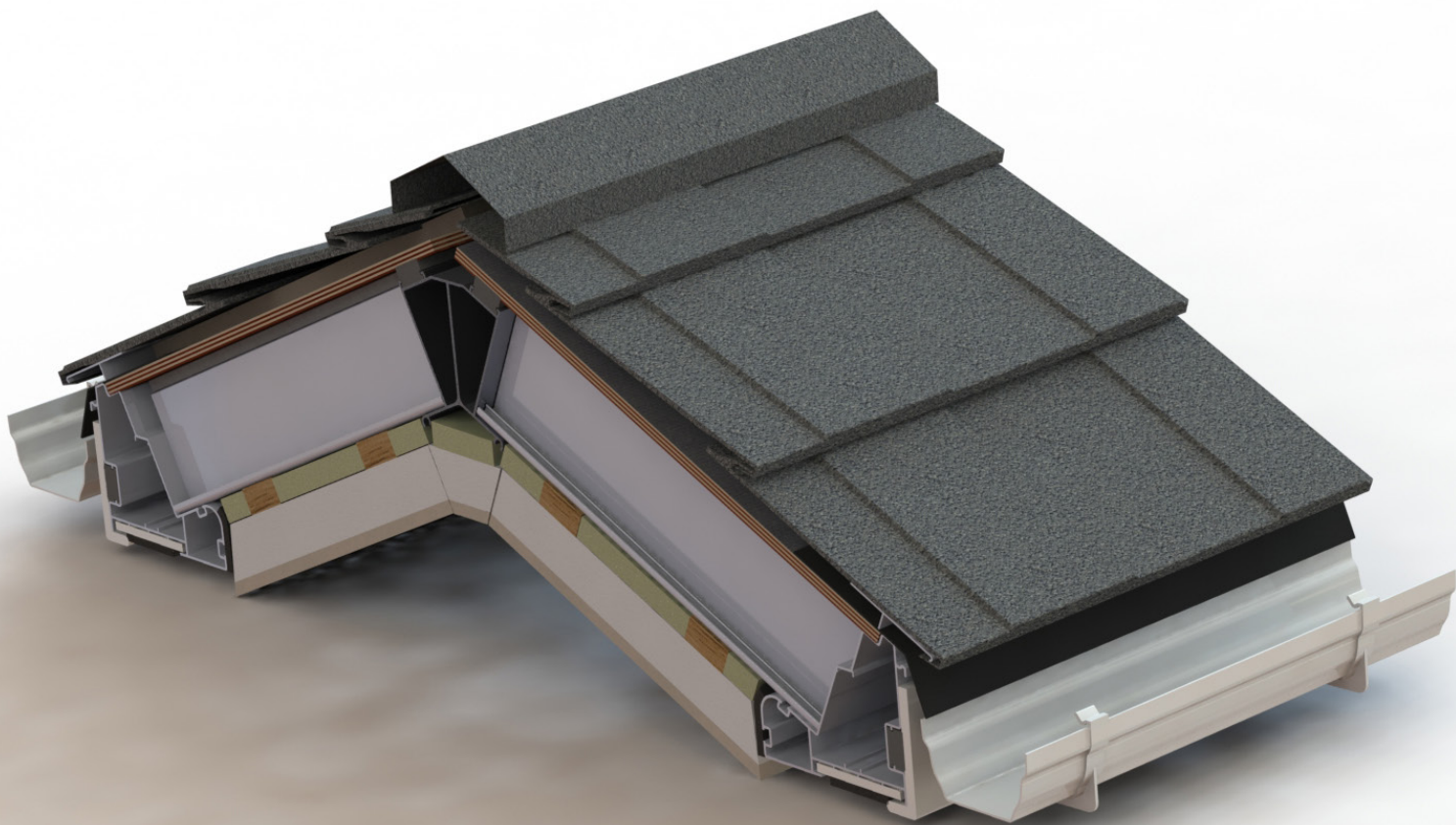




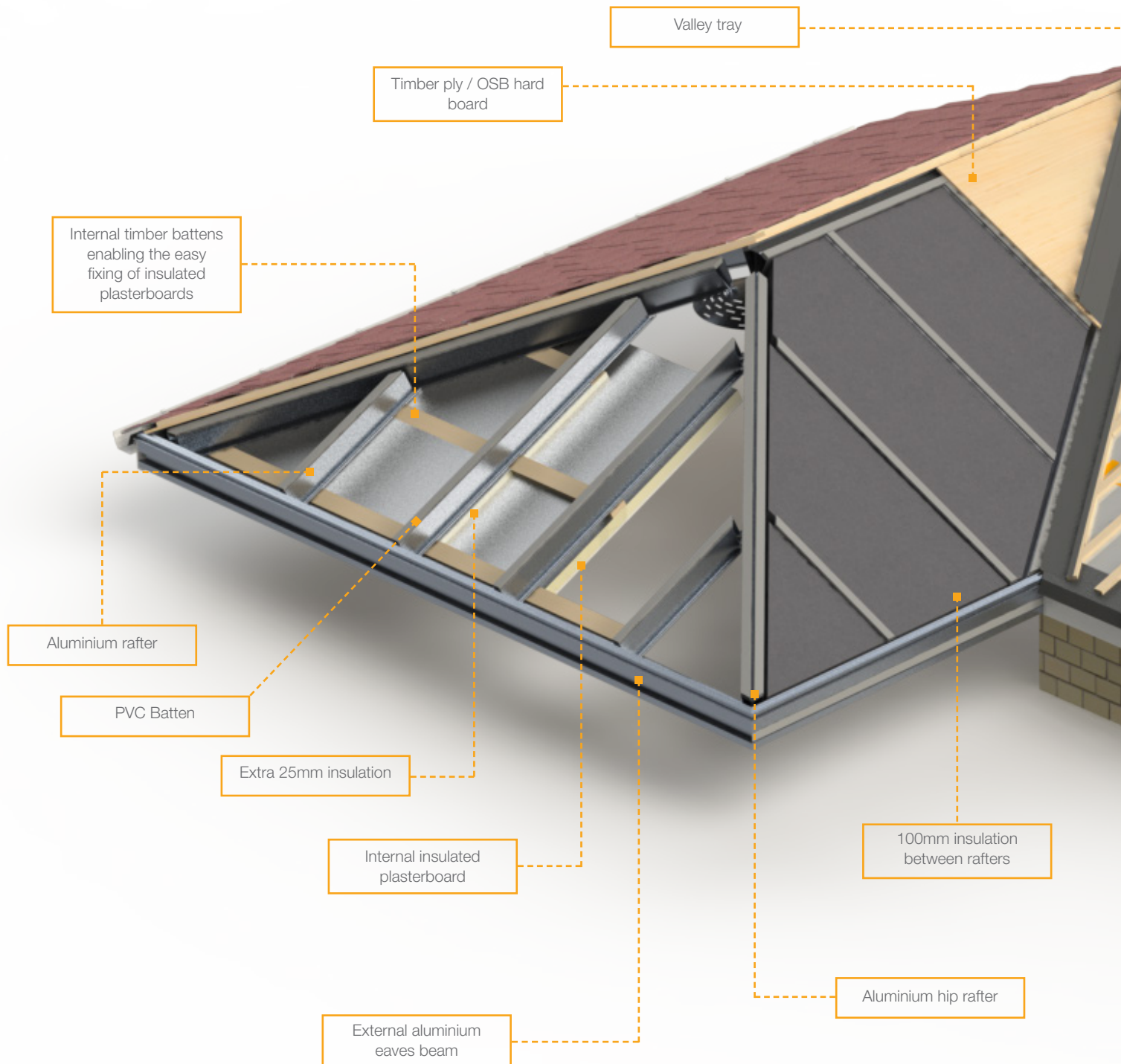
INSTALLATION GUIDE

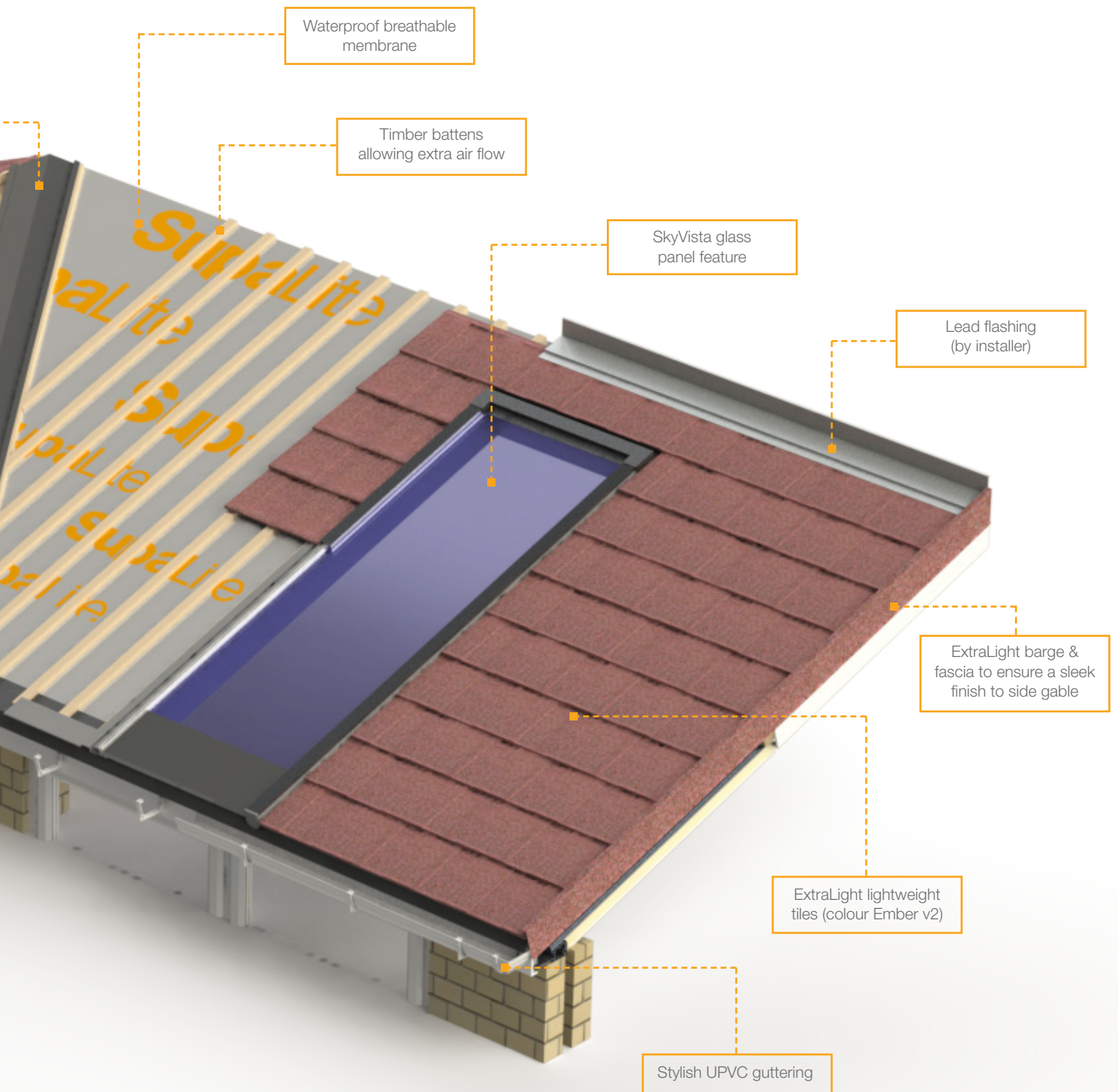
2024




SupaLite
TILED ROOF SYSTEM

FULL ROOF BREAKDOWN





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- FULL MANUFACTURE PACK
- INSTALL GUIDE

Components List:

Supalite Fixing Kit (1 supplied per 16sqm)

3.5 x 32 Drywall Screws: Used for fixing the tiles and ridges.

4.2 x 90 Drywall Screws: These are for insulated plaster boarding.

25mm polypins: Used for fixing fascia boards.

122mm Masonry fixings: These secure the box gutter and wall rafters to the wall.

Baypole Screws: These are for fixing the eaves beam to the frames.

5.5 X 50 Self-drill CSK Screws: Used to fix the internal battens to the rafters

Roof fixings

M6 Bolts & Nuts

M8 Bolts & Nuts

Fascia

120mm Fascia board

105mm Soffit board

Fascia Corners (90 / 135)*

Straight Joints*

Box Gutter Under Cladding*

SkyVista*

Cassette – complete with Internal rafter, Intermediate rafter, Gasket, Eaves Beam Foam.

PVC End Profile

Glazing Bar End Cap

Top Cap

Top Soaker

Glass Soaker

BG1 tape

***Only if required for design of roof**

Tile Components

Extralight-

Tiles

Ridges / Hips*

End Cap (90/135)*

Top Cap (3 way / 5 way / Universal)*

Barges / Barge Soakers*

Valley Tray*

Tile Starter Cleat

Tapco-

Tiles

Ridges

Eaves Trays

Wall Soakers*

Gutter

4m/6m Lengths (4m only in Anthracite Grey)

Brackets

Union*

Stop End*

Corners (90/135 or custom weld)*

2.4m Downpipe

Downpipe Clips

112 offset bends

Downpipe Shoe

Box Gutter Adapters*

T Welds (special order only)

Miscellaneous

100mm EPS/PIR Insulation

25mm PIR Insulation

11mm Board

Membrane

Roof Vents* (see separate install guide)

Tile Battens

Plasterboard Battens

Over Fascia Vents

Supalite recommend the use of a suitable scaffolding tower and working platforms to prevent risk of injury.

Tools Required:

Cordless Drill

Tape Measure

Angle Grinder

Pencil

Hand Saw

Acro Prop

Roofing Stapler

Utility Knife

Hammer

Spirit Level

Tin Snips

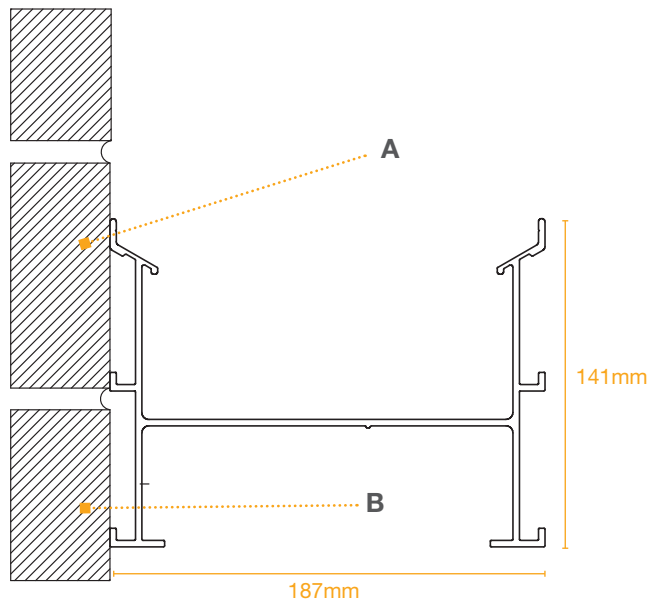
Wrench

Glazing Shovel

Please note: The above tools are only advisable; It is the responsibility of the installer to ensure the correct safety equipment is used on site. Additional tools may be used.

BOX GUTTER TO THE WALL FIXING

*If not installing a box gutter please go to page 10 to begin installation.

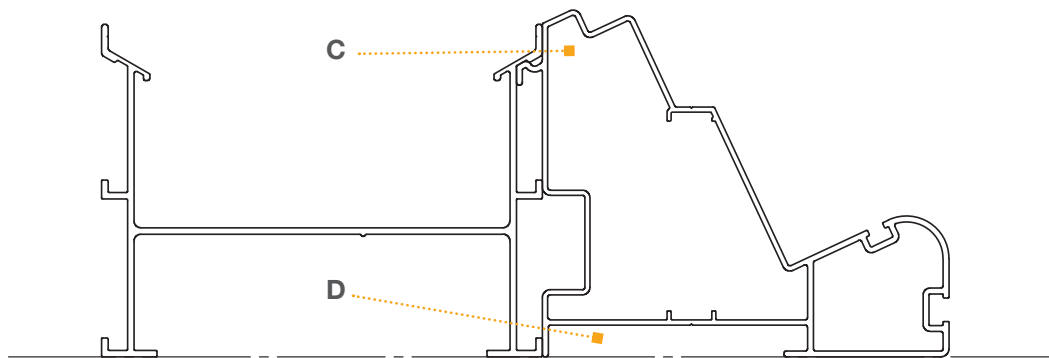


To secure the box gutter to the wall use a minimum of a 120mm Masonry fixings. Max 1000mm centers.

IMPORTANT: Fix box gutter in the designated point to the wall. (A & B)

The bottom section of the box gutter (B) comes with insulation pre-installed.

