

Flatroof
By Ultraframe

FLAT ROOF | INSTALLATION GUIDE

V8 | November 2026

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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 6, 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.

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TOOLS REQUIRED


Clamps

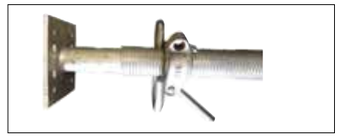

2.5m straight edge


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
Square No.2

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.

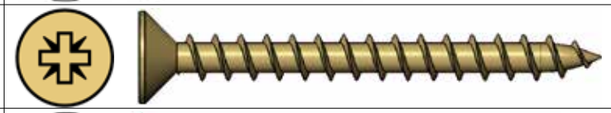
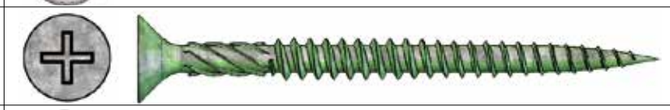
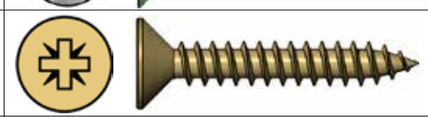
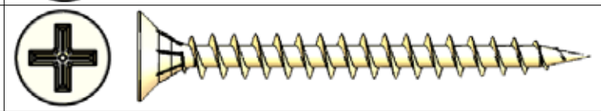
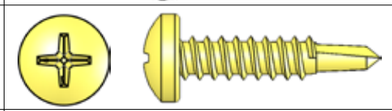
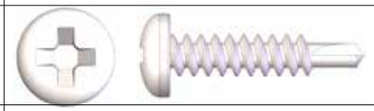
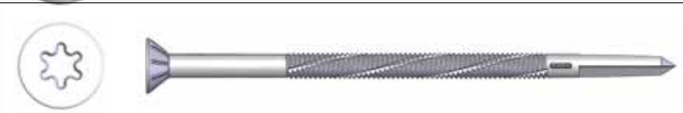
Building Regulations -

The Flat Roof is fully Building Regulation compliant, MFA and Stroma has assessed and accredited the products.

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 075 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**
CRN006 M4 x 10 Countersunk thread forming screw		**PHILLIPS SCREWDRIVER BIT**
CRN007 4.8 x 16 Self drill screw		**PHILLIPS SCREWDRIVER BIT**
UZSB003/1 4.8 x 22 Self Drill screw		**PHILLIPS SCREWDRIVER BIT**
FSS-42-13 4.2 x 13 Wafer head sharp point screw		**PHILLIPS SCREWDRIVER BIT**
FSD-42-19 4.2 x 19 Self drill screw		**POZI SCREWDRIVER BIT**
MTWF001 5.5 x 109 Winged countersunk screw		**TORX SCREWDRIVER BIT**

TOP TIPS FOR A SUCCESSFUL INSTALLATION

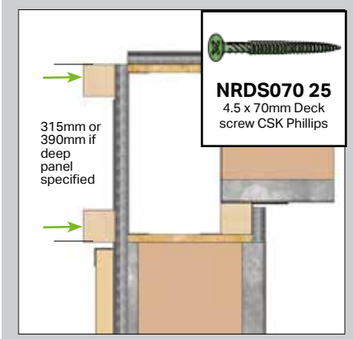
Here are some top tips from Ultraframe to help your installation run smoothly.

1. Ensure the beams are laid on top of the frames in the correct order. The correct 'fitting sequence' is shown on page 12.
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. 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 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 21. 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 19.
8. Start by placing the OSB boards next to the front hip first see page 27. 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.

INSTALLING HUP! AND FLAT ROOF

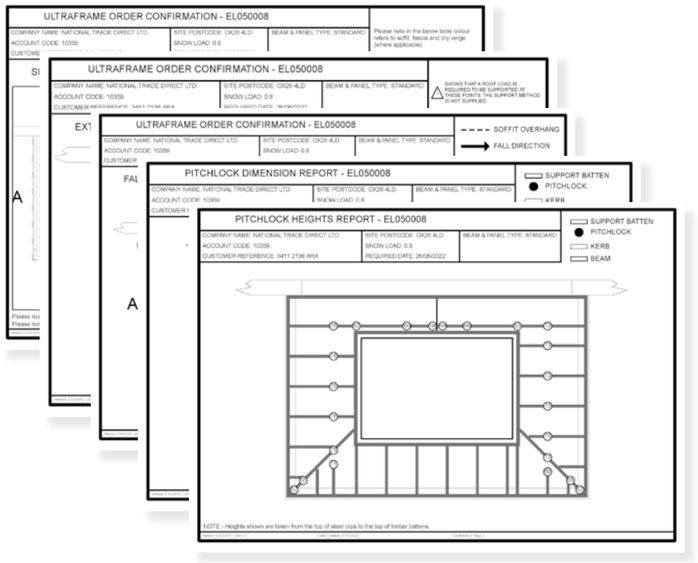
When installing hup! and Flat Roof, the hup! walling elements will be highlighted in a grey box. These boxes are highlighting the differences from installing on brick work.

Example:



Fit 2x2 battens to the wall battens as shown. Predrill and fix using 2x NRDS07025 screws per batten.

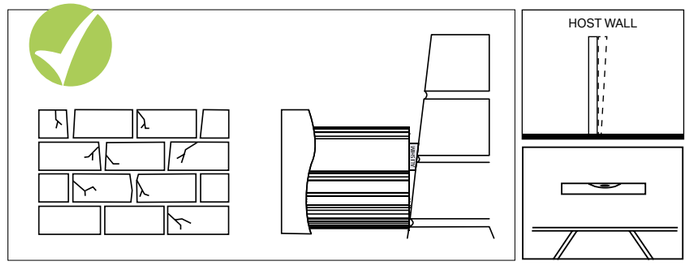
DOCUMENTATION CHECKLIST - SENT WITH EACH ROOF



Check you have:

1. Confirmation of roof order
2. Critical set out dimensions
3. Beam / fascia plan
4. Panel location plan
5. OSB location plan
6. Aperture location plan
7. Fin location plan (Ext Soffit)
8. Int / Ext clip location plan
9. Joist hanger rail location plan
10. 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.

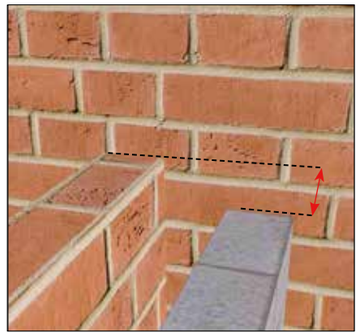
Product

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.

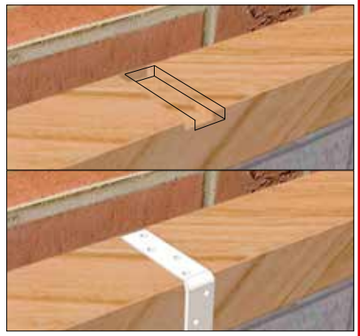
INSTALLATION- PREP WORK BY THE INSTALLER



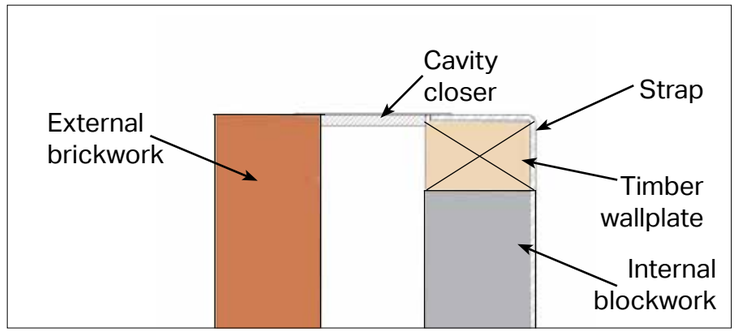
On brickwork outer walls, ensure inner blockwork wall finishes one course lower. The internal timber wallplate must finish flush with the outer wall.



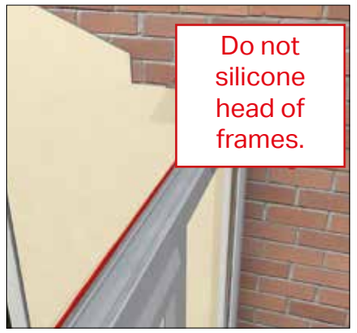
Secure the timber wallplate onto the blockwork (FIXINGS NOT SUPPLIED), bedded on mortar continuously with lapped joints (even on the corners). Level and ensure mortar is fully dry before continuing.



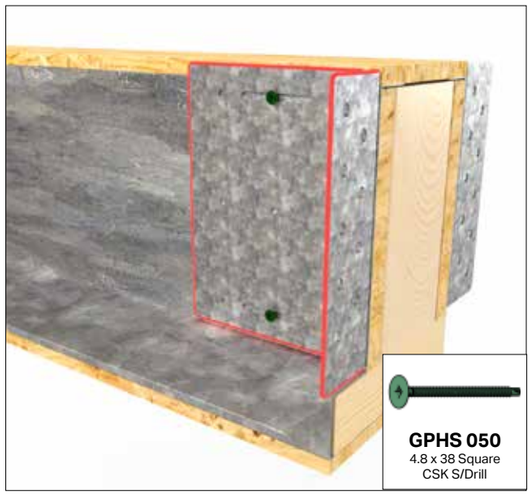
Fix the wall straps on timber wall plate at maximum 2m centres with appropriate fixings. If the cavity is below 100mm, mark position and rebate the timber to allow strap to sit into timber flush with the top.



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.



Fix steel wall abutment brackets to the abutment side of both box beams via the slots using 2x GPHS provided. The brackets should be aligned with the end of the beam. Note: do not fully tighten at this stage.

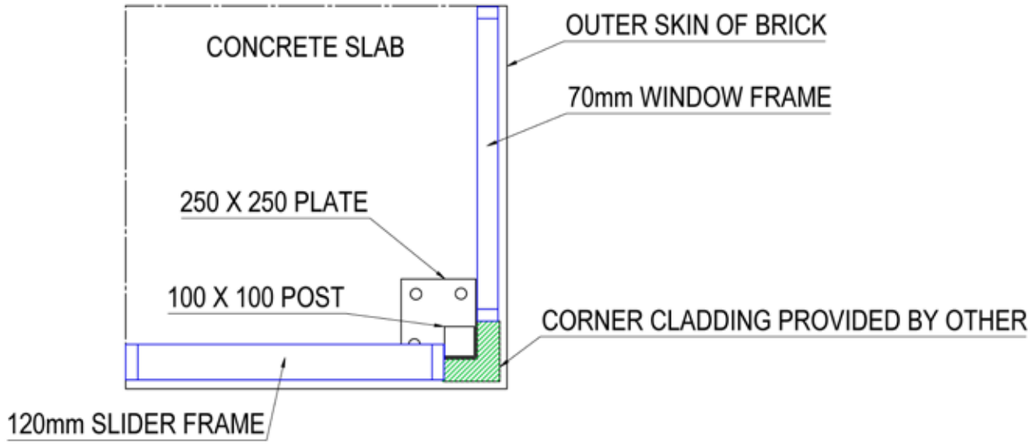
STRUCTURAL POSTS

Structural post provided as alternative to brick piers. Two sizes of compatible structural posts can be supplied by Ultraframe if required.

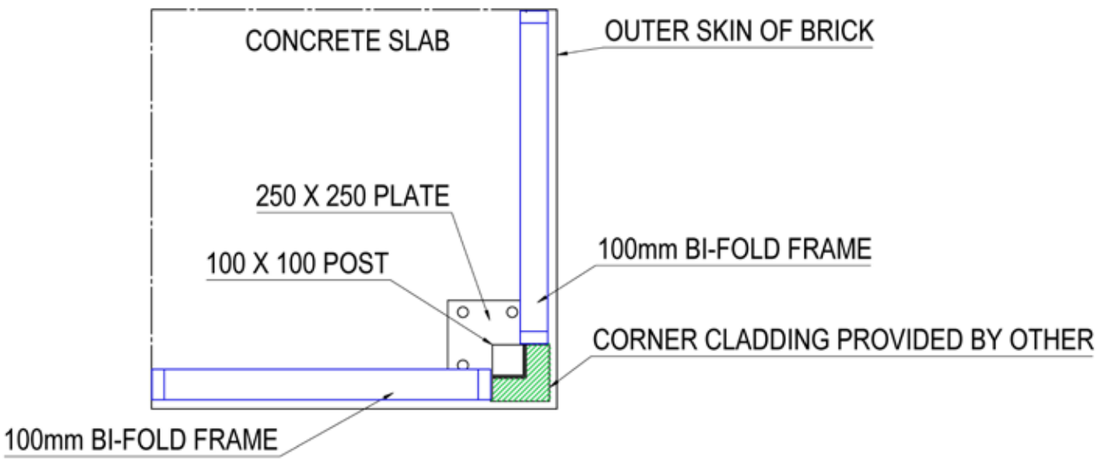
The 100 x 100mm posts should be used at the front corners of the building and the 70 x 70mm can be used in line if needed at the ends of door frames.

