 Square CSK S/Drill

OSB fascia panel fixed directly to beam

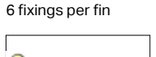
3 fixings per 400mm



FBMS050
5.0 x 50mm WOOD SCREW

OSB fascia panel fixed directly to fin

6 fixings per fin



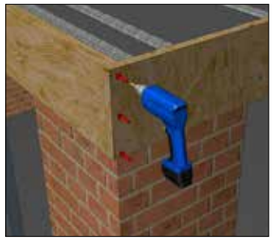
FBMS050
5.0 x 50mm WOOD SCREW

FIXING LOCATION SUMMARY

OSB fascia panel joint to beam

6 fixings per joint

FBMS050
5.0 x 50mm wood screw



OSB fascia panel joint at corner

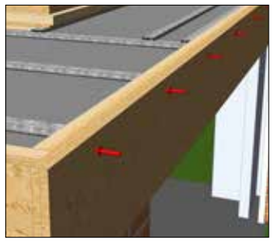
3 fixings per corner

FBMS050
5.0 x 50mm wood screw

Securing batten to host wall

1 fixing per 450mm centres

FIXING NOT SUPPLIED
Suitable fixing required into substrate



Perimeter 2x2 batten to OSB fascia panel

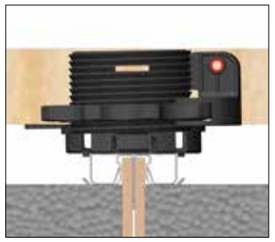
1 fixings per 600mm centres

FBMS050
5.0 x 50mm wood screw

Securing Pitchlock to external panel clip

1 per Pitchlock through central hole

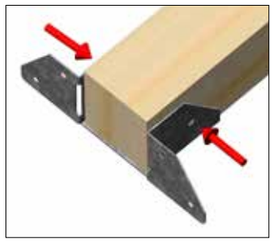
UZSB003/1
4.8 x 22 Pan Head S/ Drill Screw



2x2 timber firring to Pitchlock

2 per Pitchlock (1 each side)

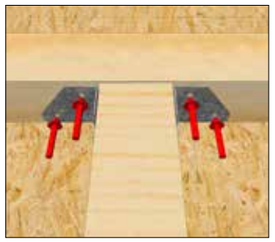
NRTF 050
4.2 x 25 Wafer head



Securing joist hanger to firring

2 per hanger

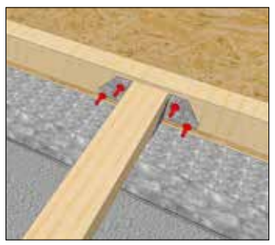
NRTF 050
4.2 x 25 Wafer head



Securing joist hanger to perimeter batten

4 per hanger

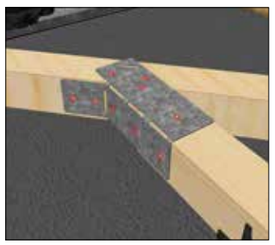
NRTF 050
4.2 x 25 Wafer head



Securing joist hanger to kerb batten

4 per hanger

NRTF 050
4.2 x 25 Wafer head



Securing jack rafter plate to hip

Up to 9 per plate

NRTF 050
4.2 x 25 Wafer head

Gluing top of batten for decking

RRA004
PU Adhesive 30min cure glue

Nail decking to battens

1 per 300mm centres

FBFDN 050
3.35 x 50 Annular ring shank nail

FIXING LOCATION SUMMARY

L shaped aluminium section to kerb

1 fixing per 150mm centres

NRPS 050
4.0 x 25mm Pozi C/SNK Deck-tite screw

Cricket to L shaped alum section and deck

1 fixing per 150mm centres

NRPS 050
4.0 x 25mm Pozi C/SNK Deck-tite screw

Tilt fillet to deck

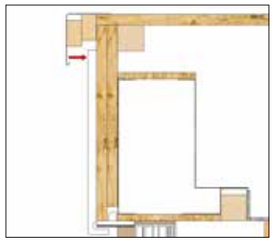
1 fixing per 150mm centres

NRPS 050
4.0 x 25mm Pozi C/SNK Deck-tite screw

Soffit batten to underside of fin

1 fixing per fin

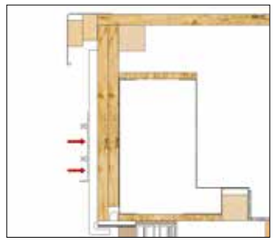
NRBF 050
4.0 x 40mm Pozi C/SNK Deck-tite screw



Fascia board fixing

4 fixings per length

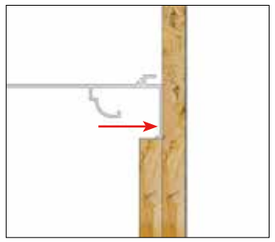
NRBF 050
4.0 x 40mm Pozi C/SNK Deck-tite screw



Heritage fascia board fixing

2 fixings per 500mm centres

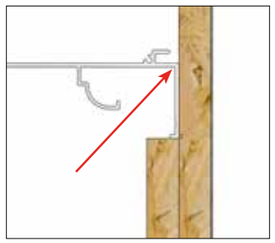
NRBF 050
4.0 x 40mm Pozi C/SNK Deck-tite screw



Lower cornice section to fascia panel fixing

1 fixing per 500mm centres

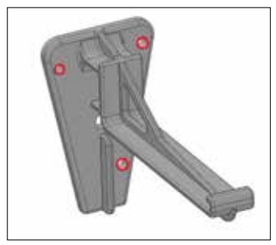
NRTF 050
4.2 x 25 Wafer head



Lower cornice section to fascia panel fixing

1 fixing per 500mm centres

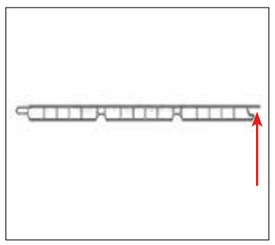
FBMS050
5.0 x 50mm wood screw



Gutter brackets to fascia board

3 fixings per bracket

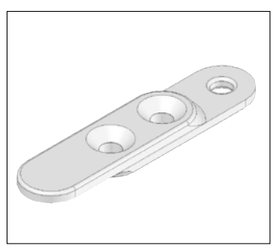
NRBF 050
4.0 x 40mm Pozi C/SNK Deck-tite screw



Decorative soffit board fixing

2 fixings per 300mm

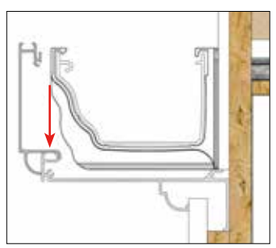
NRPS 050
4.0 x 25mm Pozi C/SNK Deck-tite screw



Cornice cleats to cornice

4 fixings per cleat

CHA007
4.2 x 19 S/Drill Screw

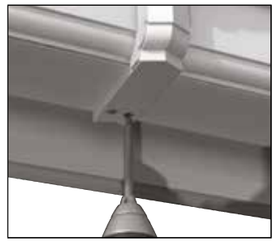


Cornice section to cornice section

1 fixing per 400mm centres

CHA007
4.2 x 19 S/Drill Screw

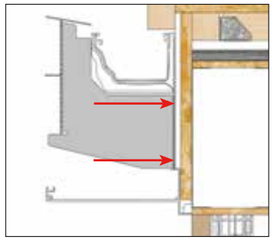
FIXING LOCATION SUMMARY



Cornice covers to cornice

1 fixing per pre drilled hole

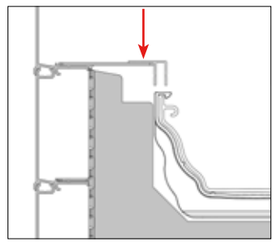
CHA007
4.2 x 19 S/Drill Screw



Four tier cornice support bracket to fascia board

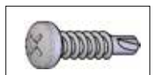
1 fixing per pre drilled hole

NRBF 050
4.0 x 40mm Pozi C/SNK
Deck-tite screw

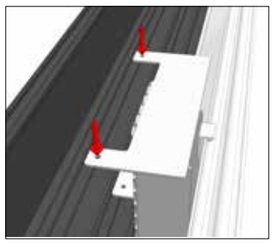


F section to cornice support bracket

2 fixings per bracket per F section



CHA007
4.2 x 19 S/Drill Screw



Four tier cornice support bracket to cornice

4 fixings per bracket

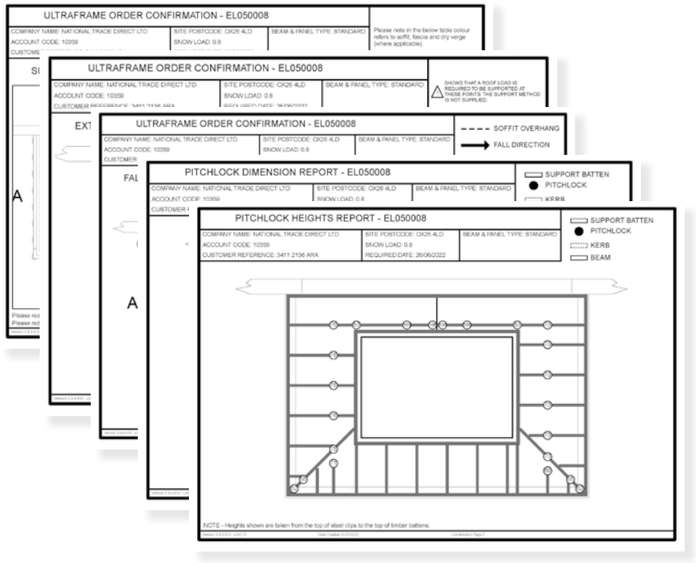
CHA007
4.2 x 19 S/Drill Screw

TOP TIPS FOR A SUCCESSFUL INSTALLATION

Here are some top tips from Ultraframe to help your installation run smoothly.

1. Ensure the beams are laid on top of the frames in the correct order. The correct ‘fitting sequence’ is shown on page 20.
2. When positioning the beams, check the dimensions match the critical dimensions sheet supplied with the roof. Start by ensuring the beams that attach to the house wall are parallel and the correct distance apart. Flat Roof will accommodate slightly out of square bases and frames. Please call Technical Support on 01200 452918 for technical advice if this is the case.
3. In order to ensure the stability of the beam it needs to be sufficiently supported.
4. Always use the fixings, sealants and adhesives specified within the Installation Guide in order to ensure the strength and water tightness of the roof.
5. Don’t forget to prop the 4 corners of the lantern and any wide openings as shown on page 32. Stability of the roof needs to be sufficiently supported below any wide openings and the 4 points of a lantern if applicable.
6. Do not cut the panel strapping until all panels are fully installed.
7. When fitting the panel clips to the box beam, ensure that the lower end of the clip extension rests/aligns with the edge of the beam in the standard position see page 29.
8. Start by placing the OSB boards next to the front hip first see page 43. Work your way around the kerb with the OSB before working your way back to the house wall. Only remove the props once the OSB boards and steel hip plates are fixed in place.
9. The OSB deck is water resistant but ensure any surface water is removed before any new roofing membrane is laid.
10. Ensure bi-folds or 4 part patios are measured 15mm shorter to allow for deflecting tolerances. When installing onto existing walls or new brickwork where the inside skin is finished brickwork, it would be best to plaster as wall straps will be on show.
11. Look out for the handy guides supplied with products for extra tips on fitting.

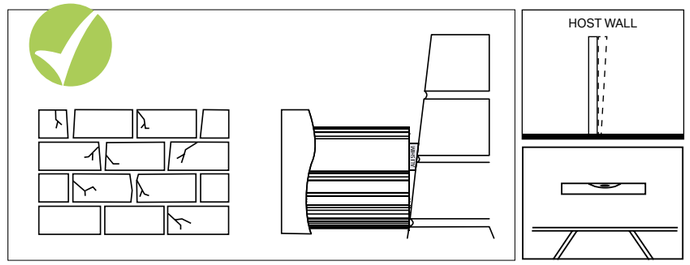
DOCUMENTATION CHECKLIST - SENT WITH EACH ROOF



Check you have:

1. Confirmation of roof order
2. Critical set out dimensions
3. Beam / fascia plan
4. Panel location plan
5. Int / Ext clip location plan
6. Fin location plan
7. OSB location plan
8. Component box list

PRE-INSTALLATION CHECKS



Check the condition of the host wall as this may affect the quality of the final installation. Check the host wall is plumb - any running in/ or out should have been accounted for by the surveyor. Only use the specified fixings - never be tempted to substitute alternative sizes/gauges.

General points

Choose a suitable area for unpacking the components and always check them before fitting. Any claims for missing or damaged parts are only accepted in line with our standard terms and conditions of sale, 48 hours from delivery.

Careful consideration should be given to the safe disposal of all packaging – Ultraframe packaging is predominantly made from recycled materials and can be readily recycled.

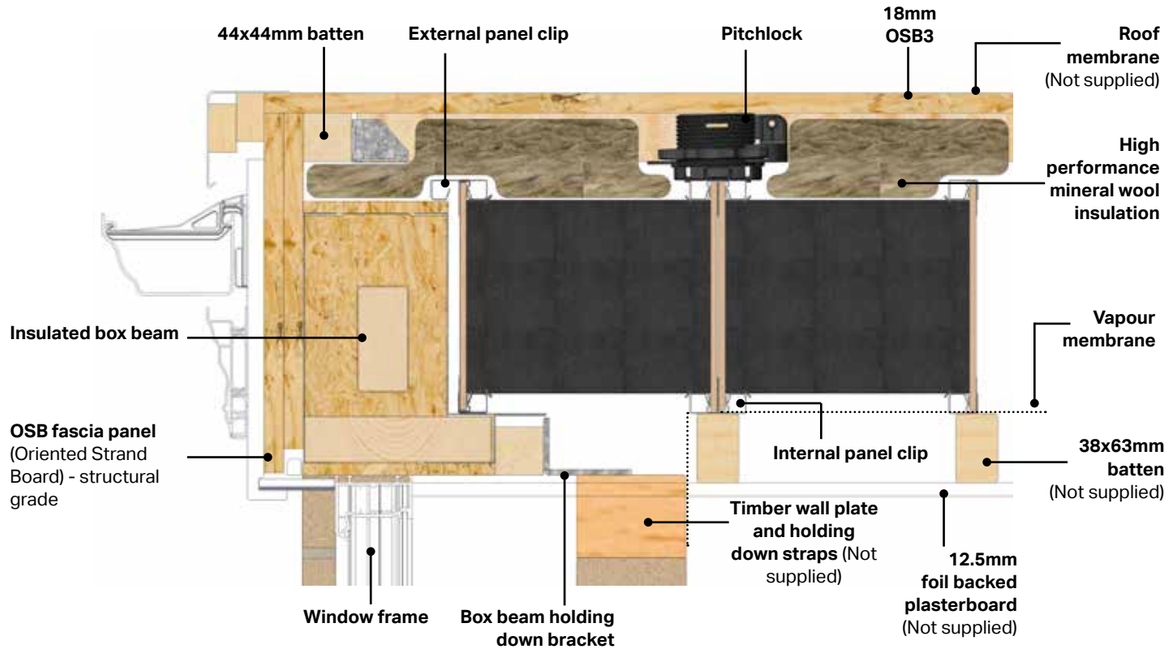
Product

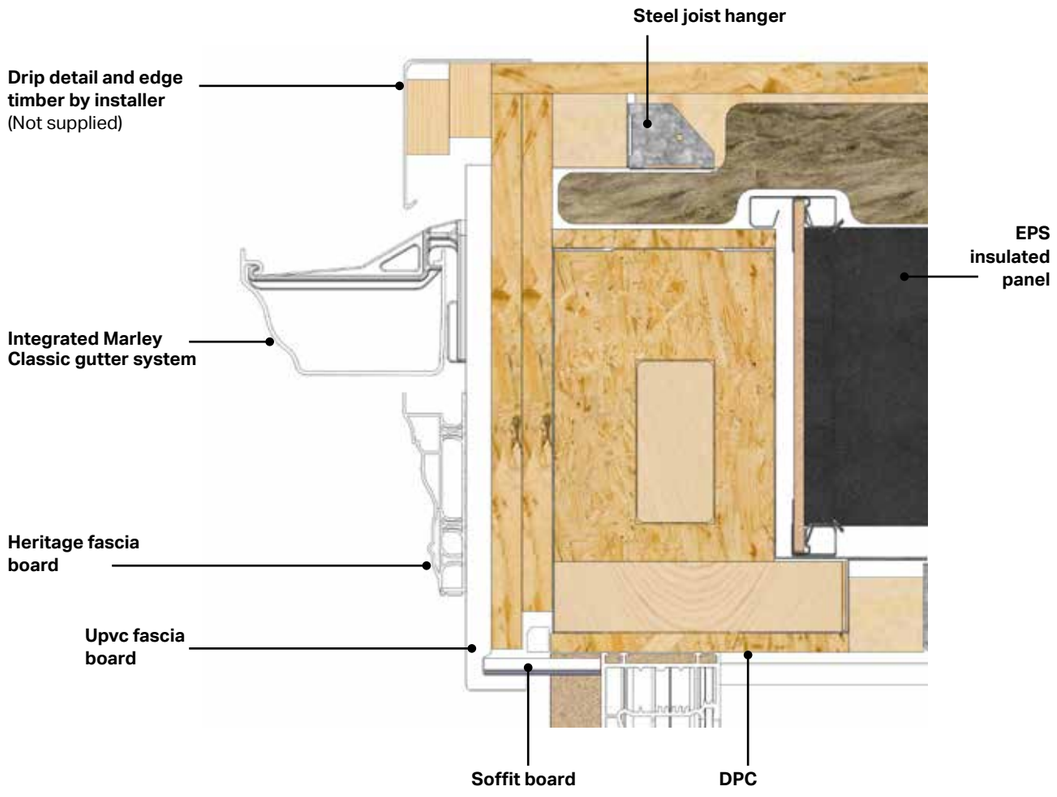
The Flat Roof kit is supplied with a location plan and, of course, this Installation Guide . The location plan is used to match individual components to their respective position on the roof.

The Superstructure

Check the side frames are level all round. Before starting to install the Flat Roof, please check the condition of the host wall and whether it's plumb – depending upon what you find, these conditions can seriously affect the final integrity of the roof.

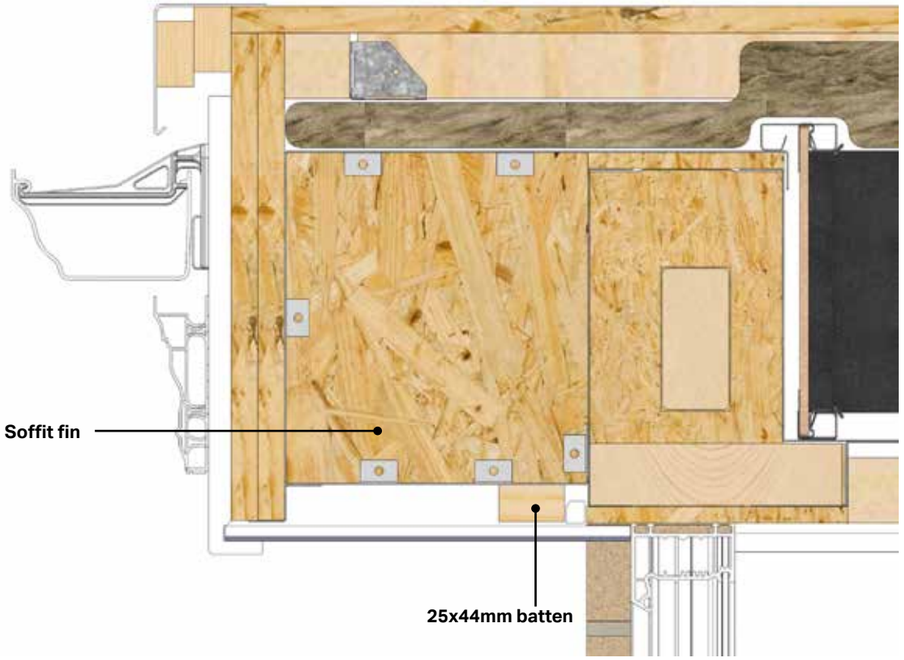
FLAT ROOF - CLASSIC PRODUCT ASSEMBLY STANDARD SOFFIT DETAILS





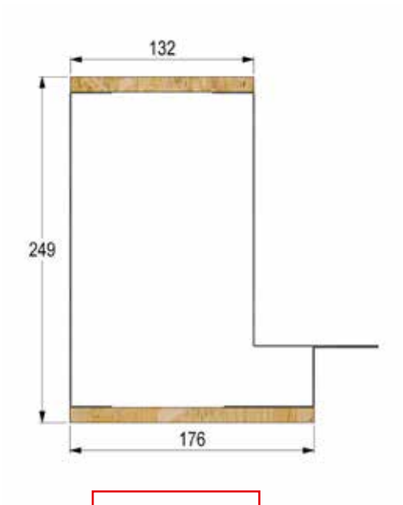
All cross sections based on a 350mm cavity wall

FLAT ROOF - CLASSIC PRODUCT ASSEMBLY
EXTENDED SOFFIT

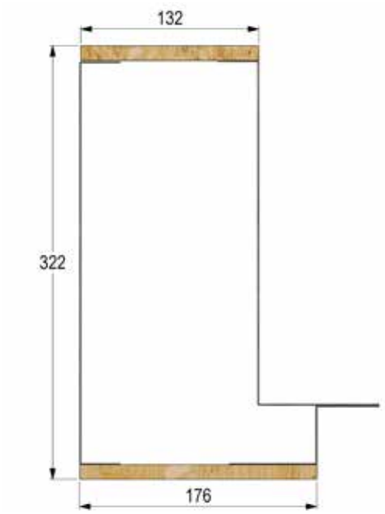


BEAM VARIATIONS

The beam may be one of two variations, driven by the structural needs of the roof ordered. These variants are standard and deep. The height is the difference between the two, with the deep being taller by 73mm.