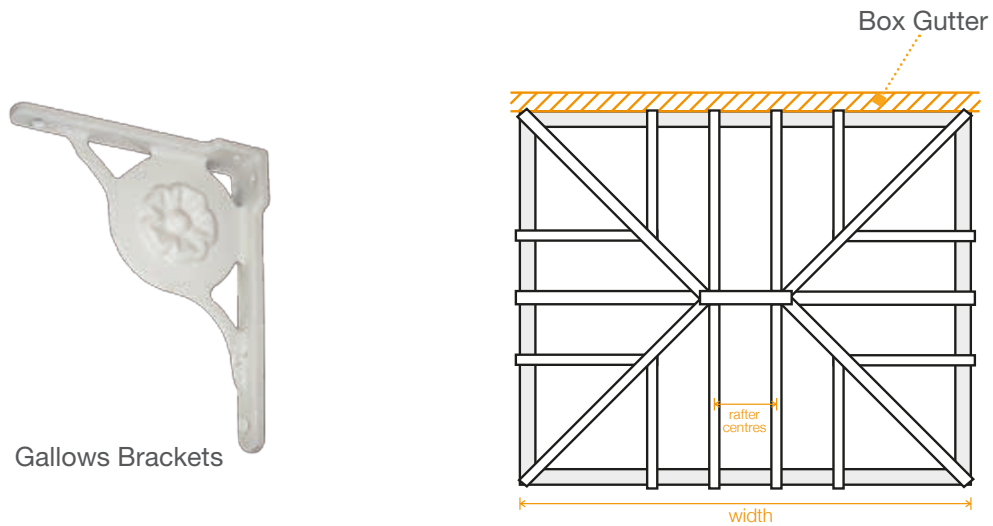
EAVES TO BOX GUTTER FIXING



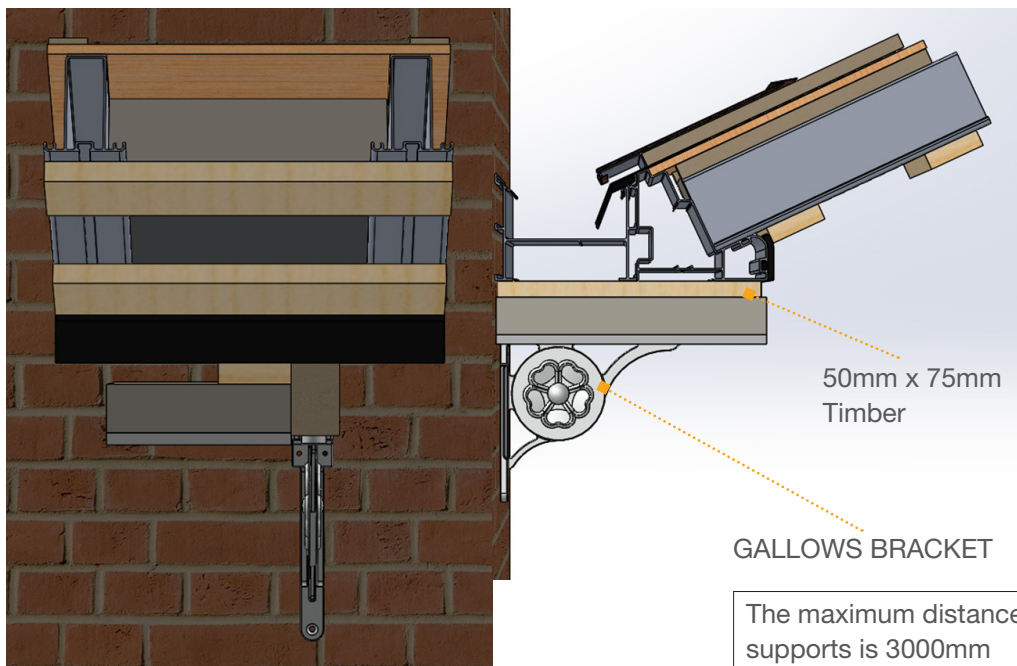
Position eaves beam to be parallel with the underside of the box gutter.
Fixing points are C & D (Aluminium 35mm self tapping screw) fix every 200mm.

It is important that insulated plasterboards are installed underneath the box gutter and eaves beam. In certain circumstances the insulated boards can be replaced with a closed cell 10mm foam.

GALLOWS BRACKETS / BOX GUTTER SUPPORTS



All box gutters with a length exceeding 3000mm require support from either a gallow's bracket or by means of a supporting brick pier / wall

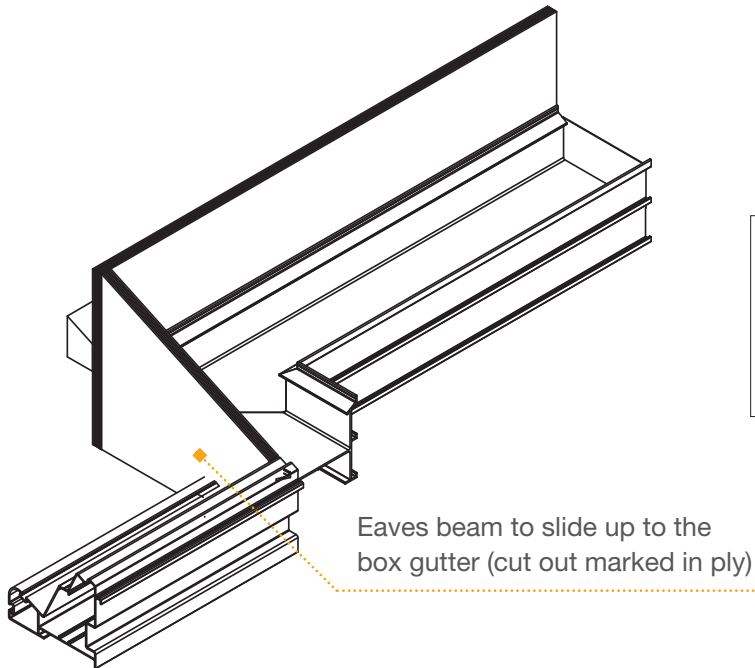
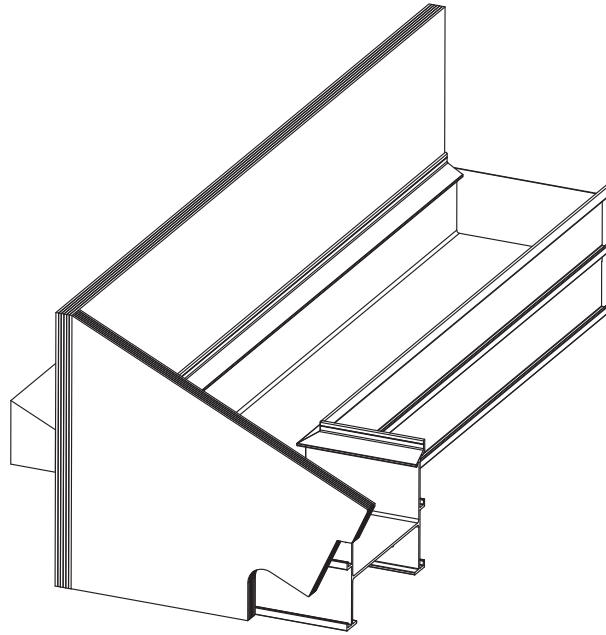


(Gallows brackets are supplied as part of the SupaLite roof kit and if these are not installed an alternative form of support must be used)

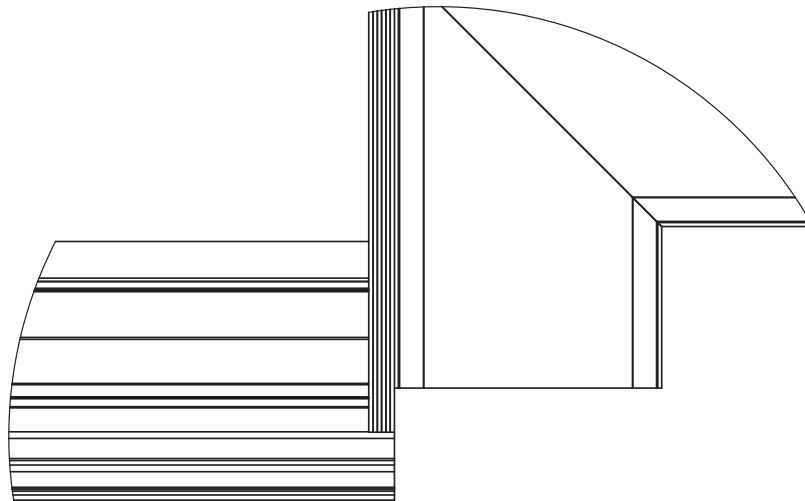
HIGH RISE BOX GUTTER

The high rise is constructed from the SupaLite box gutter profile.

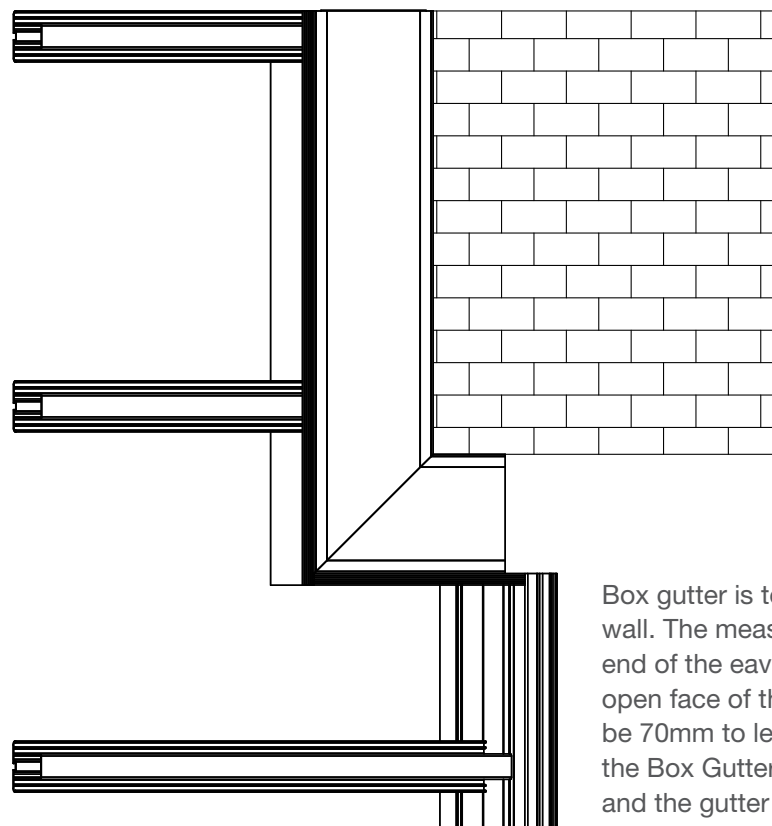
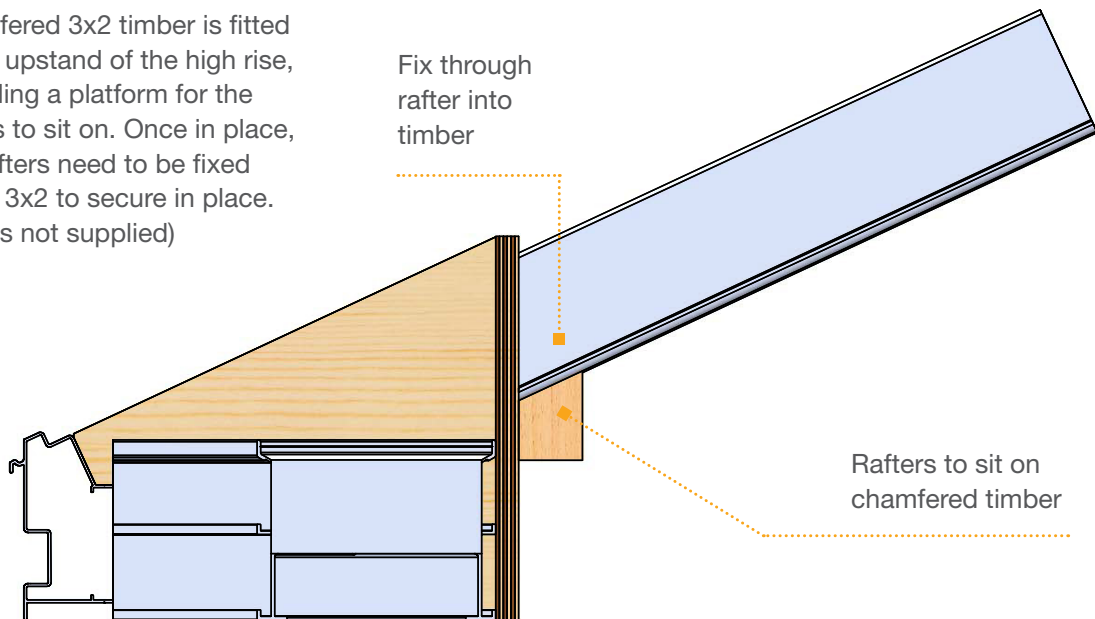
18mm ply is fixed to the side of the box gutter to create an upstand, which is sealed using smooth lead replacement.



The maximum unsupported distance of a high rise box gutter is 3000mm. For distances over this, a gallows brack will be required.

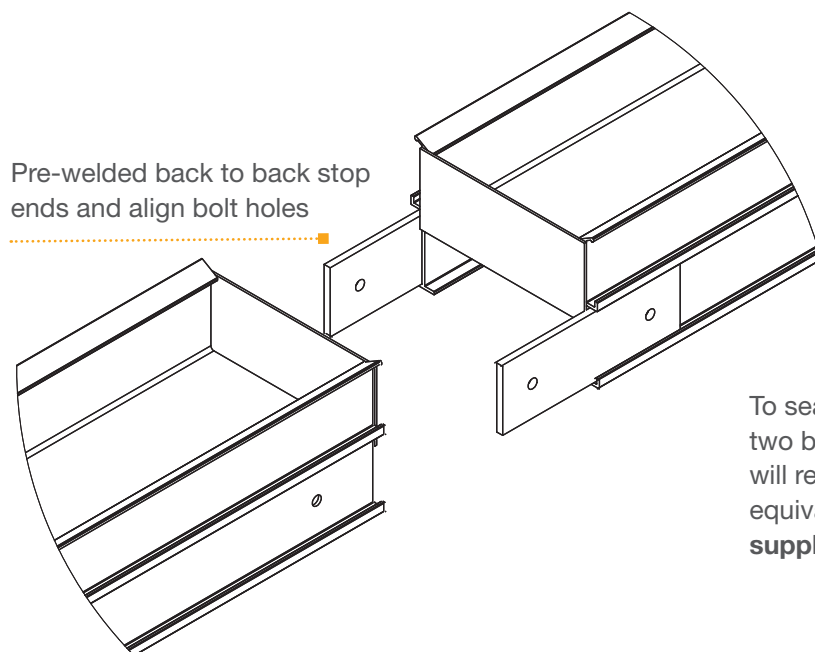


Chamfered 3x2 timber is fitted to the upstand of the high rise, providing a platform for the rafters to sit on. Once in place, the rafters need to be fixed to the 3x2 to secure in place. (fixings not supplied)



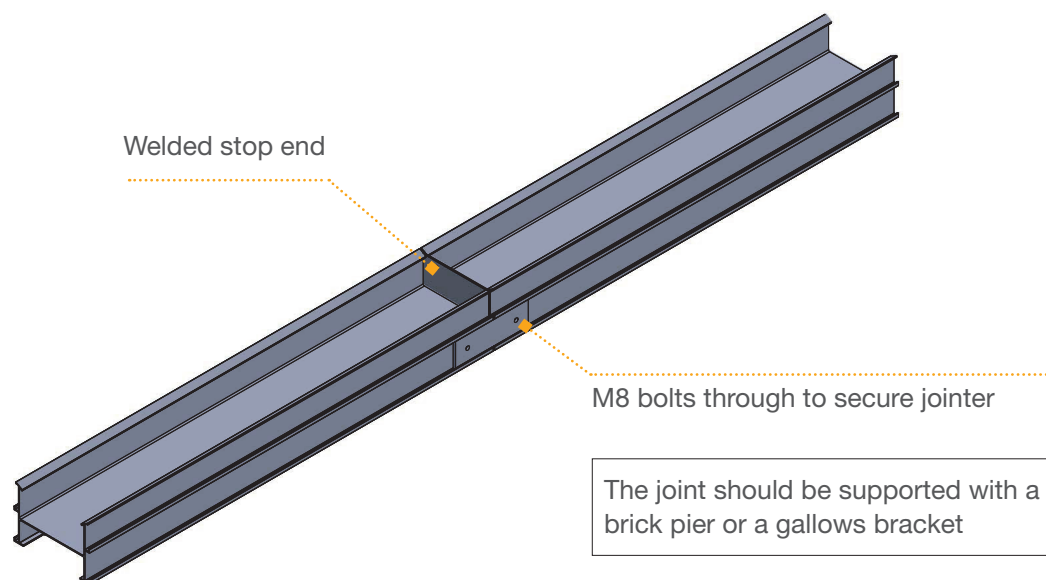
Box gutter is to wrap around the wall. The measurement from the end of the eaves beam to the open face of the box gutter will be 70mm to leave allowance for the Box Gutter Adapter (BGA) and the gutter angle.