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

Corner post - 100 x 100mm – slider to window

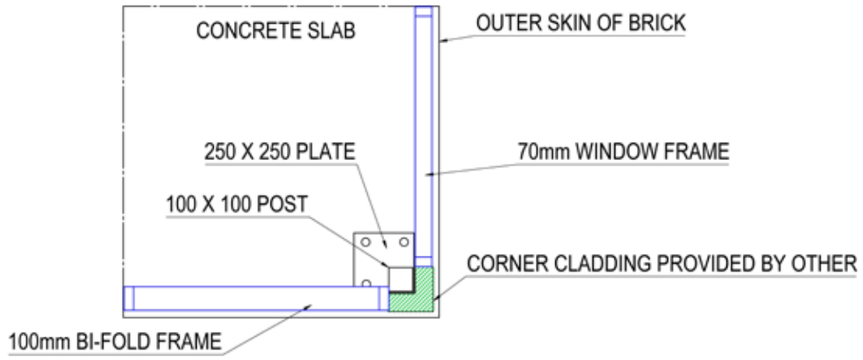


Corner post - 100 x 100mm – bi-fold to bi-fold

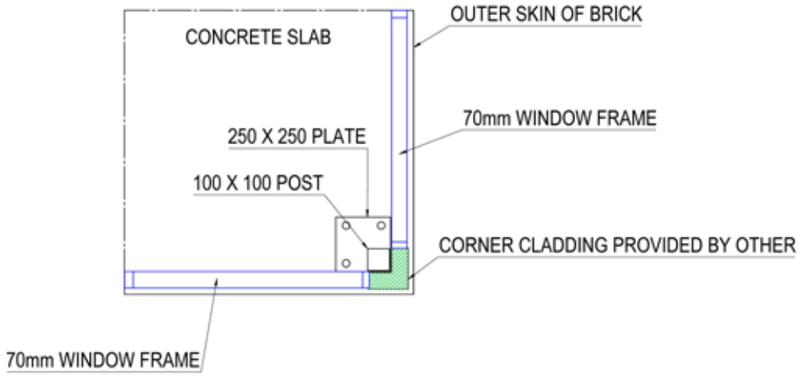


STRUCTURAL POSTS

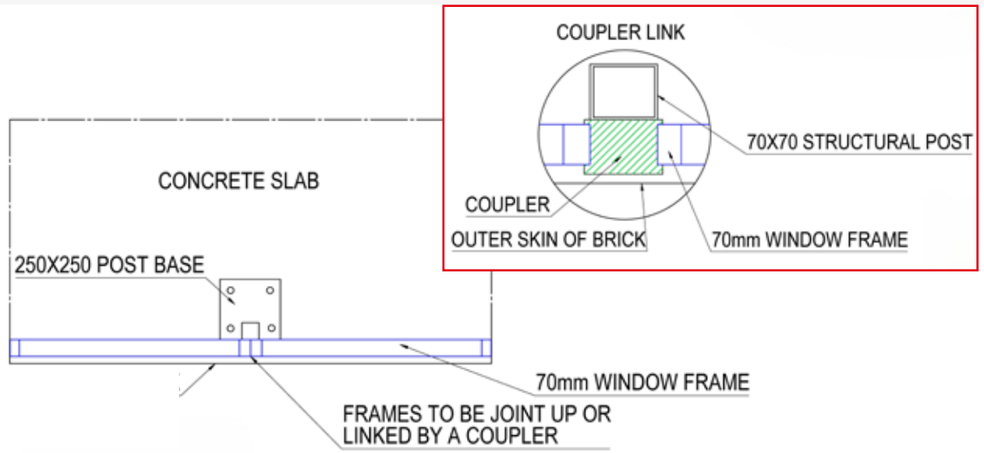
Corner post - 100 x 100mm - bi-fold to window



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

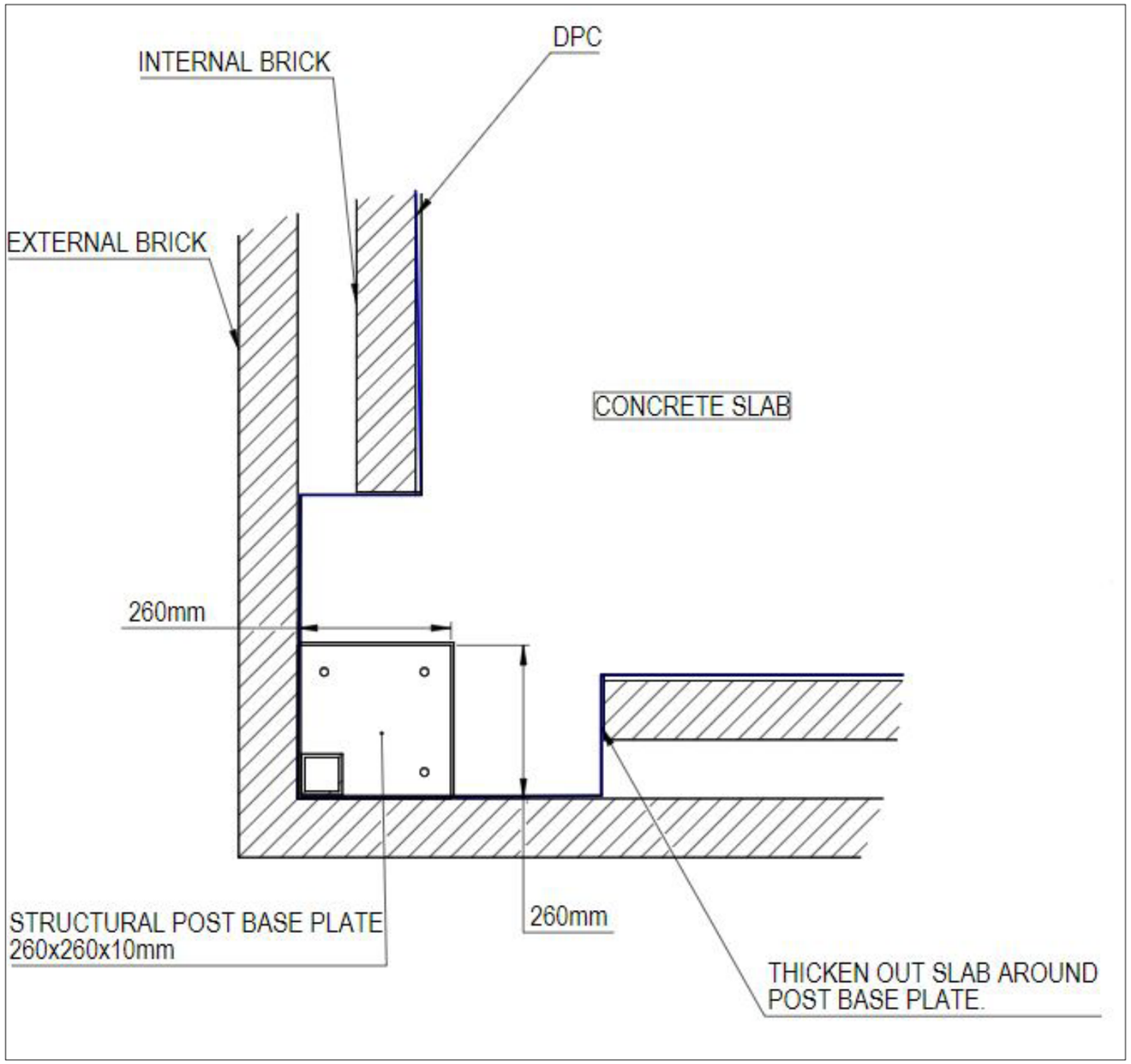


Inline post - 70 x 70mm - bi-fold to window



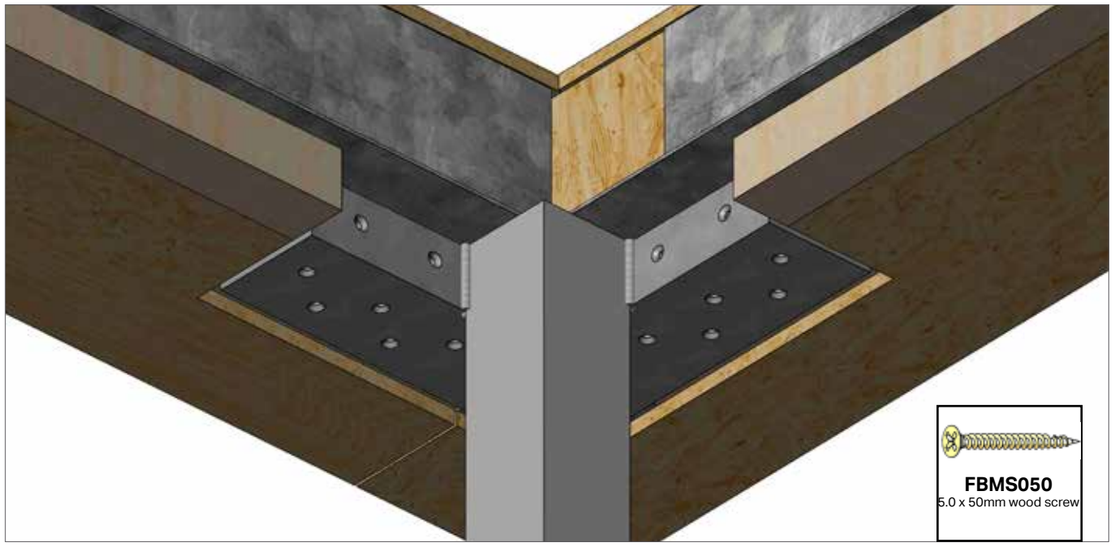
STRUCTURAL POSTS

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.

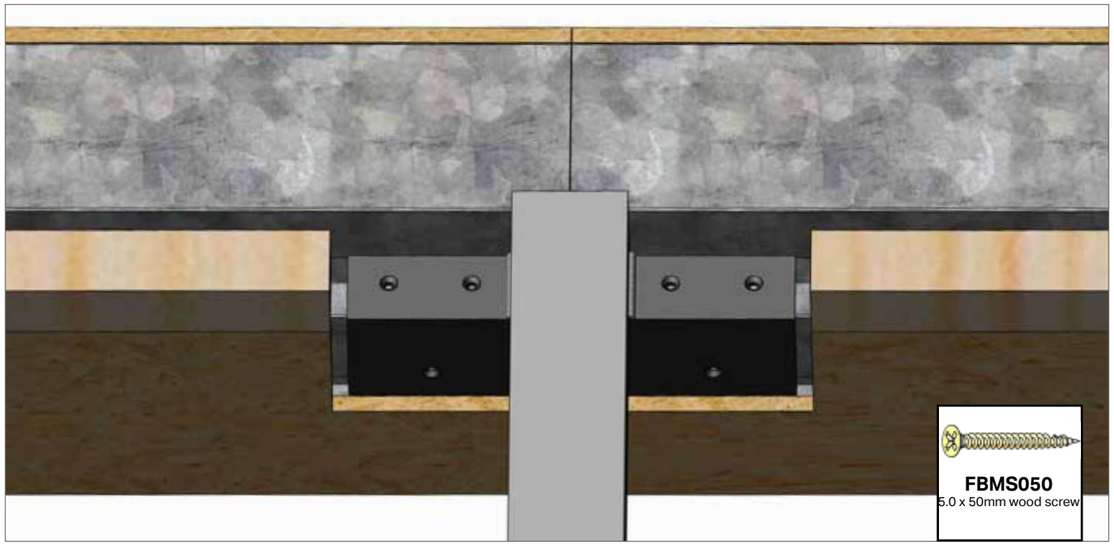


STRUCTURAL POSTS

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.

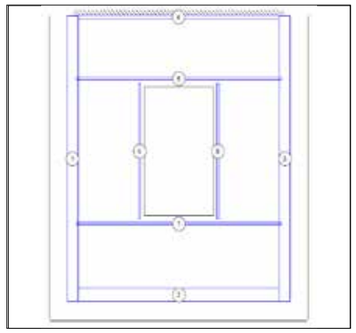


After cutting back the internal 2x2 batten, corner posts should be fixed using 14x FBMS050 5 x 50mm wood screws through the pre drilled holes into the base and the internal face of the beam to secure it into position.

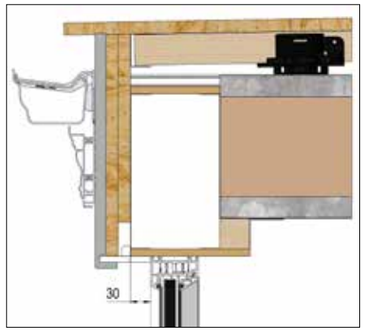


After cutting back the internal 2x2 batten, inline posts should be fixed using 8x FBMS050 5 x 50mm wood screws through the pre drilled holes into the base and the internal face of the beam to secure it into position.

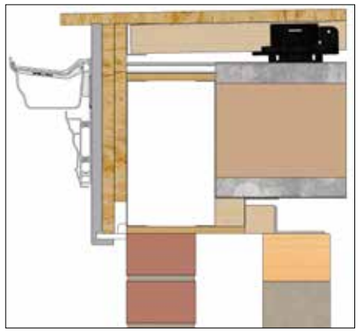
INSTALLATION - BOX BEAMS



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



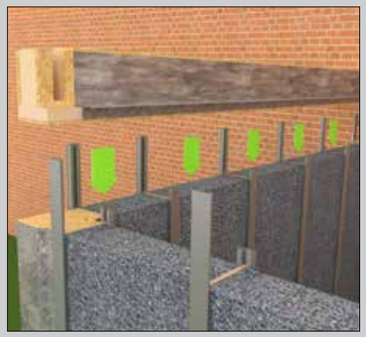
When sitting on frames, the external face of the beam should sit 30mm proud of the external face of the frame.



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



Take the female beam, lift the beam into position as per the above positioning depending on your situation. Prop if needed.



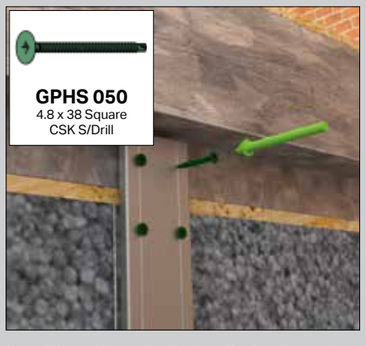
Detail Specific to hup! jobs. Lower the box beam between the internal and external clips until it sits on the wall panels. Prop if needed.



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 at a later stage.



Position the front 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.

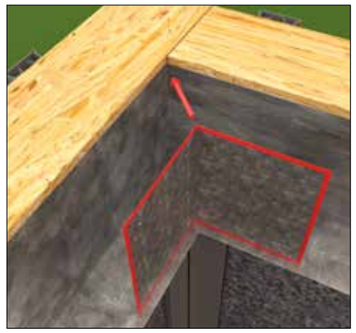


Detail Specific to hup! jobs. Fix the internal clips into the wall panels and beams using 4x GPHS050 screws. Fix 2 of the screws into the beam and the remaining 2 into the wall panel as shown. Do this on each box beam.

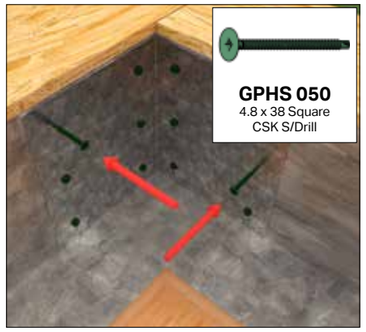


Detail Specific to hup! jobs. Fix the external clips into the wall panels and beams using 6x GPHS050 screws. Fix 4 of the screws into the beam, 2 at the top and 2 at the bottom. Fix the remaining 2 into the wall panel as shown. Do this on each box beam.

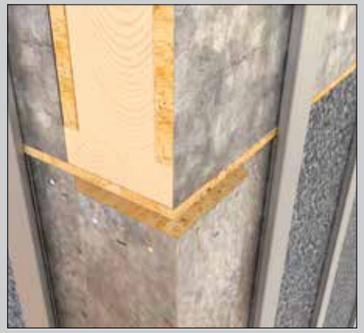
INSTALLATION - BOX BEAMS



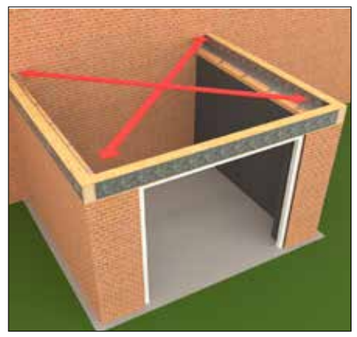
Offer up the internal cleat to the corner joint.