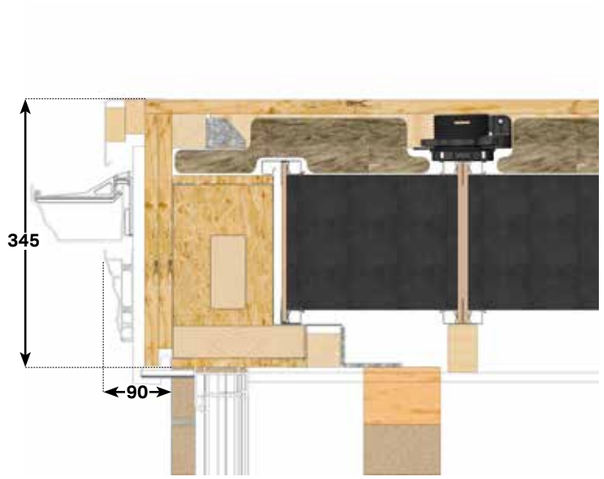


STANDARD

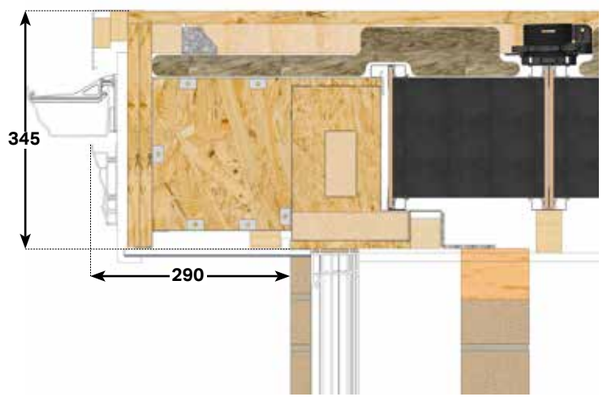


DEEP

FLAT ROOF - CLASSIC FINISH
STANDARD SOFFIT



EXTENDED SOFFIT

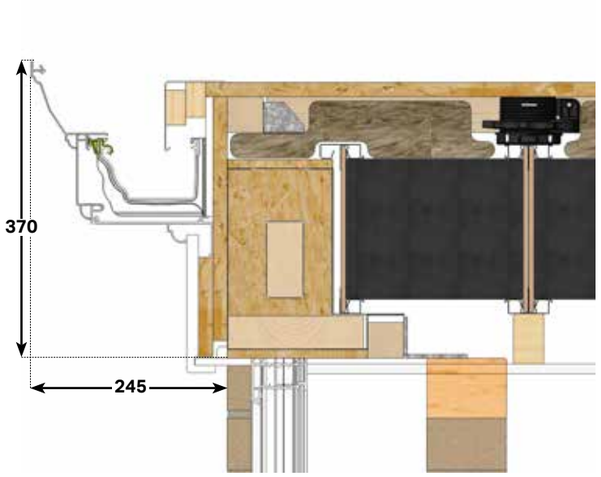


All cross sections based on a 350mm cavity wall

FLAT ROOF - CORNICE

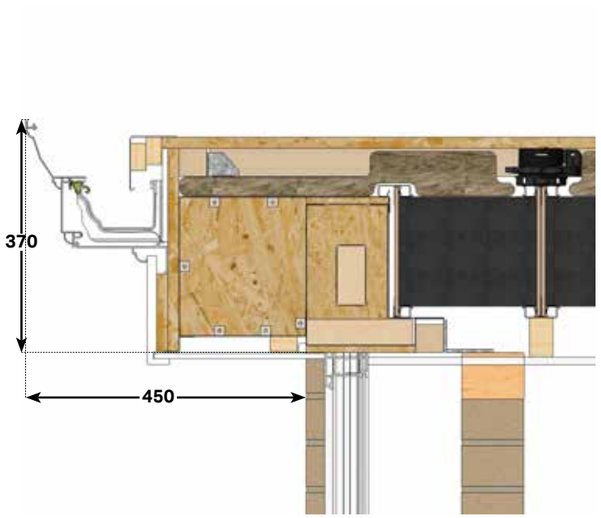
CURVED 2 TIER CORNICE - STANDARD SOFFIT

See pages 50 - 55 for installation



CURVED 2 TIER CORNICE - EXTENDED SOFFIT

See pages 50 - 55 for installation

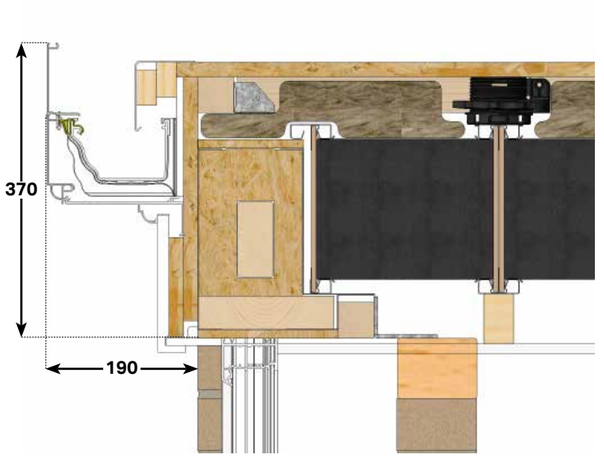


All cross sections based on a 350mm cavity wall

FLAT ROOF - CORNICE

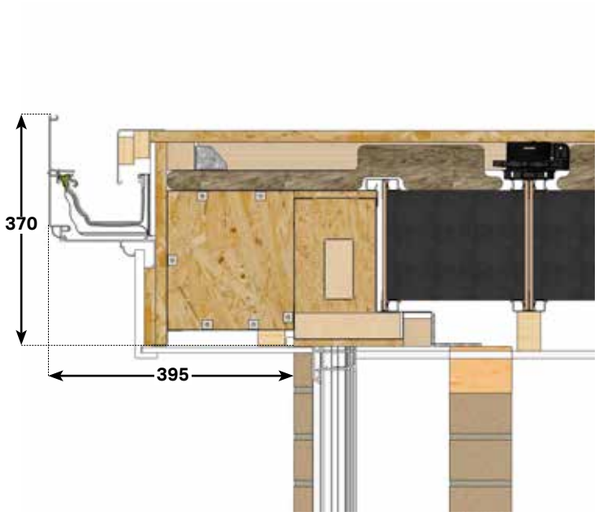
FLAT 2 TIER CORNICE - STANDARD SOFFIT

See page 50-55 for installation



FLAT 2 TIER CORNICE - EXTENDED SOFFIT

See page 50-55 for installation

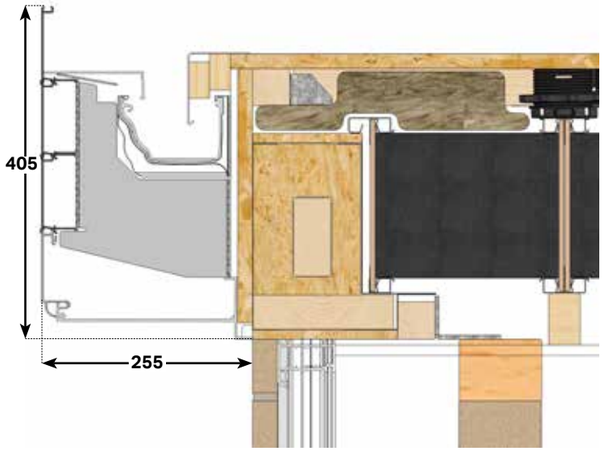


All cross sections based on a 350mm cavity wall

FLAT ROOF - CORNICE

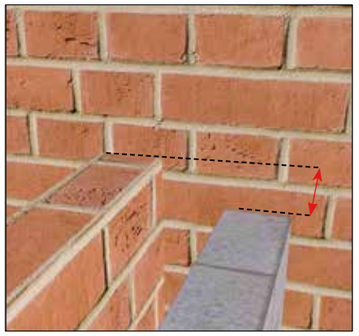
4 TIER CORNICE

See pages 56 - 62 for installation



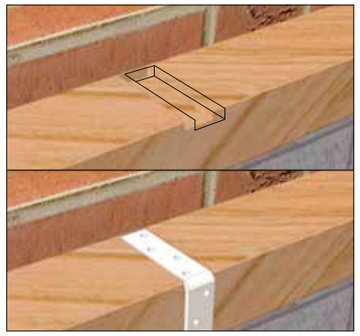
All cross sections based on a 350mm cavity wall

INSTALLATION- PREP WORK

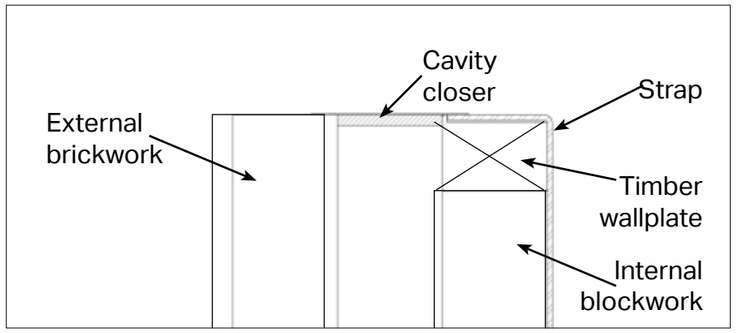


On brickwork outer walls, ensure inner blockwork wall finishes one course lower. The internal timber wallplate must finish flush with the outer wall.

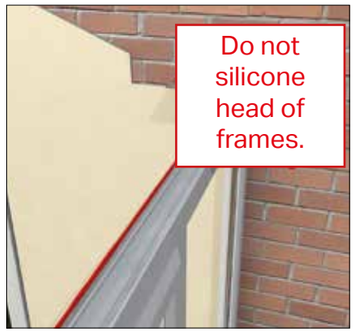
Fit the timber wallplate onto the blockwork, bedded on mortar continuously with lapped joints (even on the corners). Level and ensure mortar is fully dry before continuing.



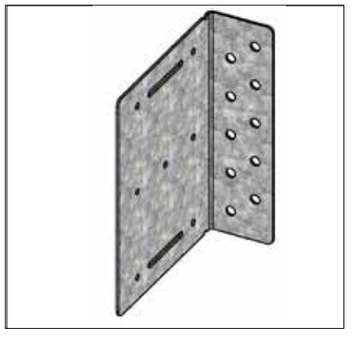
Fix the wall straps on timber wall plate at maximum 2m centres with appropriate fixings. If the cavity is below 100mm, mark position and rebate the timber to allow strap to sit into timber flush with the top.



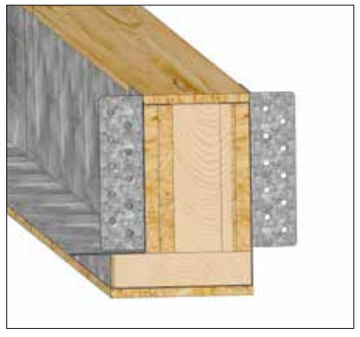
If the cavity is over 100mm, a cavity closer will be needed to ensure appropriate insulation.
Cross sections based on 350mm cavity wall.



If working with frames, ensure the frame heads are clean and free of silicone - this will allow for easy positioning of the beams.

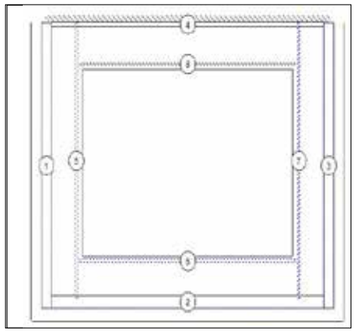


Attach the steel wall abutment brackets to the abutment side of the box beams (1 each side) via the slots using 2x GPHS provided. Do not fully tighten at this stage.

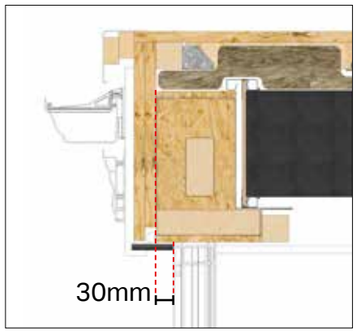


Place the wall abutment brackets loosely in line with the steels on the beam as shown above.

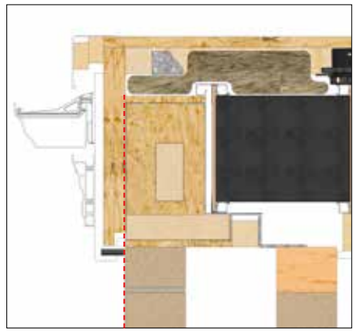
INSTALLATION - BOX BEAMS



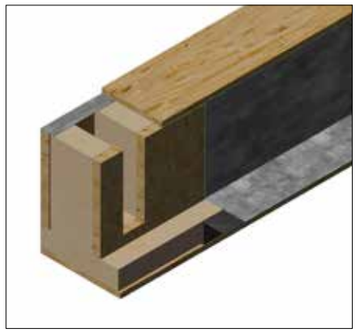
Firstly, refer to your Beam/Fascia Location Plan as each item will have a location number on them.



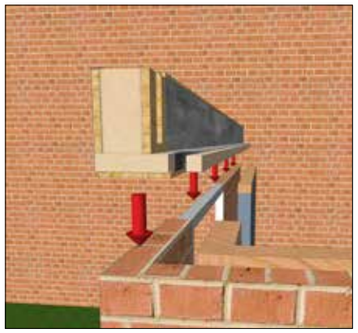
When sitting on frames, the external face of the beam should sit 30mm proud of the external face of the frame.



When sitting on brickwork, the external face of the beam should be flush with the external face of the brick.



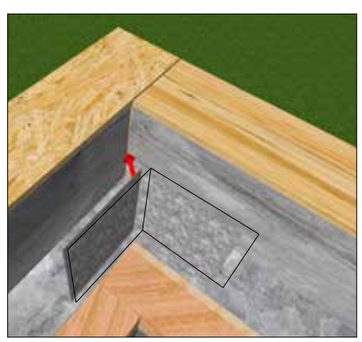
Box beams with female end (see above) to be positioned first, this will allow the box beams with the male tenons to be dropped down into place.



Once you have the relevant beam, lift the beam into position as per the above positioning depending on your situation. Prop if needed.

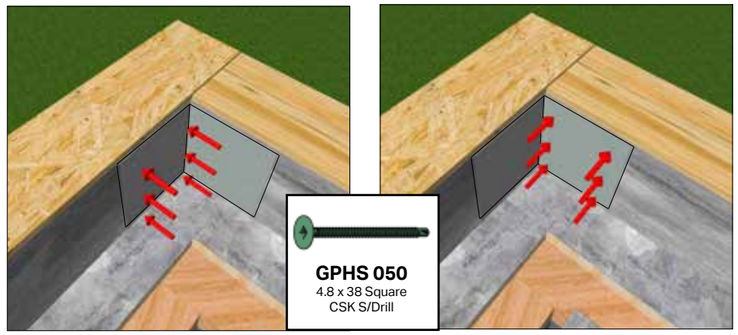
Align the opposing beam in the same way, lining beam up as above. Any gaps between the box beam and the host wall will be filled with expanding foam at a later stage.

Position the front section beam on to the structure and slot the male tenons into the female slots of the side beams. If you are only dealing with 2 beams, position the beam with the female end first. Support beam over any wide unsupported spans.

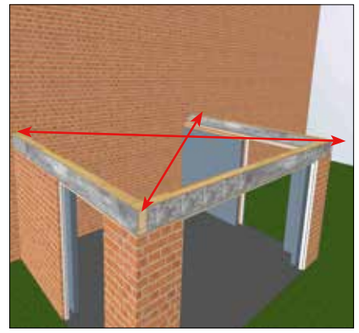


Offer up the internal cleat to the corner joint.

INSTALLATION - BOX BEAMS



Secure internal cleat using GPHS050, 6 per side and repeat for all corner joints.



Check the diagonals of the beam to check for squareness, adjust if necessary.

Once square, ensure the beam is level in both width and projection before fixing fully.

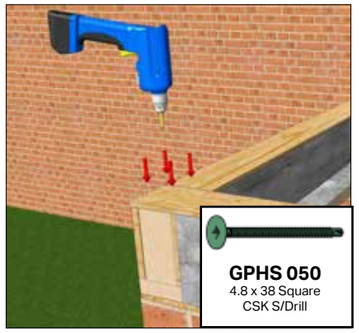
Push the loosely fitted external wall brackets up to host wall. Fix into the solid masonary with 4 suitable fixings (NOT SUPPLIED) avoiding mortar joints.

Secure the wall bracket through the remaining pre-drilled holes into the side of the beam with GPHS050, 9 fixings.

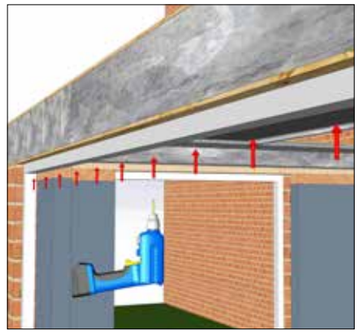
Push the loosely fitted internal wall brackets up to host wall on the opposite side. Fix into the solid masonary with 4 suitable fixings (NOT SUPPLIED) avoiding mortar joints.

Secure the wall bracket through the remaining pre-drilled holes into the side of the beam with GPHS050, 9 fixings. Then use expanding foam if necessary to fill any gaps between the box beam and host wall.

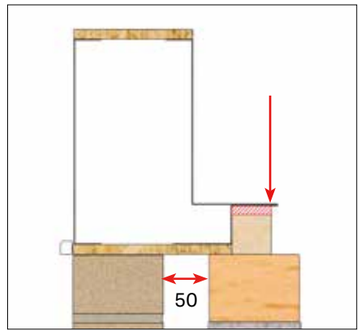
INSTALLATION - BOX BEAMS



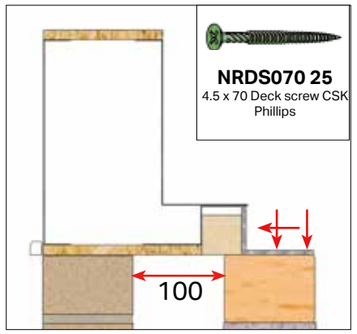
4x fixings GPHS050 required to screw through the top of the OSB into each external corner.



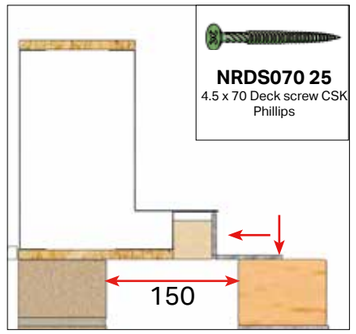
Any frames should be fixed into the underside of the beam through the frame. Fixings should be within 150mm of each corner and at 450mm centres maximum using suitable fixings (NOT SUPPLIED).



For cavities of 50mm, the gap between the timber and the shelf should be packed out and the beam should be drilled and fixed down into the timber wallplate through the shelf at 300mm centres with with suitable fixings (NOT SUPPLIED).

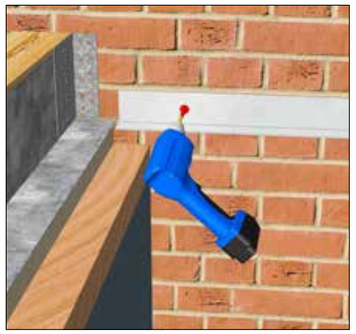


For cavities of 100mm, a box beam holding down bracket will be provided to be fit at 600mm centres, 2 fixings into beam using NRDS070 and 4 fixings into timber wallplate through the pre-drilled holes (NOT SUPPLIED).

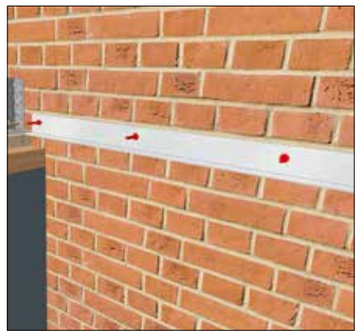


For cavities of 150mm, a box beam holding down bracket will be provided to be fit at 600mm centres, 2 fixings into beam using NRDS070 and 2 fixings into timber wallplate through the pre-drilled holes (NOT SUPPLIED).

Position angled wall plate across the host wall. The 75mm face is to be attached to the host wall. Wall plate and beam shelf should line up flush.

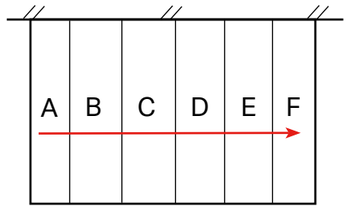


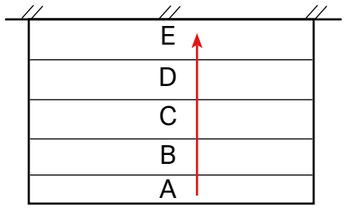
Fix at either end into host wall, 200mm from the end, ensuring it is level with appropriate fixings (NOT SUPPLIED) .



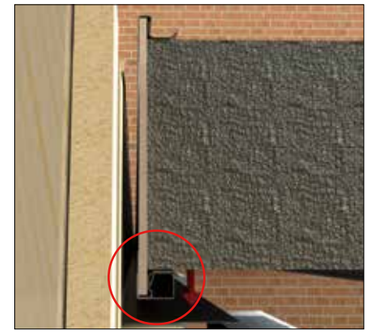
Fix along length of angle into host wall at 450mm centres maximum avoiding mortar joints with appropriate fixings (NOT SUPPLIED).

INSTALLATION - PANEL SEQUENCING
NO APERTURES OR INTERMEDIATE BEAMS



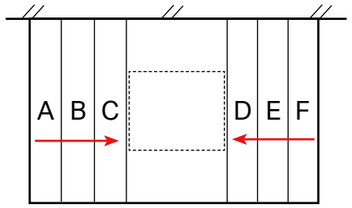


Fit panels from eaves beam working towards apertures following location plan.



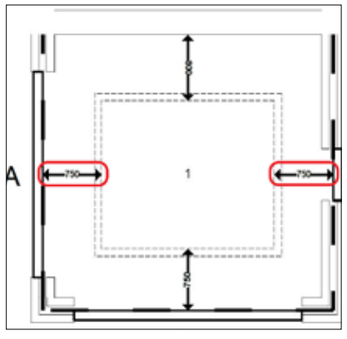
Panels running parallel with the eaves beam or host wall will have a prepared half clip already attached to the panel. This should be placed on the inside face of the shelf as per above. Once all the panels are in place, unband and use expanding foam if needed. Carry on to installing the steel clips on page 29.

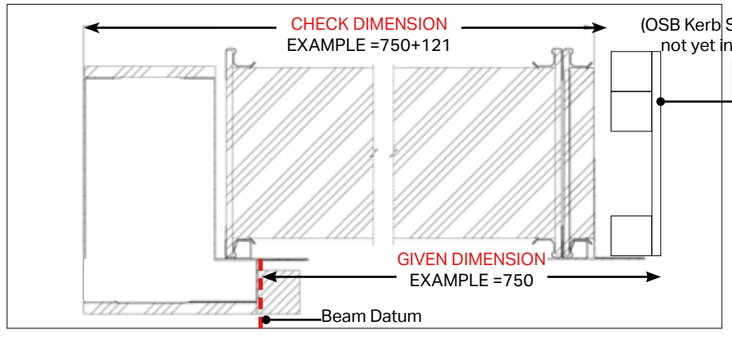
APERTURES WITH TRIMMER SHELF



When an aperture is involved, install the longest panels first on either side of the trimmer, away from the beams. DO NOT REMOVE ANY BANDING YET.