BACK TO BACK BOX GUTTER



Pre-welded back to back stop ends and align bolt holes

To seal the gap between the two box gutter sections, you will require lead replacement or equivalent to seal the join. **(Not supplied as part of the kit roof.)**



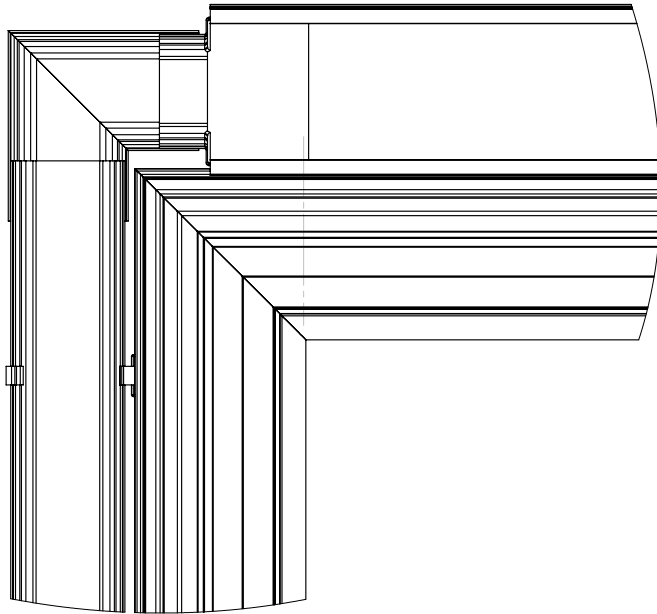
Welded stop end

M8 bolts through to secure jointer

The joint should be supported with a brick pier or a gallows bracket

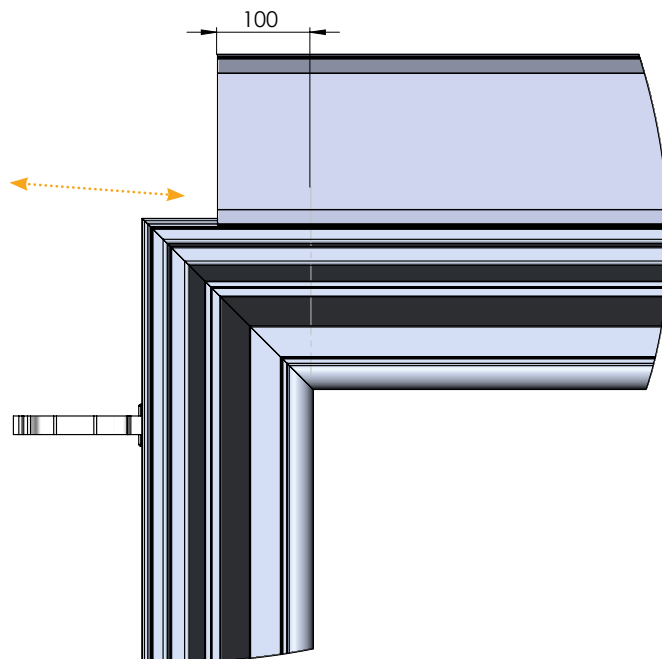
BOX GUTTER ORIENTATION

Box Gutter Adapter (BGA) slides into the box gutter.
The 90° gutter angle links the BGA to the standard gutter.

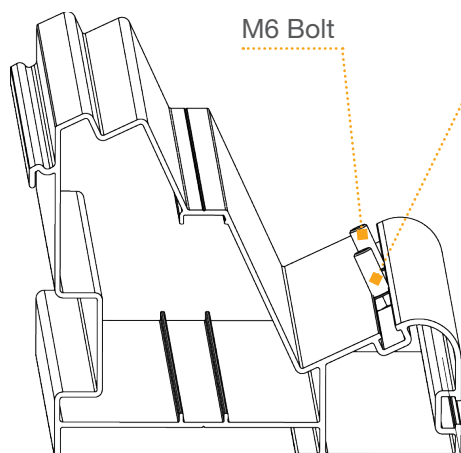


Prior to connecting the BGA to the box gutter, ensure the box gutter has been prepped with silicone under where the adapter will sit. Seal the BGA using the 300mm of sealing tape provided. Fascia under cladding is provided to cover the face of the BGA and box gutter. This is supplied in the same colour as fascia on order.

Box gutter is to be 100mm larger than internal eaves beam which is set back 70mm from external eaves beam to allow BGA to work.



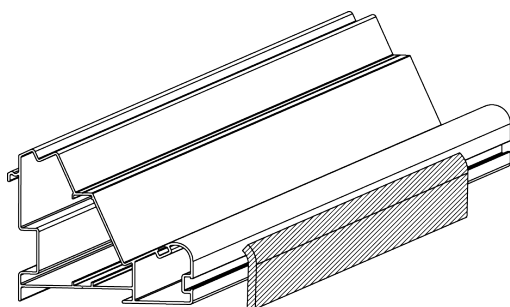
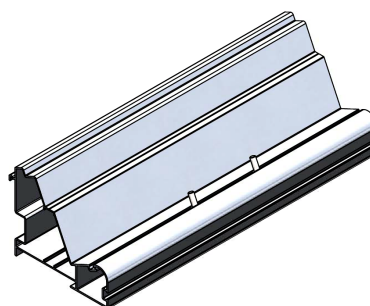
PREPPING OF EAVES BEAM



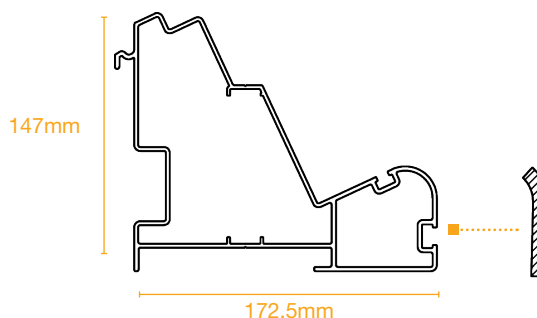
M6 Bolt

Slide M6 bolt into the slot in the eaves beam prior to fixing to the frames

2 bolts per intermediate rafter and one per wall rafter and 1 for the hip



Eaves beam foam is a self adhesive foam that is to be attached to the inner face of the eaves beam. This creates a thermal break so the insulated board is not directly in contact with the eaves beam.



Fascia Board

19mm Batten
Fitted By SupaLite

Soffit Board

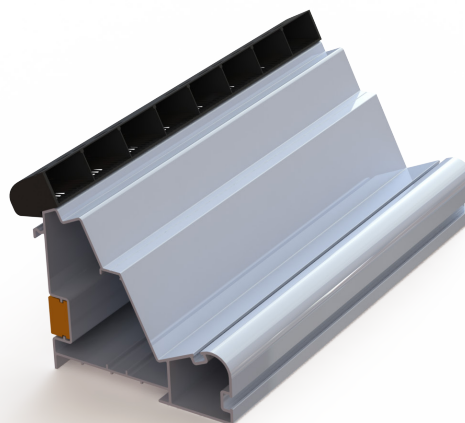
Eaves Beam Foam

Prep eaves beam with the above prior to installation

OVER FASCIA VENTS

10mm vents are supplied on all roofs 15 degrees and under to fill the void between the elevated OSB and the eaves beam.

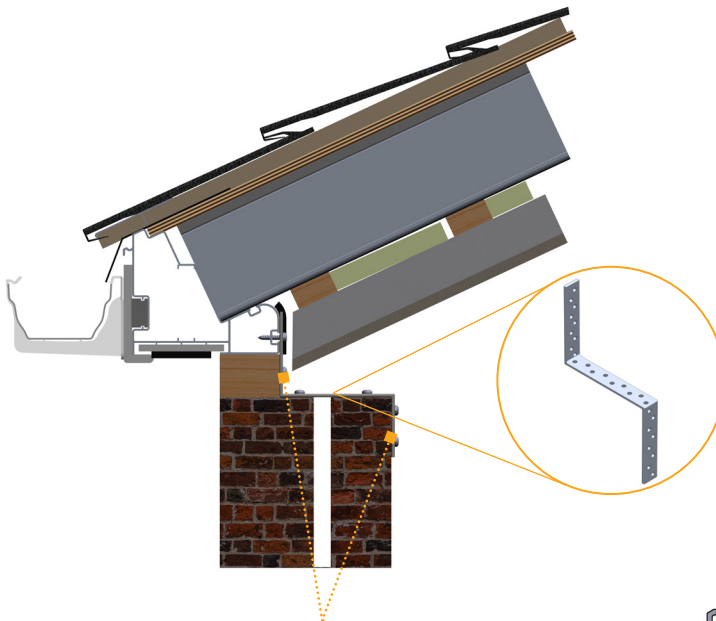
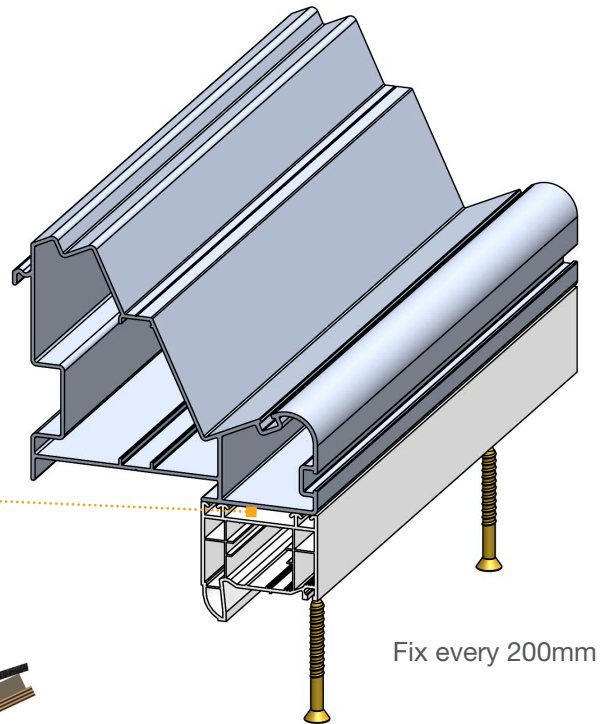
25mm Vents are supplied on all Scottish spec roofs due to the larger batten.



EAVES BEAM FIXING

When setting the eaves beam, ensure that the internal face of the eaves beam aligns with the internal face of the frames.

Prior to fitting your eaves beam to the frame, SupaLite recommend a silicone sealant to be applied to top of the frames

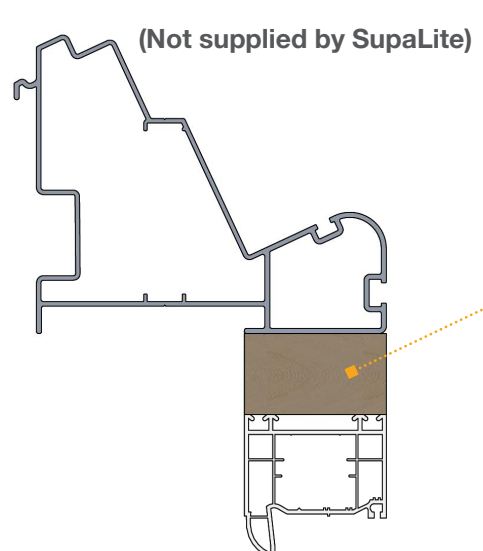


An add on/frame extension or timber packer with external cladding is advised for above the frames prior to fitting the eaves beam, size dependent on frames or brickwork. The depth of the plasterboards can cause them to impede on the frames internally if this is not installed.

Strap Placement: Ensure that the straps are evenly spaced and aligned with the structural supports behind the brickwork to provide adequate anchorage.

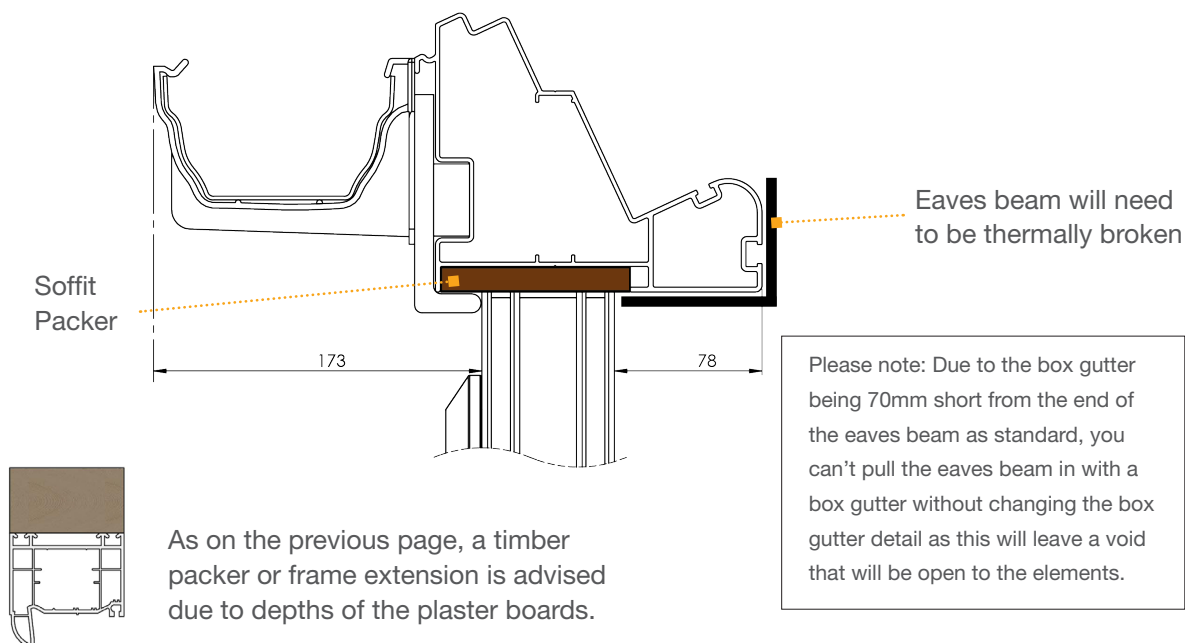
Fixing Method: Use the appropriate fixings to secure the straps to the wall. The type of fixing will depend on the wall construction and the loads involved.

Sealing and Finishing: After the eaves are attached, make sure all connections are sealed against weather ingress and finished according to the aesthetic requirements of the project.



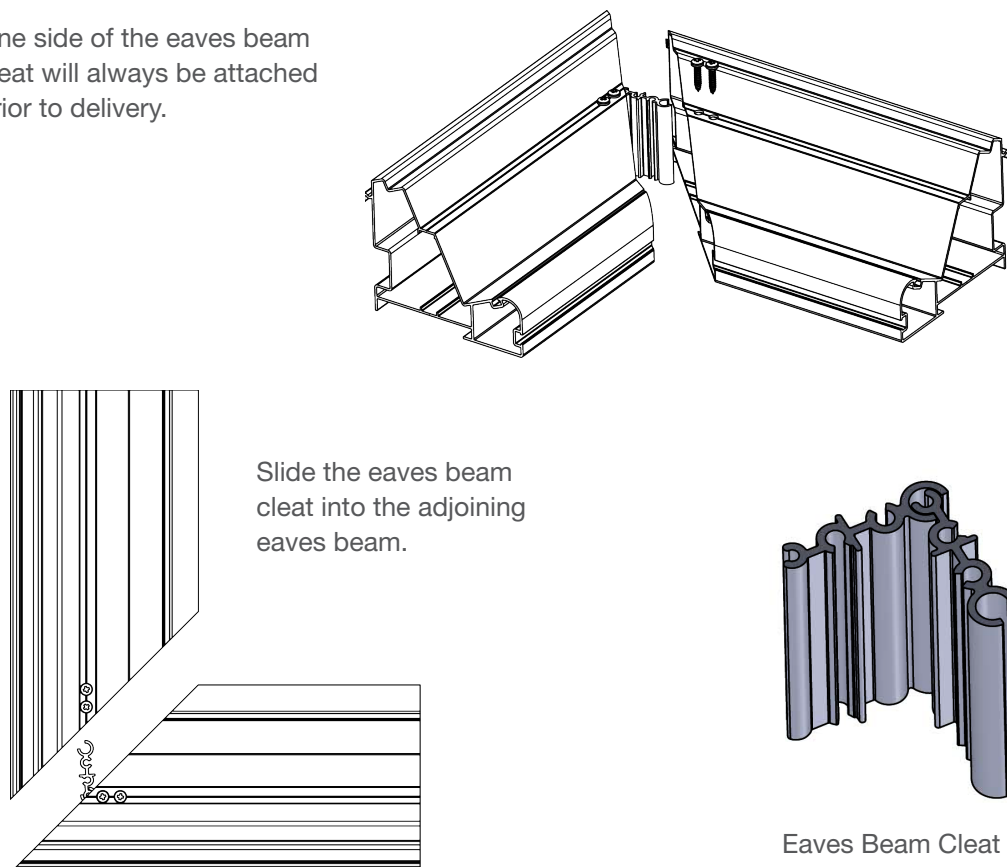
PULLED IN EAVES BEAM

Eaves beam pulled in by 78mm so the overhang is minimised to just the fascia. When doing this detail, you will need to apply a packer on top of the frames.