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



On hup! builds check the corner is aligned correctly, see example above.



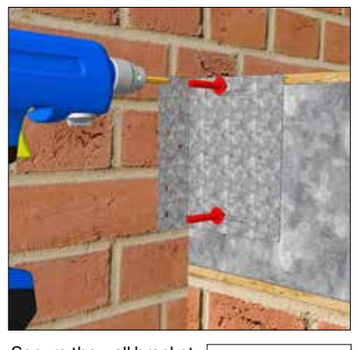
Check diagonals of the beam to check for squareness, adjust if necessary.



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

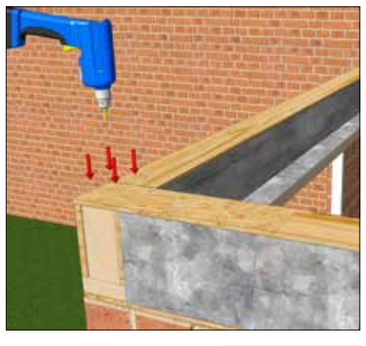


Push the loosely fitted abutment brackets up to host wall. Fix into the solid masonry with 4 suitable fixings (NOT SUPPLIED) avoiding mortar joints on both sides.



Secure the wall bracket through the remaining pre-drilled holes into the beam with 9x GPHS 050 on both sides. Then use expanding foam to fill any gaps between the beam and host wall.





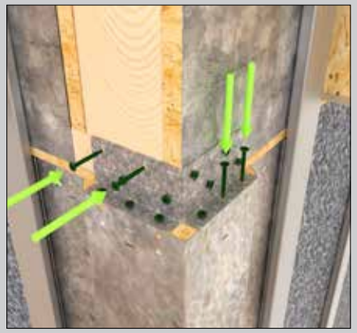
4x fixings GPHS 050 required to screw through the top of the OSB into each external corner.





Detail specific to hup! jobs. Take 2 corner fixing brackets for each corner. Push them up against the front face of the beam and sit them on the corner post.

INSTALLATION - BOX BEAMS

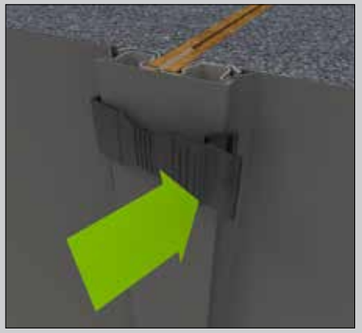


Detail Specific to hup! jobs. Use 7x GPHS 050 fixings for each bracket securing the brackets through the pre-drilled holes into the corner post and beam



GPHS 050
4.8 x 38 Square CSK S/Drill

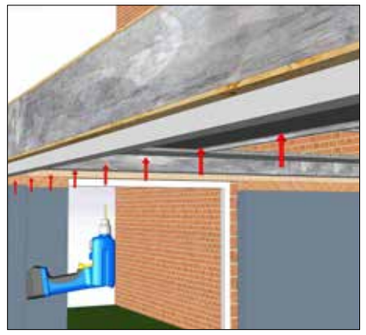




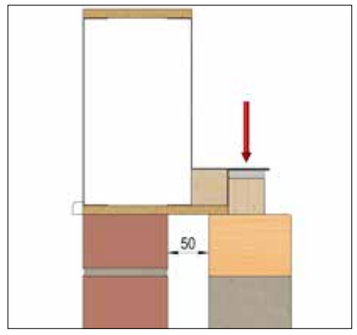
Unroll the membrane over the walls allowing this to sit slightly below DPC level (around 10mm). Ensure that any joins in the membrane overlap by a minimum of 100mm horizontally and 150mm vertically. This can be clipped in place using the membrane clips provided. The membrane detail at the top of the wall is shown in the following steps.



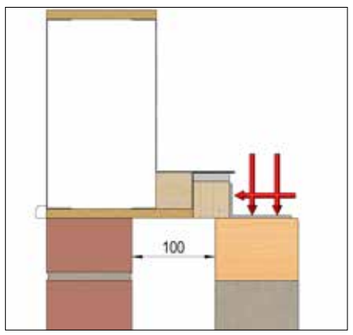
Leave membrane loose at the top as this will extend over the OSB fascia later in the build as shown in the example above.



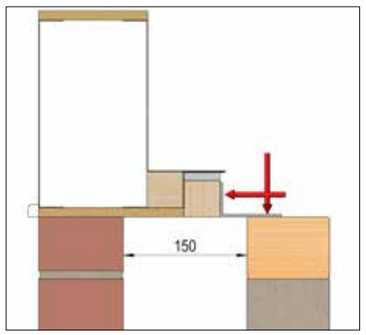
Any frames should be fixed into the underside of the beam through the frame. Fixings should be within 150mm of each corner and at max. 450mm centres using suitable fixings (NOT SUPPLIED).



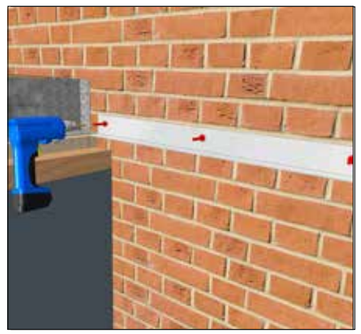
For 50mm cavities, the gap between the timber and the shelf should be packed out and the beam should be fixed down into the timber wall plate through the shelf at 300mm centres with suitable fixings (NOT SUPPLIED).



For 100mm cavities, 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 wall plate through the pre-drilled holes (NOT SUPPLIED).

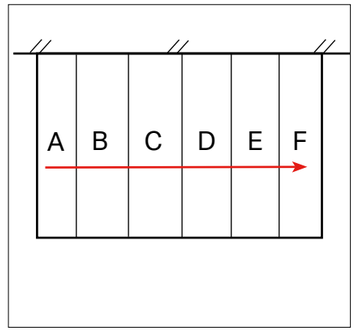


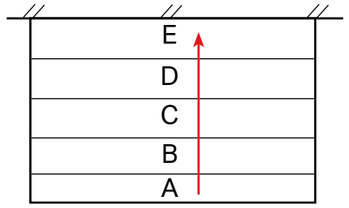
For 150mm cavities, a box beam holding down bracket will be provided to be fit at 600mm centres, 2 fixings into beam using NRDS070 and 2 fixings into timber wall plate through the pre-drilled holes (NOT SUPPLIED).

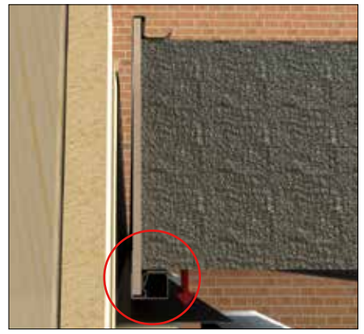


Line up the wall plate with the beam shelf so it sits flush. Fix the longest side of the wall plate to the host wall, 200mm from ends and at maximum 450mm centres. Avoid mortar joints and use appropriate fixings (NOT SUPPLIED).

INSTALLATION - PANEL SEQUENCING

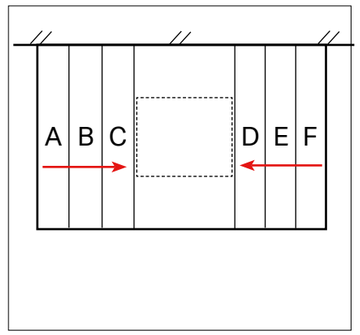




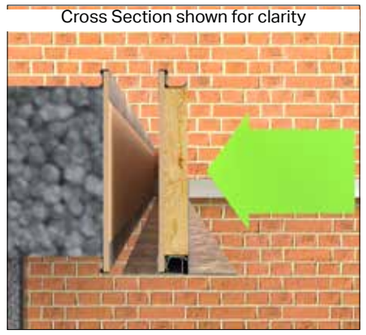


Fit panels from eaves beam working towards apertures following location plan. Panels running parallel with the eaves beam or host wall will have a prepared half clip already attached to the panel. This should be placed on the inside face of the shelf as per above. Once all the panels are in place, unband and use expanding foam if needed.

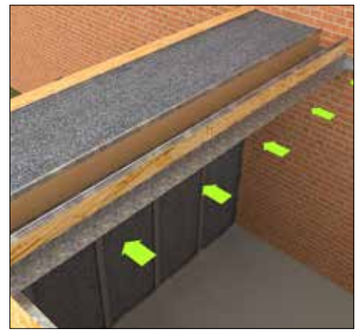
Details specific for apertures with trimmer shelf



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 panel to position it.



Fix the shelf through the adjacent panels at 500mm centres using the NRDS070 fixing to hold them in place.



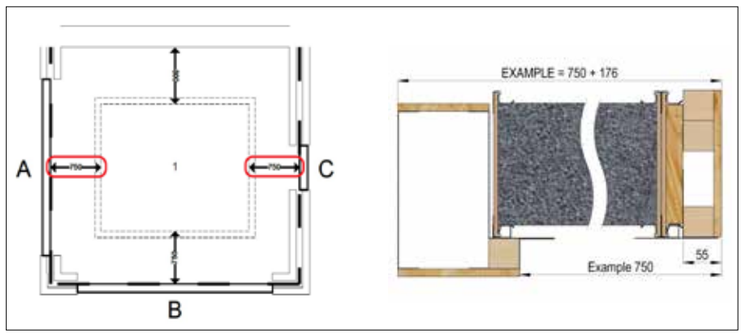
NRDS070 25
4.5 x 70 Deck screw CSK Phillips



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.

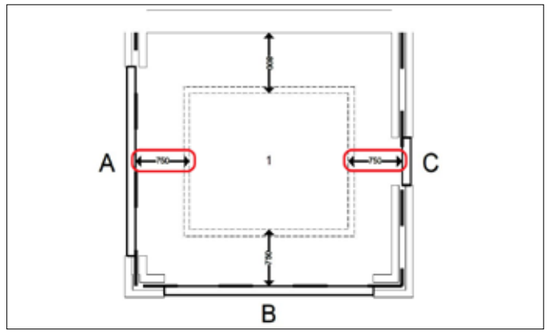


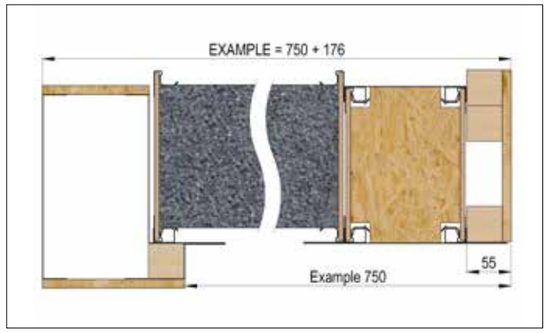
GPHS 050
4.8 x 38 Square CSK S/Drill



To check the trimmer panels are in the correct position, check the 'rooflights' page of the confirmation sheets in the site pack. Take the dimensions for both sides and add 176mm to give you the dimension from the external face of the beam to the internal face of the aperture. In the example on the left, the dimension given is 750mm, therefore the check dimension would be 750 + 176 = 926mm.

INSTALLATION - INTERMEDIATE BEAMS





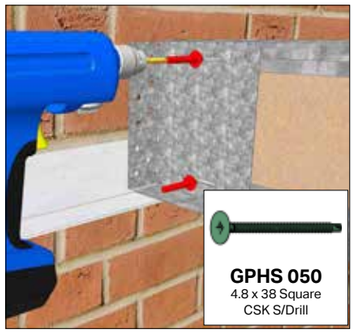
To check the intermediate beams are in the correct position, check the 'rooflights' page of the confirmation sheets in the site pack. Take the dimensions for both sides and add 176mm to give you the dimension from the external face of the beam to the internal face of the aperture. In the example on the left, the dimension given is 750mm, therefore the check dimension would be 750 + 176 = 926mm.
Please note: Intermediate beams must be supported until completion.



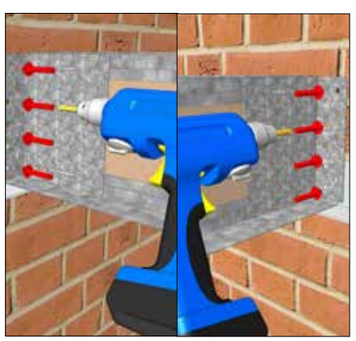
Fix steel wall abutment brackets to the host wall side of both intermediate beams via the slots using 2x GPHS provided. The brackets should be aligned with the end of the beam. Note: do not fully tighten at this stage.



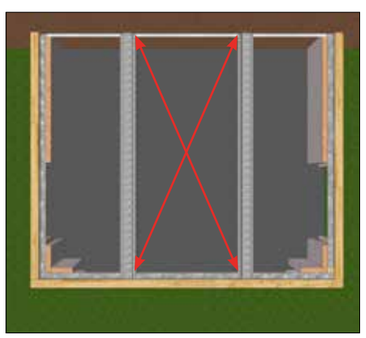
Lower the beam into position ensuring the beam sits on the wall plate and beam shelf. Note: Support intermediate beams until completion.



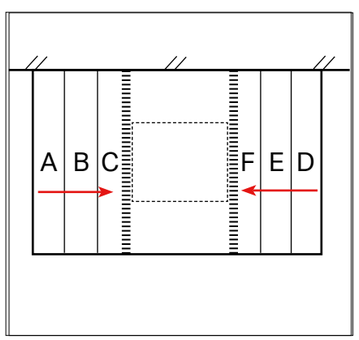
Fix the brackets in the same way as the box beams. Fix the wall brackets through the remaining pre-drilled holes into the side of the beam with GPHS050, 9 per side of the intermediate beam.



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

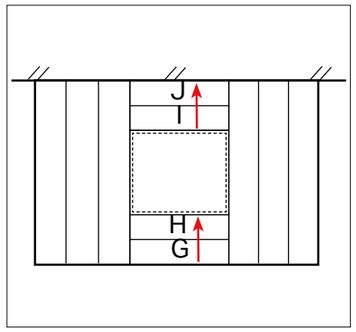


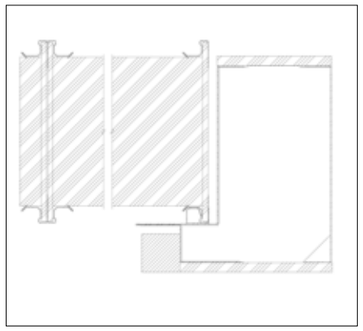
Double check the intermediate beam is in the correct position with the check dimensions and ensure square before continuing.