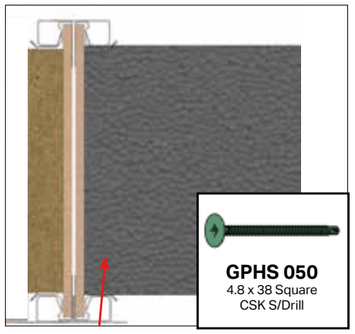
Once the two longest sides are in, install the trimmer shelves by sliding them under the adjacent panels and fixing them through the adjacent panels at 500mm centres using the NRDS070 fixing to hold them in place.



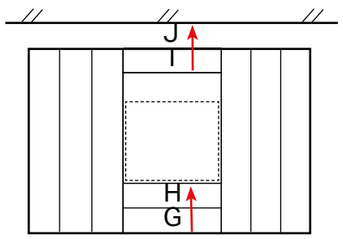


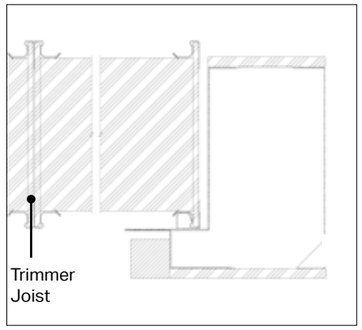
To check that the trimmer panels are sat in the correct position, take the 'rooflights' page of the confirmation sheets in the site pack which gives the apertures position. Take the dimensions for the left and right positioning and add **121mm** to either side to give you the dimension from the external face of the beam to the internal face of the trimmer shelf. This can be used to check that the trimmer shelves are sat in the correct position. In the example on the left, the dimension given is 750mm, therefore the check dimension would be 750 + 121 = 871mm.

INSTALLATION - PANEL SEQUENCING
APERTURES WITH TRIMMER SHELF CONTINUED

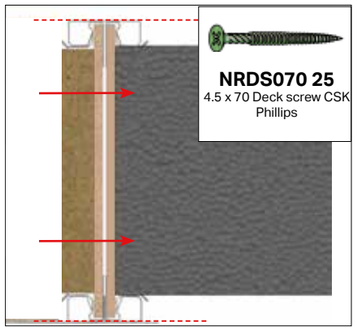


Then, fix upwards through the base of the trimmer shelf via the pre-drilled holes into the panel above at 600mm centres using GPHS050 through every other hole.

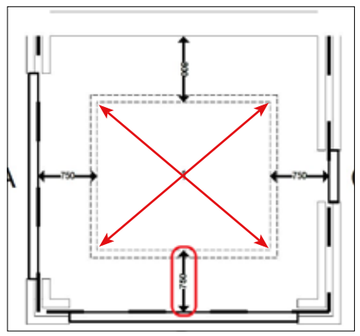




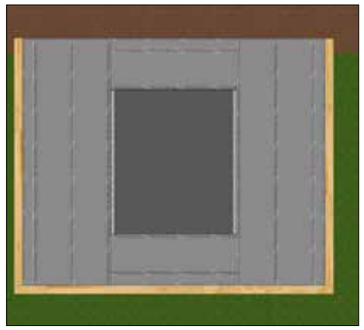
Move onto the shorter panels and trimmer joists, working backward towards the host wall. Following the same sequence as above, placing the panels first, then the trimmer joist fixing at 500mm centres using the NRDS070 fixing.



Ensure the panel adjacent to the trimmer joist is sat on the shelf correctly and the top of the trimmer lines up with the top of the panel.

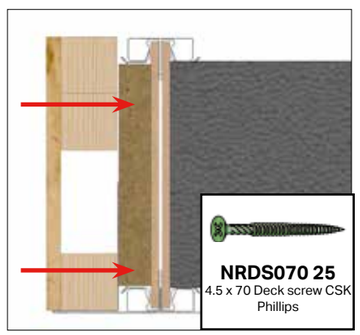


Finally, check the position of the aperture from the external face of the front beam backwards. Check diagonals for squareness and aperture size before progressing further.

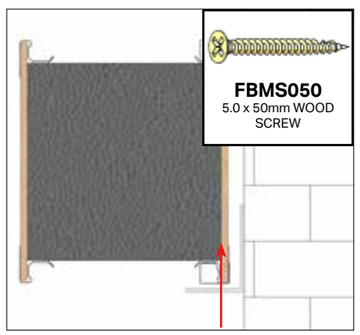


Unband the panels and use expanding foam if need be at the host wall.

Place the OSB kerb support onto the trimmer shelf ensuring the 2 sets of 2x2 are on the top face of the roof facing away from the aperture opening.

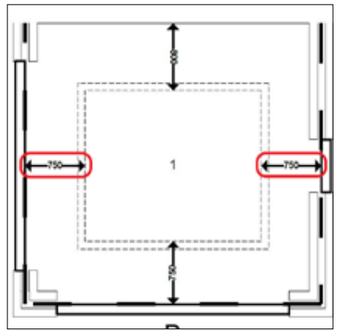


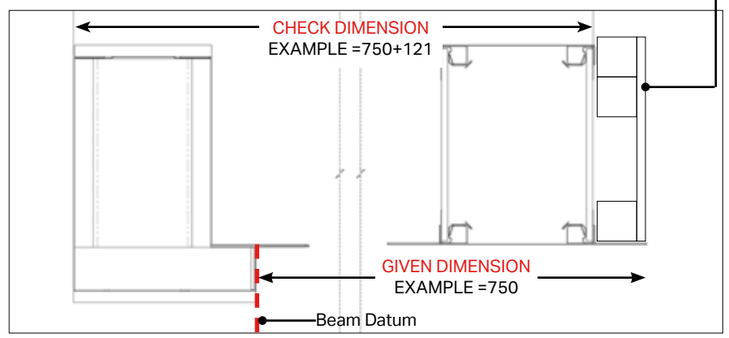
Secure using NRDS070 through the top and bottom sections making sure to fix through the 2x2. 2x fixings per 300mm centres.



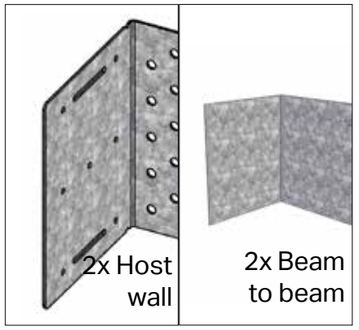
For the panels running parallel with the host wall, fix up through the angled wall plate into the panel using FBMS050 at 300mm centres maximum.

INSTALLATION - PANEL SEQUENCING
INTERMEDIATE BEAMS



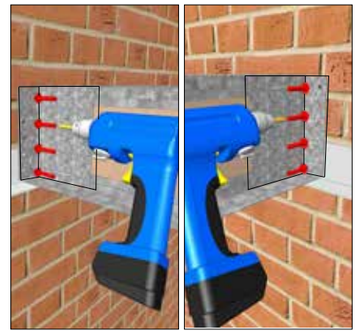


Use the dimensions on your 'Rooflights' page of the site pack to the intermediate beam (may differ from the picture above depending on your panel orientation). Add 121mm to this dimension to give you a setout dimension from the external face of the beam to the internal face of the intermediate beam. Mark up beam and place intermediate beam onto beam shelf and host wall angle in position. In the example on the left, the dimension given is 750mm, therefore the check dimension would be 750 + 121 = 871mm. Please note: Intermediate beams **must** be supported until completion.

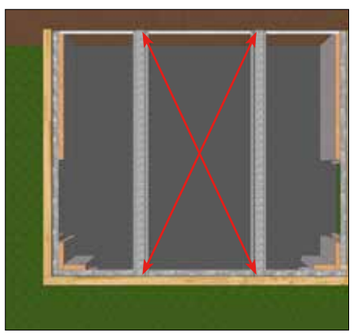


4 brackets are now used to fix the intermediate beam into place. 2x host wall bracket and 2x internal beam cleats are to be provided per intermediate beam.

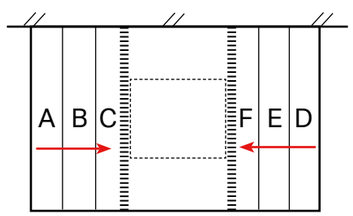
Fix the wall brackets in the same way as the eaves beams, secure the wall brackets through the remaining pre-drilled holes into the side of the beam with GPHS050, 9 fixings either side of the intermediate beam.



Push external wall brackets up to host wall. Fix into the solid masonry with 4 suitable fixings (NOT SUPPLIED) avoiding mortar joints.

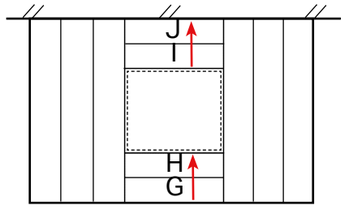


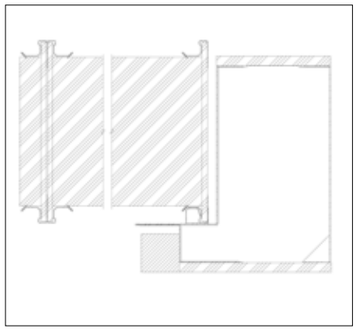
Double check the intermediate beam are in the correct position with the check dimensions and ensure square before continuing.

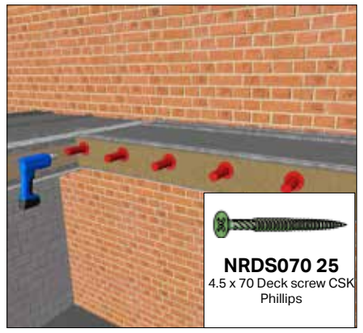


Next, start placing the longest panels first on either side of the intermediate away from the beams. DO NOT REMOVE ANY BANDING YET.

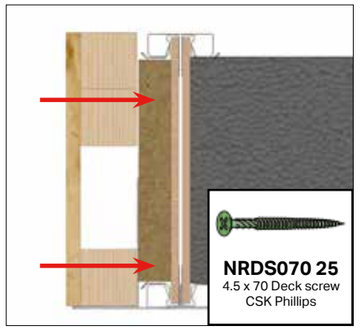
INSTALLATION - PANEL SEQUENCING
INTERMEDIATE BEAMS CONTINUED



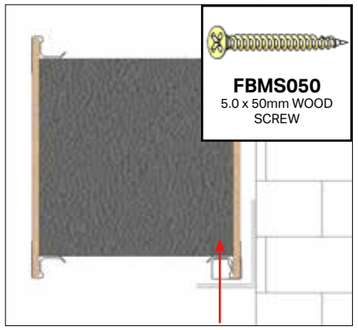




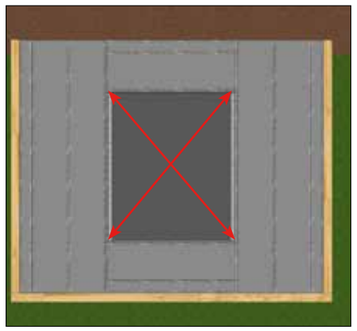
Move onto the shorter panels and trimmers, working backward towards the host wall. Following the same sequence as above, placing the panels first, then the trimmers fixing at 500mm centres using the NRDS070 fixing, and then finally checking the position of the aperture from the external face of the front beam backwards. Finally, check diagonals for squareness before progressing further. Once all the panels are in place, unband and make good if needed.



Place the OSB kerb support onto the intermediate beam shelves ensuring the 2 sets of 2x2 are at the top and face away from the aperture opening. Secure using NRDS070 through the top and bottom sections making sure to fix through the 2x fixings per 300mm centres.

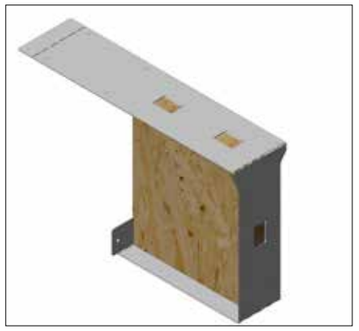


For the panels running parallel with the host wall, pre drill the angled using a 6mm drill bit at 300mm centres then fix up through the angles wall plate into the panel using FBMS050.

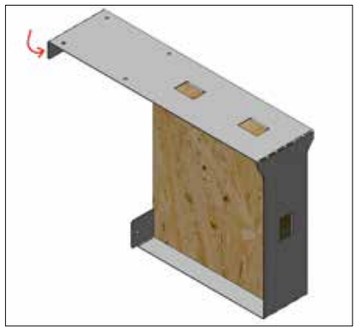


Double check the diagnonals for squareness before continuing.

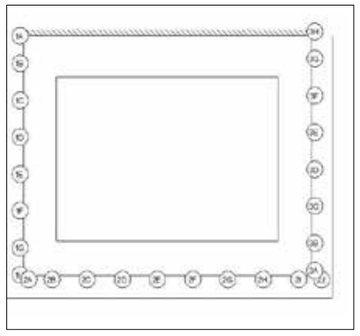
INSTALLATION - FIN (EXTENDED SOFFIT ONLY)



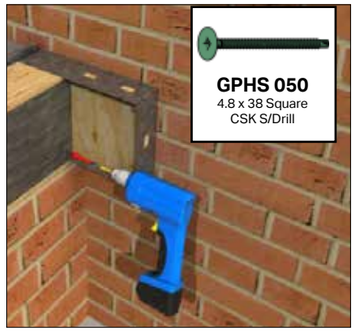
You may have a job with an extended soffit and need to fit the soffit fins on the outside of the eaves beams that look like the above.



The tab will need bending down on each like above so that the fin can hook over the beam like in the image above.

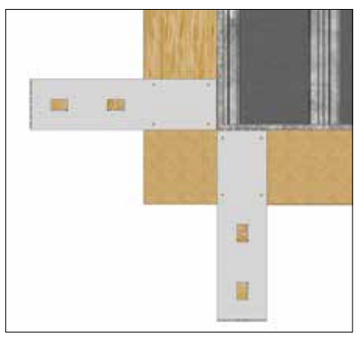


Find your fin location plan paperwork in the site pack, this will roughly show you where they should be located.



Fit the host wall fins first, they should be positioned directly up to the host wall. Fix fin down into box beam through the 4x pre-drilled holes using GPHS050 fixing.

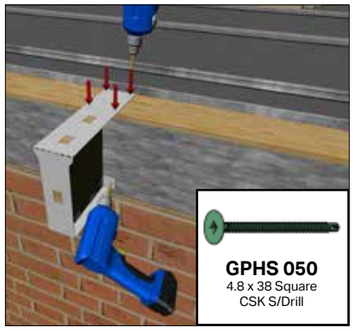
Then, secure into the front face of the beam.



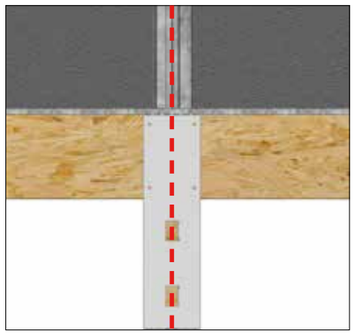
Fit the corner fins next, placing them as close into the corners as possible. Fix fin down into box beam through the 4x pre-drilled holes using GPHS050 fixing. Then, secure into the front face of the beam through the pre-drilled holes using 2x GPHS050 fixings as above.

When the panels are running parallel to the box beams, refer to the location plan for how many are placed there and fix them at no more than 600mm centres equally positioned.

INSTALLATION - FINS BRACKETS (EXTENDED SOFFIT ONLY)

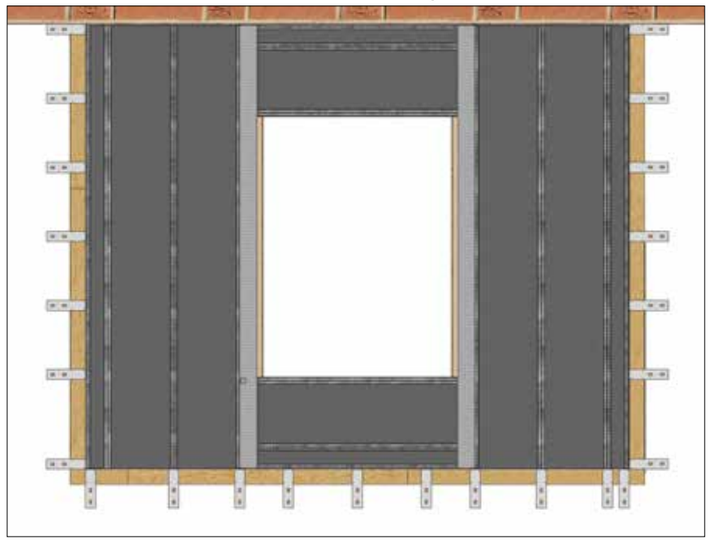


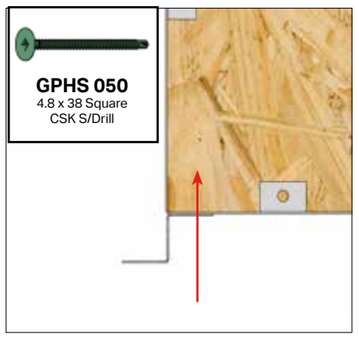
Fit in the same way as before into the pre-drilled holes using 6x GPHS050 fixings, 4 down into the top of the beam and 2 into the front face of the beam.



You can continue to fit the rest of the fins around the roof. Where the panels are running perpendicular to the beams, the fins should line up with the panel joints.

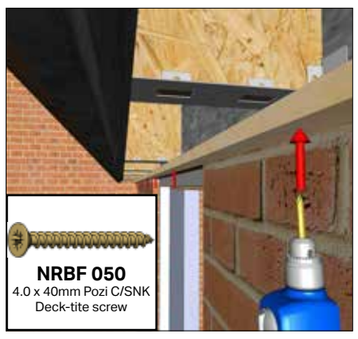
Finished fins should look something like the below:





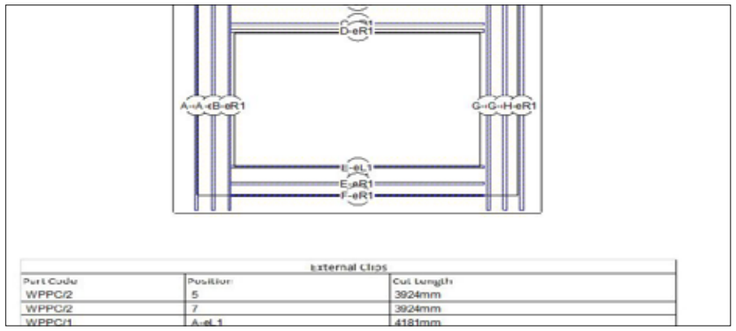
Position the Z section as above on the end of the fins. Secure the Z section to the base of the fin using GPHS050, 1 per fin. Continue around the perimeter - you will need to cut the Z section to size.

Secure Z section at corners using GPHS050.



Position the tile batten under the fins and against the external brickwork. Secure to the underside of the fins using NRBF050. Once completed around the roof, move on to installing the external clips.

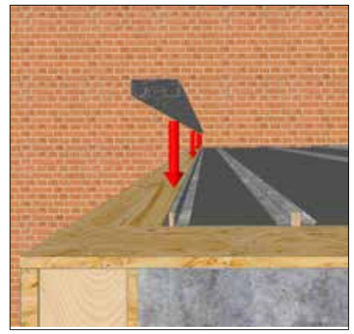
INSTALLATION - EXTERNAL PANEL CLIPS



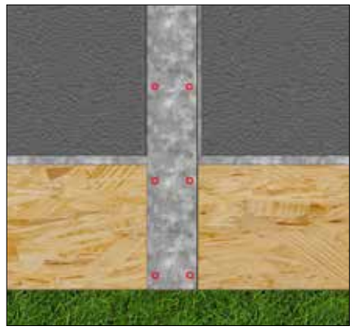
External Clips

Part Code	Position	Cut Length
WPPC/2	5	3924mm
WPPC/2	7	3924mm
WPPC/1	A-eL1	4181mm

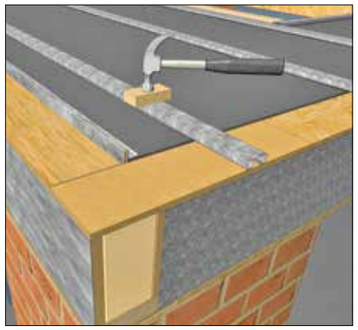
Refer to your 'External Clip Location plan' that is in your site pack for locations and lengths of external clips that will be provided.



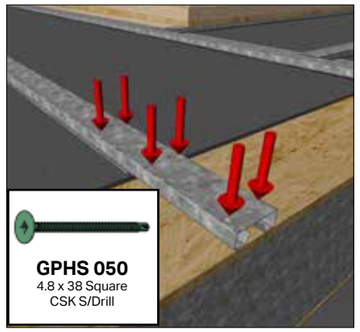
Please read the label on the clip in conjunction with the clip location plan. Lay external clip into position ready for securing.



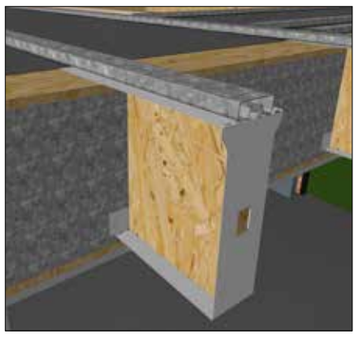
When positioning external clips, line the clip up with the end of the beam and ensure the pre drilled holes are aligned towards the beam end when panel joint is running perpendicular to the beam.



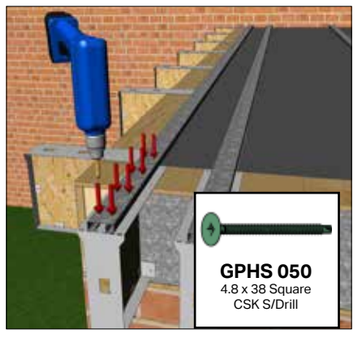
When aligned, use a hammer or robust mallet to knock down the external panel locking clips (use a short length of timber to protect the clip from indentations).



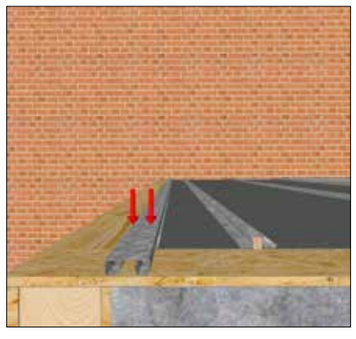
Secure clips down with GPHS050 provided into pre drilled holes into panel and beam, 6x per clip.