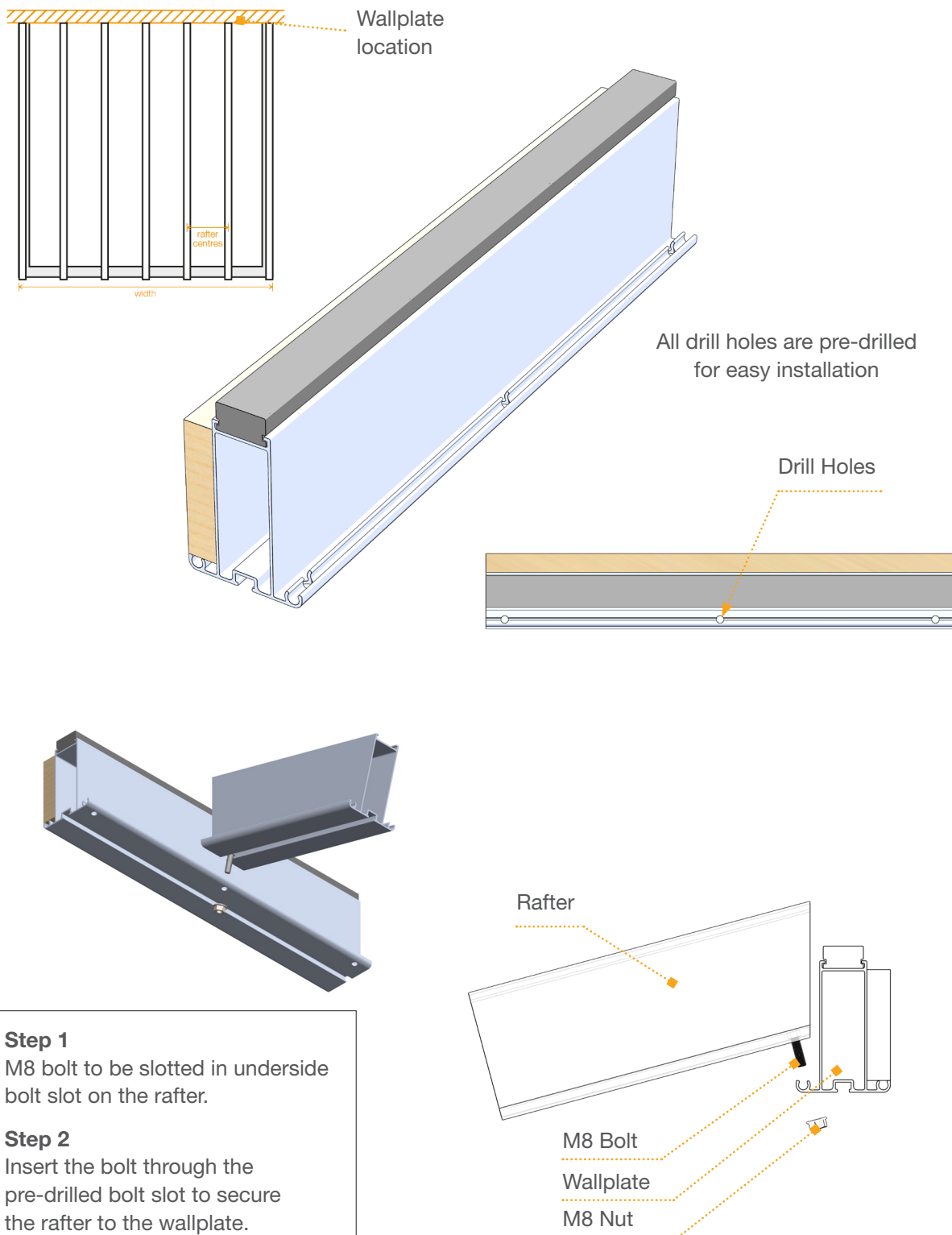


EAVES BEAM FIXING CLEAT

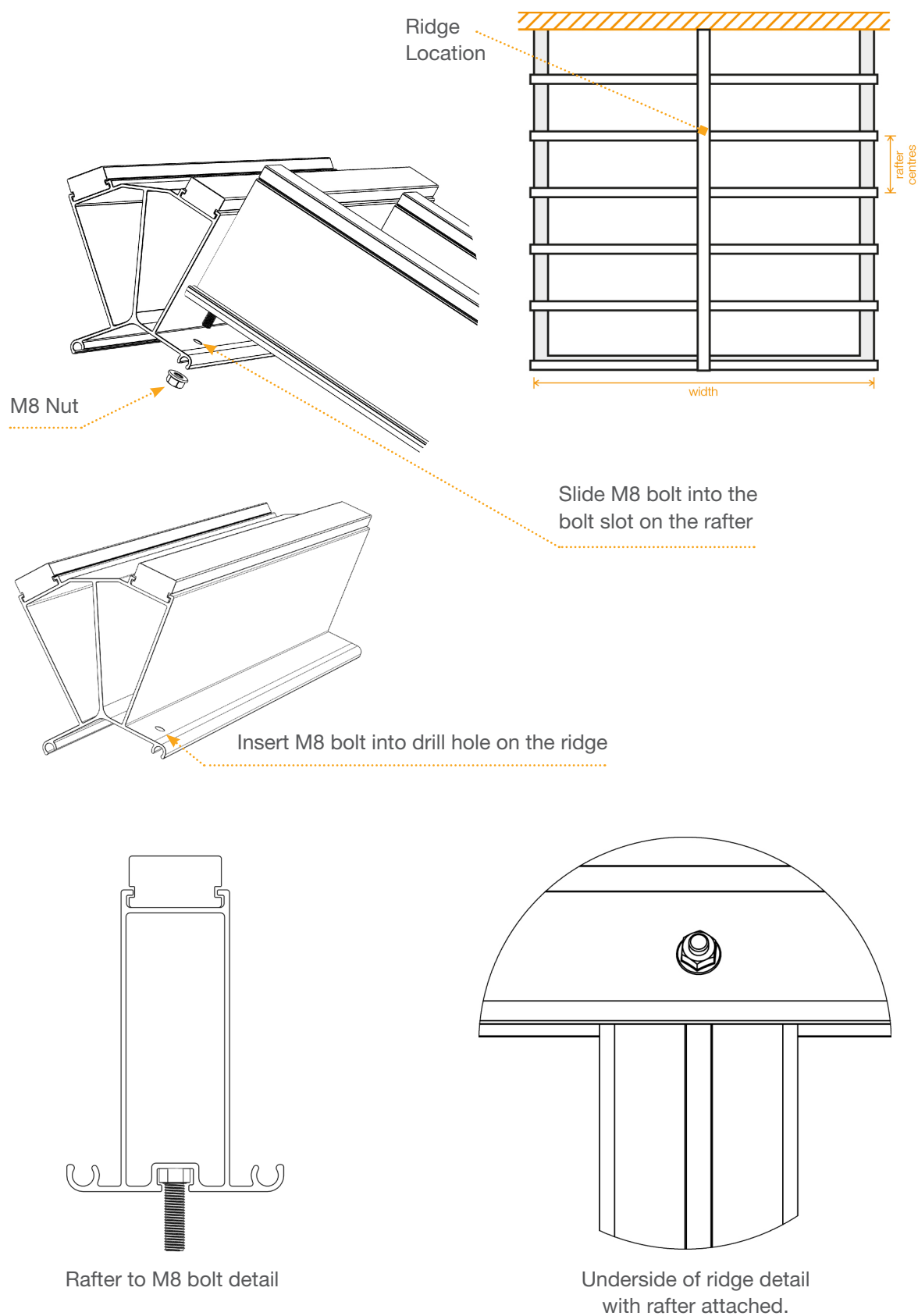
One side of the eaves beam cleat will always be attached prior to delivery.



ATTACHING RAFTERS TO WALLPLATE

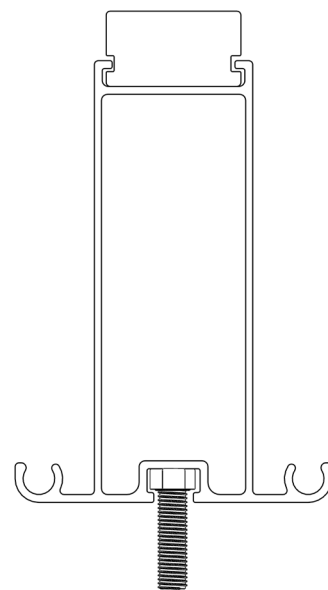
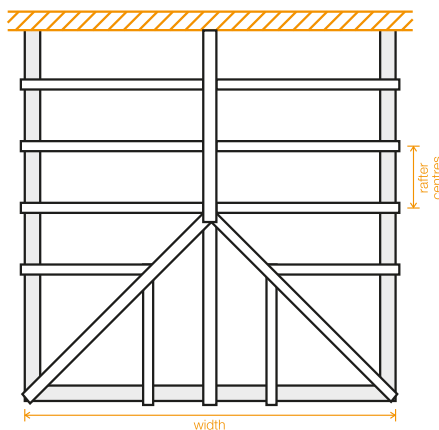
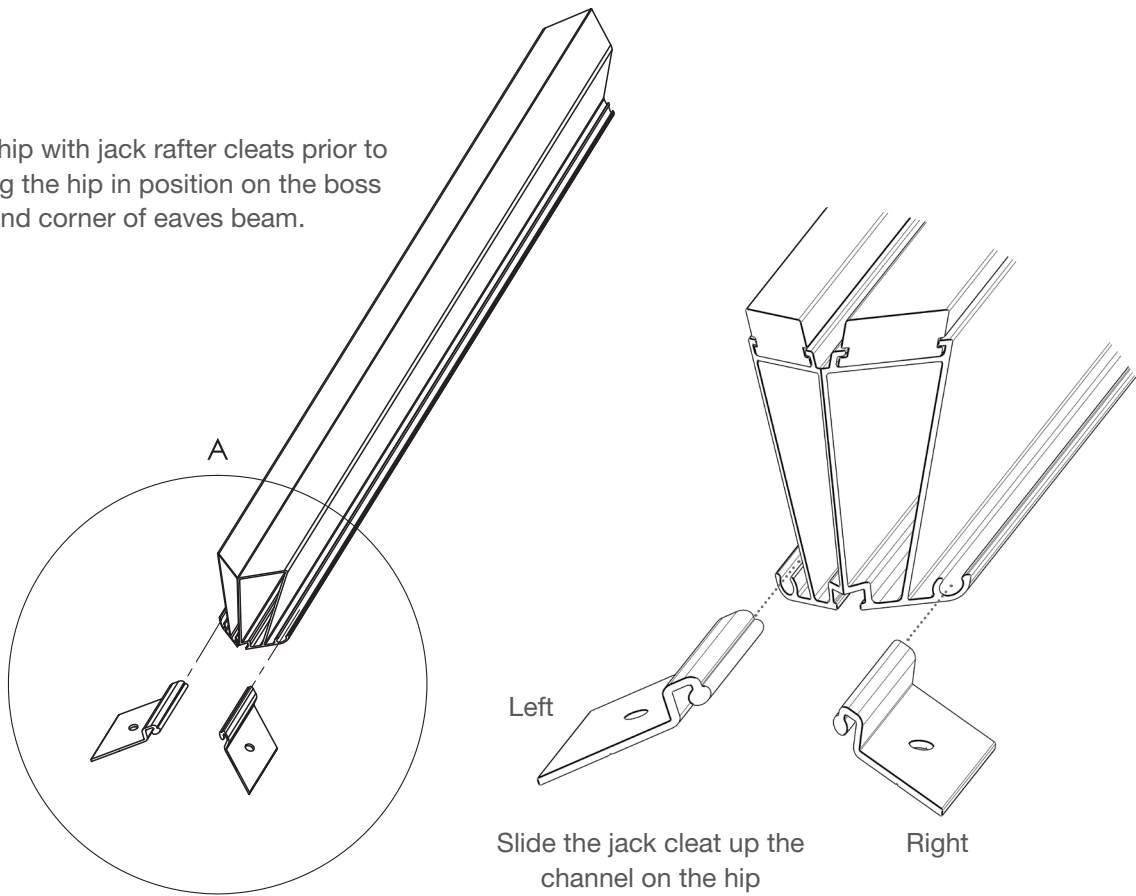


ATTACHING RAFTER TO RIDGE DETAIL



JACK RAFTERS TO HIP DETAIL

Prep hip with jack rafter cleats prior to setting the hip in position on the boss end and corner of eaves beam.

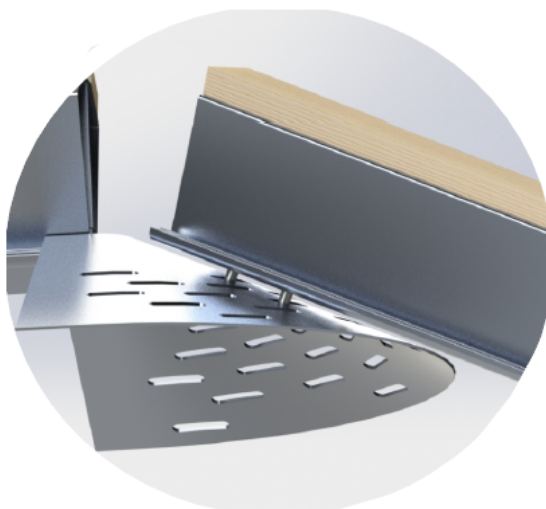


Slide an M8 bolt down the channel

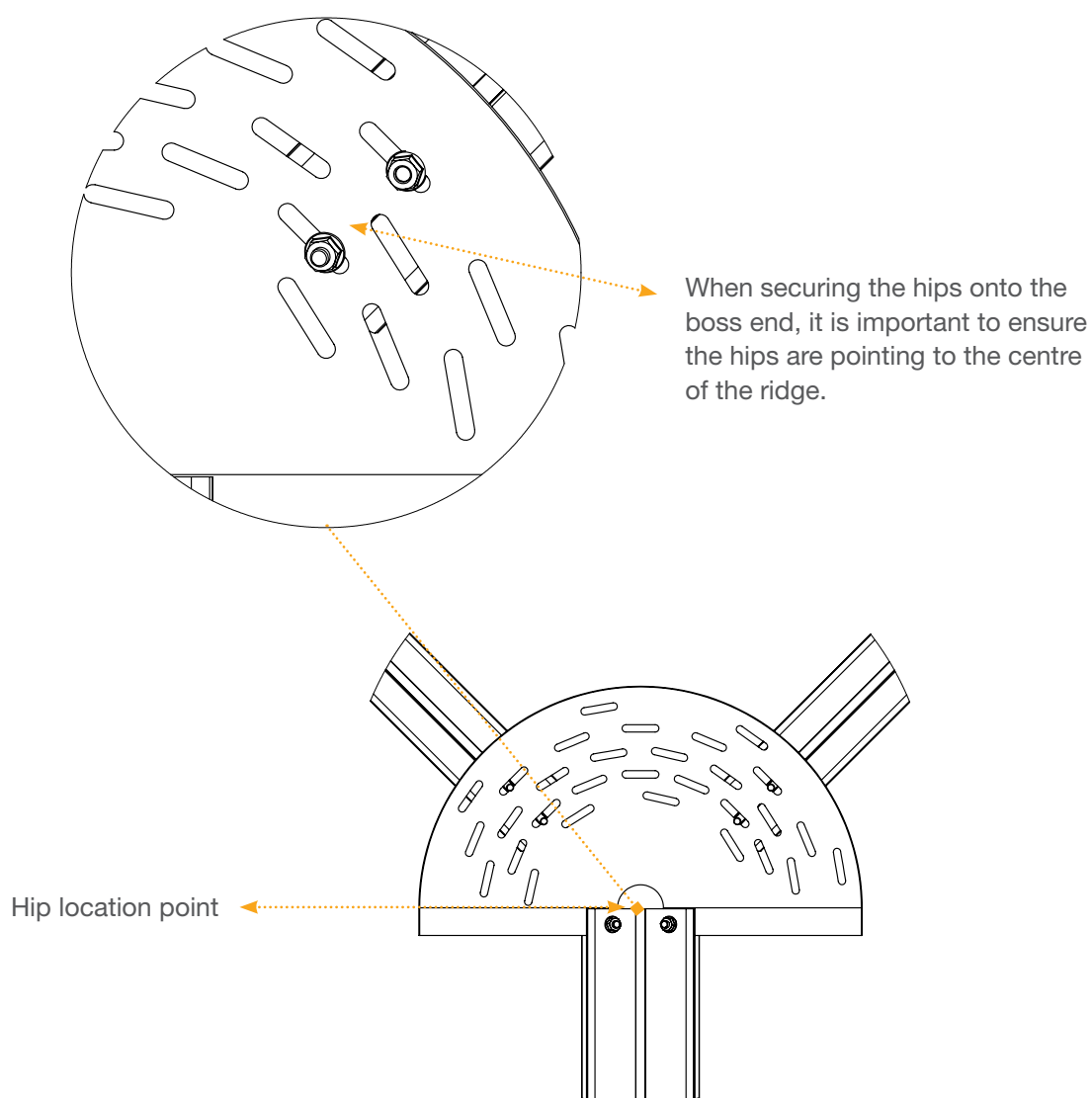
ATTACHING HIPs TO RIDGE BOSS END

Prior to fixing the hips an M8 fixing bolt will need to be inserted into the channel on the underside of the hip.