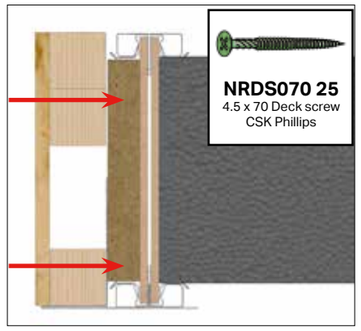
Next, start placing the longest panels first on either side of the intermediate away from the beams. DO NOT REMOVE ANY BANDING YET.

INSTALLATION - PANEL SEQUENCING

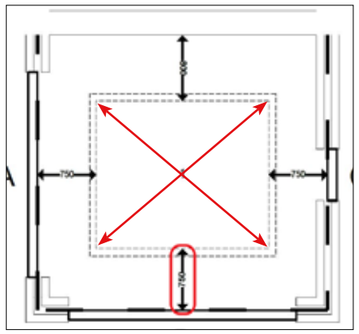




Move onto the shorter panels and trimmers, working backward towards the host wall. Following the same sequence as above, placing the panels first, then the aperture panel fixing at 500mm centres using the NRDS070 fixing.



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

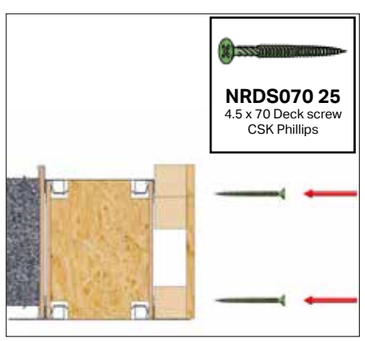


Finally, check the position of the aperture from the external face of the front beam backwards. Check diagonals for squareness and aperture size before progressing further.

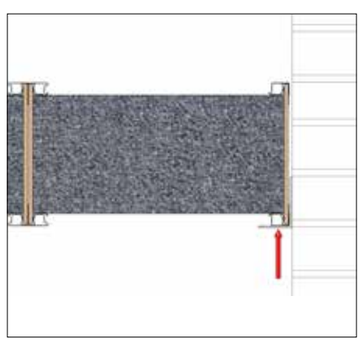


Once all checks complete unband the panels.

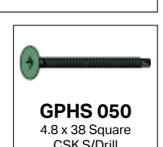




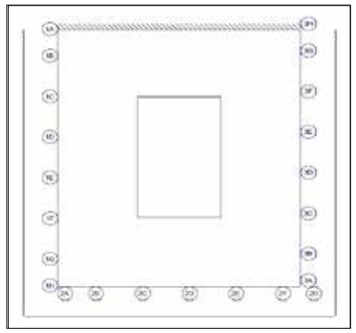
Place the OSB kerb support onto the trimmer shelf ensuring the 2 sets of 2x2 are on the top face of the roof facing away from the aperture opening. Then fix in place with 2x NRDS070 fixings at 300mm centres.



For the panels running parallel with the host wall, fix up through the angled wall plate into the panel using GPHS 050 at 300mm centres maximum.



INSTALLATION - EXTENDED SOFFIT



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, ensure to manually bend the fin on the extended flange so it hooks over the beam. They should be positioned adjacent to the edge of the abutment bracket. Fix fin down into box beam through the 4x pre-drilled holes using GPHS050 fixing. Then, secure into the front face of the beam using 2x GPHS050 fixing.



GPHS 050
4.8 x 38 Square
CSK S/Drill







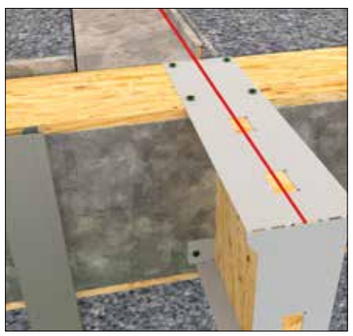
GPHS 050
4.8 x 38 Square
CSK S/Drill

Fit the corner fins next, placing them as close into the corners as possible on brick or frames. For hup! place the fins as close as possible to the external wall clips. 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 done previously.

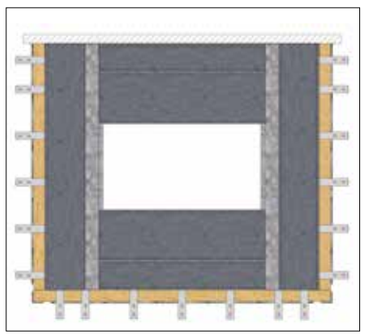


GPHS 050
4.8 x 38 Square
CSK S/Drill

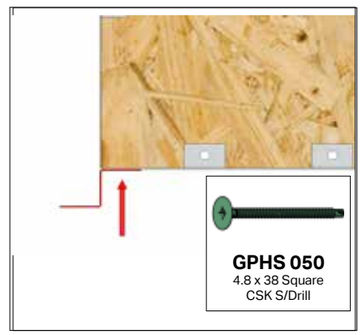
When the panels are running parallel to the box beams, refer to the location plan for positioning and fix them at no more than 600mm centres equally positioned. On hup! offset the fins from the wall clips. Fix 6x GPHS050 fixings same as on the first fin.



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.



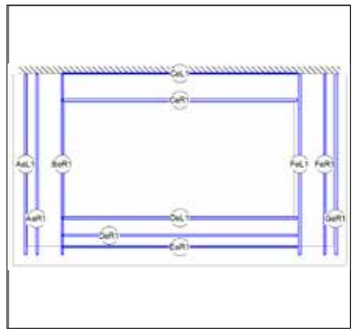
An example of a finished fin layout is shown above.



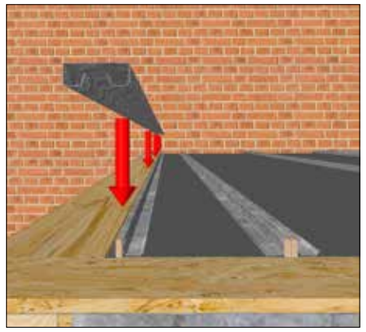
GPHS 050
4.8 x 38 Square
CSK S/Drill

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. Note: Cut Z section to size.

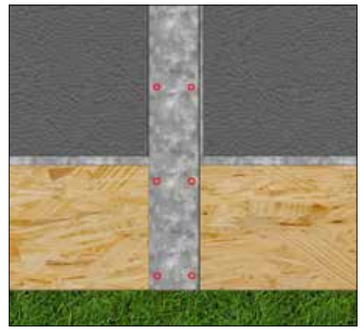
INSTALLATION - EXTERNAL PANEL CLIPS



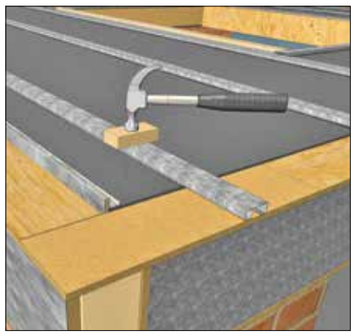
Refer to your 'External Clip Location plan' that is in your site pack for locations and lengths of external clips that will be provided.



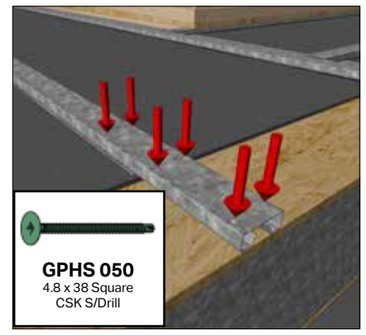
Please read the label on the clip in conjunction with the clip location plan. Lay external clip into position ready for securing.



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

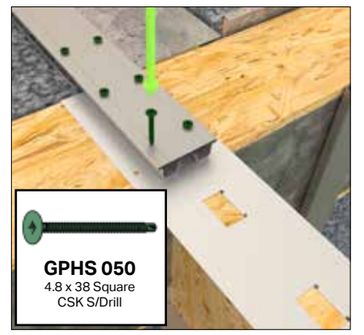


When aligned, use a hammer or robust mallet to knock down the external panel locking clips (use a short length of timber to protect the clip from indentations).



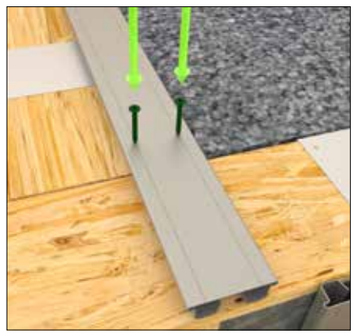
GPHS 050
4.8 x 38 Square
CSK S/Drill

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



GPHS 050
4.8 x 38 Square
CSK S/Drill

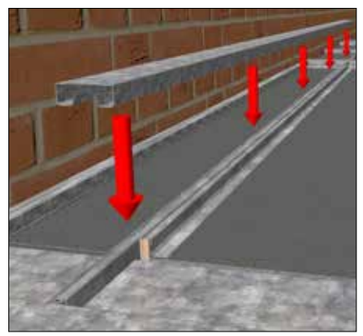
When the fins overlap the panel clips, sit the clips over the fins and fix down with 6x GPHS050 as done previously.



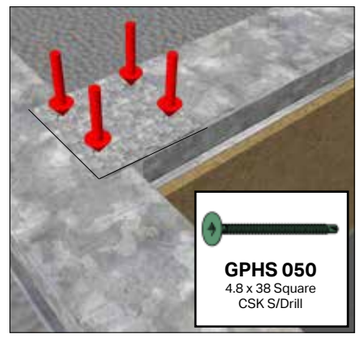
When installing the external clip running along the beam, secure the clip into the panel then beam using 2x GPHS050 at 300mm centres.



GPHS 050
4.8 x 38 Square
CSK S/Drill



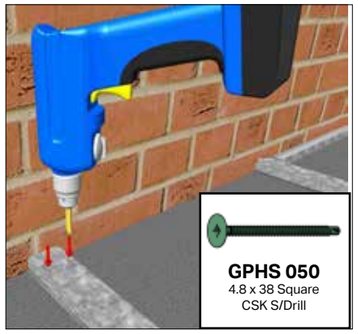
Position the rest of the external clips as per the location plan, please note that there is no external clip at the host wall.



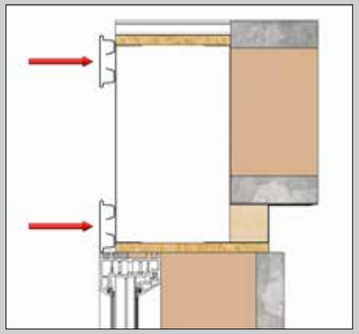
GPHS 050
4.8 x 38 Square
CSK S/Drill

For any external clips that butt up to other clips, a tab plate is used to secure them using 4x GPHS050 fixings. Do not place the tab plates around corners of apertures, fixing these will cause the kerb not to sit correctly.

INSTALLATION - EXTERNAL PANEL CLIPS

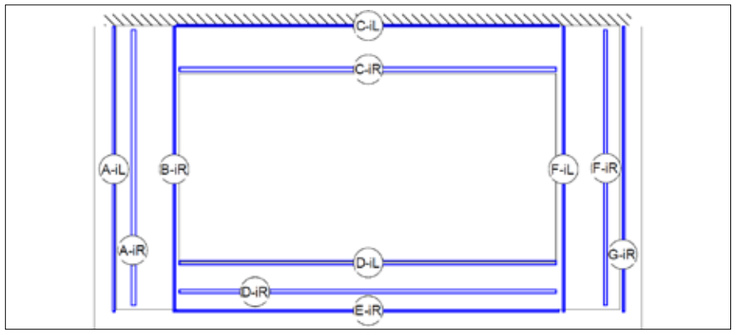


Secure the external clips at the host wall through the predrilled holes using 2x GPHS050.

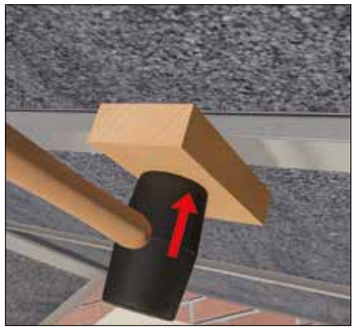


On hup! when there's an opening that is fixed to the bottom of the beam, 2 full clips must be fixed to the front face of the beam for the width of the opening. Use 1x GPHS050 at 400 centres on each full clip.

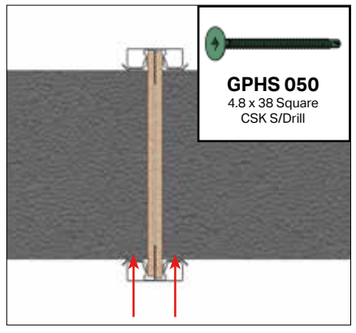
INSTALLATION - INTERNAL PANEL CLIPS



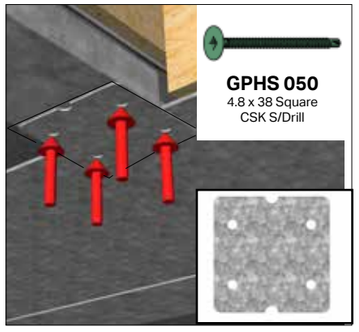
Refer to your 'Internal Clip Location plan' that is in your site pack for locations and lengths of external clips that will be provided.



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.

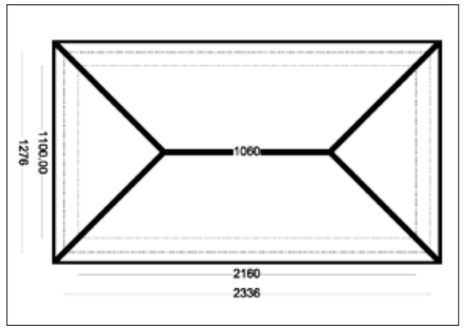


For internal clips that butt up to other steels use a tab plate and secure them together using 4x GPHS050 fixings.



After all clips have been fitted fill any gaps to host wall using expanding foam.

INSTALLATION - KERB

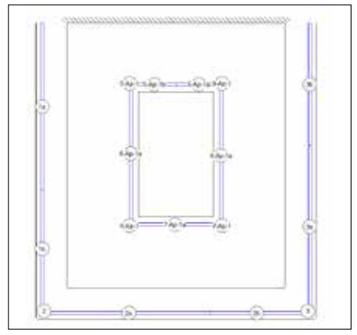


Lantern Information	
Internal Kerb Width	2160mm
Internal Kerb Depth	1100mm
External Kerb Width	2336mm
External Kerb Depth	1276mm
Internal Material	PVC
External Material	Aluminium
Internal Colour	Signal White 80% gloss
External Colour	Anthracite Grey 30% gloss
Glass Type	Conservaglass SMG Ultimate Blue
Glass Area	3.751m^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 is 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.