If your job has fins, the clip will extend over them. Ensure they do not protrude any further than the fin.



In this case, secure using GPHS050 into pre drilled holes either side of the external clip into fin, beam and panel, 8x per clip.

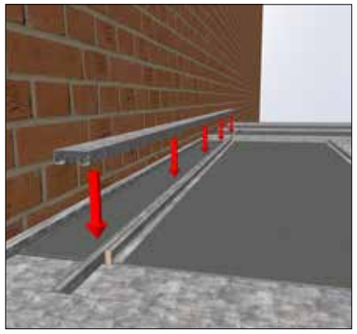


When installing the external clip running along the beam, there will be a series of pre-drilled holes.

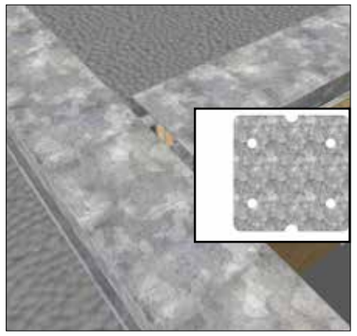
INSTALLATION - EXTERNAL PANEL CLIPS

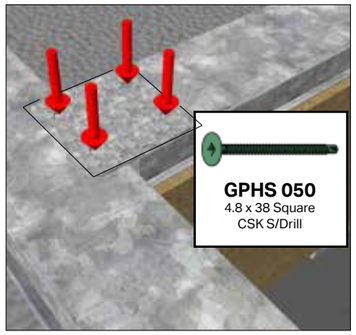
Secure the clip into the panel first using the GPHS050 into the pre-drilled holes.

Secure along the clip into the beam using FBMS050 5.0 x 50m Multipurpose screw.

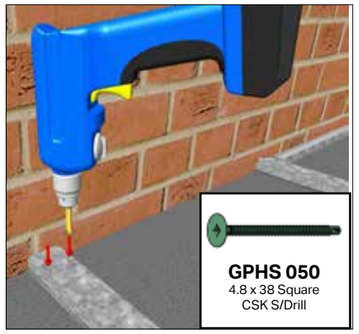


Position the rest of the external clips as per the location plan, please note that there is no external clip at the host wall.



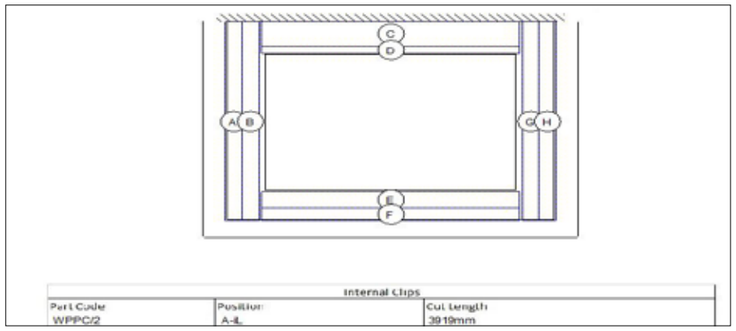


Once all the clips are positioned, for any external clips that butt up to other external clips, a tab plate is used to secure them together using 4x GPHS050 fixings. Do not place the four tab plates around the corners of the aperture, fixing these will cause the kerb not to sit correctly.

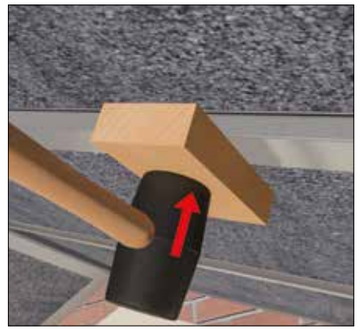


Secure the external clips at the host wall through the pre drilled holes using 2x GPHS050.

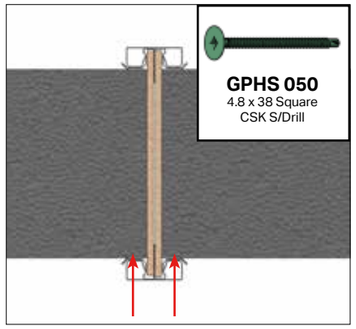
INSTALLATION - INTERNAL PANEL CLIPS



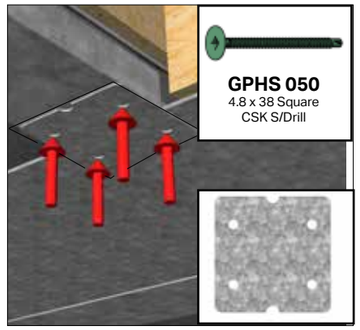
Refer to your 'Internal Clip Location plan' that is in your site pack for locations and lengths of external clips that will be provided.



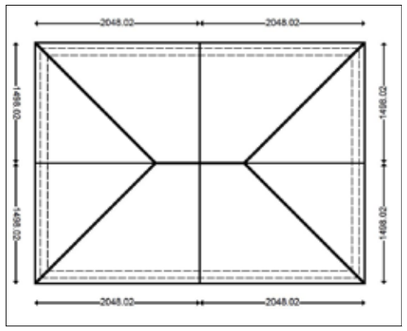
When clip is aligned, use a hammer or robust mallet to knock up onto the panel locking clips (use a short length of timber to protect the clip from indentations).



Screw up through the pre-drilled holes of the internal clips into the panel to secure using GPHS050 fixings.



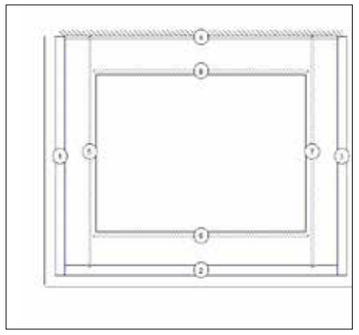
INSTALLATION - KERB



Lantern Information	
Internal Kerb Width	3770mm
Internal Kerb Height	2670mm
External Kerb Width	3946mm
External Kerb Height	2846mm
Internal Material	PVC
External Material	Aluminium
Internal Colour	RAL-9003 Signal White 80% gloss
External Colour	RAL-7016 Anthracite Grey 30% gloss
Glass Type	Unglazed
Glass Area	0m^2

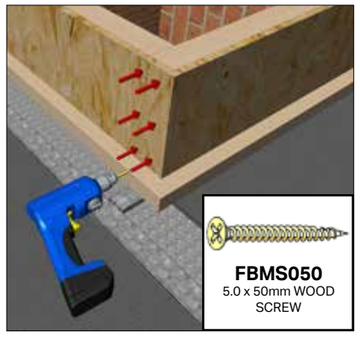
Before starting the kerb installation, double check the sizes and diagonals for squareness and size against the order confirmation for the aperture. A minimum of 2 people are required to place and fit the kerb. It is also best practice to support each corner of the aperture with a prop.

ENSURE ROOF IS BOARDED OUT FOR SAFE STANDING BEFORE FITTING KERB

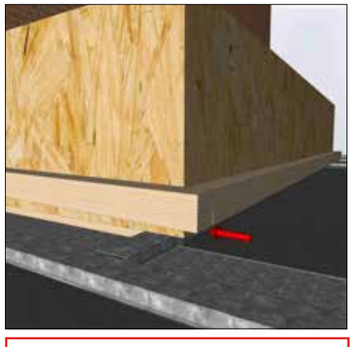


Refer to the location plan for the position of the first section of the kerb.

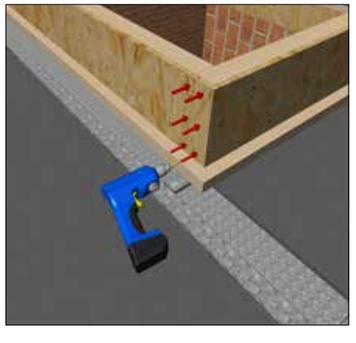
Place 1st section of kerb into place. Do not screw down into place until the kerb is fully assembled.



Place the 2nd section of the kerb into position and fix through the side into the opposing kerb using 6x FBMS050 fixings.



Fitter's tip: due to timber tolerances there may be a need to place 150mm deck screw through the underside of the 2x batten (opposite side to the main screws) to ensure the base of the kerb meets with the opposing side.



Repeat this process to all the other corners.

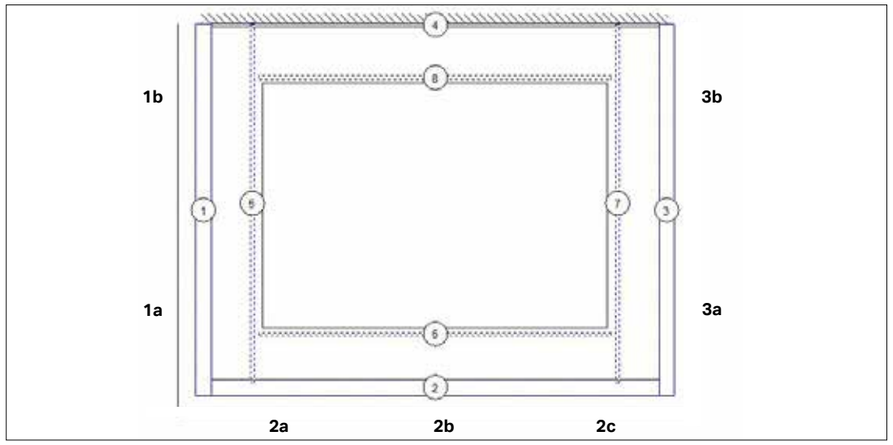
Once all 4 corners are secured together, position centrally over the panel clips if not already. Take diagonal measurements to ensure the aperture is square.

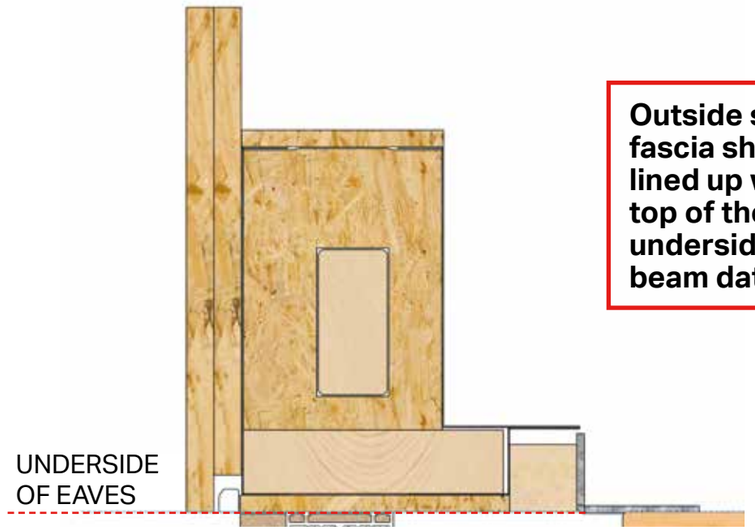
INSTALLATION - KERB

Once the kerb is in the correct position, secure to the steel clips by fixing at an angle through the base of the kerb using NRDS070 at 300mm centres.

INSTALLATION - STANDARD OSB FASCIA

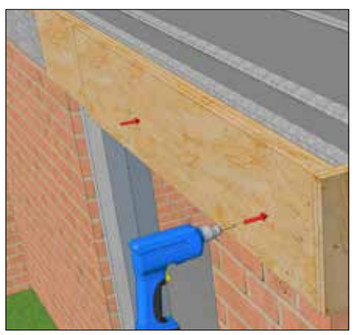
EXAMPLE OF FITTING SEQUENCE BELOW



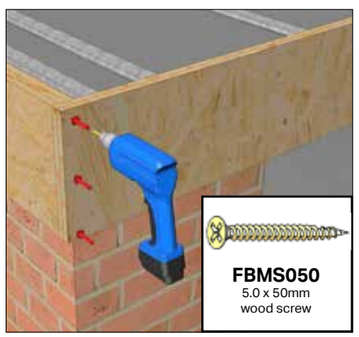


Outside skin of OSB fascia should be lined up with the top of the frames/ underside of eaves beam datum

Position OSB fascia 1a against the outside face of the external beam, lining it up with the underside of the eaves beams as above and at the end of the eaves beam.



Temporarily secure until the 2nd OSB fascia is in place.



Offer up OSB fascia 2a ensuring it is lining up with the outside face of 1a and then secure through the corner into panel 1a before securing them both to the beam, 3 fixings per corner (drill through first on corner to avoid splitting) and 3 fixings per 400mm using FBMS050.

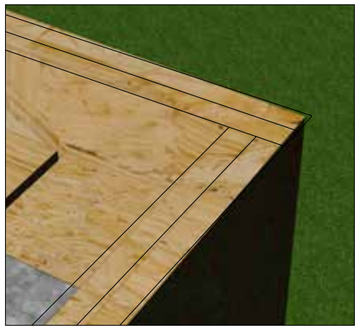
INSTALLATION - STANDARD OSB FASCIA

Panel 2a should sit past the external face of beam 1 (in this example) and finish flush with the outside face of OSB fascia1a as above.

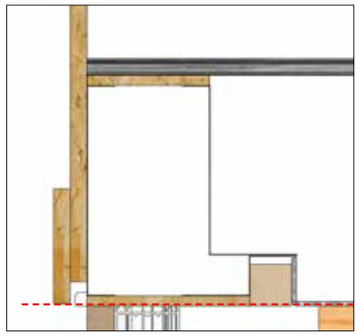
Place OSB fascia 1b, overlapping the first fascia.

Once aligned, fix through the joint of the two OSB fascia using 6 fixings and then continue to fix into the beam using 3 FBSM050 fixings per 400mm centres.

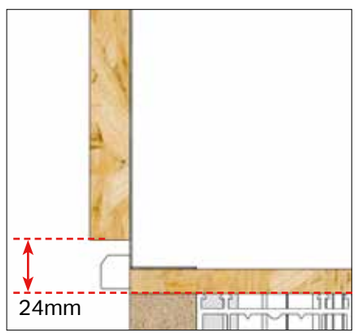
Continue placing and fixing OSB fascia as above across the front elevation and on the return.

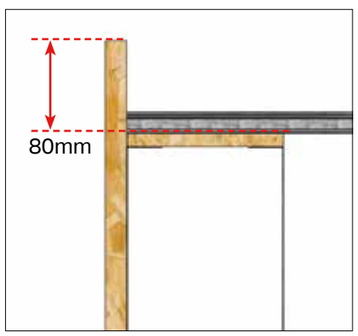


The corner overlap on the opposite side will end slightly different to the first corner. The front elevation OSB fascia will finish flush with the end of the beam and the side OSB fascia will sit flush with the external face of the front OSB fascia.



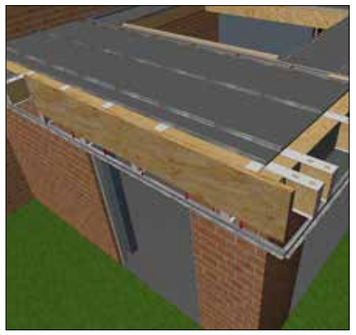
If you have a standard two tier cornice, the OSB fascia will look slightly different but the outside OSB fascia still lies flush with the bottom of the beam as above.





If you have a four tier cornice, there is only a single skin of OSB fascia rather than two. In this instance, the board should sit 24mm above the underside of the beam or 80mm from the top of the beam to the top of the OSB fascia.

INSTALLATION - EXTENDED OSB FASCIA



1a onto the Z section, start at the front left hand corner and align the end of the fascia to the end.

Clamp the fascia to the fin if possible, then temporarily fix into fins using FBMS050 until full elevation is in place.

Place fascia panel **1b** into place overlapping panel 1a.

Fix through panel into fin temporarily using FBMS050 fixings.

Use a prop to level up the joint before the final fixings.

INSTALLATION - EXTENDED OSB FASCIA

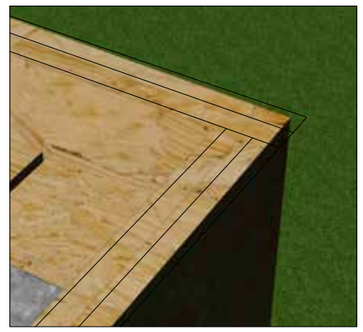
Once level, fix through the joint of the two panels using 6x FMSM050 fixings.

Continue across the elevation securing the fascia panels into the fins, 6x FBMS050 fixings per fin.

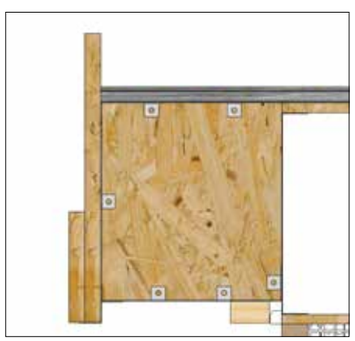
Align panel **2a** into position, the flush end of the panel should end up flush with the outside face of OSB fascia panel 1a. Fix through the corner into 1a using 3x FBMS050 fixings (drill through first on corner to avoid splitting).

Continue placing and fixing OSB fascia panels as above across the front elevation and on the return.

OSB fascia 2a should sit past the external face of beam 1 (in this example) and finish flush with the outside face of OSB fascia 1a as above.



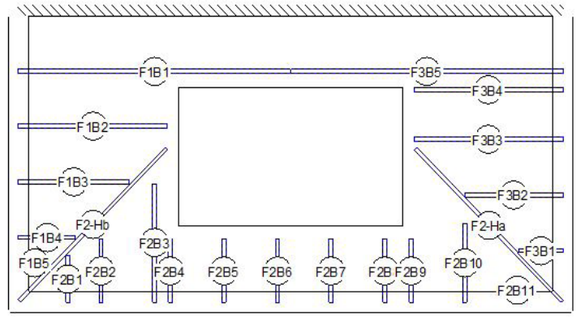
The corner overlap on the opposite side will end slightly different to the first corner. The front elevation OSB fascia will finish flush with the end of the beam and the side OSB fascia will sit flush with the external face of the front OSB fascia.

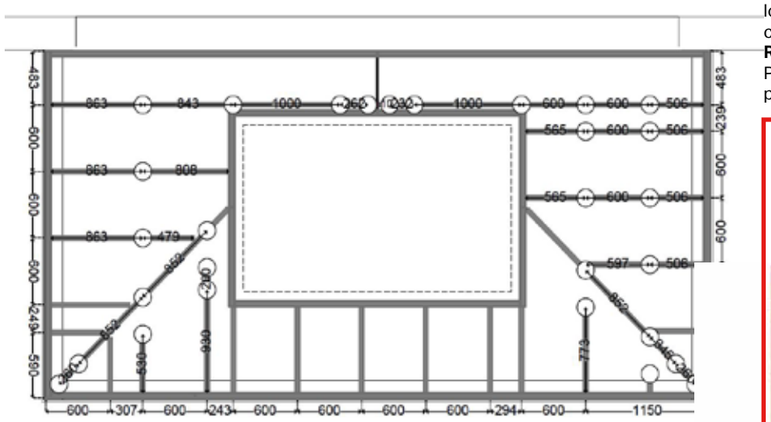


If you have an extended two tier cornice, the OSB fascia will look slightly different but the OSB fascia still sits on the Z section like above.

PITCHLOCK

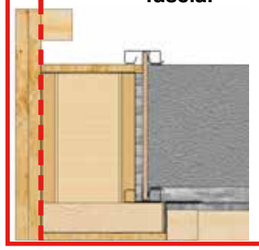
When starting on the Pitchlock, it is good practice to lay out each batten in its correct location before starting to fit them. This allows you to ensure everything is there and for quicker sorting and fitting as you go along. Consult your **Pitchlock Location Plan** which identifys which batten will be positioned where.



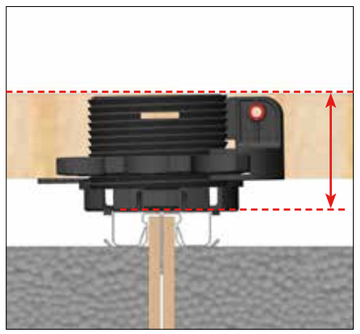


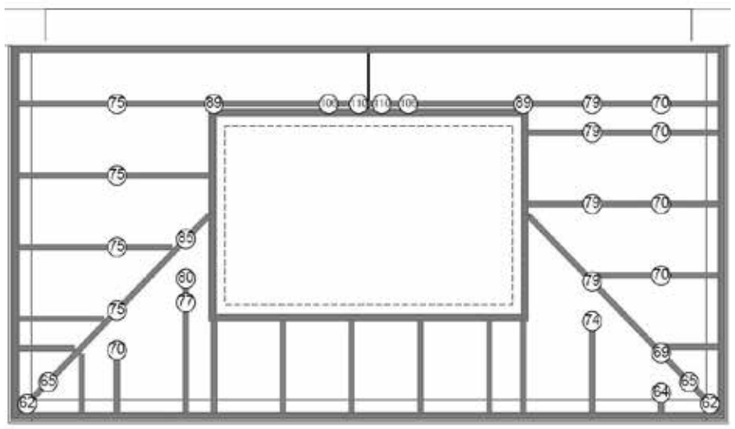
Once your fall battens are in the correct location, the position of the Pitchlocks can be found on the **Pitchlock Dimension Report** in your site pack. This gives the Pitchlock and firring positions. These positions are to the centre.

Please be aware the pitchlock location dimensions are from the internal face of the OSB fascia.

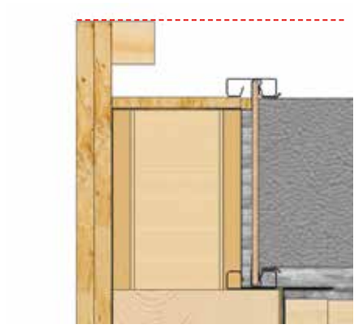


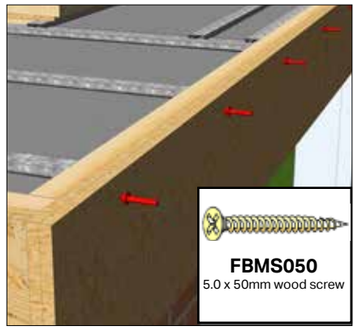
The final report you will need is the **Pitchlock Heights Report** which gives you the setting heights for each Pitchlock on your job. Dimensions given are from the top of the steel clip to the top of the 2x2 batten:

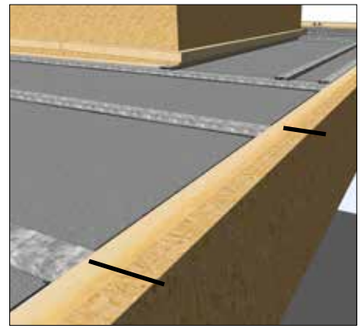




PITCHLOCK

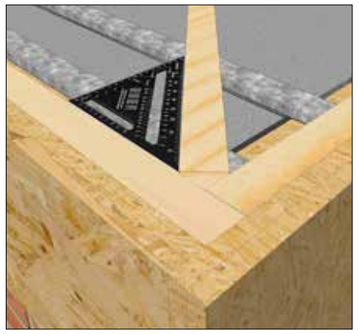


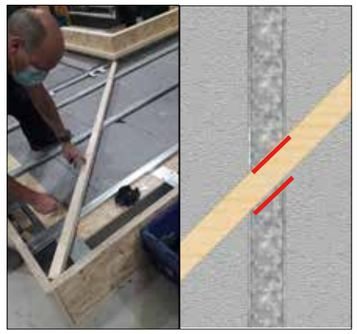


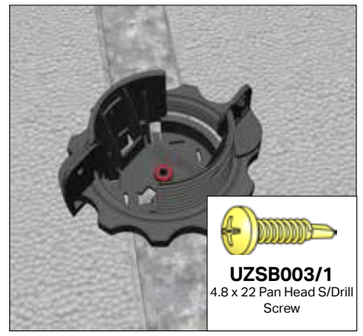


First, fit the perimeter 2x2 battens on the inside of the OSB fascia. Fix using FBMS050 through the OSB fascia into the batten at 600mm centres. Battens should be flush with the top of the OSB fascia.