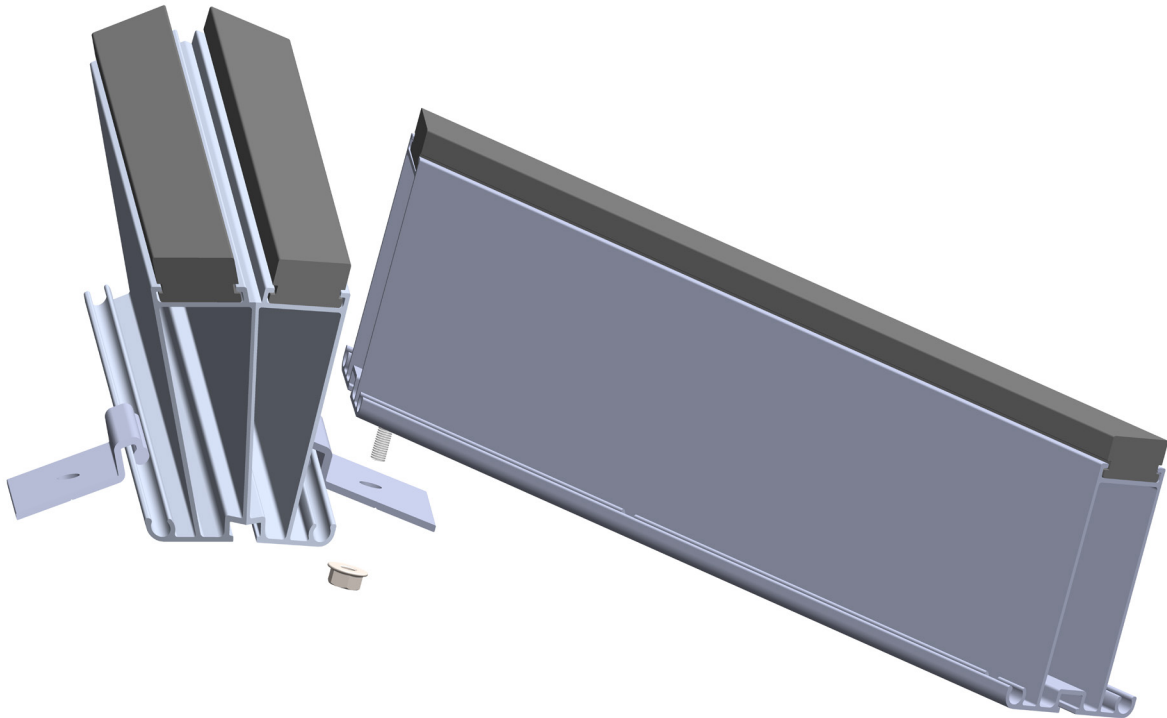
The M8 fixings, once in place on the hips, are to be inserted into the bolt slots on the boss end.



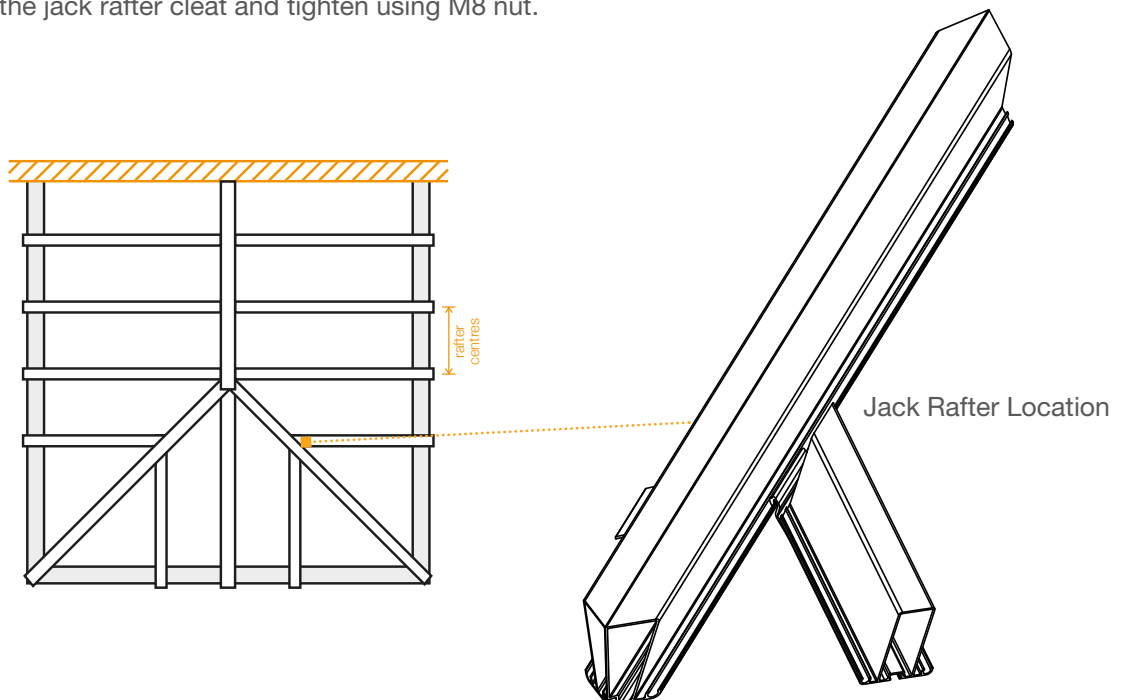
Fixings required are M8 bolts



CONNECTING JACK RAFTER TO HIPS



Insert M8 bolt into channel on jack rafter. Insert the bolt on the jack rafter through the hole of the jack rafter cleat and tighten using M8 nut.



RAFTER TO EAVES BEAM FIXING DETAIL

Rafter cleat detail

STEP A - Slide the rafter cleat into channel in rafter (see figure 1)

STEP B - Place bar in position placing the bolts in the eaves beam into the holes in the cleat (see figure 2)

STEP C - Fix into position using M8 nuts

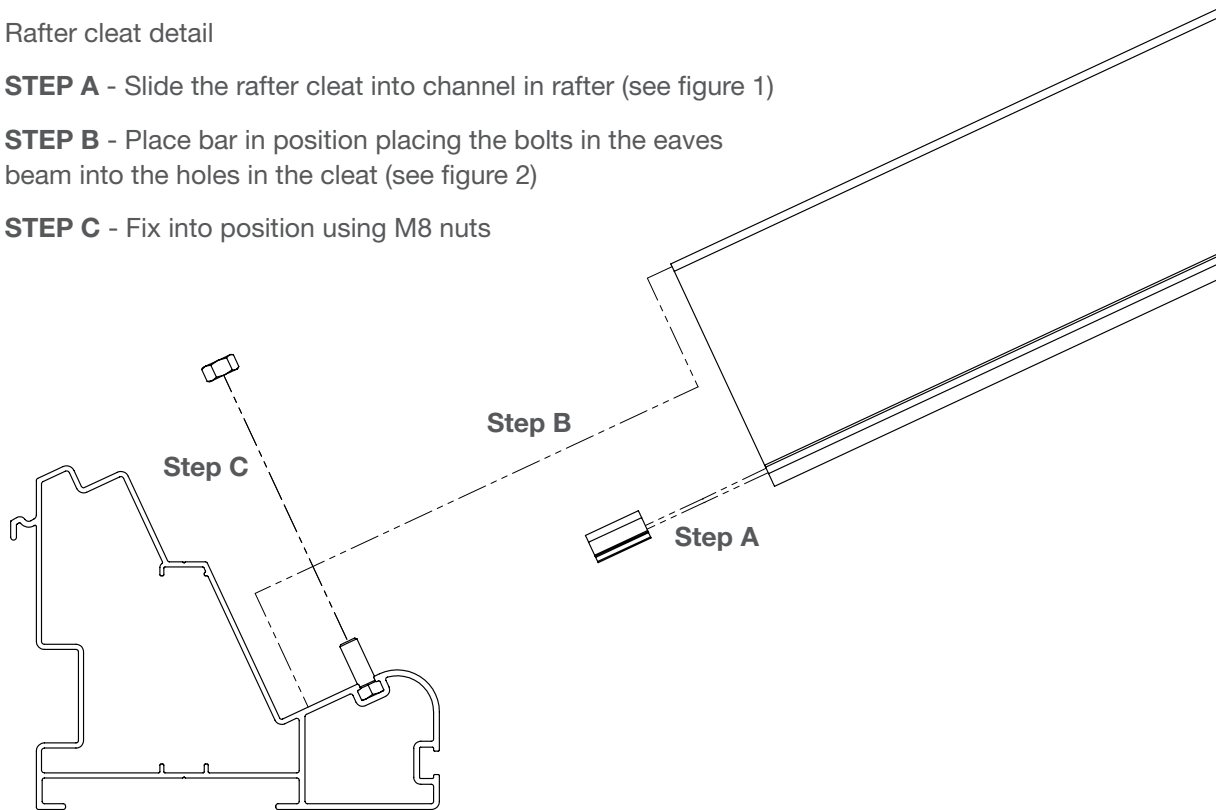


Figure 1

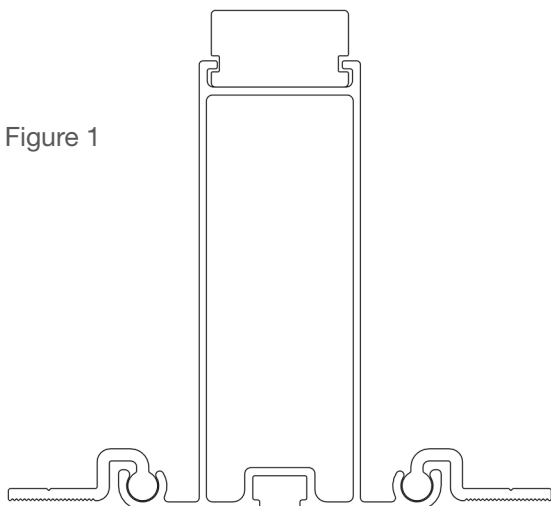
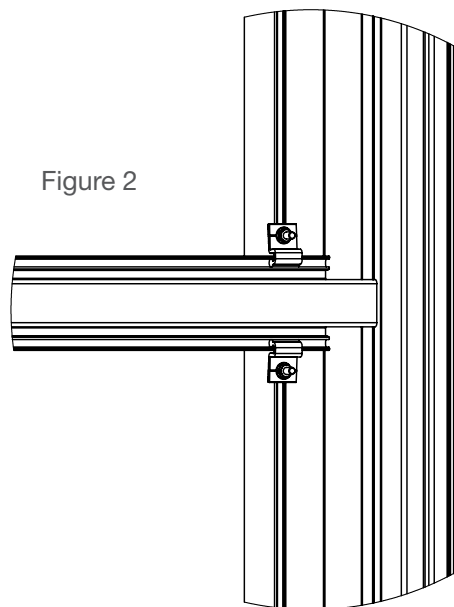
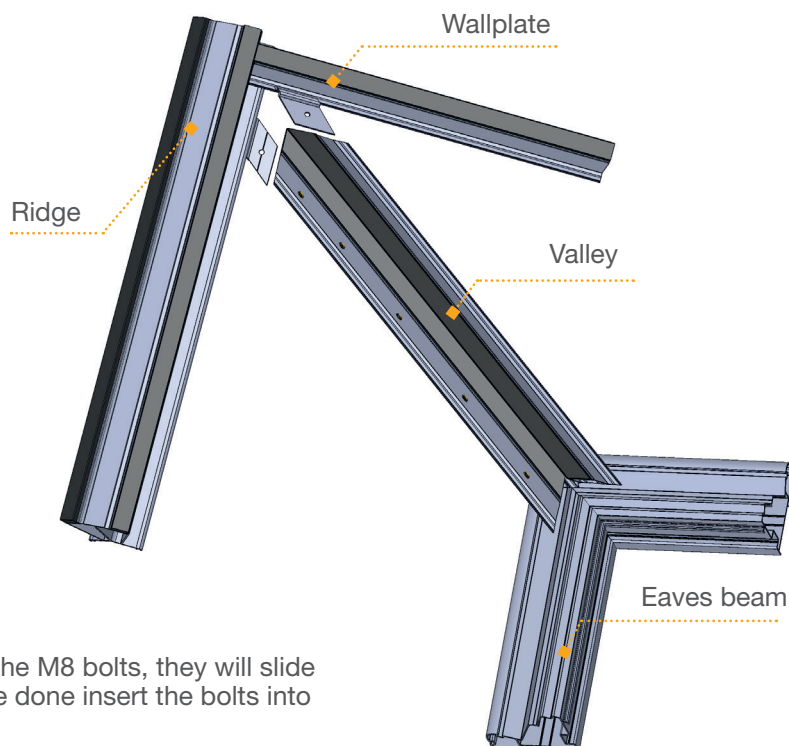
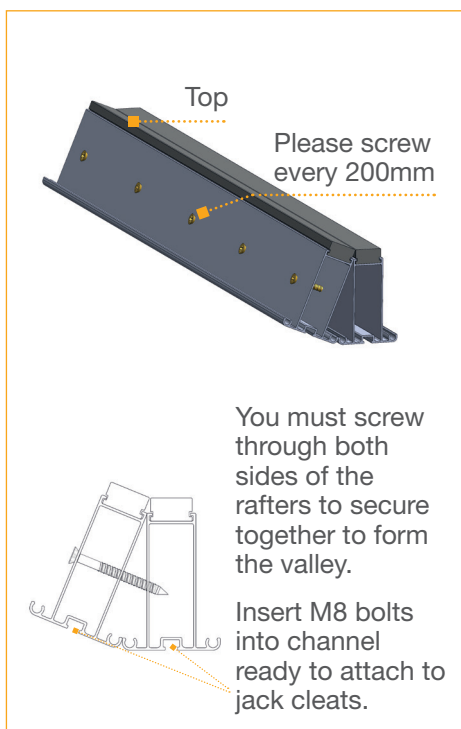
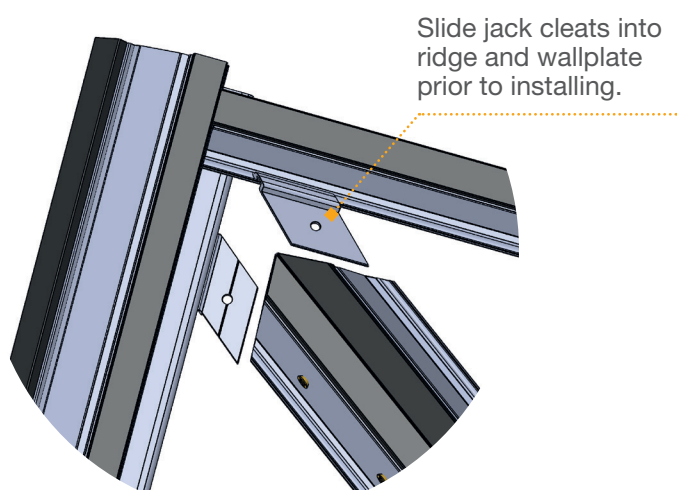


Figure 2

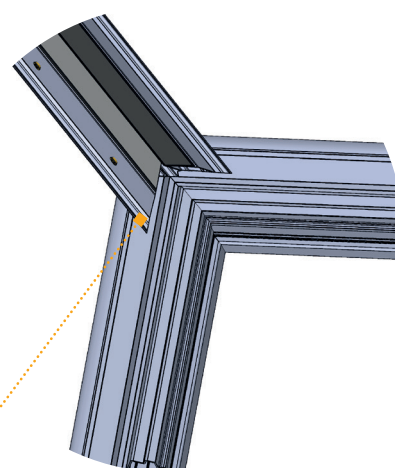




In order to secure the valley use the M8 bolts, they will slide into either side of the valley. Once done insert the bolts into the jacks cleats and fasten.