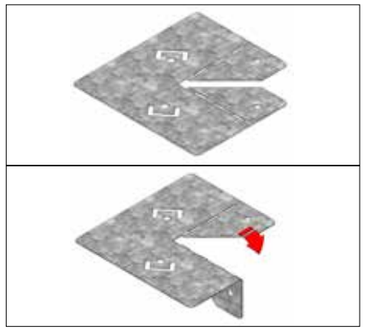


Place the 2nd section of the kerb into position and fix through the side into the opposing kerb using 6x FBMS050 fixings. Place the remaining kerbs and repeat this step for all corners.



If the kerb timber is twisted replace the 2x FBMS050 screws used under the steel rail with 1x FRFC008-150 screw.

FRFC008 150
M6 x 150 Hex head deck screw



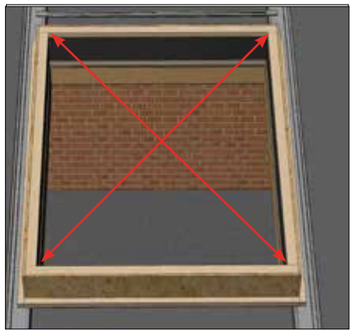
Take the flat joist hanger corner and fold the tabs 90°. Both tabs should be folded in the same direction.



Take the joist hanger corner and position it up against the kerb inline with the joist hanger rails. Fix back into the predrilled holes using 2x FSS-42-13 fixings per profile.

FSS-42-13
4.2 x 13 Wafer head self-tapping screw

INSTALLATION - KERB



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.

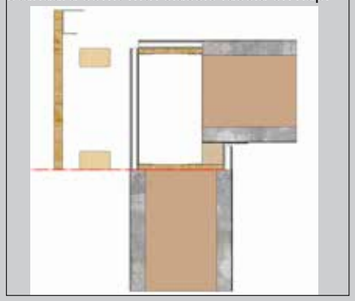


Once the kerb is in the correct position, secure to the steel clips and timer kerb support by fixing at an angle through the base of the kerb using NRDS070 at 300mm centres.

INSTALLATION - STANDARD SOFFIT OSB

Exploded Views on hup!

Standard soffit with classic fascia on hup!



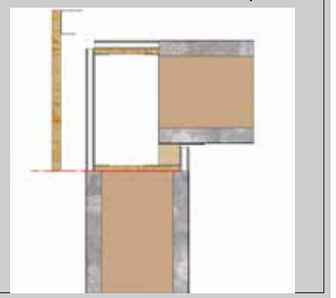
Fit 2 63x38mm timber battens at 400mm centres with 2 x MTWF001 directly onto the wall clips, align with top and bottom of the beam. Fix OSB fascia onto the battens aligning with 2 x FBMS050 at 300mm centres.

Standard soffit 2 tier cornice on hup!



Fit 2 44x44mm timber battens at 400mm centres with 2 x MTWF001 directly onto the wall clips, align with top and bottom of the beam. Fix OSB fascia onto the battens aligning with 2 x FBMS050 at 300mm centres.

Standard soffit 4 tier cornice on hup!



Fit OSB fascia directly onto wall clips align with bottom of the beam. Fix using 3 x FBMS050 fixings per wall clip.

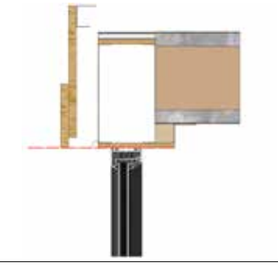
Exploded Views on Frames/Brick

Standard soffit classic fascia on frames/ brick



Fit OSB fascia to the box beam align OSB with bottom of the beam. Fix using 3 x FBMS050 fixings every 400mm centres.

Standard soffit 2 tier cornice on frames/brick



Fit OSB fascia to the box beam align OSB with bottom of the beam. Fix using 3 x FBMS050 fixings every 400mm centres.

Standard soffit 4 tier cornice on frames/ brick

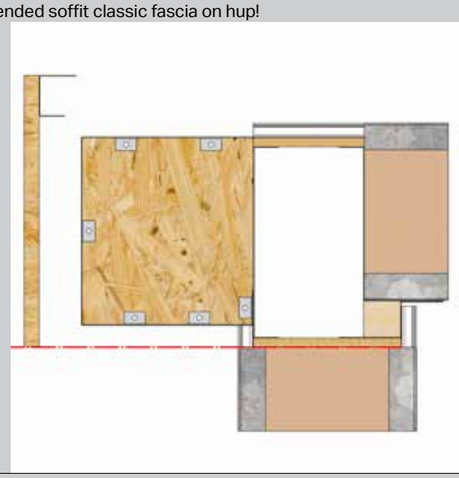


Fit OSB fascia to the box beam, bottom of the OSB sits 24mm above the bottom of the box beam. Fix using 3 x FBMS050 fixings every 400mm centres.

INSTALLATION - EXTENDED SOFFIT OSB

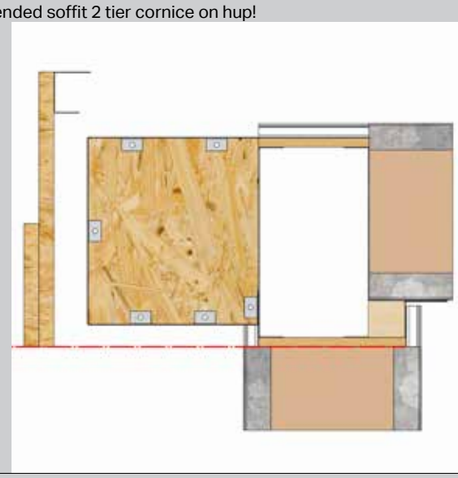
On hup!

Extended soffit classic fascia on hup!



Fix the OSB fascia to the extended soffit fin align OSB with bottom of the beam using 6x FBMS050 fixings per fin

Extended soffit 2 tier cornice on hup!



Fix the OSB fascia to the extended soffit fin align OSB with bottom of the beam using 6x FBMS050 fixings per fin.

On Frames

Extended soffit classic fascia on frames



Fit 50x25mm timber batten to the underside of the extended soffit fin, parallel to the box beam using GPHS050 fixings. Fit OSB fascia to the extended soffit fin. To ease fitting temporarily fix a batten to the bottom of the extended fin and align the OSB to the bottom of the batten using 6 x FBMS050 fixing per fin.

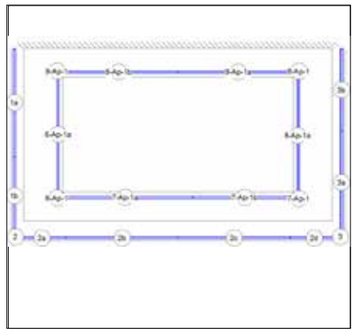
Extended soffit 2 tier cornice on frames



Fit 50x25mm timber batten to the underside of the extended soffit fin, parallel to the box beam using GPHS050 fixings. Fit OSB fascia to the extended soffit fin. To ease fitting temporarily fix a batten to the bottom of the extended fin and align the OSB to the bottom of the batten using 6 x FBMS050 fixing per fin.

INSTALLATION - COMMON SOFFIT DETAILS

Details applicable to jobs on hupl, frames and brick



Refer to the location plan for the OSB fascia positions, start in the left corner and work towards the host wall.





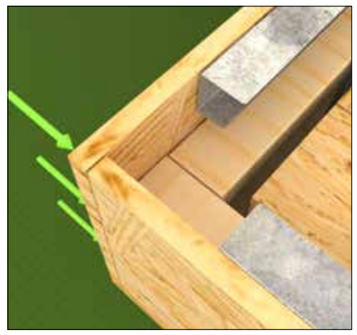
Position OSB fascia 1b so it sits 18mm beyond the return battens as shown in the example above. Refer to previous section for job specific details, including fixing rules.



Position OSB fascia 1a up against the host wall and fix back using the same fixing rules as before. On some fascia options there's an additional layer of OSB, fix back the overlapping layer with 4x FBMS050.

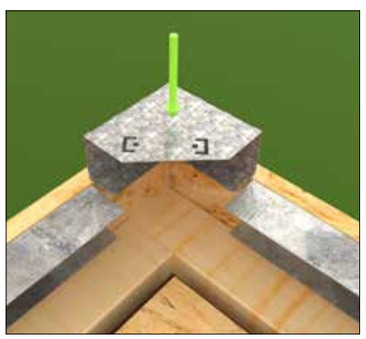


Take OSB fascia 2a and butt it up against OSB 1b. Use same fixing rules as before for the length of 2a and fix 3x FBMS050 screws through the corner. Continue to fit the rest of the OSB for the front elevation using the same fixing rules.





At the end of the front elevation the OSB fascia should overlap the next. Fix corner as done previously. Continue fitting OSB fascia as above on the return wall. The distance highlighted in red must be a minimum of 100mm in both directions to allow for the corner piece to fit in.



For joist hanger rails corners check location plan for positions and fix back through predrilled holes using 4 x FSS-42-13.



FSS-42-13
4.2 x 13 Wafer head self-tapping screw



After OSB is fitted the top of the membrane can be secured. Lap up the membrane over the OSB fascia by 50mm. On extended soffit, now fix the 50x25mm battens with 2x GPHS050 screws along the underside of each fin as shown in the example above.

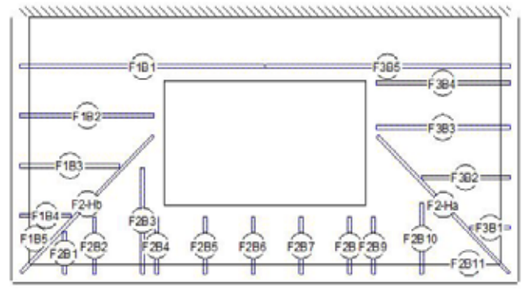


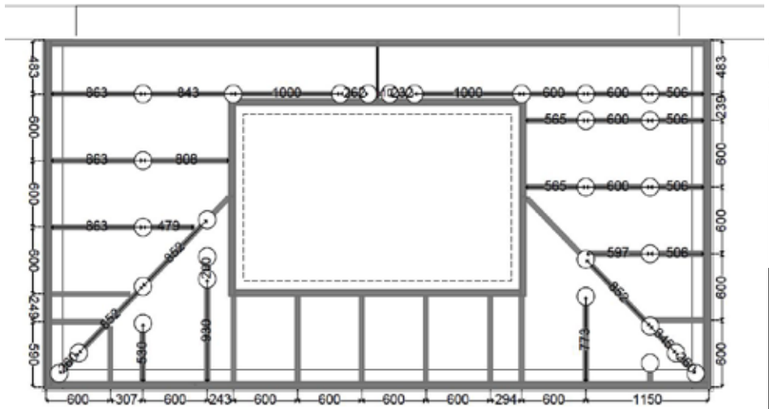
FBMS050
5.0 x 50mm WOOD SCREW

INSTALLATION - PITCHLOCK

When starting on Pitchlocks, 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 can speed up installation time. Refer to the Pitchlock location plan which identifies each batten position.

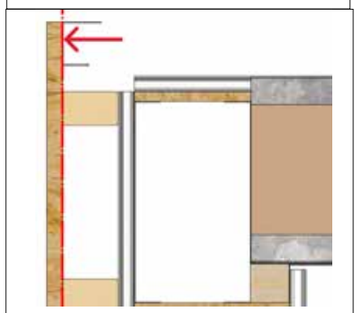




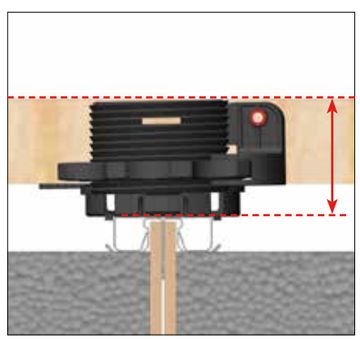


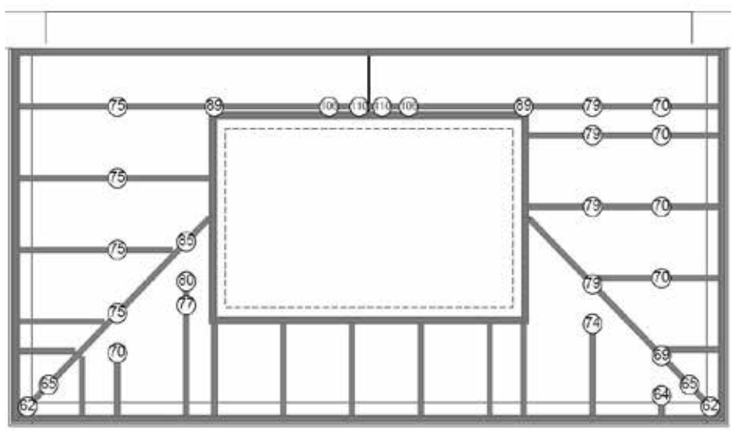
Once your fall battens are in the correct location, the position of the Pitchlocks can be found on the **Pitchlock Dimension Report** in your site pack. This gives the Pitchlock and firring positions. These positions are to the centre.

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:





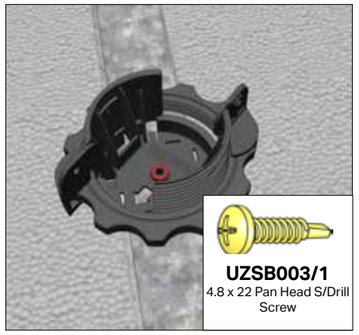
INSTALLATION - PITCHLOCK



After laying out each firring start with the hip positions. Place firring into the joist hanger corner and align with the 2 tabs on the corner profile



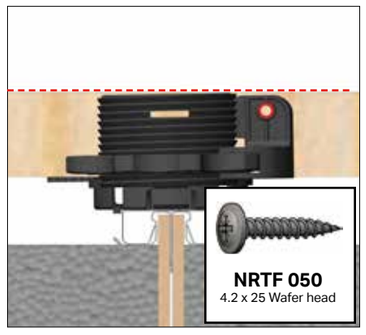
On each clip that intersects with the firring, mark either side of the 2x2 ready for the pitchlocks to be fitted. Follow the location plan for Pitchlock positions.



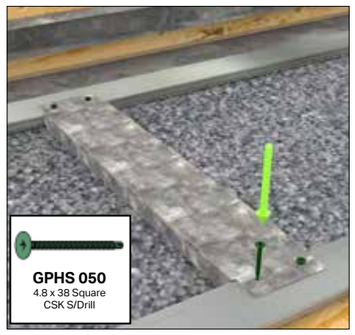
Place your Pitchlock centered in the middle of the markings and on the clip with the arrow pointing towards the way of the fall. Secure through the centre hole on the Pitchlock into the clip using 1x UZSB003/1 fixing. Note: This step does not apply if you have an upstand, first fit the firrings.