Next, use the Pitchlock Dimension Report to mark out firring centres on the top of the OSB fascia. Remember that the dimensions given are from the internal face of the OSB fascia.



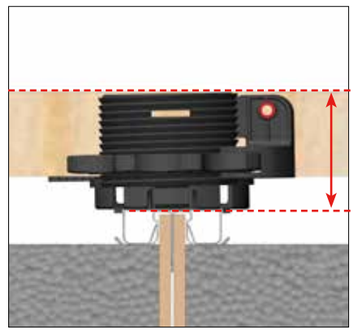




Start with the hip positions. Place the firring into the outer corner at a 45° angle.

On each clip that intersects with the firring, mark either side of the 2x2 ready for the pitchlocks to be fitted. Follow the location plan for Pitchlock positions.

Place your Pitchlock centered in the middle of the markings and on the clip with the arrow pointing towards the way of the fall, in the instance of the hips this will be towards the OSB fascia corner. Secure through the Pitchlock into the clip through the centre hole using 1x UZSB003/1 fixing.



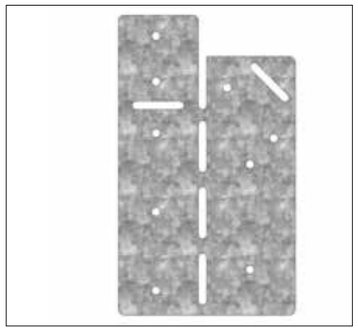
Continue placing and securing Pitchlocks inline and in conjuction with the location plan, placing them no further than 1m apart. Once completed, place firring in position.

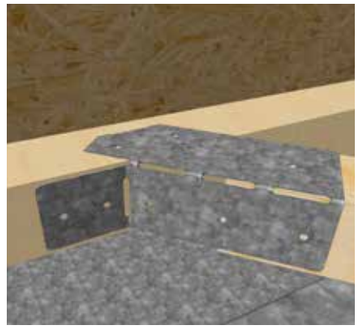
Set your Pitchlocks to the height dictated on the Pitchlock Heights Report using a tape measure. Heights stated are from the top of the clip to the top of the batten using a tape measure.

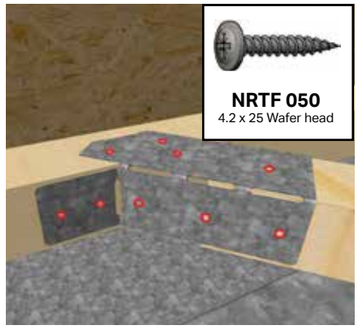
Once the heights are set, secure the firring to the Pitchlock through the holes on either side of the Pitchlock using 2x NRTF050 per Pitchlock.

The top of the hip firring should align flush with the front fascia and the kerb perimeter batten

PITCHLOCK

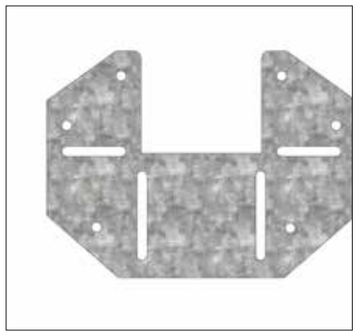


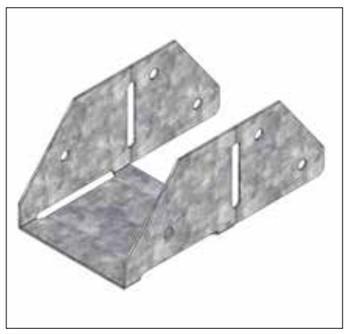


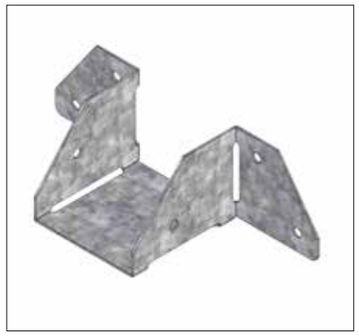


Next, fix the hip steel plates shown above. Fold to suit the shape needed to connect the hip firrings to the kerb batten. Example shows folded plate in place. You may need to break the corner off using the long slot if it interferes. This fold will differ job to job and firring to firring.

Secure the hip steel plates with up to 9x NRTF050 fixings where applicable through the pre-drilled holes.



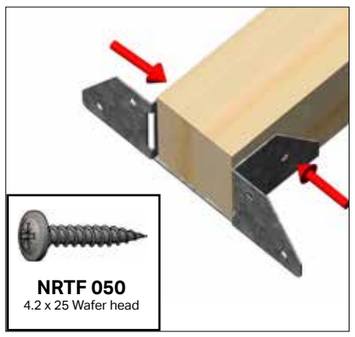


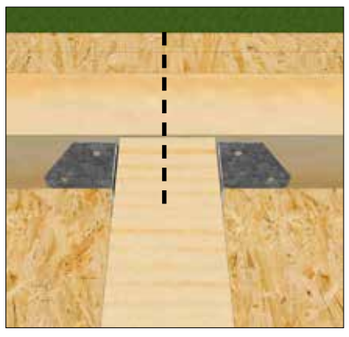


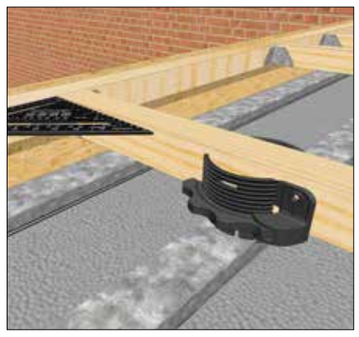
Now fix the joist hanger plates that require folding as follows.

Firstly, the sides will fold up as shown above.

Then fold the sides outward to form your joist hanger.







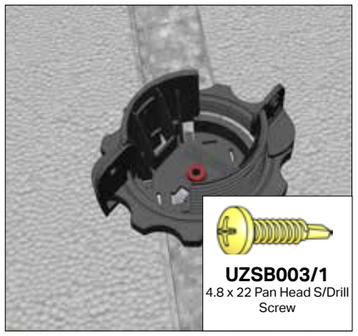
Now you can move onto fitting the jack rafters moving away from the hip. Locate your jack rafter firrings. A good tip is to secure a joist hanger on one end of the jack rafter firrings first for easy fitting. These should be fit using 2x NRTF050 per joist hanger on either side of the 2x2.

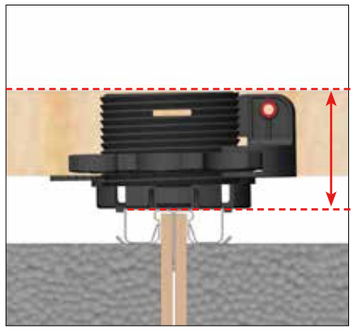
Using the location plan, position the firring in line with your marker. This is to the centre of the 2x2 firring.

Position a pitchlock under the timber firring and mark its position. A pitchlock is not always required on a jack rafter firring so always check the location plan.

Ensure the use of a set square is used to position the jack rafter square to the fascia panel

PITCHLOCK

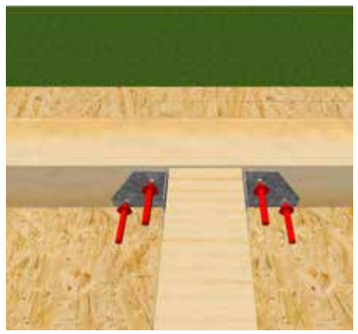


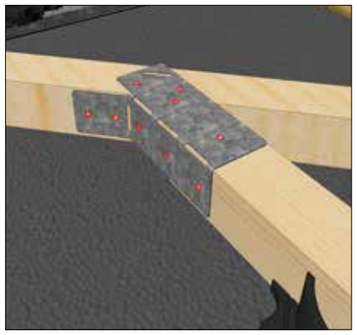


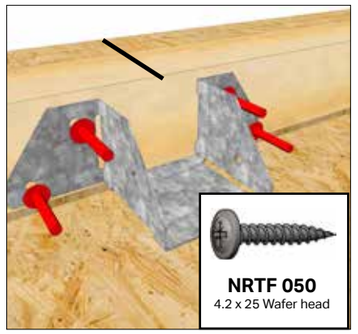
Place your Pitchlock centered in the middle of the markings made on the clip with the arrow pointing towards the way of the fall, in the instance of the hips this will be towards the OSB fascia corner. Secure through the Pitchlock into the clip through the centre hole using 1x UZSB003/1 fixing.

Set your Pitchlocks to the height dictated on the Pitchlock Heights Report using a measure. Heights stated are from the top of the clip to the top of the batten.

Once the heights are set, secure the firring to the Pitchlock through the holes on either side of the Pitchlock using 2x NRTF050 per Pitchlock. This locks the pitchlock into position.



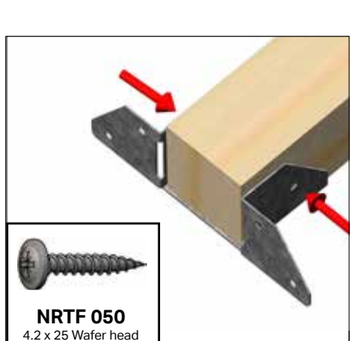


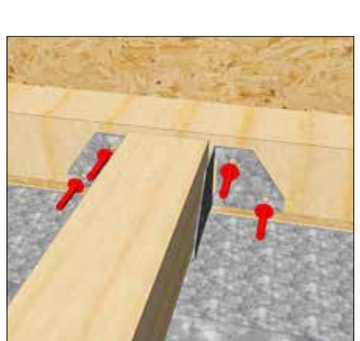


Secure the joist hanger in place into the perimeter batten using 4x NRTF050 fixings ensuring the tops of the adjoining 2x2's are flush.

Where the jack rafter firrings meet the hip, secure with one of the hip steel plates with up to 9x NRTF050 fixings as required.

Once the jack rafter firrings are positioned and secured, the rest of the firrings can be placed. A good way to approach this is to go around the roof and secure all the joist hanger plates into position centered on your marks according to the location plan.



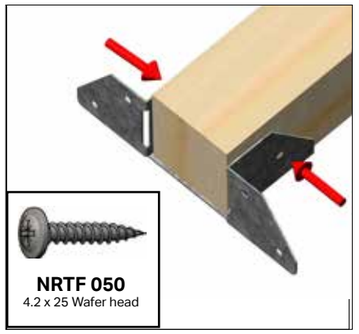


Then for each firring that will be meeting the kerb, fit a joist hanger to one side of the timber.

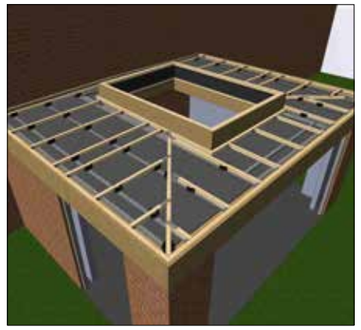
Then, offer these timber firrings into your fixed joist hangers, position and pitchlock where needed as per the location plans and follow the sequence above.

Then fix the joist hanger already pre-attached to the firrings into the kerb perimeter batten using 4x NRTF050 fixings per joist hanger.

PITCHLOCK

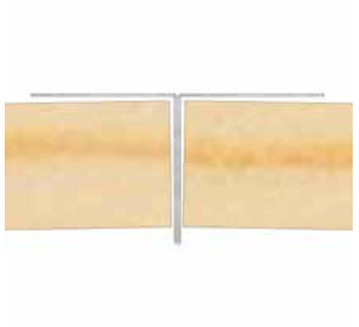


Then for each firring that will be meeting the fixed joist hangers, fit the joist hanger to the firring using 2x NRTF050.

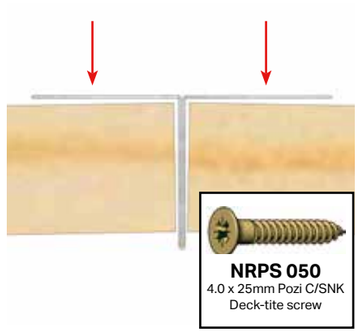


Continue around the roof fitting all the firrings and pitchlocks as per the location plan until complete.

Depending on the design of your roof, you may have a steel T shaped ridge plate included. Usually when you have pitchlocks meeting in the middle.



Place steel ridge plate into position on top of timber firrings that meet in the middle to form a 'ridge'.



Fix either side of the ridge plate into any battens that meet it using NRPS050.

Once finished you can move onto installing the insulation and OSB deck.

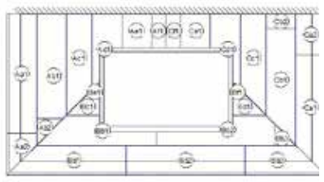
INSULATION AND DECKING

ENSURE ROOF IS BOARDED OUT FOR SAFE STANDING BEFORE FITTING INSULATION AND DECK

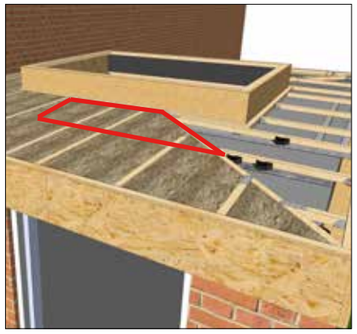
First, fill up the gap between the firrings using the insulation before the deck is fitted.

Before placing the OSB deck, use the glue provided to place a line on the timber firrings that the deck will lay on. Also glue any joints in the OSB as you proceed around the roof.

Our recommended method is nailing. Consult manufacturers guidelines for your membrane for the deck fixing. For example, GRP recommends screw fixing

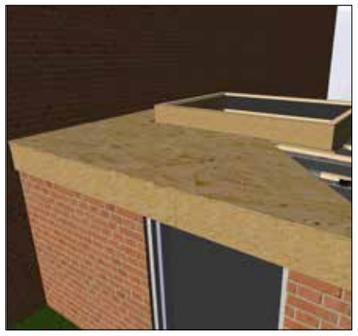


Consult the OSB location plan to see where each board should be positioned. It is good practice to start from the hips and kerb and work away, that way any rectifying can be done at the host wall and there is a good amount of overhang at the soffit for whatever drip detail is required.



Once the firrings are glued, place the first board next to the kerb into position. The hip mitre of the board should line up with the centre of the hip firring. Fitter's tip: Lay the boards out around the hip before gluing to trial where they need to be placed.

Select the adjoining OSB as per the location plan, glue the joint and position together.



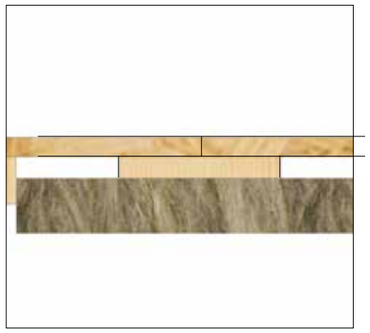
Continue around, gluing and placing until a full section is complete. Note: Boards are oversized at drip edge to be cut back to suit rip detail being fitted.

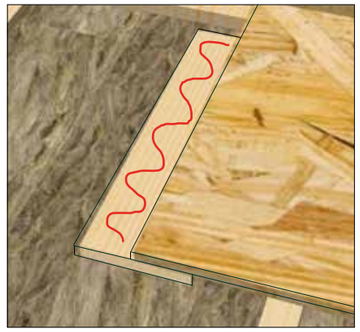
Use the nails provided to secure the board down into the firrings at 300mm centres.

Continue around the roof in the same way until all sections are complete.

The fixing detail may be different depending on your membrane. You may have to screw not nail.

INSULATION AND DECKING





You may encounter panel joints that cannot be supported by either the tongue and groove connection or by a 2x2 firring. In this instance, 6x1 timber is provided to support these joints. Cut the timber to the length required, glue one side and position underneath joint. Lay next OSB in position and nail through to secure.

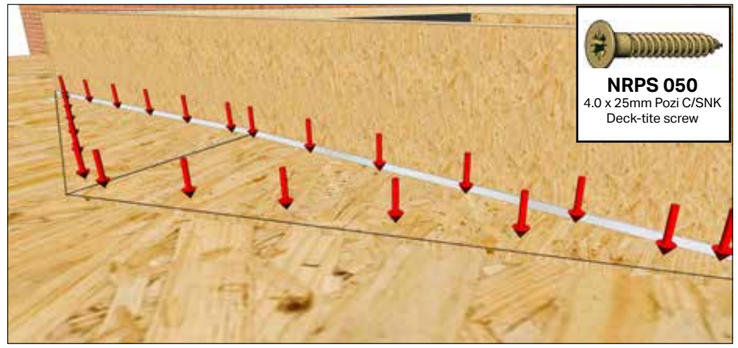
DECKING - CRICKETS

From time to time there will be a need to install crickets around the lantern/intrusion to ensure that water does not build up in this area. This is made up of 1 or 2 OSB boards cut into a triangle shape to direct the water away from the area.

You will be supplied all components to assemble this area with an accompanying location plan.

Firstly, pre-drill the L shaped angle at 150mm centres using a 5mm drill bit. Position the L shape angle against the kerb ensuring the centre is at least 35mm above the decking and flat to the opposite end. Secure to the kerb using NRPS050 in the centre.

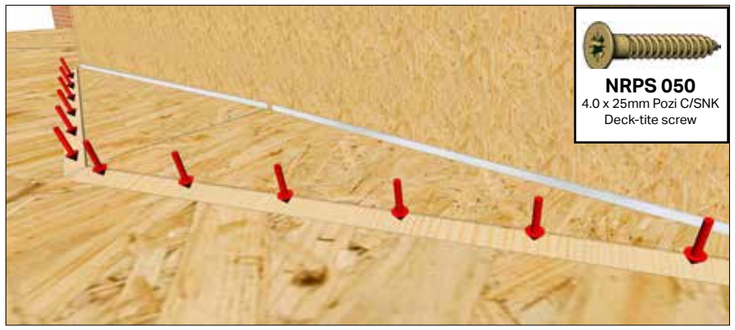
Then secure the angles through the pre-drilled holes using NRPS050.



Position the OSB onto the angle and secure around the OSB to the angle and decking using NRPS050 at 150mm centres. Repeat on the opposing side if required.

Position the fillet in front of the cricket and cut to suit at each end.

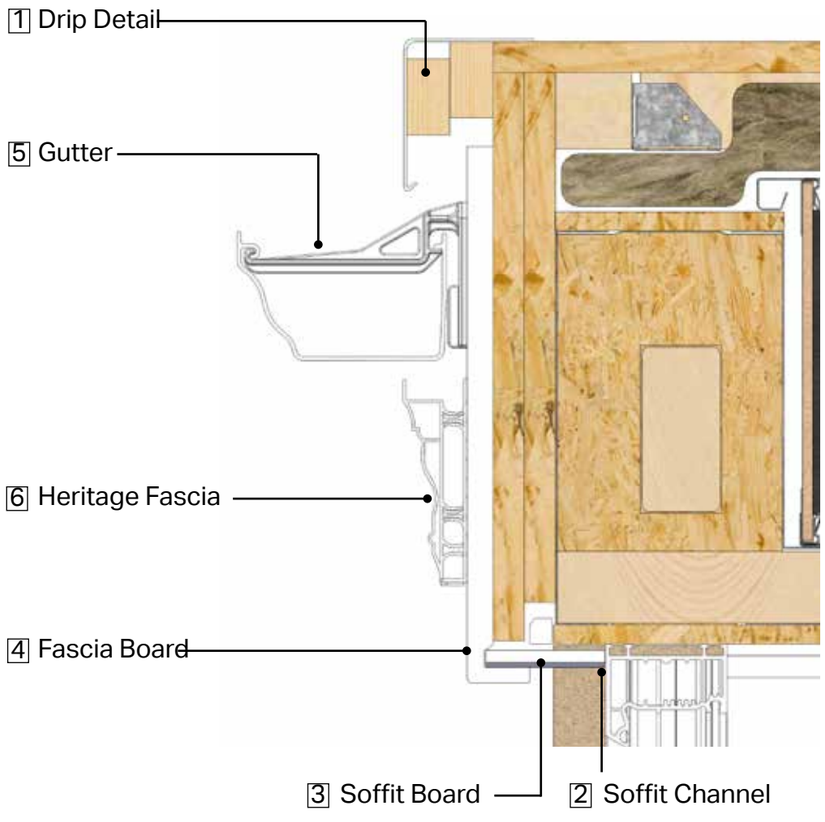
DECKING - CRICKETS



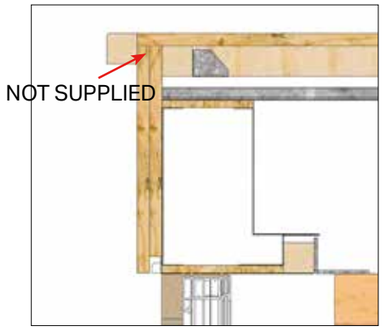
Pre drill the fillet and glue and secure using NRPS050 at 150mm centres.

CLASSIC - STANDARD AND EXTENDED SOFFIT

Fitting sequence for roofs with the classic option (standard and extended) will be as below. See following pages for detailed installation sequence.