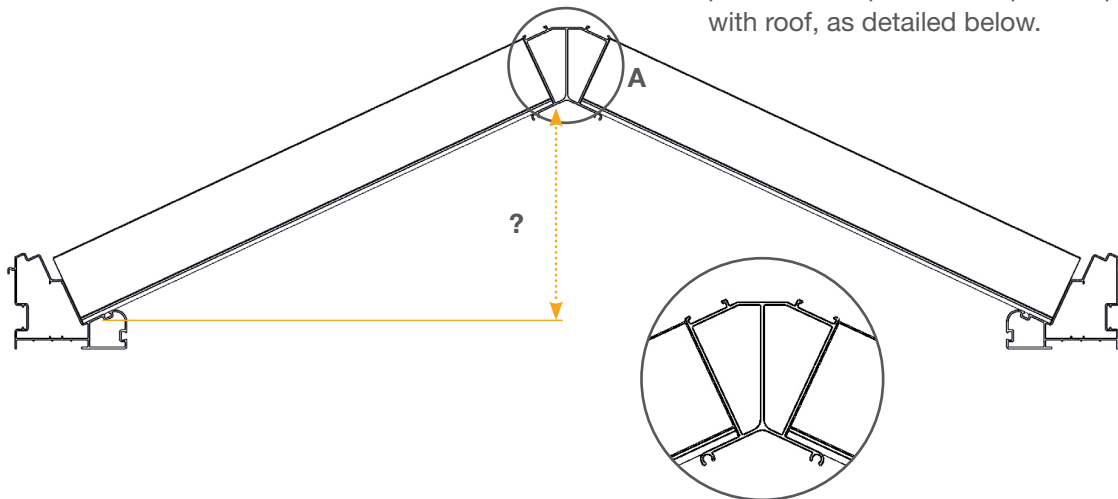


Use rafter fixing cleats at the bottom of the valley to secure

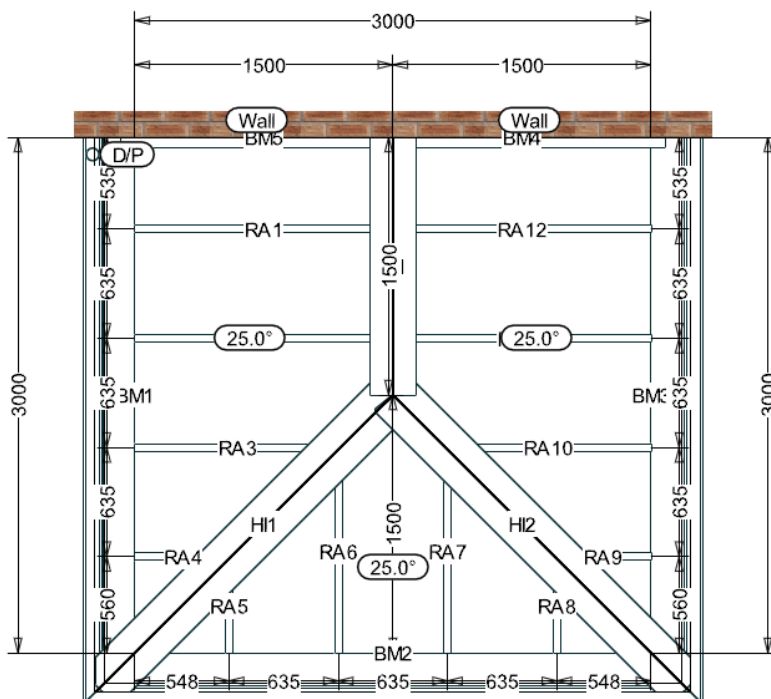


SETTING RIDGE HEIGHT

When setting ridge height, use the height provided on quotation or pack supplied with roof, as detailed below.



Detail A
Scale 1: 5

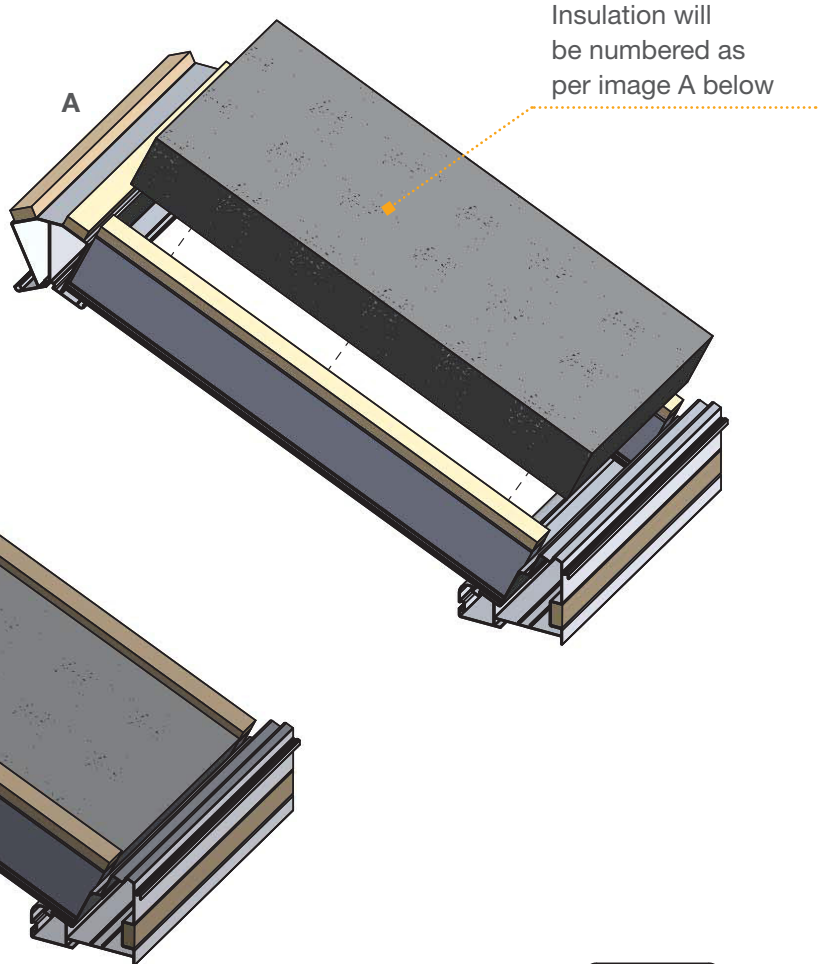


Fascia colour	White
Gutter colour	White
Tile type	Extralight
Tile Colour	Charcoal
Insulation type	EPS 100mm
Board type	11 mm Board
Roof weight (approx.)	438.32 kg
Plasterboard quantity	5
Frame depth	70mm
Top of frame to U/S ridge	756mm
Top of frame to top of ridge	946mm
Roof slope	25.0°

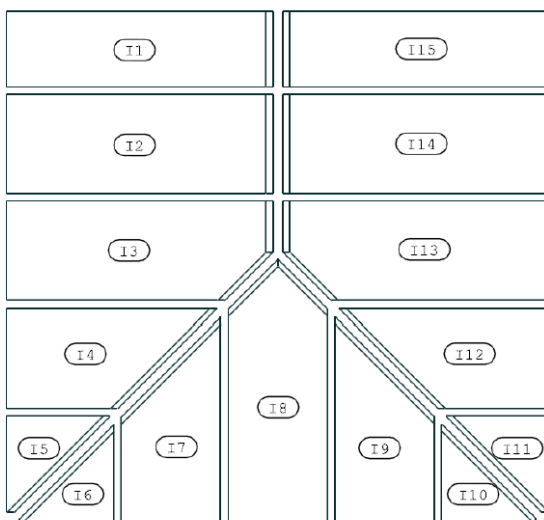
Fascia colour	White
Gutter colour	White
Tile type	Extralight
Tile Colour	Charcoal
Insulation type	EPS 100mm
Board type	11 mm Board
Roof weight (approx.)	246.58 kg
Plasterboard quantity	3
Frame depth	70mm
Top of frame to U/S ridge	570mm
Top of frame to top of ridge	745mm
Roof slope	15.0°

INSERTING INSULATION INTO THE ROOF

Insulation is to be dropped in between the rafters as shown images A and B

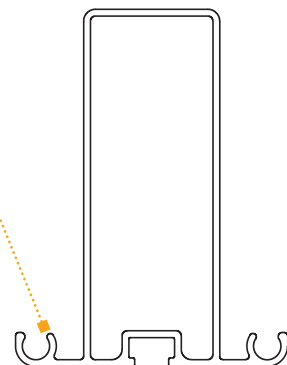


Fitters Guide supplied by SupaLite (Image A)



Insulation sits onto the rafter wings

Insulation is held in place by the rafter wings



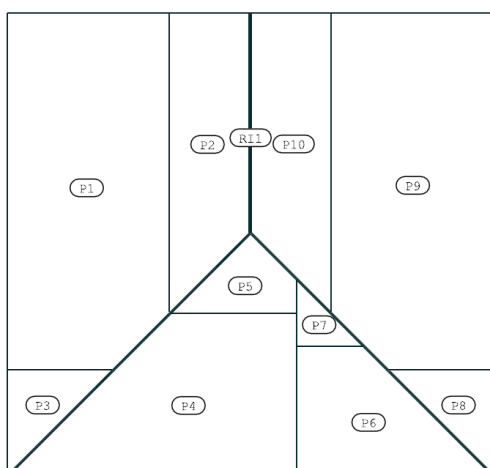
FIXING 11MM BOARD

All timber boards are scribed with specific job number and pieces numbered (as per image A)

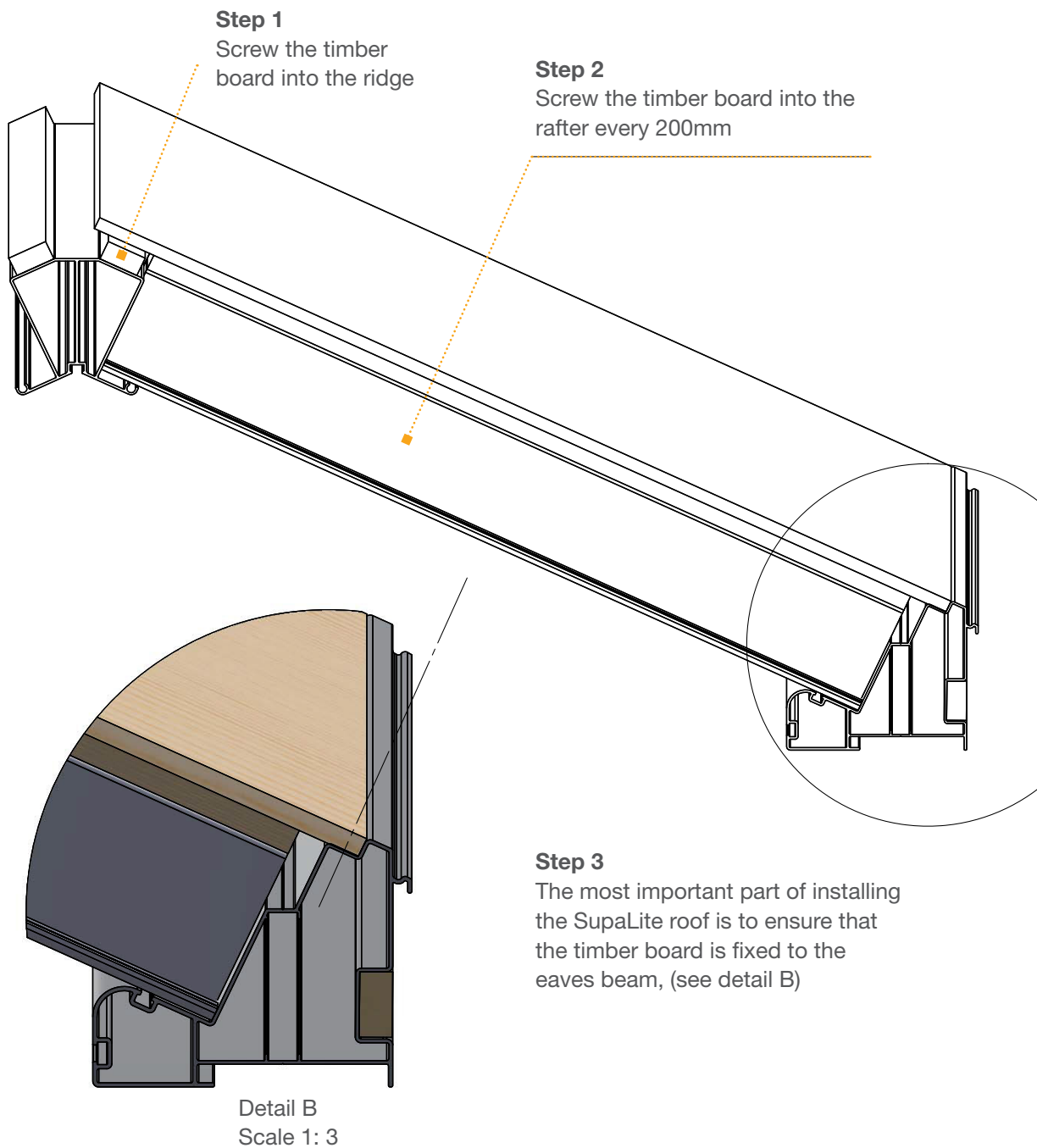
Timber board should then be fixed to the eaves beam, Rafters, Ridge or Wallplate using self-tapping screws.



Fitters Guide supplied By Supalite (Image A)



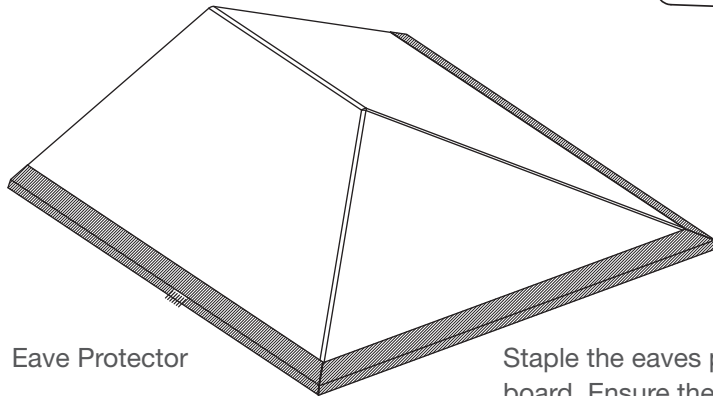
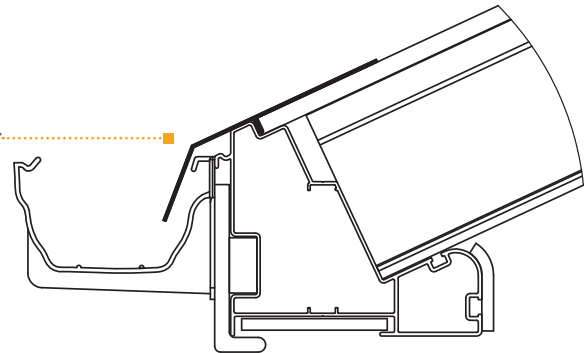
FIXING 11MM BOARD



SETTING THE EAVES PROTECTOR / MEMBRANE

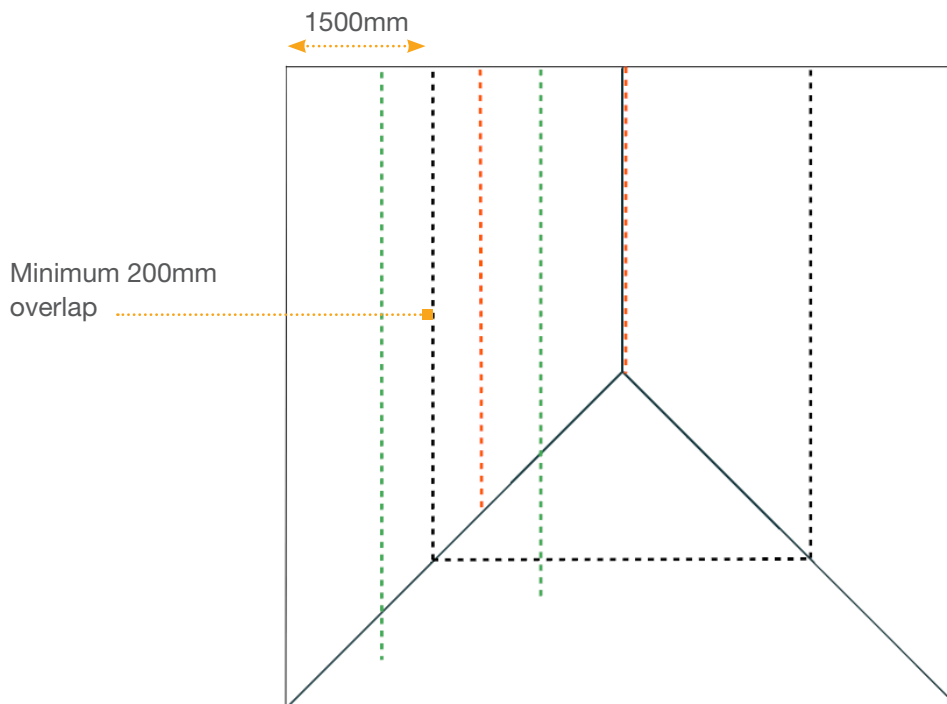
Eaves protector is to be installed to allow water to flow directly into the gutter from the roof.