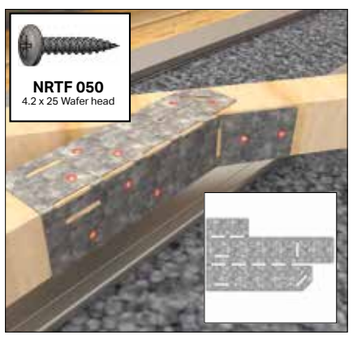
Continue placing and securing Pitchlocks inline and in conjunction with the location plan, placing them no further than 1m apart. Once completed, place firring in position.



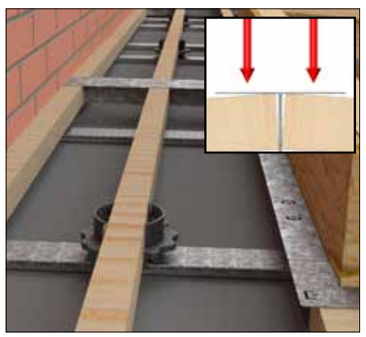
Set your Pitchlocks to the height dictated on the Pitchlock Heights Report. Heights stated are from the top of the clip to the top of the batten. Once positioned secure using 2x NRTF050 through the holes on either side of the pitchlock. Note: Pitchlocks can be stacked when required.



Pitchlock supports are shown in the Pitchlock location plan. They're fixed down with 4x GPHS050 screws into the predrilled holes.



Fold hip steel plate to suit the shape needed to connect firrings to kerb batten, Secure the hip steel plates with up to 10x NRTF050 fixings where applicable through the pre-drilled holes.



A t-shaped ridge plate may be included in your job. Place it in position and fix down through the ridge plate into the batten using 2x NPS050 on each batten.





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

INSTALLATION - DECKING

Ensure roof is boarded out for safe standing before fitting insulation and deck

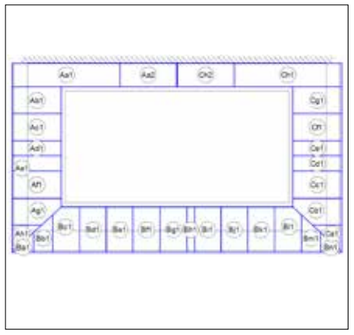




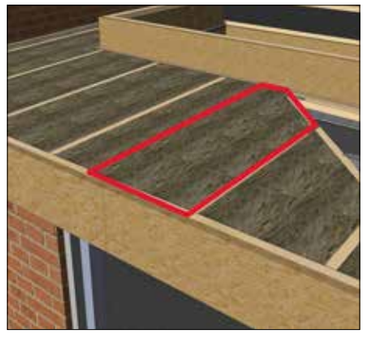
Before fitting the OSB decking fill the gaps between the firrings with insulation.



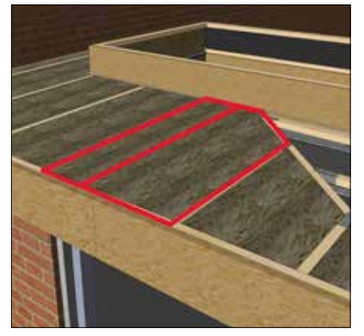
Before placing OSB deck, use the glue provided to place a line on the timber firrings that the deck will sit on. Also glue any joints in the OSB as you proceed around the roof.



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.



Lay a bead of glue under the first board which is positioned next to the hip and kerb. 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 drip detail being fitted.



Use the screws 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.

Please review your membrane manufacturers recommended fixing detail.

INSTALLATION - CRICKETS



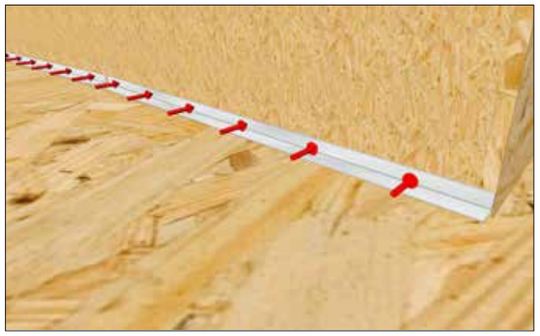
In some scenarios crickets will need to be installed around the lantern/intrusion. This is made up of 1 or 2 OSB boards cut into a triangle shape to direct the water away from the area. Refer to the cricket location plan for cricket positioning on the roof.



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.



NRTF 050
4.2 x 25 Wafer head



Then secure the angles through the predrilled holes using NRPS050.



NRTF 050
4.2 x 25 Wafer head



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.



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



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

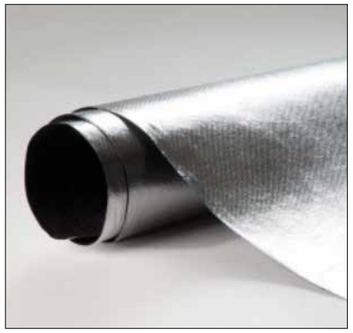


Predrill the fillet and glue and secure using NRPS050 at 150mm centres.



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

INSTALLATION - INTERNAL 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 the internal steels and clips to adhere your membrane. Overlap tape onto the beam shelf and host wall so the membrane can return below the beam shelf. Ensure any gaps between the beam and membrane and covered with foil tape.

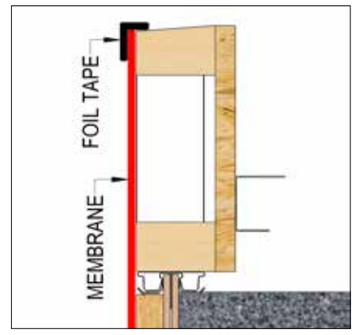




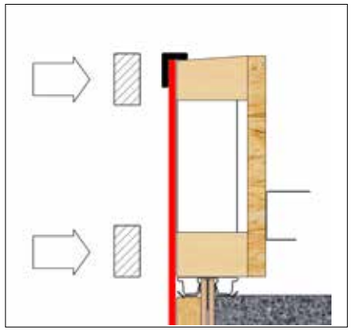
Ensure the membrane overlaps down the host wall by 50mm. Use foil tape to close off the end of the membrane preventing gaps.



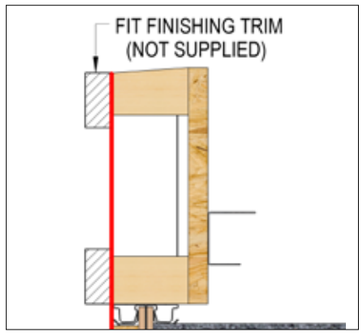
When a joint is required overlap the membrane by 150mm and apply double sided tape to hold both pieces together. Close off the joint using foil tape.



On kerbs return the membrane up the side and fix in place with foil tape at the top.



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

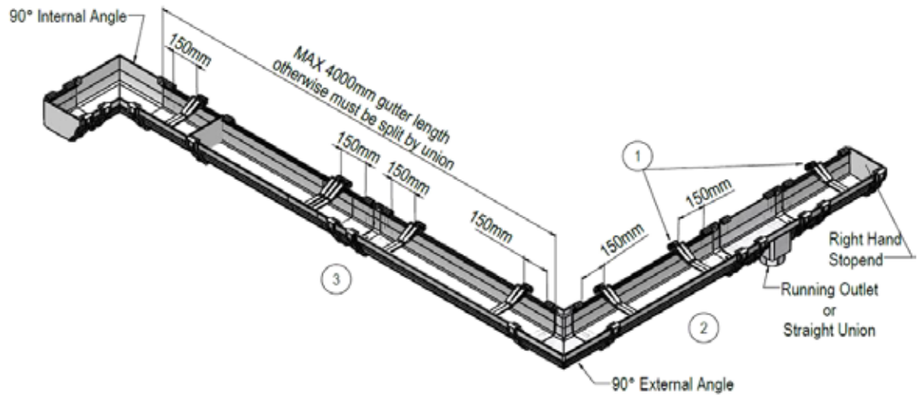


After the battens are fitted use a finishing trim (NOT SUPPLIED) on top of the timber to prevent it from being visible from the lantern. We recommend black or grey.



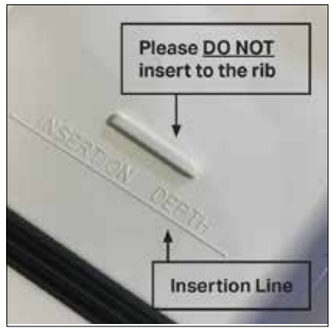
Continue to batten out the rest of the membrane along the steel clips and beams.

INSTALLATION - GUTTER DETAILS



Gutter component rules

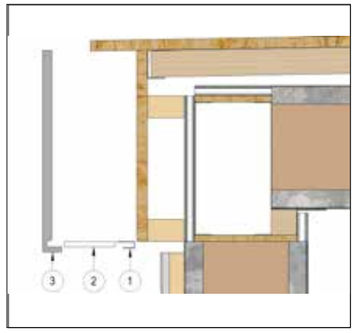
Scan QR Code to watch the correct method for fitting the gutter and unions.



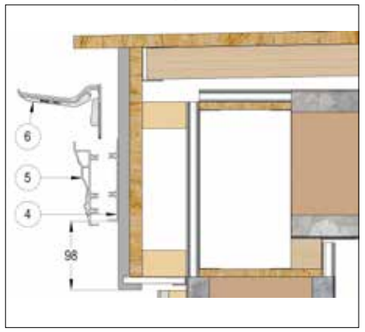
When fitting ensure all lengths of gutter fit to the marked insertion line (and NOT to the rib) seen in all unions and adaptors. Lubricate all seals prior to insertion and NEVER push fit from the end but rather roll the guttering into place.

INSTALLATION -
FASCIA FINISH CROSS SECTIONS - STANDARD SOFFIT

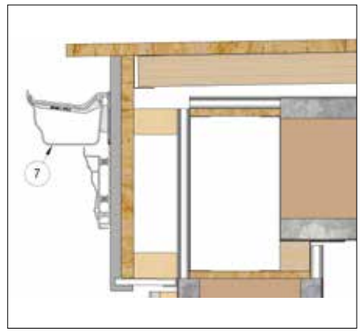
Common Classic Fascia Installation Sequence



1 – Soffit Board Channel
2 – Soffit board
3 – Fascia board

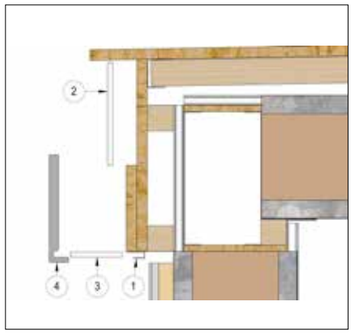


4 – Flat fascia profile
5 – Curved fascia profile
6 – Gutter bracket

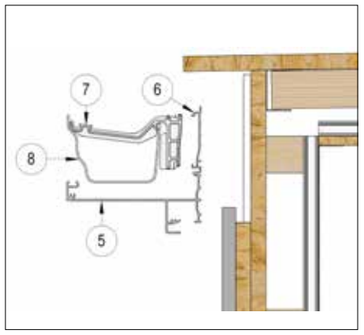


7 – Gutter

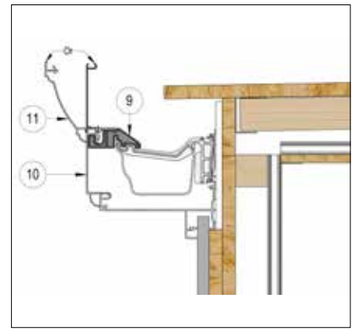
Common 2 Tier Cornice Installation Sequence



1 – Soffit Board Channel
2 – Soffit Board above OSB
3 – Soffit board below OSB
4 – Fascia board

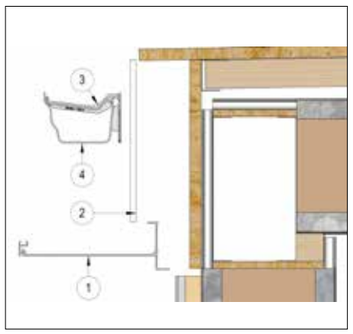


5 – Lower cornice profile
6 – Gutter channel
7 – Gutter brackets
8 – Gutter

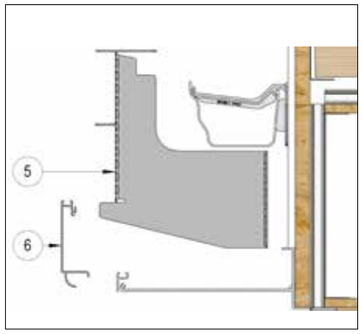


9 – Cornice support bracket
10 – Mid tier cornice profile
11 – Top cornice profile – Flat or Curved

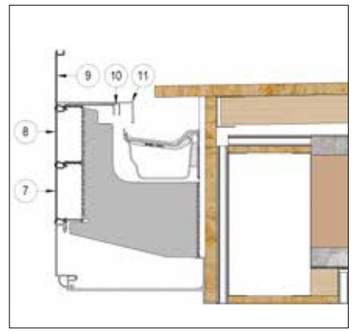
Common 4 Tier Cornice Installation Sequence



Install Sequence:
1 – Lower cornice profile
2 – Soffit board
3 – Gutter bracket
4 – Gutter



Install Sequence:
5 – Cornice support brackets
6 – 1st tier cornice profile

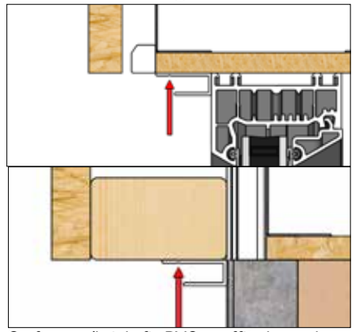


Install Sequence:
7 – 2nd tier cornice profile
8 – 3rd tier cornice profile
9 – 4th tier cornice profile
10 – F profile
11 – gutter drip profile

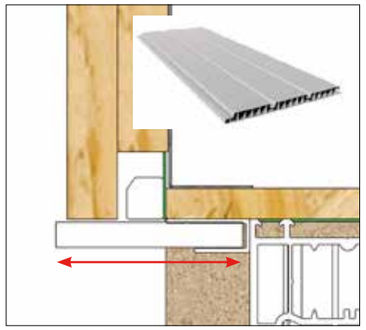
Note: The above details are universal across hup!, brick or frames and standard or extended soffit. For more detailed instructions read the following sections

INSTALLATION - STANDARD FASCIA DETAILS

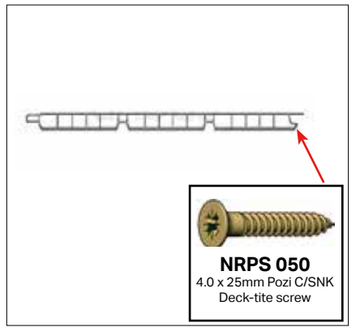
The following details are common in multiple fascia finishes.