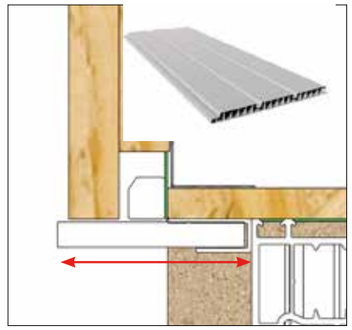


CLASSIC - STANDARD AND EXTENDED SOFFIT

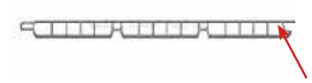


OSB deck will come over length, this is so you can fit whatever edge trim detail you wish. Firstly, cut back the OSB deck to suit and fit your edge trim batten detail.

Screw/pin/adhere fix PVCu soffit channel into head of window frame or base of OSB board (FIXING NOT SUPPLIED).

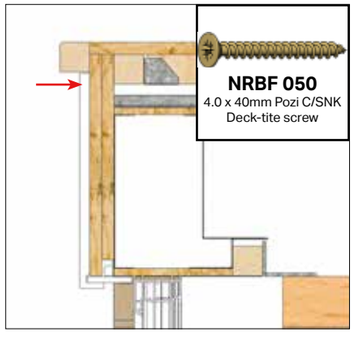


Next, fit soffit board. The soffit board is supplied in stock length and is to be cut to size on site. The board sits perpendicular to the beam as shown above. Measure the soffit depth and cut the board to suit. Position your first board into the soffit channel.

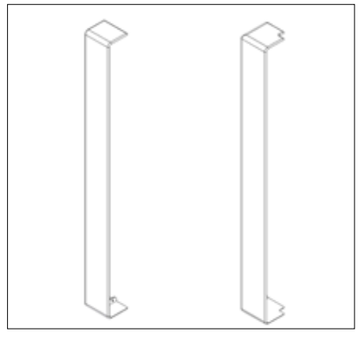


Secure the board using NRPS050 through the rear lip of the soffit board - see above.

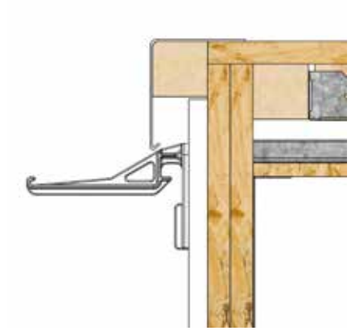
Position the next soffit board into the groove of the previous board and contiue until complete. Where there are any corners, a H section trim will be provided to join the boards together.



Next, fit the fascia board, you may need to cut down to suit. Fit using 4x NRBF050 per length to hold in place. Try to place the fixings close to the top of the board so they will be hidden by the drip detail once completed.

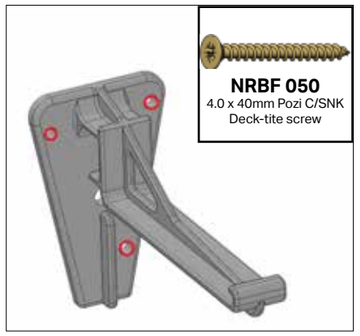


Fit any inline and corner covers where needed.

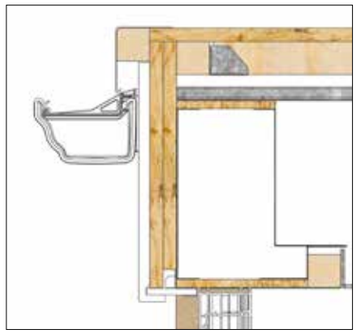


Cut a small piece of your drip trim, offer up this piece in position in order to gauge the height of your gutter brackets. Mark the bottom of the bracket and set out accordingly.

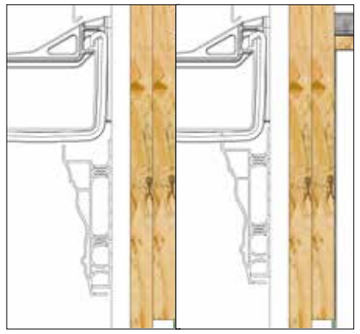
CLASSIC - STANDARD AND EXTENDED SOFFIT



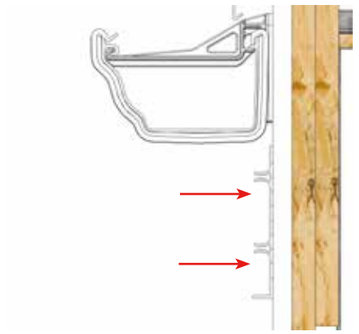
Fix the gutter brackets into place at maximum 750mm centres using 3x NRBF050 per bracket. See diagram below for gutter bracket placement around unions/ corners.



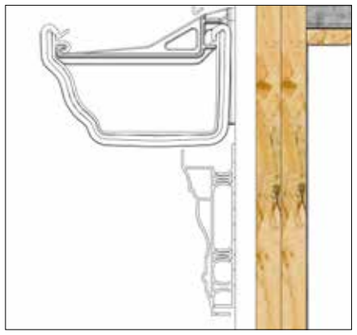
Clip in gutter and complete around the roof as required (see diagram at bottom of page)



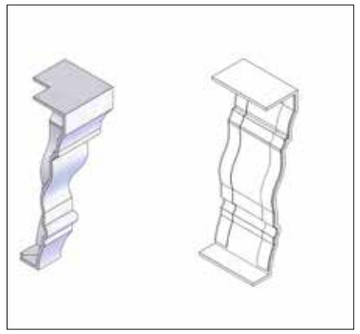
Finally you can fit the heritage fascia. There are two ways you can go about this. Either position it so that there is a shadow gap between the decorative wall finish and the gutter unions, or you can notch out the cladding around the gutter unions for a closer looking finish.



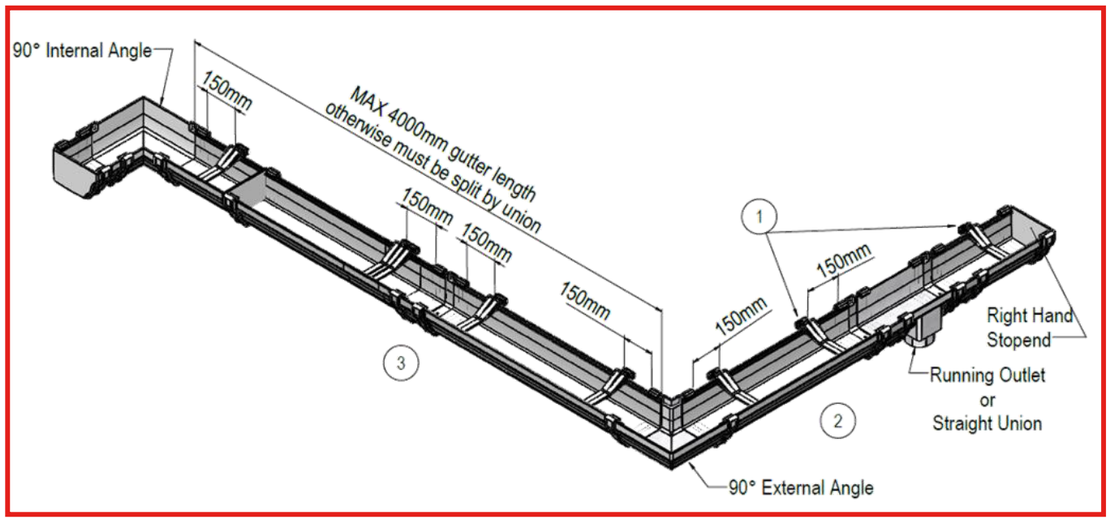
When you have decided how you want to fit the heritage fascia position and fix the internal wall finish using 2x NRBF050 fixings per 500mm.



Clip the outer wall finish into position ensuring the top tongue connects to the inner as shown above.



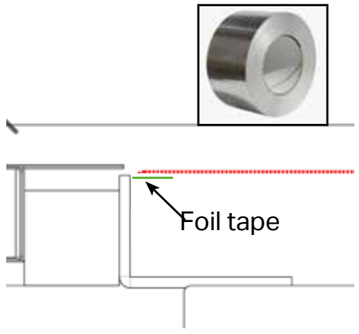
Finally, fit any inline and corner covers as required.



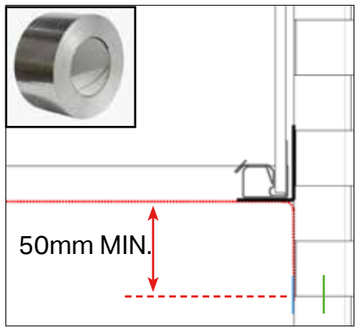
MEMBRANE

Firstly, cut the membrane to the required length allowing for an overlap of a minimum of 50mm at the host wall.

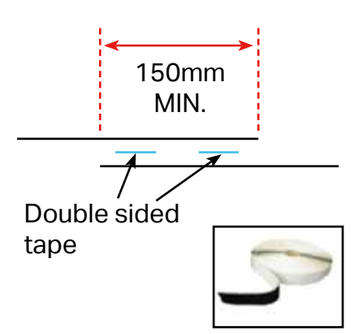
Use the double sided butyl tape along all of the internal steels and clips to adhere your membrane.

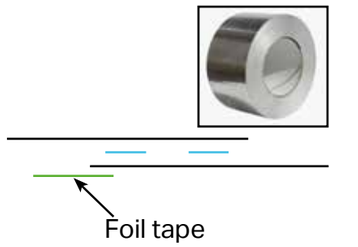


At the beams, the membrane should run up as far as possible and be fixed thoroughly using the foil tape to prevent gaps.

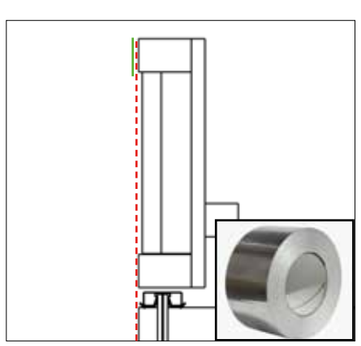


Ensure there is a minimum of a 50mm lap down the host wall, fix with the foil tape.

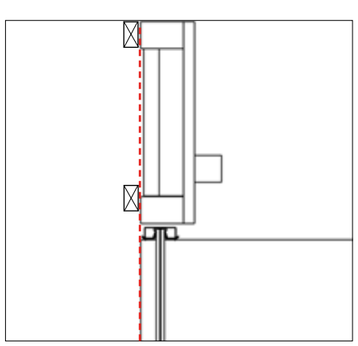




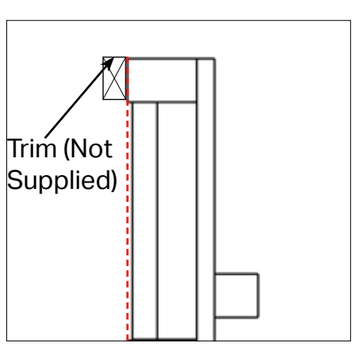
When overlapping the membrane, a minimum of 150mm should overlap. Rows of the double sided butyl tape should fix the two together with the foil tape being used to seal the actual joint itself.



Return the membrane up the kerb and fix with the foil tape at the top, ensuring there are no gaps.



The kerb will now need battening off around the inside face of the aperture. We recommend using 2x1 battens top and bottom.

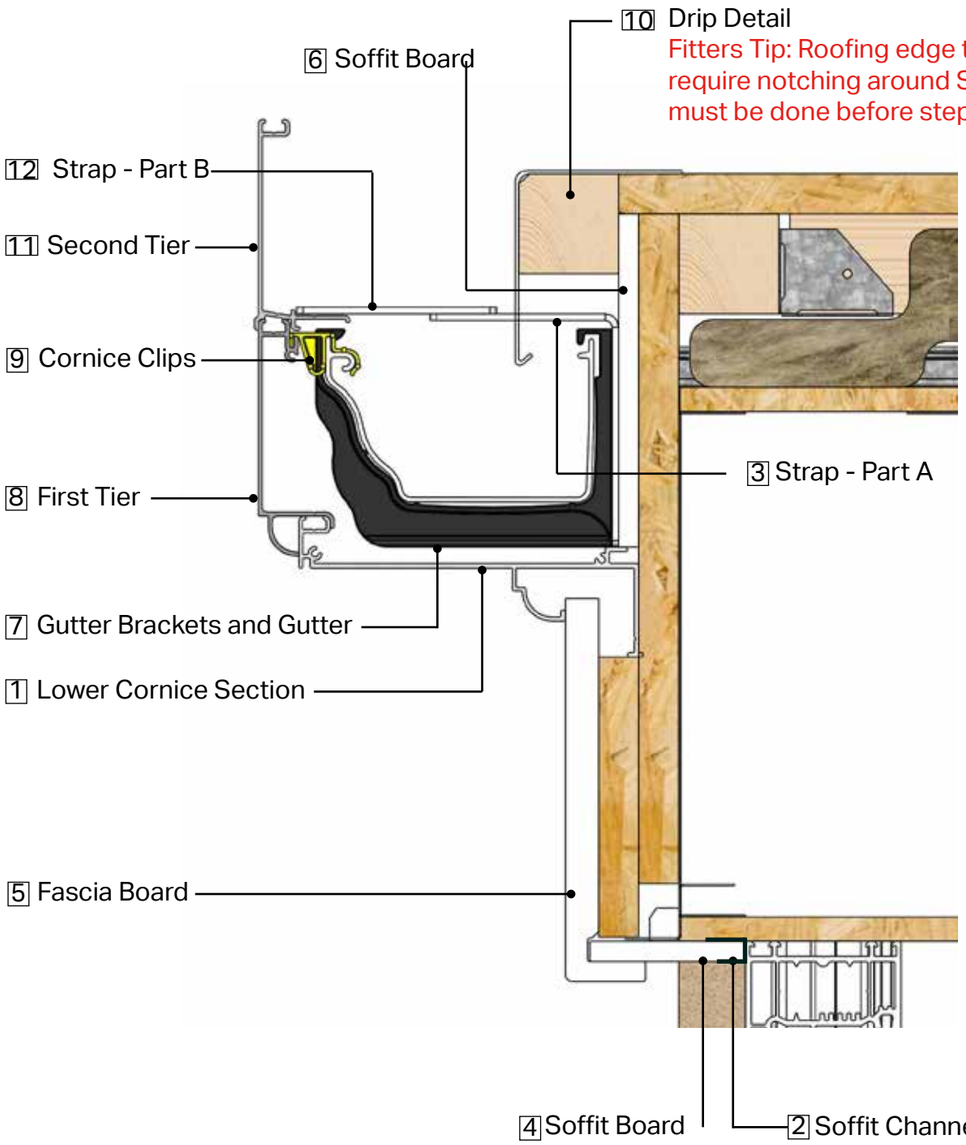


Finally, add a trim (NOT SUPPLIED) on top of the timber batten to hide it from visibility through the lantern. We recommend a black or grey trim.

TWO TIER CORNICE - STANDARD AND EXTENDED SOFFIT

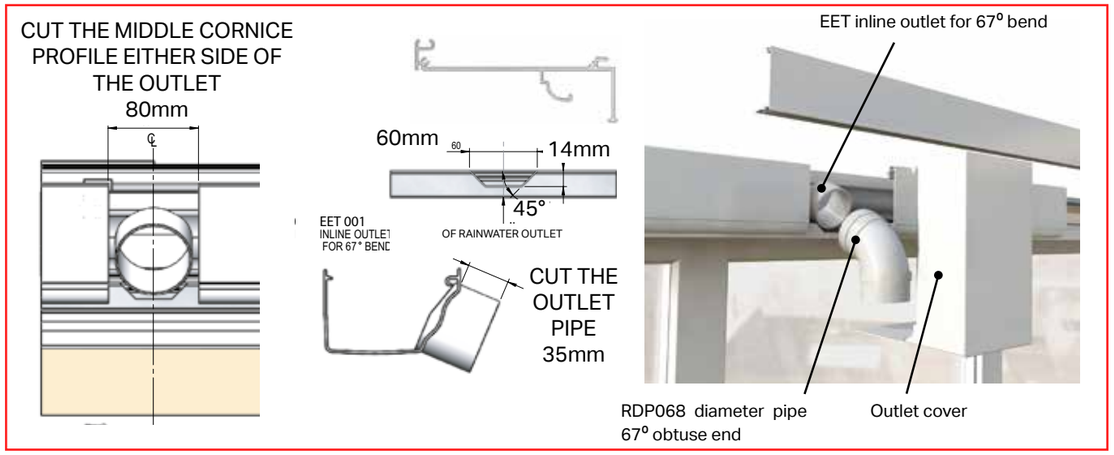
Fitting Sequence

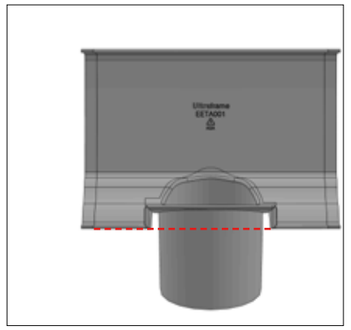
Fitting sequence for roofs with the two tier cornice option (standard and extended) will be as below. See following pages for detailed installation sequence.



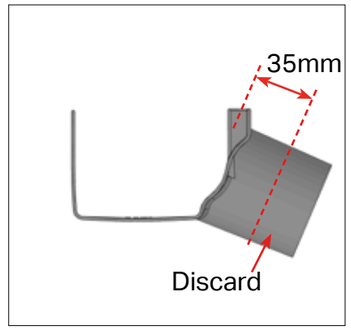
TWO TIER CORNICE - STANDARD AND EXTENDED SOFFIT

Prior to the installation of the cornice, it is important to consider the outlet position required. When the outlet position has been decided, notch the lower cornice profile as shown below.

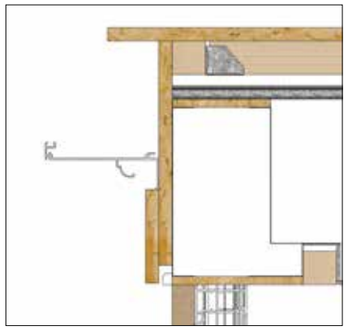




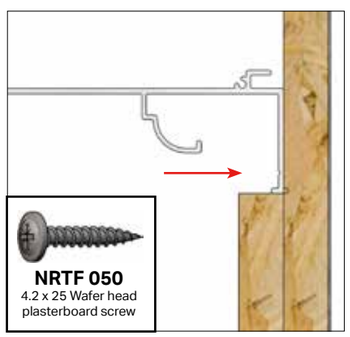
The outlet will need to be cut back to line up correctly with the cover. Use a rule or square to create a mark inline with the sides of the outlet as shown above.



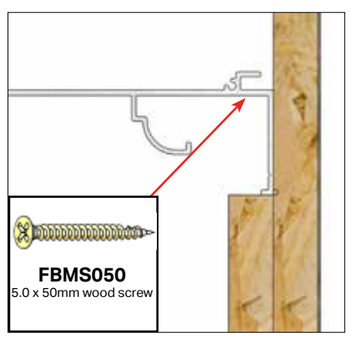
Mark 35mm down the outlet from the mark you have just made and cut the excess off parallel to the end of the outlet.



First thing when fitting a two tier cornice is to fit the bottom aluminium section.



Position as above with the leg of the cornice base section sat on the shorter OSB fascia board. Pre drill 5mm holes and secure at 500mm centres using NRTF050.



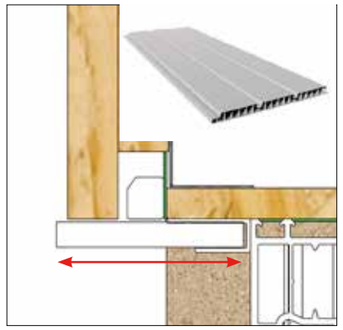
Then, pre drill as above into the corner of the cornice base section with 5mm holes and secure at 500mm centres using FBMS050.

At the corners or inline joints, fit the cleats as shown as you make your way around the roof using 4x CHA007 per corner or joint.

TWO TIER CORNICE - STANDARD AND EXTENDED SOFFIT

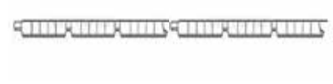
Inline joints in the cornice sections are also tied together with a cleat and fixed using CHA007 fixings, similar to corners as shown previously.

Screw/pin/adhere fix PVCu soffit channel into head of window frame or base of OSB board (FIXING NOT SUPPLIED).



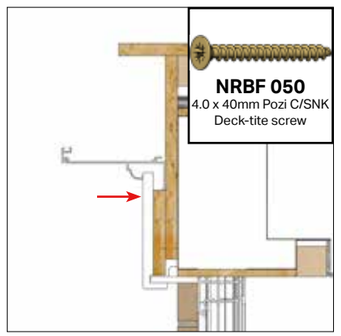
Next, fit soffit board. The soffit board is supplied in stock length and is to be cut to size on site. The board sits perpendicular to the beam as shown above. Measure the soffit depth and cut the board to suit. Position your first board into the soffit channel.

Secure the board using NRPS050 through the rear lip of the soffit board - see above.

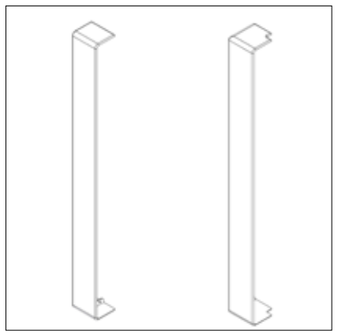


Position the next soffit board into the groove of the previous board and continue until complete. Where there are any corners, a H section trim will be provided to join the boards together.

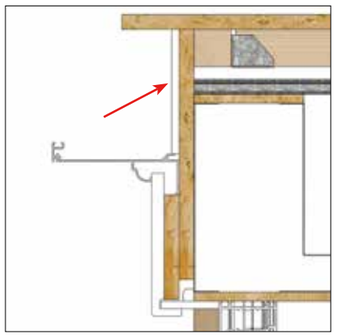
Continue to fit until complete.



Fix fascia board into position, ensuring it is slotted behind the decorative portion.

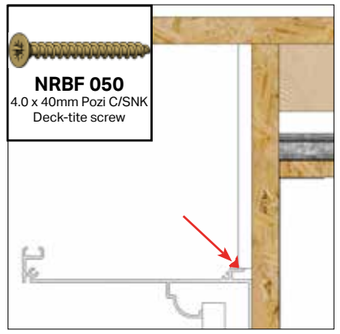


Fit any inline and corner covers where needed.



Next, fit the 150mm high 9mm soffit board.