Eaves Protector
(Image A)



Eave Protector

Staple the eaves protector directly to the timber board. Ensure they are overhanging correctly. (As per image A above)

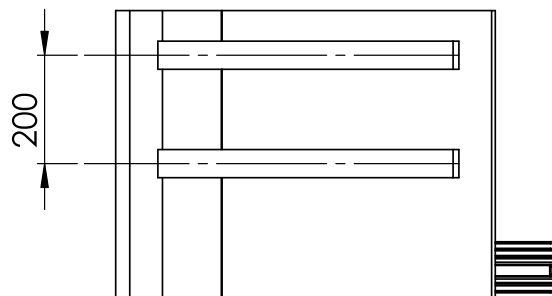
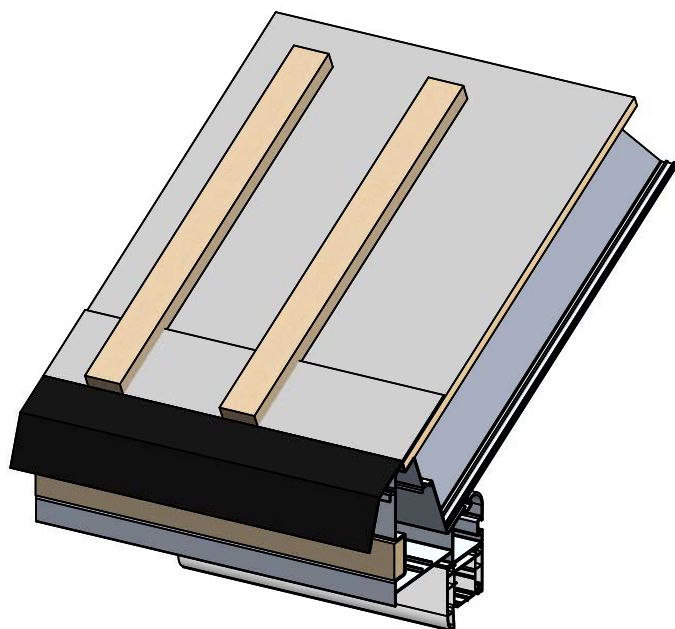


The membrane is semi-waterproof, however, additional measures should be taken if the roof is left exposed overnight, i.e additional tarpaulins used to cover the roof.

Position the membrane with all joins running horizontally to the pitch of the roof. A minimum 200mm overlap is required before stapling into place. All hips and ridges must be covered with a minimum overlap of 150mm. A 100mm excess is required to run up the house wall and the membrane must also run to the outside of the eaves protector.

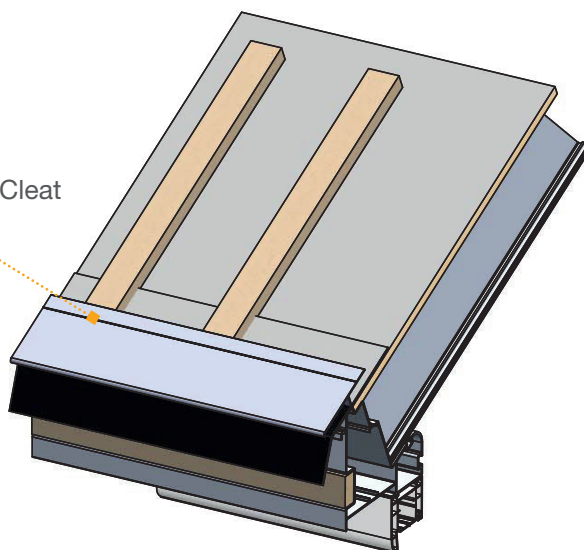
EXTRALIGHT BATTENING

Vertical tile battens are to be installed directly onto the membrane, fixings for the Extralight tiles are not supplied as part of kit roof.

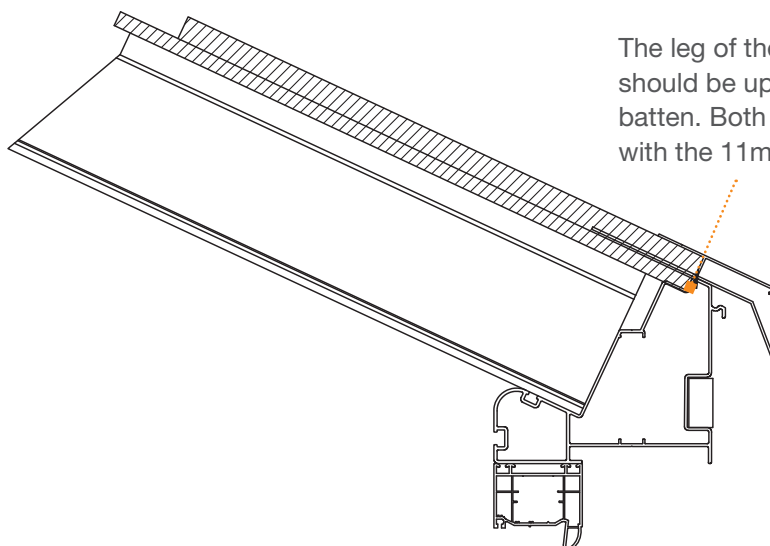


When setting out the battens you are recommended to use a 200mm spacing to stop the tiles from dipping when pressure is applied

Extralight Tile Starter Cleat
fixing point.

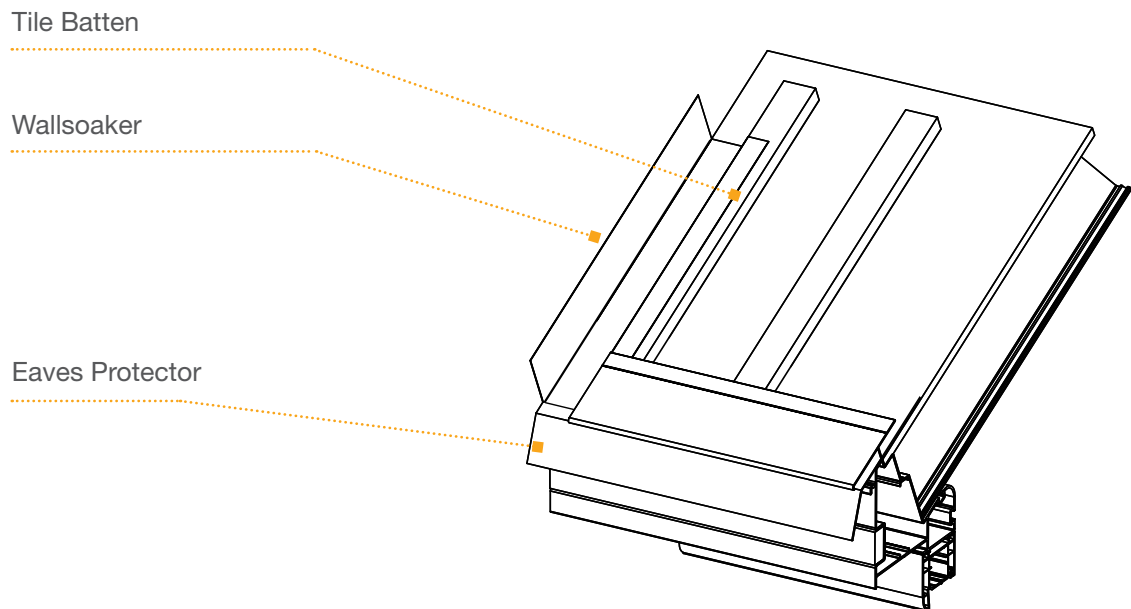


The Tile Starter Cleat will be provided to go around all sections of the roof which have an eaves beam.

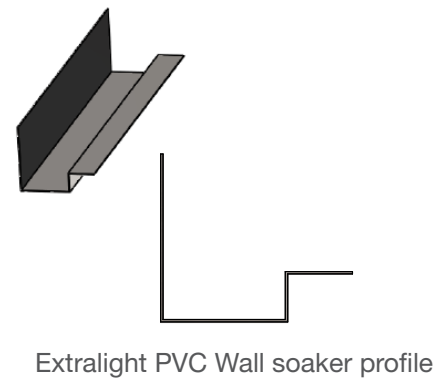
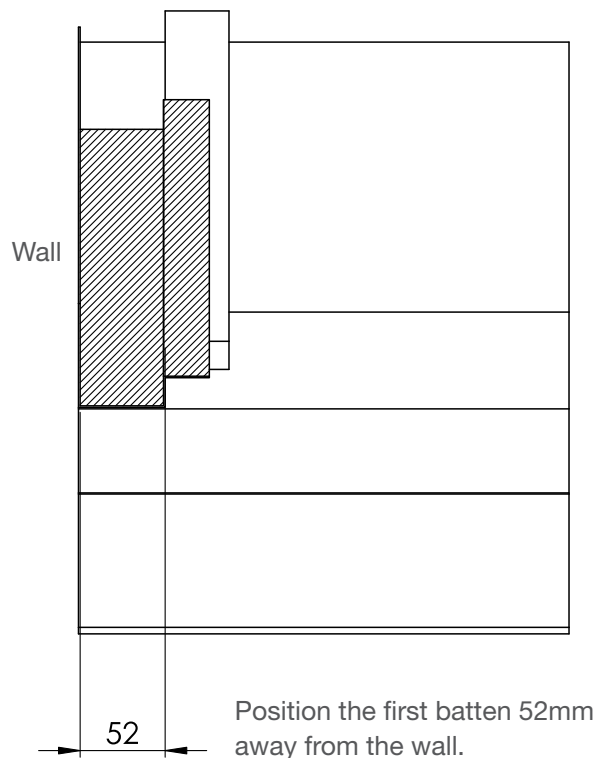


The leg of the starter cleat should be up against the tile batten. Both should be in line with the 11mm board

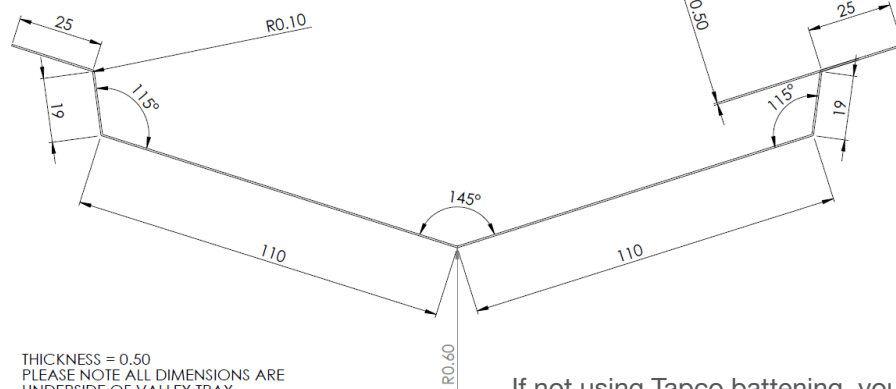
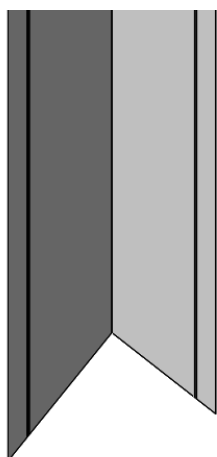
EXTRALIGHT WALLSOAKER



When setting the wall soaker screw directly down into the batten to fasten in place.

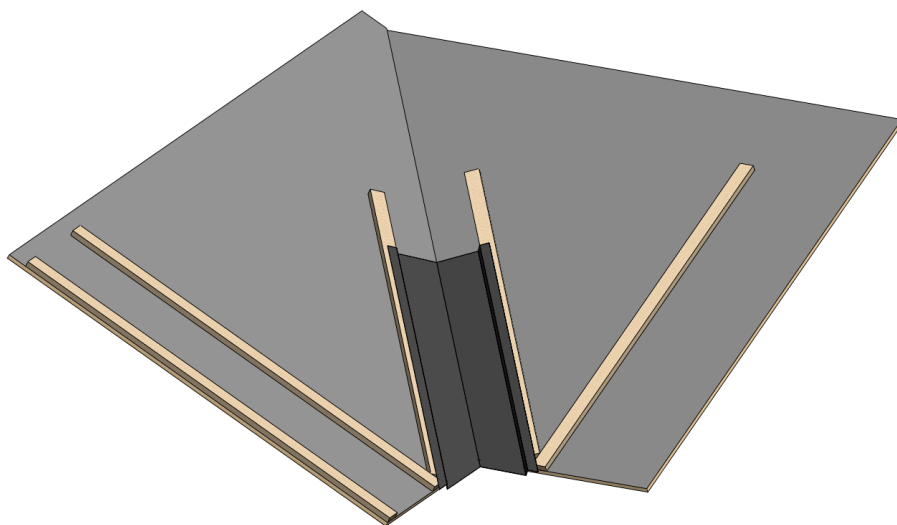


VALLEY TRAYS



If not using Tapco battening, you will need to remove the wings from the valley tray prior to installation.

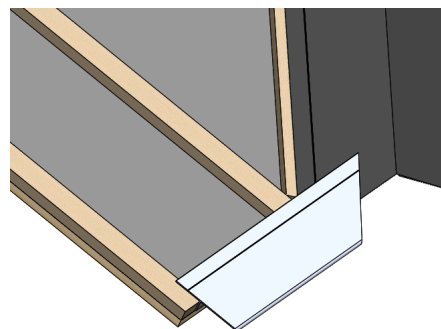
Fitters will be responsible for cutting the correct angle on the valley to match the angle of the roof.



From middle of the valley, measure out 110mm when setting the tile batten.

Screw both valley wings directly down into the battens as previously set out.

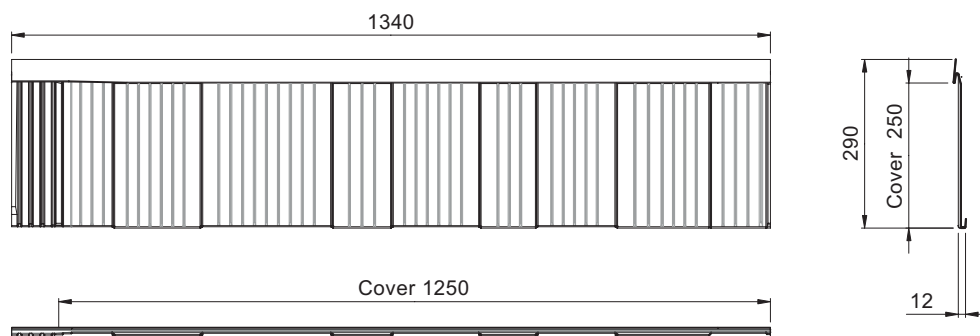
Cut out bottom of the tray to allow for the tile starter cleat to run into the valley tray. Over hang tray by 20mm from the end of the 11mm board. When setting tile starter cleat, set 40mm in from the centre of the valley.