On frames/brick, fix PVCu soffit channel into head of window frame or base of OSB board. On hup! fix up into battens (FIXING NOT SUPPLIED).



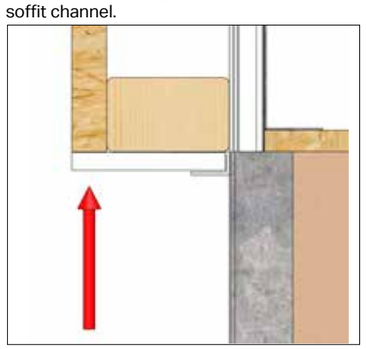
Next, fit soffit board. There are 3 different types which could be supplied depending on your fascia and soffit options, flat, ventilated and hollow. The soffit board is supplied in stock length and is to be cut to size on site. The board sits perpendicular to the beam. Measure the soffit depth and cut to size. Position your first board into the soffit channel.



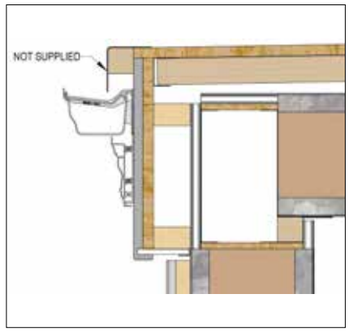
Secure the board using NRPS050 through the rear lip of the soffit board – see above.



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.



For flat and ventilated soffit boards fix up into the fascia OSB as shown using NRPS050 screws.



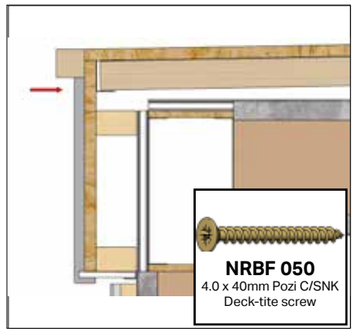
OSB deck will extend past the fascia, this is so you can fit your own edge trim. Cut back the OSB deck to suit and fit your edge trim batten detail. Fit the final drip profile after all the gutter has been assembled as you may need to trim it.



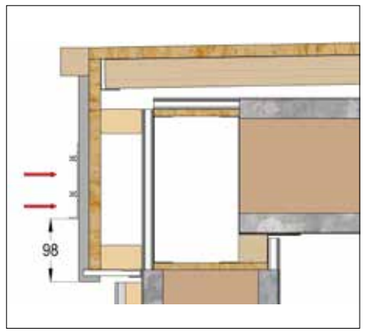
On all cornice jobs apply a bead of sealant at the corners of the lower cornice profile, shown in the example highlighted in red. Then apply sealant to the underside of the foam H section. Position foam component into the lower cornice section, ensuring it is tight into the corner and press down.



INSTALLATION - CLASSIC FASCIA DETAILS

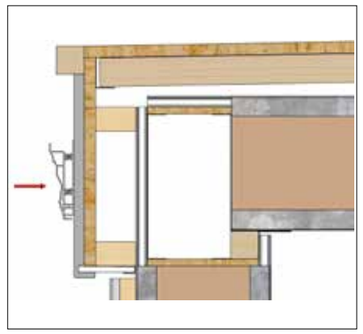


After the soffit board has been fitted, fix fascia board back into the OSB using 4x NRBF050 per length. Fix at top and centre of the board to hide fixings. Fit any inline and corner covers where needed.

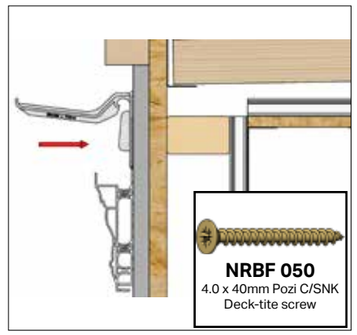


Fit the flat fascia profile using 2x NRBF050 screws per 500mm. Recommended offset for the fascia is 98mm from the bottom of the fascia board.

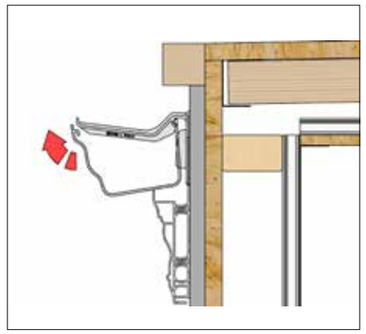




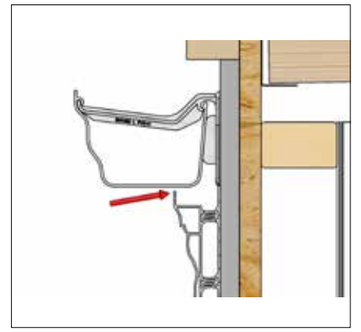
Next clip the outer fascia into the barbs on the flat fascia profile. Ensure barbs connect and the profile is held securely.



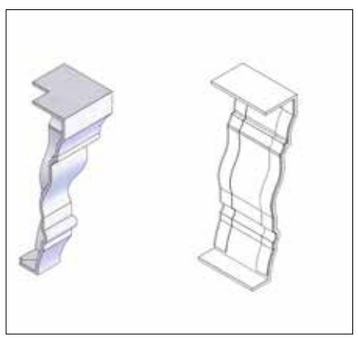
Sit gutter brackets on top of the flat fascia profile and fix back using 3x NRBF050 per bracket. Place brackets at a maximum of 750mm centres and 150mm from stop ends and unions. See 'Gutter Details' for more information.



After gutter brackets are placed in position take a length of gutter and hook it inside the brackets. Then push upwards over the end of the gutter bracket. Scan QR code in 'Gutter Details' for a video tutorial.



When fitting unions, you may need to cut a notch in the fascia profile.

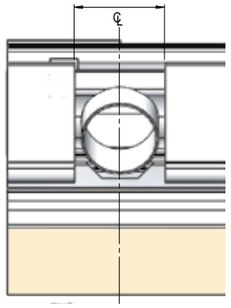


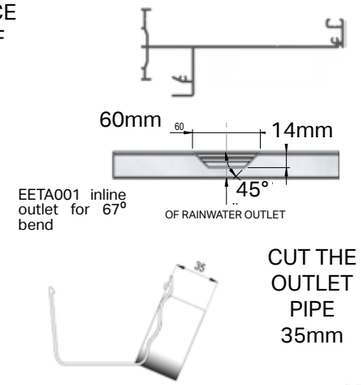
Finally, fit any inline and corner covers as required.

INSTALLATION - 2 TIER CORNICE SPECIFIC DETAILS

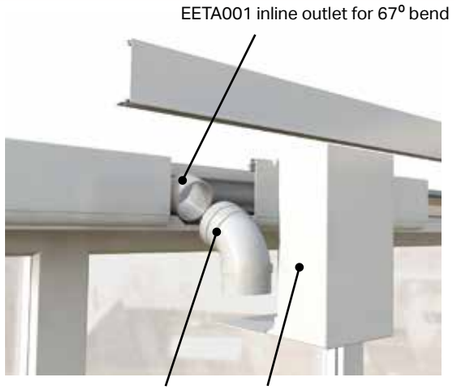
The following details are specific to 2 tier cornice on standard or extended soffit, hup! or brick/frames:

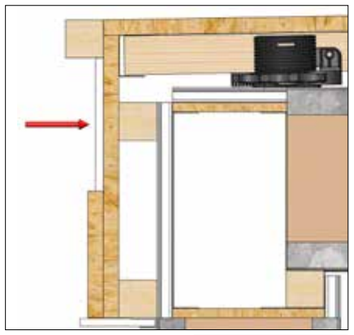
CUT THE MIDDLE CORNICE PROFILE EITHER SIDE OF THE OUTLET 80mm





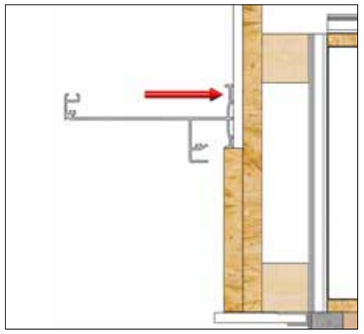
CUT THE OUTLET PIPE 35mm





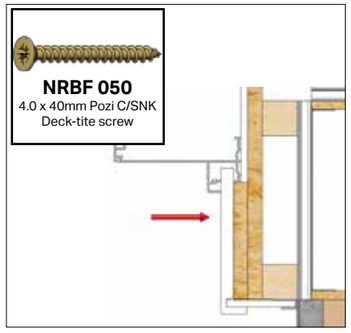
Fix soffit board back with NRBF050 4 x per length

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

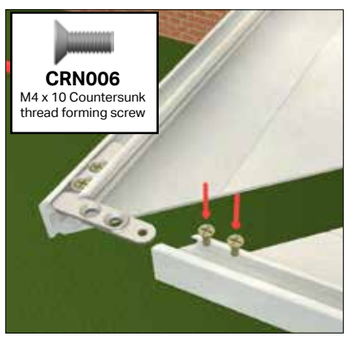


Take lower cornice profile and sit on top of OSB fascia. Fix back into the v groove using NRTF050 at 500mm centres.

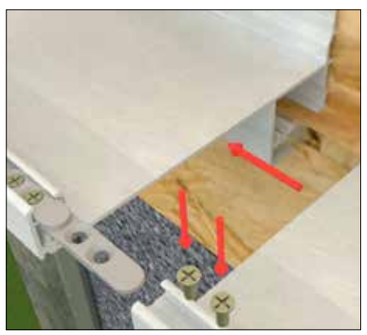
NRTF 050
4.2 x 25 Wafer head plasterboard screw



Fix fascia board back into the OSB using 4x NRBF050 screws per length. Ensure fascia is hooked under the soffit board and into the lower cornice profile. Fit any inline and corner covers where needed.

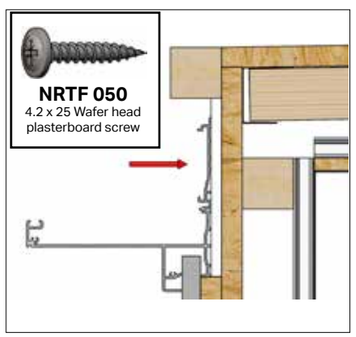


At the corners fit the cleats as shown using 4x CRN006 per corner or joint. Apply sealant and foam H section after fixing, see 'Standard fascia details'.



Inline joints in the cornice sections are also tied together with a cleat and fixed using CRN006 fixings, like corners as shown previously.

CRN006
M4 x 10 Countersunk thread forming screw

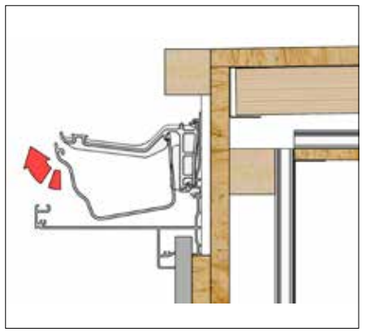


Take the gutter channel profile and sit it on top of the lower cornice profile. Fix back through the v-groove using NRTF050 at 500mm centres.

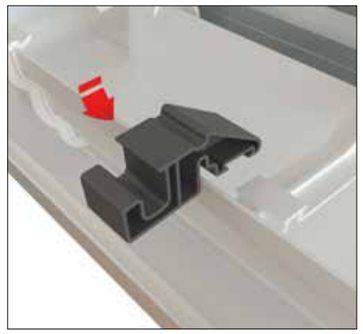
INSTALLATION - 2 TIER CORNICE SPECIFIC DETAILS



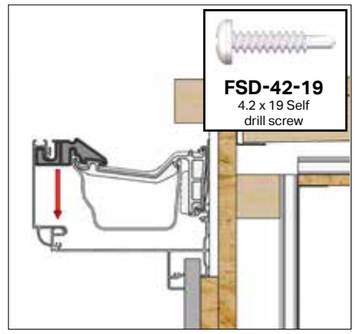
Push gutter bracket into the channel and rotate clockwise until the bracket snaps into place. Position at maximum 750mm centres and 150mm from stop ends and unions. See 'Gutter Details' for more information.



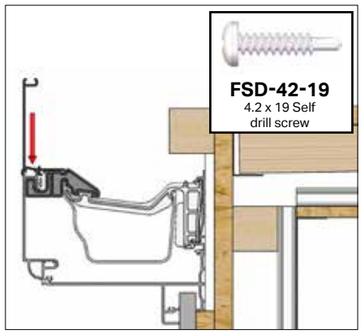
After gutter brackets are placed in position take a length of gutter and hook it inside the brackets. Then push upwards over the end of the gutter bracket. Scan QR code in 'Gutter Details' for a video tutorial.



Place the support bracket on top of the gutter and slide it along up to the gutter bracket. Then push it into the gutter bracket until they're aligned.



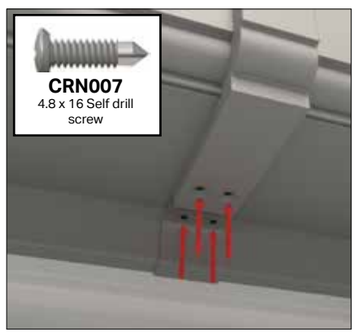
Take the middle cornice section and lower it so it hooks over the support bracket and sits on top of the lower cornice section. Fix down into lower cornice using FSD-42-19.



Take the top cornice profile (flat or curved the detail is the same) place it on top of the mid-tier and fix down into it using FSD-42-19 every 400mm.



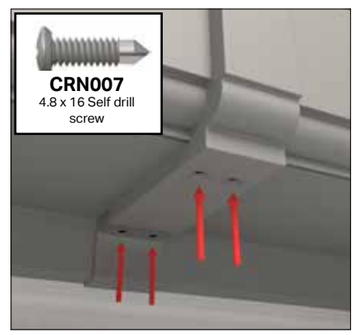
CURVED ONLY - At the inline joints, corners and at the host wall, covers will be provided to hide the jointing line. Offer up the cover, hooking it over the front lip of the cornice.



CURVED ONLY - While ensuring that the corner remains located in position, fix the first section of the cover using 2x CRN007 into the pre-drilled holes. Then fix the 2nd section into place using 2x CRN007. Inline covers shown, corner covers follow the same fixing detail.