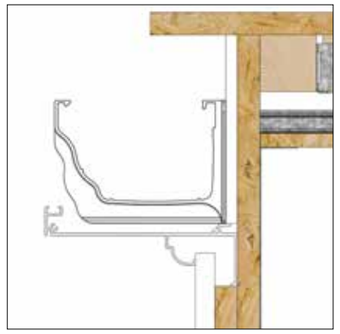
TWO TIER CORNICE - STANDARD AND EXTENDED SOFFIT



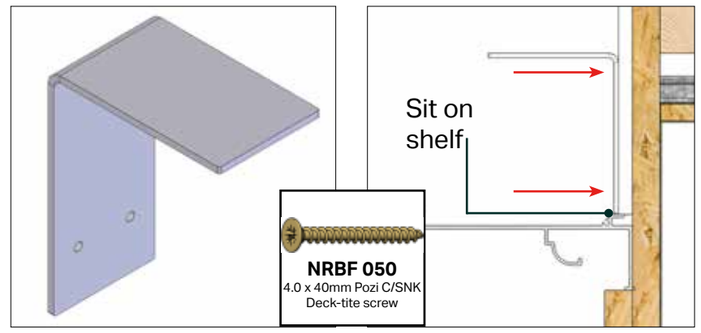
Board will sit on ledge of base cornice section as above and secure using 4x NRBF050 fixings per length. Silicone around the base of the soffit board once secured.

Silicone seal back edge of lower cornice section at any corners or inline joints at the beam side (be generous).

Apply sealant to the foam H section components. Position foam component into the lower cornice section, ensuring it is tight into the corner or tight towards the beam and press down.

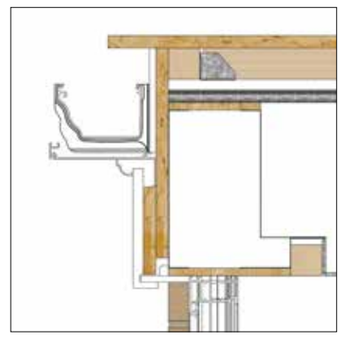


Next, fit the gutter brackets. Gutter brackets **must** sit on the ledge of the base cornice section like the 9mm soffit board as above.

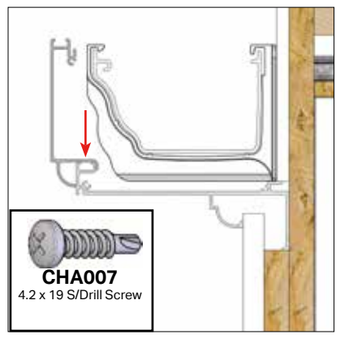


Next, fit the 50mm wide angles which form the first part of the cornice strap. They should sit on the leg of the lower cornice section at 1m centres around the roof. Fix using 4x NRBF050 per angle into the pre-drilled holes.

Position and fix gutter brackets at 750mm centres using 2x NRBF050 per bracket. NOTE: The gutter brackets for two tier cornice come in black no matter gutter colour.

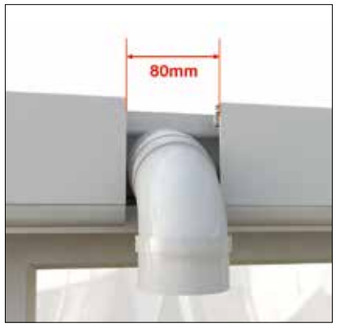


Now the gutter can be clipped into place as required around the roof.



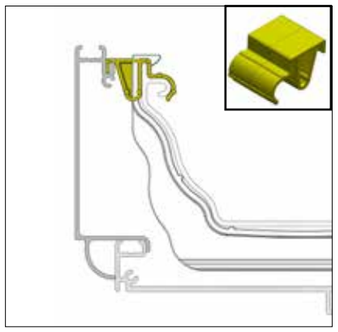
The lower vertical cornice section can now be fit into place using 1x CHA007 fixings at 400mm centres to secure it to the base cornice section.

TWO TIER CORNICE - STANDARD AND EXTENDED SOFFIT

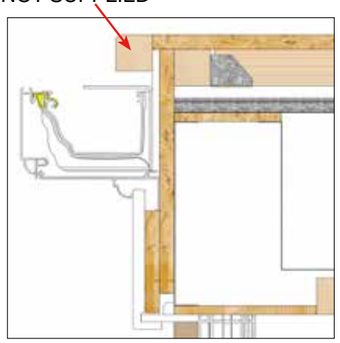


The lower vertical cornice section will need an 80mm gap wherever you have placed your outlet, this will need to be cut on site to suit (see page 51 for details).

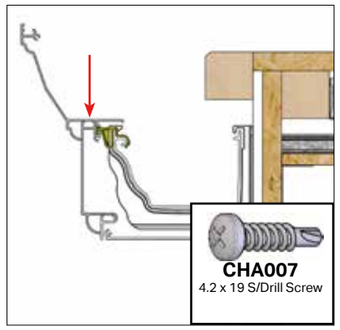
Again using the cleats for any corners or joints in the cornice section using 4x CHA007 per joint or corner to tie the sections together.



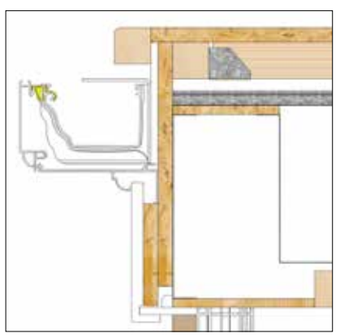
Now the vertical cornice section can be clip fit to the gutter using the clips provided (see above). Place them adjacent to every gutter bracket.



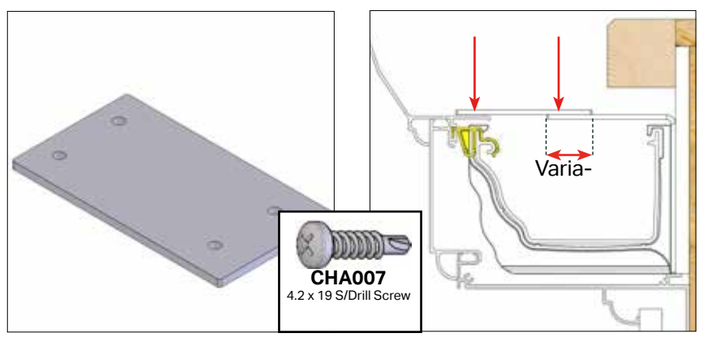
Now the deck can be cut back to suit your drip detail and edge batten fitted (NOT SUPPLIED). NOTE: Your drip detail may need notching around the 50mm angle strap.



The final vertical tier can now be fitted, you will either have a curved or flat piece depending on the order (curved shown) but both are fit in the same way. Fix using 1x CHA007 fixing per 400mm down into the lower cornice section.



Before securing the next part of the holding strap, prop underneath the cornice to support it into position.



Next, secure the second part of the strap to the cornice and 50mm angles as shown above through the predrilled holes to hold the cornice to the roof. Use 4x CHA007 fixings through the pre-drilled holes. The two parts will overlap to take up the deviations and strap the cornice square.

TWO TIER CORNICE - STANDARD AND EXTENDED SOFFIT

CURVED ONLY - At the inline joints, corners and at the host wall, covers will be provided to hide the jointing line. Offer up the cover, hooking it over the front lip of the cornice.

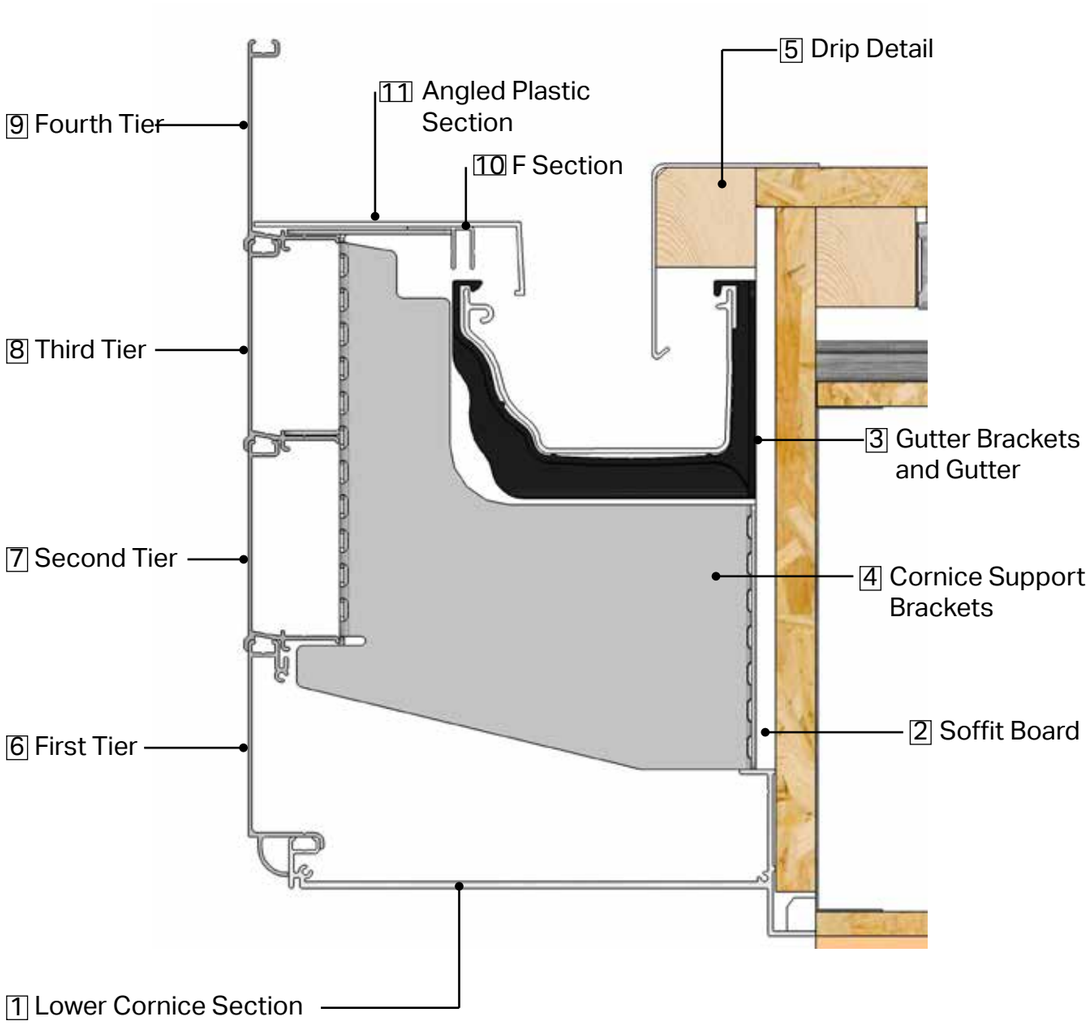
CURVED ONLY - While ensuring that the corner remains located in position, screw fix using 2x CHA007 per cover. Inline cover shown, corner covers follow the same fixing detail.

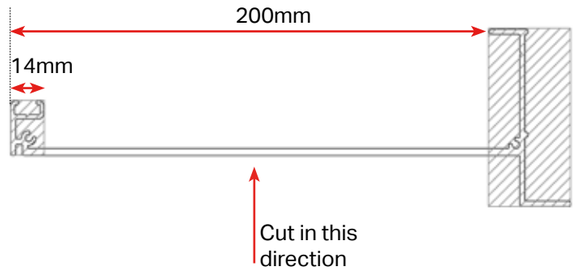
FLAT ONLY - At inline joints, corners and at the host wall, covers will be provided to hide the jointing line. Covers are provided in 2 parts with the top cover needing to be fit first in both situations. Place the top part of the cover into position with the wings fitting into the top of the cornice. Fix using 2x CHA007.

FLAT ONLY - The bottom section of the cover can now be offered up into position and fixed into place using 2x CHA007 to the pre-drilled holes. Inline covers shown, corner covers follow the same fixing detail.

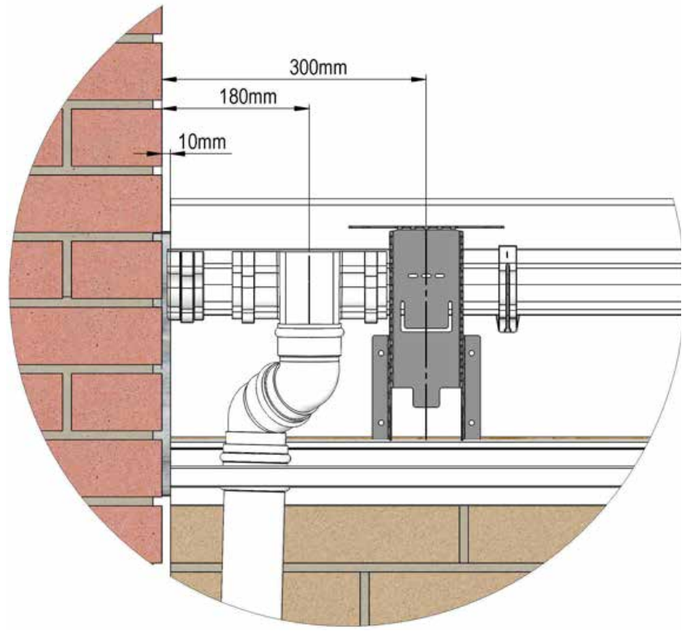
Fitting Sequence

Fitting sequence for roofs with the four tier cornice option will be as below. See following pages for detailed installation sequence.

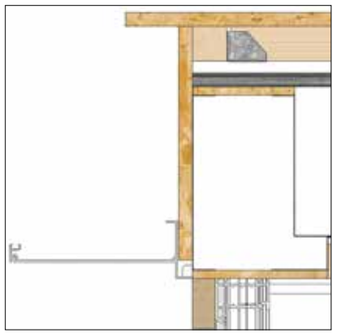




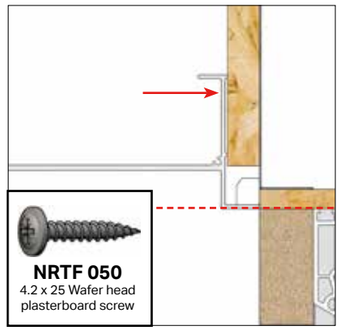
Before installing the cornice, consider the position of the gutter outlet and downpipe required. The cut out for the downpipe will need to be done first in the bottom section of the cornice and needs to be between 14mm and 200mm from the side shown above. A 68mm hole saw should be used and cut from the bottom to ensure any swarf and burrs are not visible once the cornice has been fitted.



We recommend the layout to the left, however this will depend on the configuration on site. The obtuse bends will give some flexibility on the position of the downpipe.



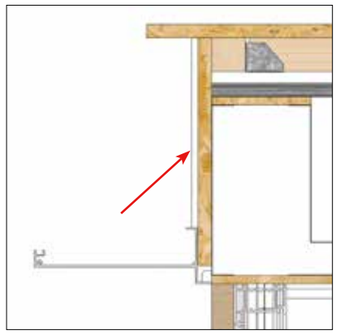
Now you can fit the bottom section. Line the bottom of the leg up with the underside of the beam. You will need to pre-drill at corners and joints to ensure the cornice sits correctly once installed.



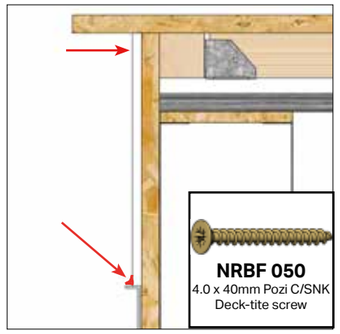
Position as above with the leg of the cornice base section sat on the shorter OSB fascia board. Pre-drill 5mm holes and secure at 500mm centres using NRTF050.

At the corners or inline joints, fit the cleats as shown as you make your way around the roof using 4x CHA007 per corner or joint.

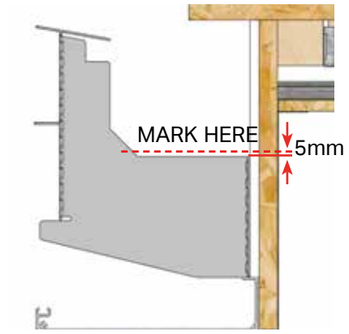
FOUR TIER CORNICE



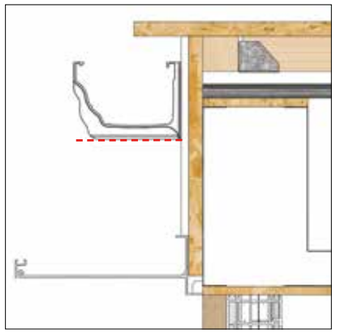
Next, fit the 9mm soffit board. This may need cutting down to suit so measure before you fit. The board will sit on the upper leg of the base cornice section.



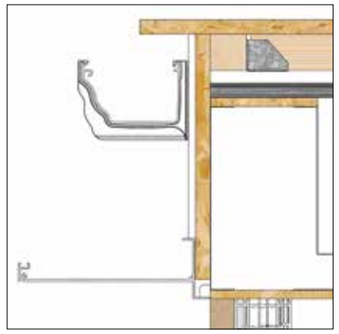
Fix the board into place using 4x NRBF050 per length. Once in place, silicone around the bottom of the board.



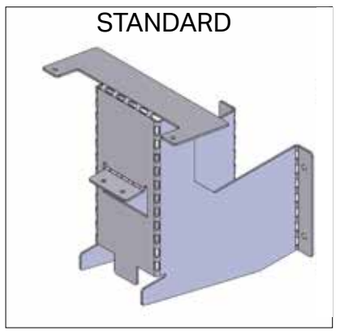
Grab one of the aluminium cornice support brackets to help you set out your gutter brackets. Place into position as above (sitting on the upper leg of the base section) to show you where the bottom of your gutter brackets should sit, mark 5mm up from this position and carry along to allow you to fix the gutter brackets in the same place.

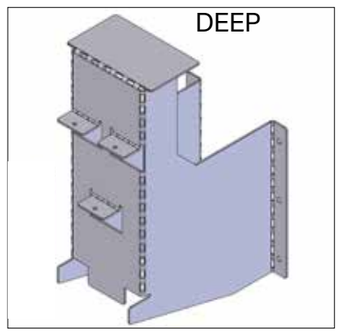


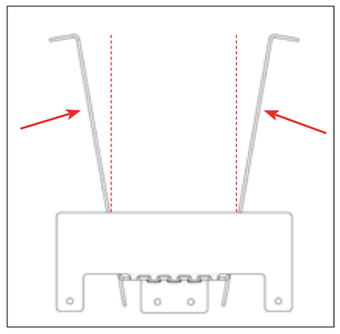
Position and fix gutter brackets so the bottom is in line with the marks you have made at 750mm centres using 2x NRBF050 per bracket. NOTE: The gutter brackets for two tier cornice come in black no matter gutter colour.



Now the gutter can be clipped into place as required around the roof.

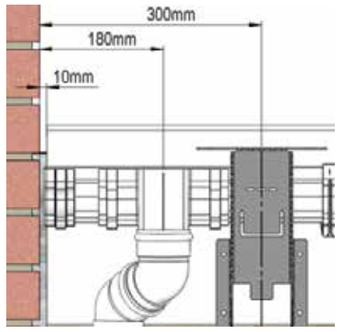




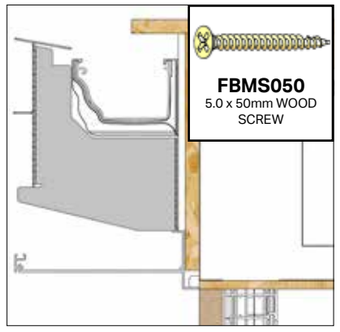


Next, fit the aluminium cornice support brackets. There are two types depending on whether you have standard or deep beams (see page 14). They will come underbent for packing and transporting purposes, they will need readjusting to 90° bends before installing to ensure they sit correctly with the cornice.

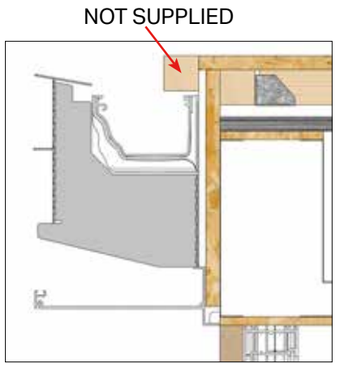
FOUR TIER CORNICE



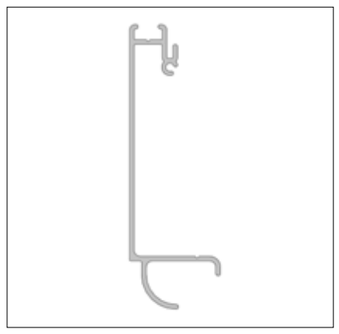
Where there is an outlet next to the host wall the first fin will need to be offset to give enough room. Our recommendation is 300mm away to the centre, this may change depending on your situation however.



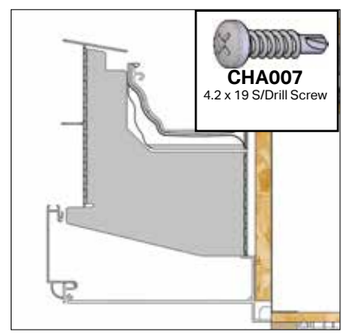
Support brackets will sit on the ledge of the base cornice section and are specified at 600mm centres ensuring that there are supports as close to the corners as possible. Fix back to the 9mm soffit board through the pre drilled holes, 4x FBMS050 for standard brackets and 6x FBMS050 for deep ones.



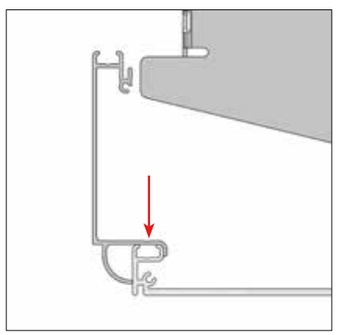
You can now cut back your OSB deck and fit edge batten to suit your drip detail (NOT SUPPLIED).



The first vertical section of the cornice can now be fit.



It will fit onto the base cornice section like above and be secured down using 1x CHA007 fixings at 400mm centres (working around the support brackets if necessary). Ensure this tier is installed down securely as this will avoid issues later on in the cornice installation.

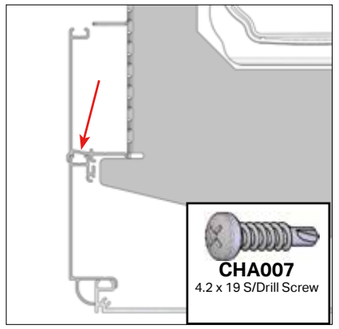


At the corners, fit the cleats as shown as you make your way around the roof using 4x CHA007 per corner or joint.

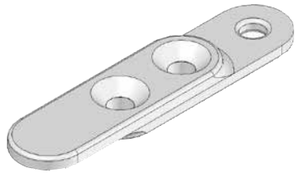
Inline joints in the cornice sections are also tied together with a cleat and fixed using CHA007 fixings, similar to corners.

The next vertical section of the cornice can now be fit.