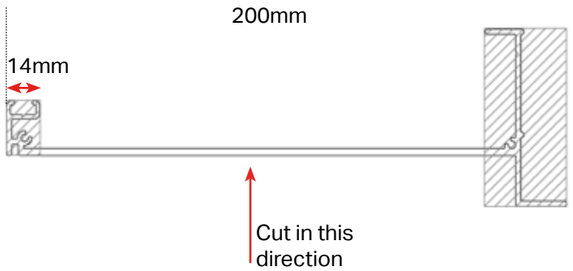
FLAT ONLY - At inline joints, corners and host walls, covers are provided. Covers are provided in 3 parts, the top part need fitting first. Place the top part of the cover into position with the wings fitting into the top of the cornice. Fix using 2x CRN007.



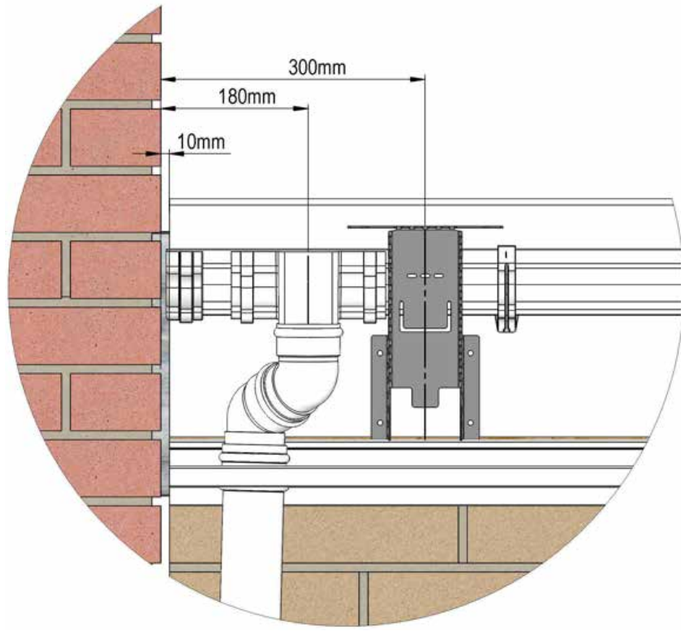
FLAT ONLY - The bottom covers can now be offered up into position and fixed into place using 2x CRN007 per part into the pre-drilled holes. Inline covers shown, corner covers follow the same fixing detail.

INSTALLATION - 4 TIER CORNICE SPECIFIC DETAILS

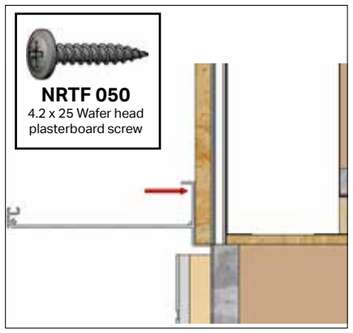




Before installing the cornice, consider the position of the gutter outlet and downpipe required. The cut out for the downpipe will need to be done first in the bottom section of the cornice and needs to be between 14mm and 200mm from the side shown above. A 68mm hole saw should be used and cut from the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



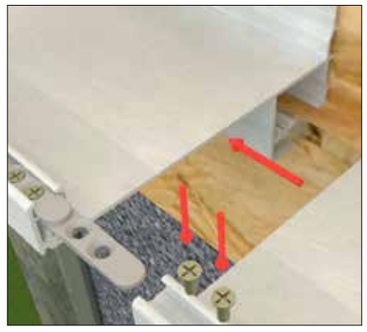
We recommend the layout to the left, however this will depend on the configuration on site. The obtuse bends will give some flexibility on the position of the downpipe.



Place the lower cornice section so the lower leg sits level with the bottom of the beam. Pre-drill 5mm holes and secure at 500mm centres using NRTF050 Fixings.

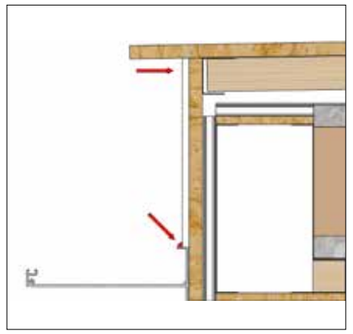


At the corners fit the cleats as shown using 4x CRN006 per corner or joint. Apply sealant and foam H section after fixing, see 'Standard fascia details'.



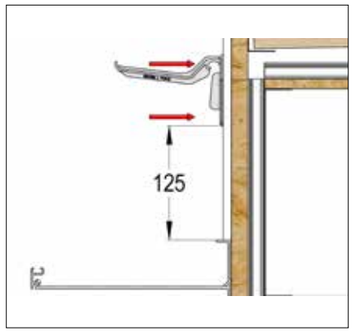
Inline joints in the cornice sections are also tied together with a cleat and fixed using CRN006 fixings, like corners as shown previously.

INSTALLATION - 4 TIER CORNICE SPECIFIC DETAILS



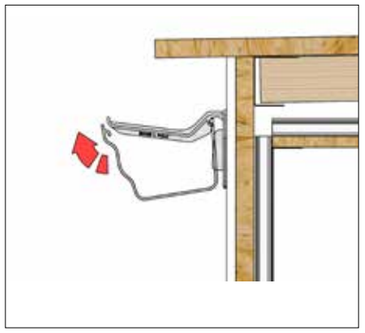
Fix soffit board back into the OSB using 4x NRBF050 per length. Fix at the top to hide the fixings. Once fixed apply silicone at the bottom of the board where it meets the lower cornice profile.



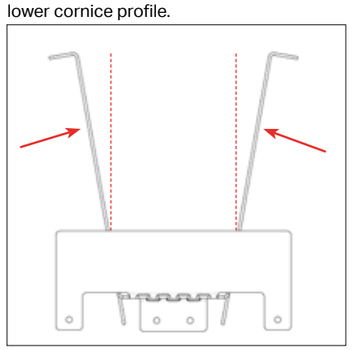


Offset gutter bracket 125mm from the top face of the lower cornice profile. Fix the gutter bracket back to the soffit board with 3x NRBF050 fixings.

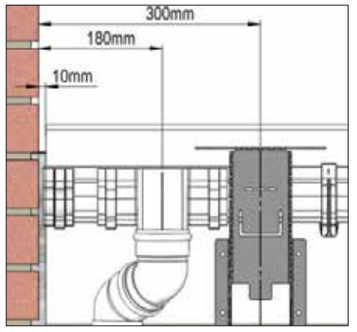




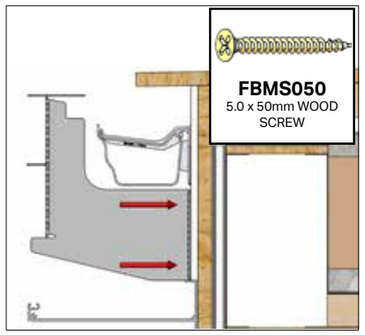
Once all brackets are fitted at the 125mm offset the gutter can be fitted. Hook the gutter inside the brackets, then push upwards over the end of the gutter bracket. Scan QR code in 'Gutter Details' for a video tutorial.



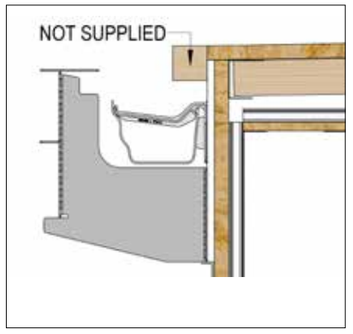
Next, fit the aluminium cornice support brackets. There are 2 types, standard and deep which will depend on your beams. They come under bent and need adjusting to 90° before fitting so they sit correctly.



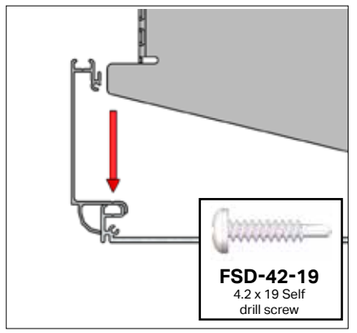
Where there is an outlet next to the host wall the first fin will need to be offset to give enough room. Our recommendation is 300mm away to the centre, this may change depending on your situation however.



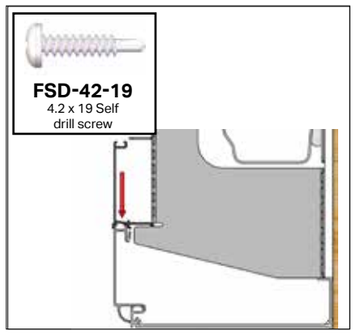
Support brackets will sit on the ledge of the base cornice and are specified at 600mm centres ensuring that there are supports as close to the corners as possible. Fix back to the soffit board using the predrilled holes, 4x FBMS050 for standard brackets and 6x FBMS050 for deep ones.



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

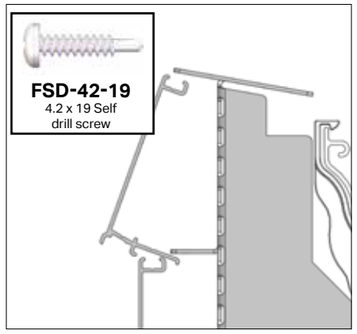


The first vertical tier can now be fitted, sit the profile on the lower cornice profile and fix down into the v-groove using 1x FSD-42-19 at 400mm centres. For inline joints join with cleats as done previously.

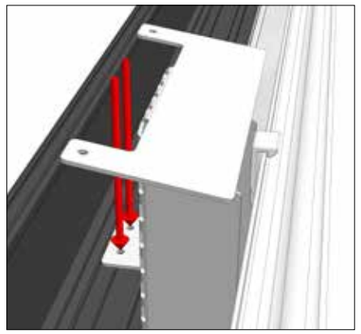


The second tier sits on top of the first tier and is fixed down into the first tier along the v- groove using 1x FSD-42-19 at 400mm centres. Cleat inline joints as done on the first tier. For inline joints join with cleats as done previously.

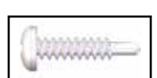
INSTALLATION - 4 TIER CORNICE SPECIFIC DETAILS

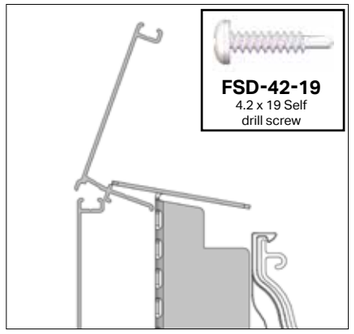


To fit the third tier, push the leg of the profile under the cornice support bracket and then sit it on top of the second tier. Fix along the v- groove as down previously with 1x FSD-42-19 at 400mm centres. For inline joints join with cleats as done previously.

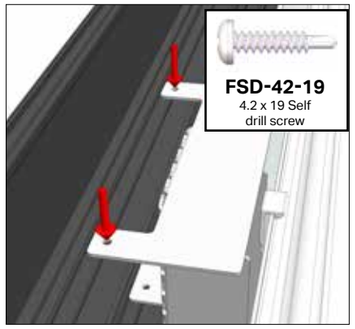


This tier of the cornice will also be fixed to the aluminium cornice support bracket through the pre- drilled holes in the bracket. Fix using 2x FSD-42-19 per bracket.

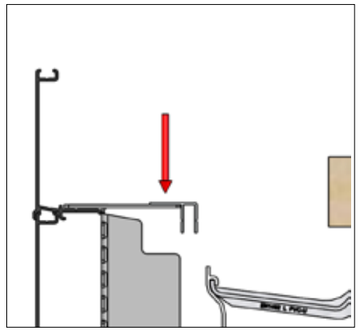




On the final tier slot the leg of the profile under the cornice bracket and sit it on top of the third tier. Fix down along the v-groove at 400mm centres witH FSD-42-19. For inline joints join with cleats as done previously.



After the final tier has been fitted bend the top flange on the cornice bracket so it sits on the leg of the 4th tier profile. Fix down through the pre-drilled holes using 2x FSD-42-19 per bracket.

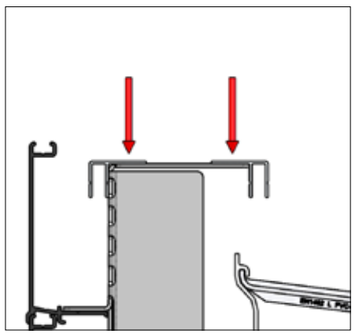


On Standard beams place the F section on top of the cornice support bracket and fix down using 2x FSD-42-19 per bracket.





On standard beams run one F section through and butt an opposing one on a corner up to it.



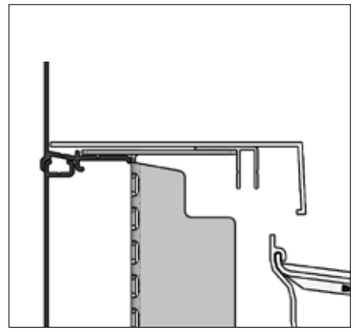
On deep beams there are 2 F sections fitted per elevation. Place the F sections as above on top of the support brackets and fit using 2x FSD-42-19 fixings per F section per support bracket.

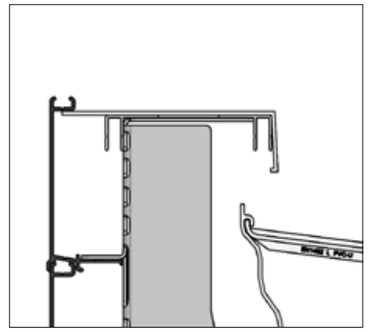




On deep beams run one F section through and butt an opposing one on a corner up to it.

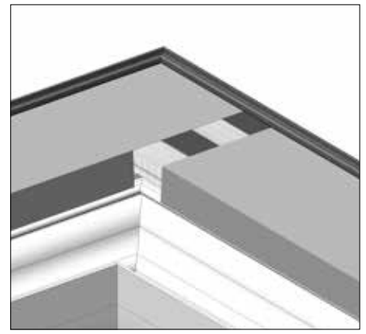
INSTALLATION - 4 TIER CORNICE SPECIFIC DETAILS





Position your angled plastic section in place, see above left for standard beam placement and above right for deep beam placement. Fix using 1x FSD-42-19 through the F sections at 600mm centres.

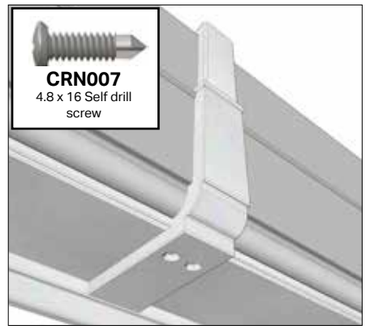




For the corner detail, run one section through and butt the other up next to it, notching out the lip where needed.



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 CRN007 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 CRN007 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 CRN007 into the pre-drilled holes. Inline covers shown, corner covers follow the same fixing detail

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