FOUR TIER CORNICE

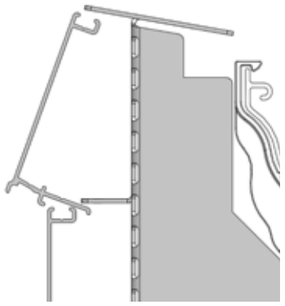


It will fit into the section below it like above with 1x CHA007 fixings at 400mm centres.

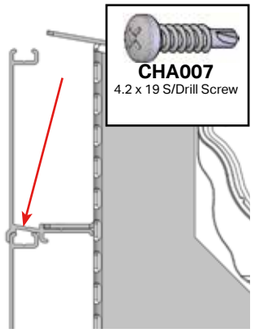


Again using the cleats for any corners or joints in the cornice section using 4x CHA007 per joint or corner to tie the sections together.

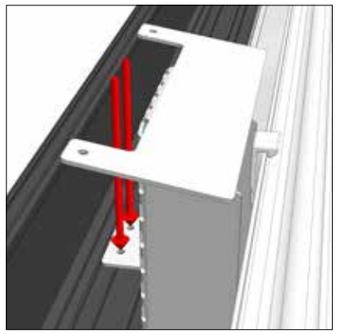
The next vertical section of the cornice can now be fit.



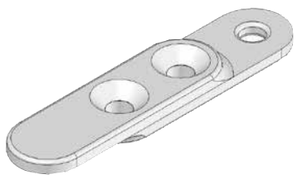
It will fit into the section like shown in the image above. Ensure the leg of the cornice section sits underneath the lip of the aluminium support brackets. The lip of the cornice in this section fits under and may need bending up further for easy installation.



Fix using 1x CHA007 fixings at 400mm centres.

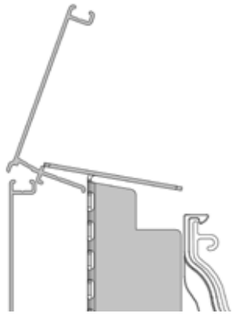


This tier of the cornice will also be fixed to the aluminium cornice support bracket through the pre-drilled holes in the bracket. Fix using 2x CHA007 per bracket.



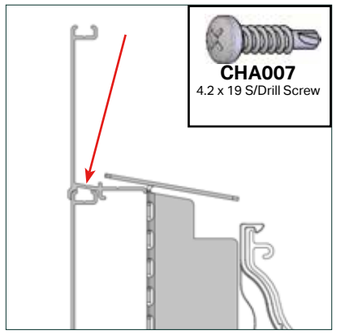
Again using the cleats for any corners or joints in the cornice section using 4x CHA007 per joint or corner to tie the sections together.

The last vertical section of the cornice can now be fit.

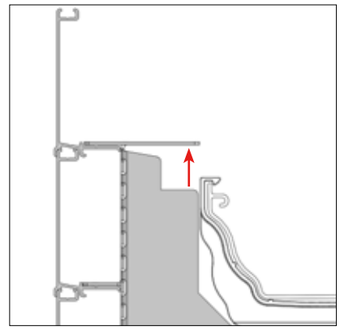


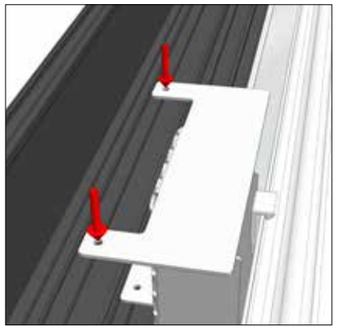
It will fit into the section below it like above. Ensure the leg of the cornice section sits underneath the lip of the aluminium support brackets.

FOUR TIER CORNICE



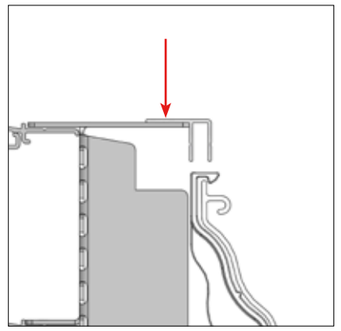
Fix using 1x CHA007 fixings at 400mm centres.





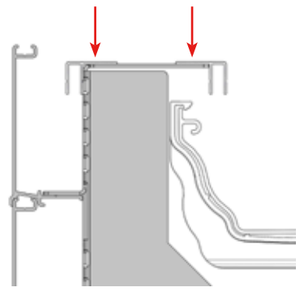
The standard aluminium support brackets have been overbent to allow for easier fitting of the upper cornice sections. Once that has been fixed into place, the top can be bent back to 90° and fixed into the upper cornice section through the pre-drilled holes using 2x CHA007 per bracket.

Now the F sections can be fitted. Standard roofs will have 1 per elevation, deep roofs will have 2 per elevation.



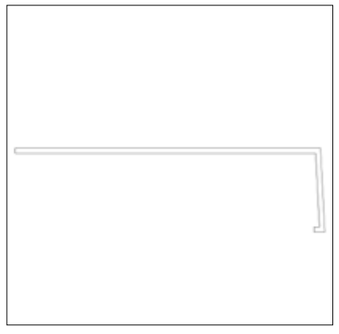
STANDARD ONLY - Place the F section as above on top of the support brackets and secure using 2x CHA007 per bracket.

STANDARD ONLY - Run one F section through and butt an opposing one on a corner up to it.



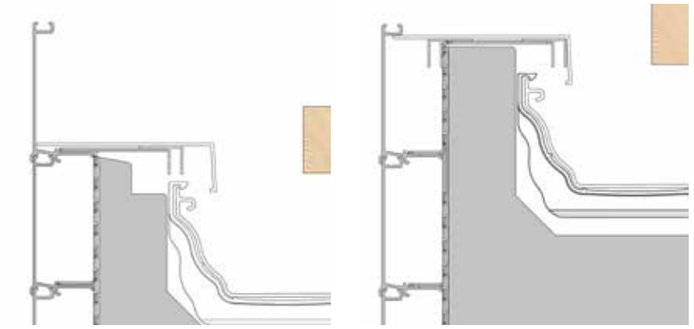
DEEP ONLY - 2 F sections are fitted per elevation on a deep roof. Place the F sections as above on top of the support brackets and fit using 2x CHA007 fixings per F section per support bracket.

DEEP ONLY - Run one F section through and butt an opposing one on a corner up to it.

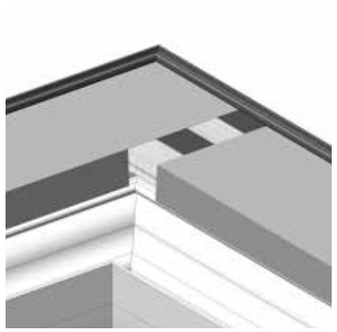


Now the angled plastic sections can be fitted to the F sections.

FOUR TIER CORNICE



Position your angled plastic section in place, see above left for standard beam placement and above right for deep beam placement. Fix using 1x CHA007 through the F sections at 600mm centres.



For the corner detail, run one section through and butt the other up next to it, notching out the lip where needed.

Finally, fit the corner and inline covers wherever there is a joint or corner. The cover for the four tier cornice comes in 3 pieces, start with the upper piece hooking the lips into the upper cornice section and securing with 2x CHA007 per cover. Inline covers shown, corner covers follow same detail.

The bottom section of the cover can now be offered up into position and fixed into place using 2x CHA007 to the pre-drilled holes. Inline covers shown, corner covers follow the same fixing detail.

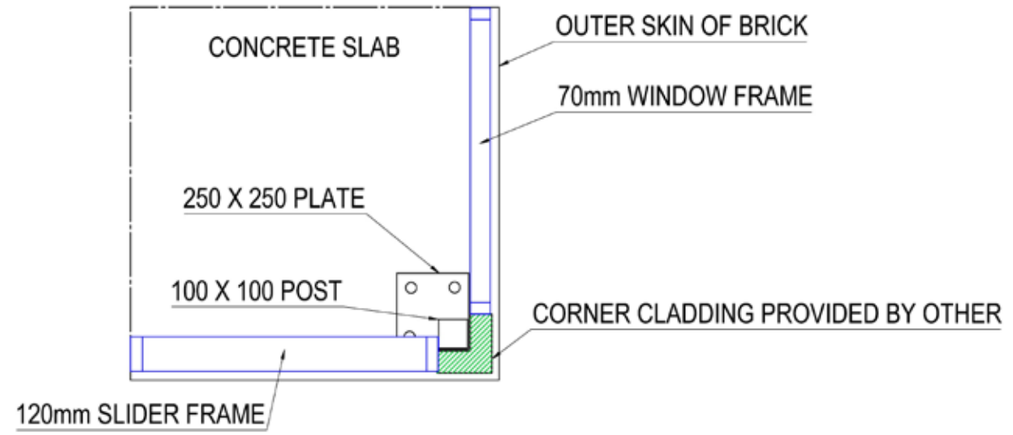
And last, the horizontal infill piece can be fitted. Line up with the secured covers and fix into place using 4x CHA007 into the pre-drilled holes. Inline covers shown, corner covers follow the same fixing detail.

STRUCTURAL POSTS

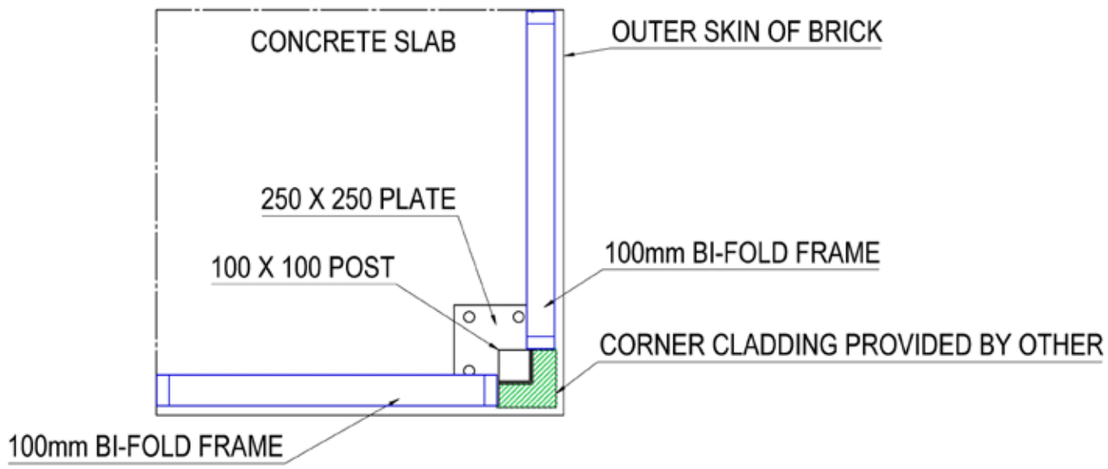
Structural post provided as alternative to brick piers. Two sizes of compatible structural posts can be supplied by Ultraframe if required. The 100 x 100mm posts should be used at the front corners of the building and the 70 x 70mm can be used in line if needed at the ends of door frames.

The following diagram show where the posts and base plates should be placed in different situations.

Corner post - 100 x 100mm – slider to window

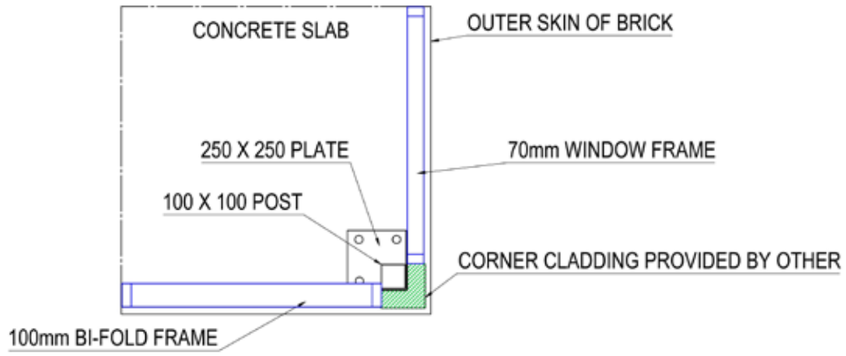


Corner post - 100 x 100mm – bi-fold to bi-fold

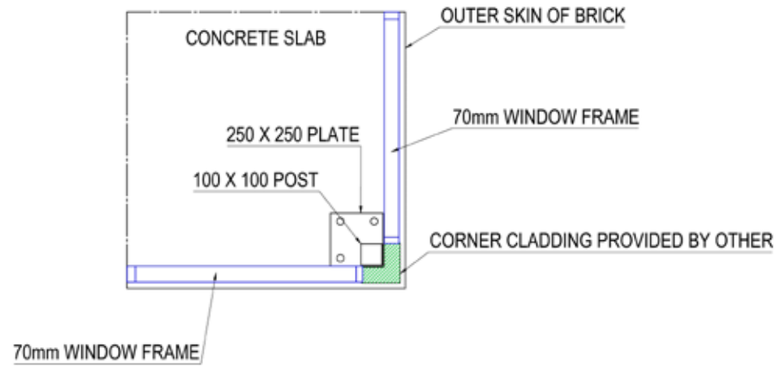


STRUCTURAL POSTS

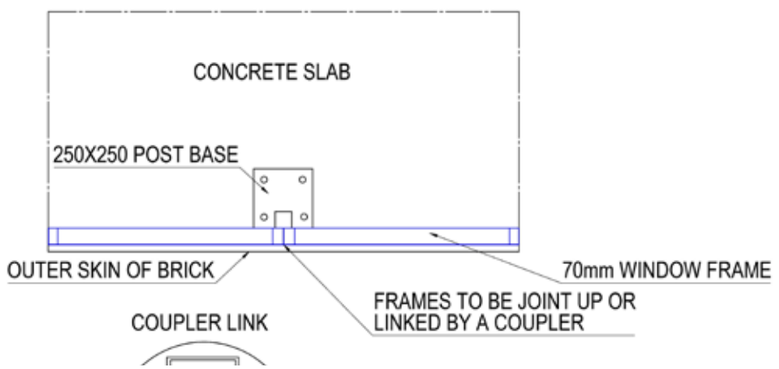
Corner post - 100 x 100mm - bi-fold to window



Corner post - 100 x 100mm - window to window (70mm frames)

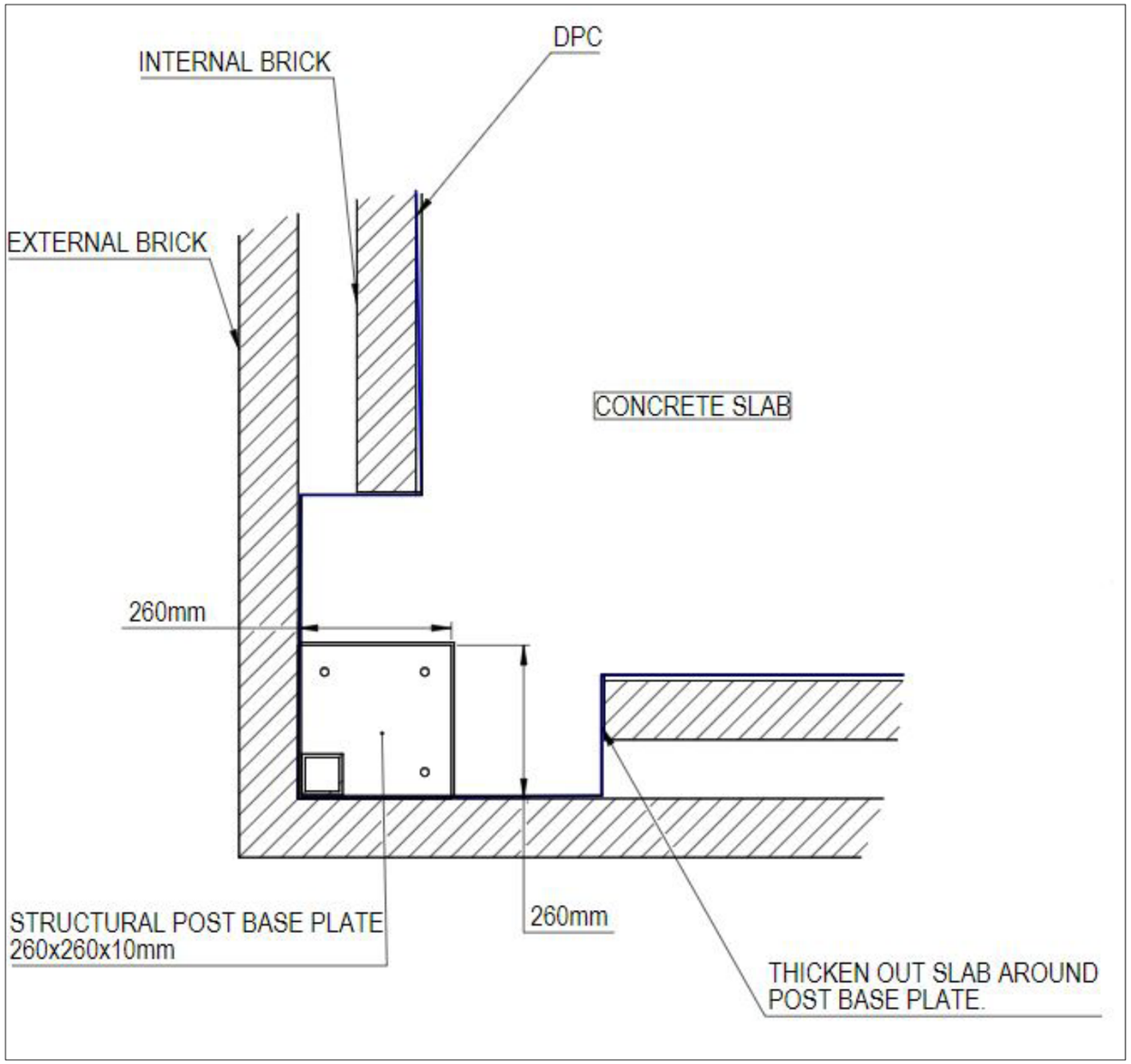


Inline post - 70 x 70mm - bi-fold to window



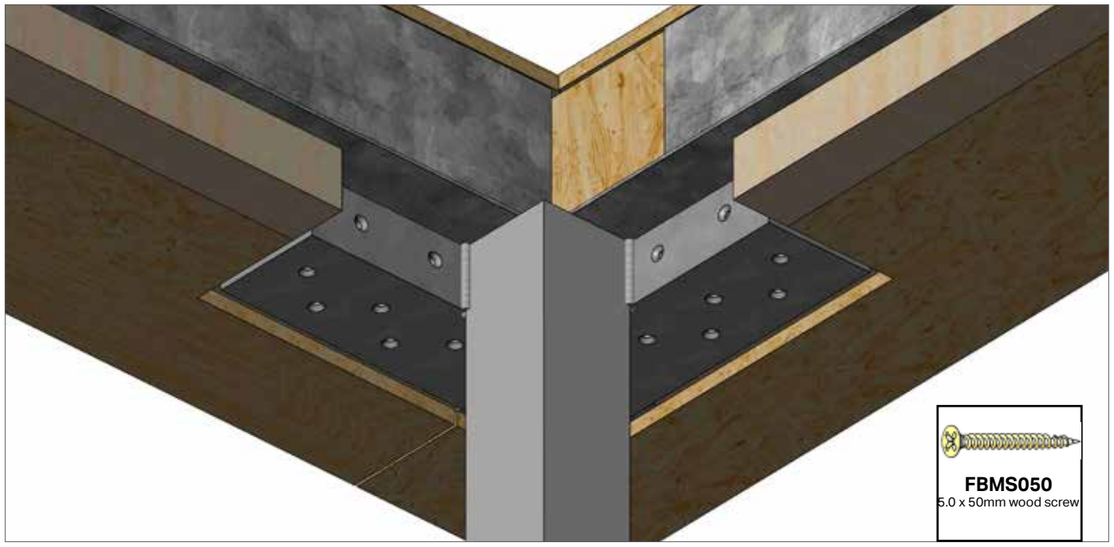
STRUCTURAL POSTS

Before fitting the structural posts, there will be some prep work to complete. Firstly, if there are two skins of brick, the internal skin of brick will need to be cut back to allow for adequate fitting of the post along with the concrete slab being thickened out around the position of the post base plate.

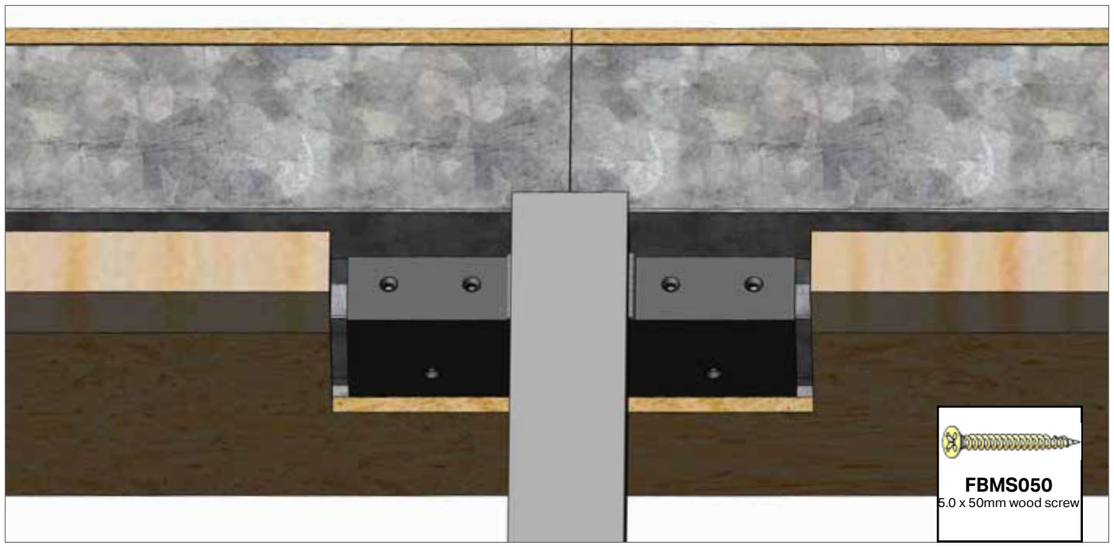


STRUCTURAL POSTS

Beams will have 2x2 on the internal face cut back to allow the post plate to sit in the pocket created on the underside of the beam and be fixed like below.



After cutting back the internal 2x2 batten, corner posts should be fixed using 14x FBMS050 5 x 50mm wood screws through the pre drilled holes into the base and the internal face of the beam to secure it into position.



After cutting back the internal 2x2 batten, inline posts should be fixed using 8x FBMS050 5 x 50mm wood screws through the pre drilled holes into the base and the internal face of the beam to secure it into position.

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