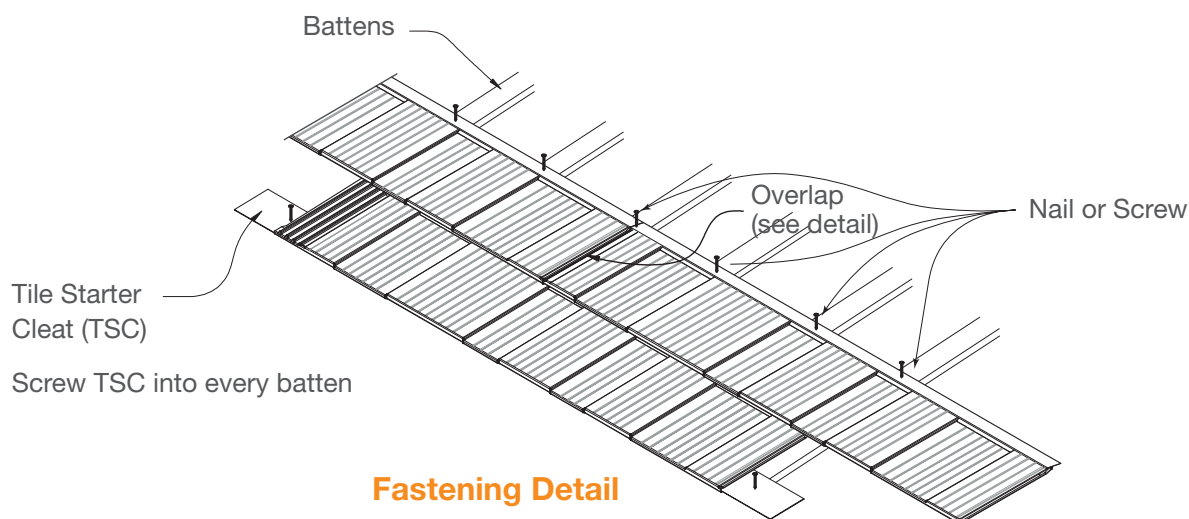
Tile Starter Cleat

EXTRALIGHT TILING DETAIL

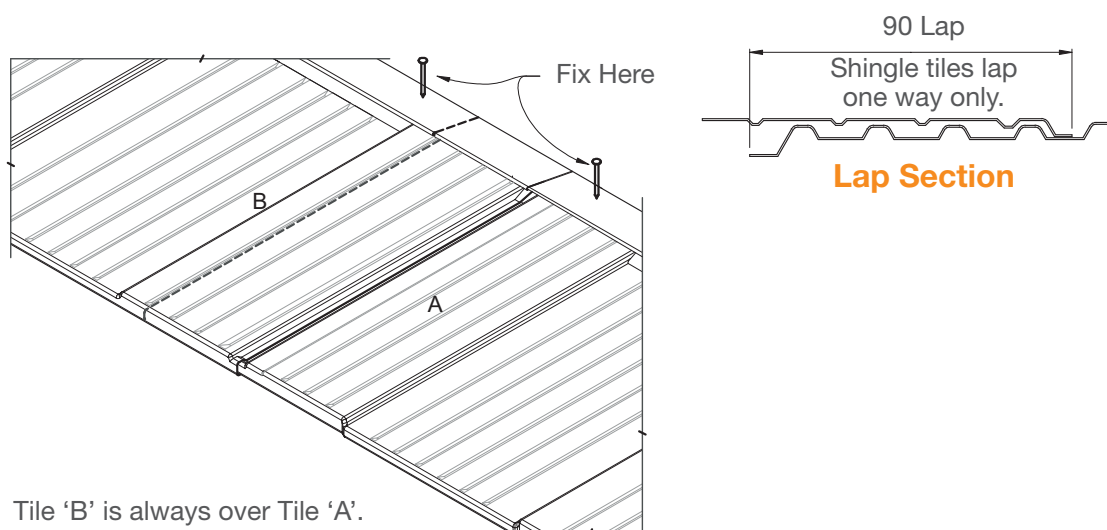
Extralight tiles are always laid right to left, You must complete each row on each section before moving to the next elevation



Tile Dimensions



Fastening Detail

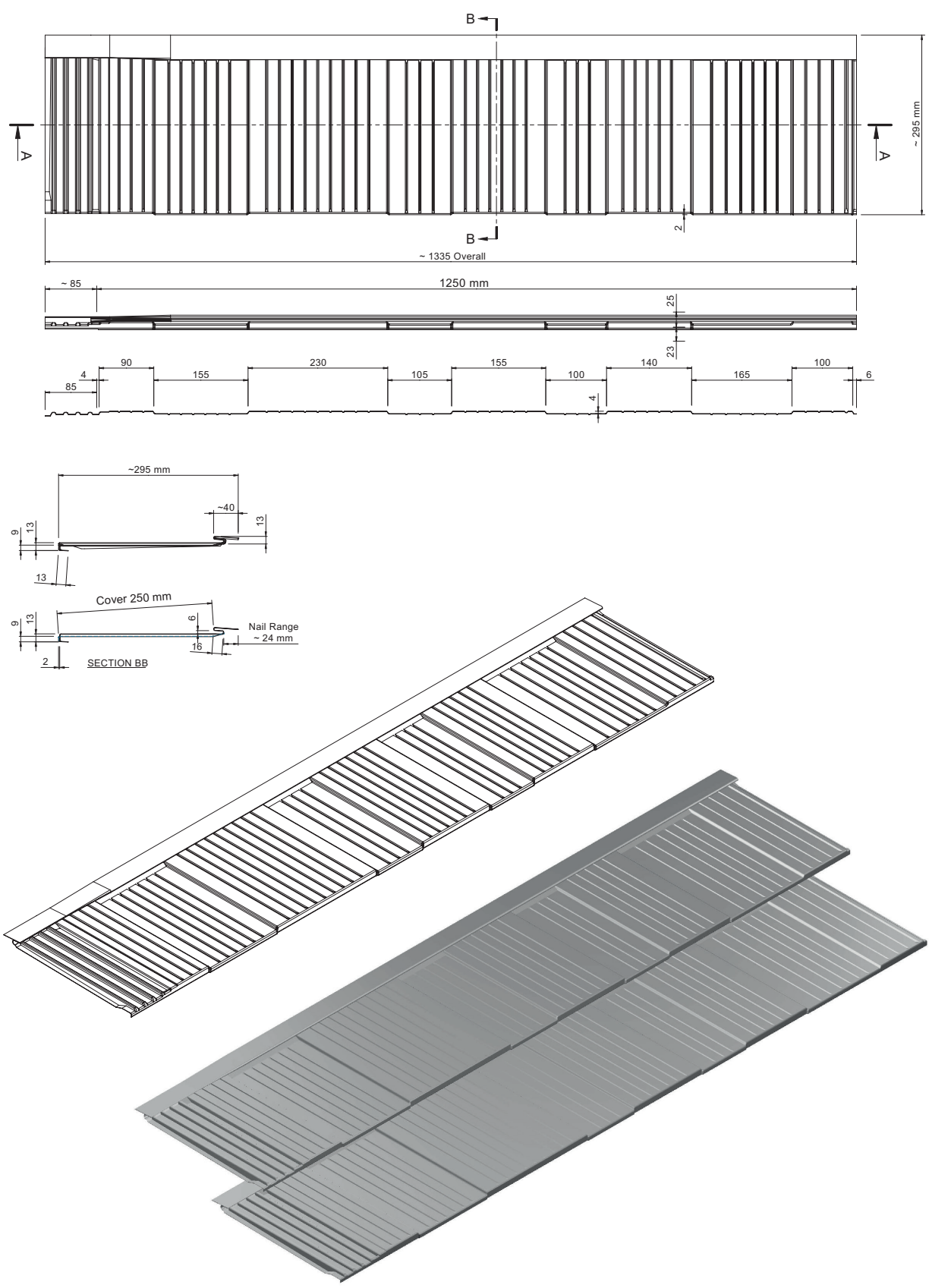


Tile 'B' is always over Tile 'A'.

Overlap Detail

Lap Section

EXTRALIGHT TILING DETAIL



Gable Ridge End Cap



Specifications
Length: 240mm
Width: 150mm

3 Way Top Cap



Specifications
Length: 375mm
Width: 340mm

The Y-Junction can only be used on Edwardian style roofs

90° / 135° End Caps



Specifications
Length: 200mm
Width: 125mm

5 Way Top Cap



Specifications
Length: 500mm
Width: 500mm

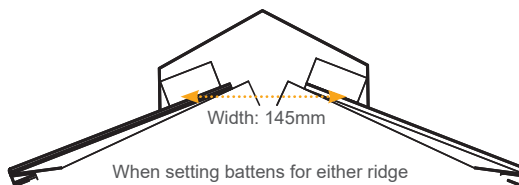
The 5 Way end cap can only be used when all facets sizes are equal as well as angles are set at 135 degrees

Ridge

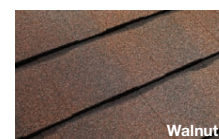
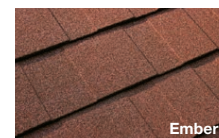


Specifications
Length: 1300mm
Width: 150mm

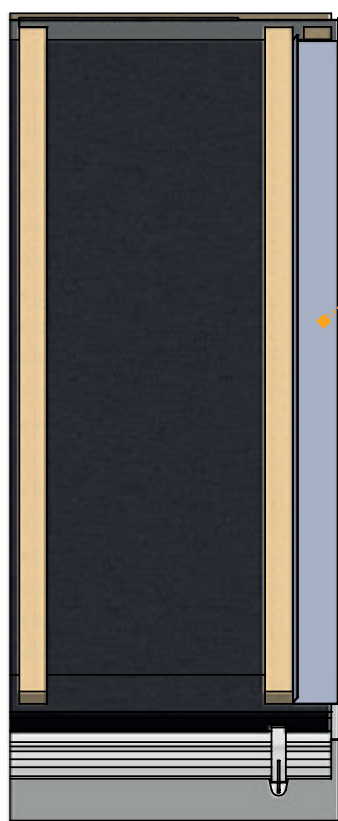
Universal Top Cap



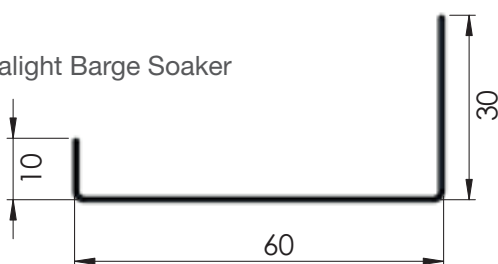
Tile Colours



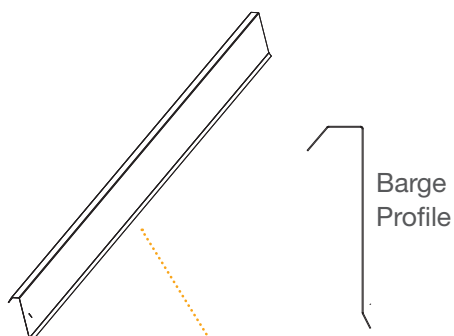
extraLIGHT
LIGHT WEIGHT ROOF TILE SYSTEM



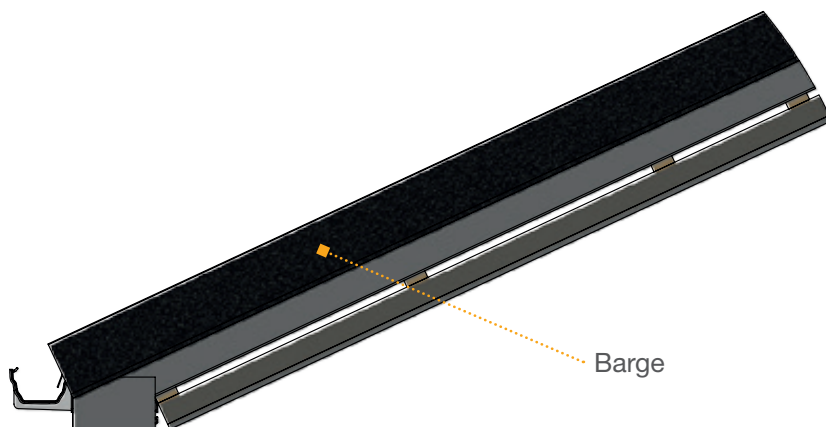
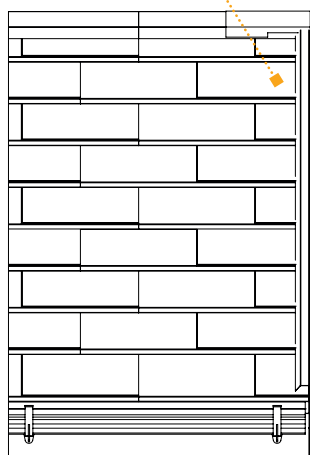
Extralight Barge Soaker



1. Fit the soaker tray for the barge on a bed of silicone with the long vertical leg flush with the edge of the roof.
2. Batten up to the soaker tray.
3. Tile roof up to the vertical leg of the soaker tray.
4. The barge is placed with the internal face against the outside of the soaker. The barge will sit on top of the tiles, hooking over the soaker tray.
5. Fix the barge in position through the face of the barge using self tapping screws and cover the head of the screws using the grit and glue provided. (Repair Kit, images on page 33).



Barge Profile



Barge

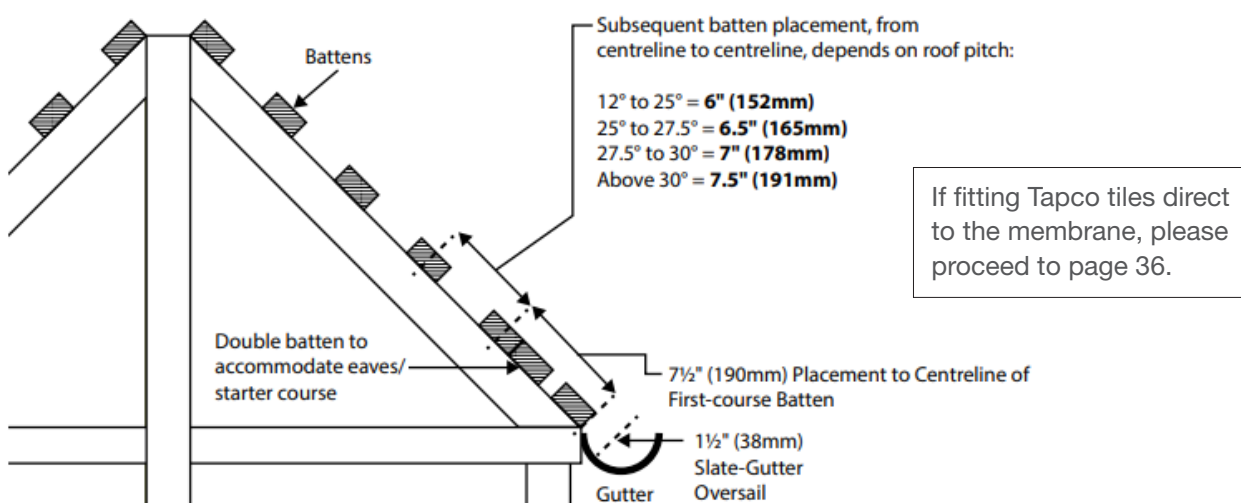
Please note when soaker tray and barges require more than 1 on an elevation you should always overlap the barge/soaker above the one below to avoid creating a step which would could then hold water

TAPCO SLATE BATTENING

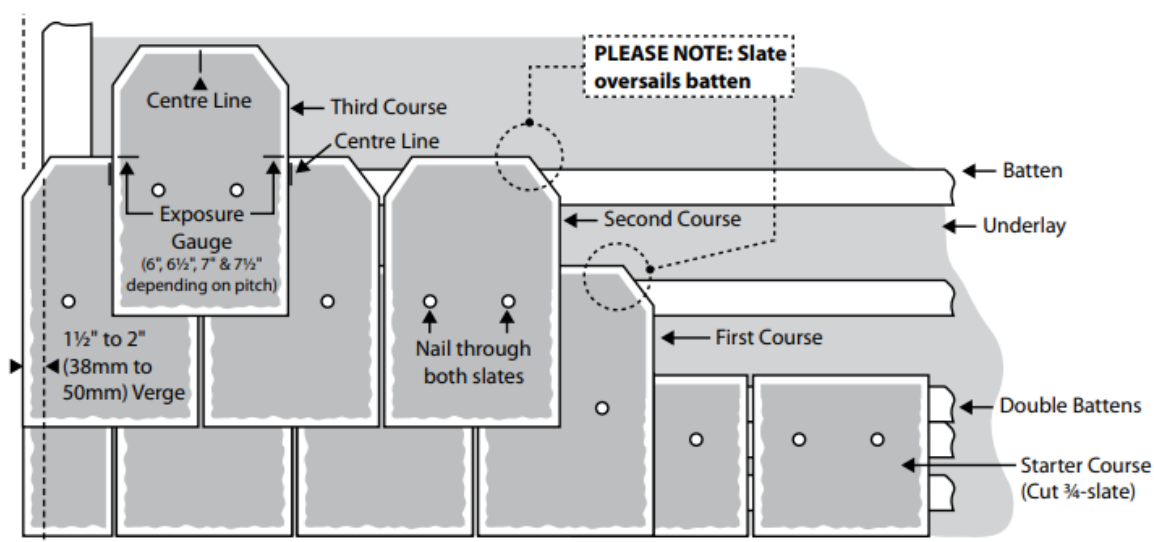
Battens are included with every roof kit. Preparing of the roof with battens prior to installation of Tapco tiles is not always necessary.

However, all roofs with a Sky Vista, a vent or a valley **MUST** be battened prior to tiling.

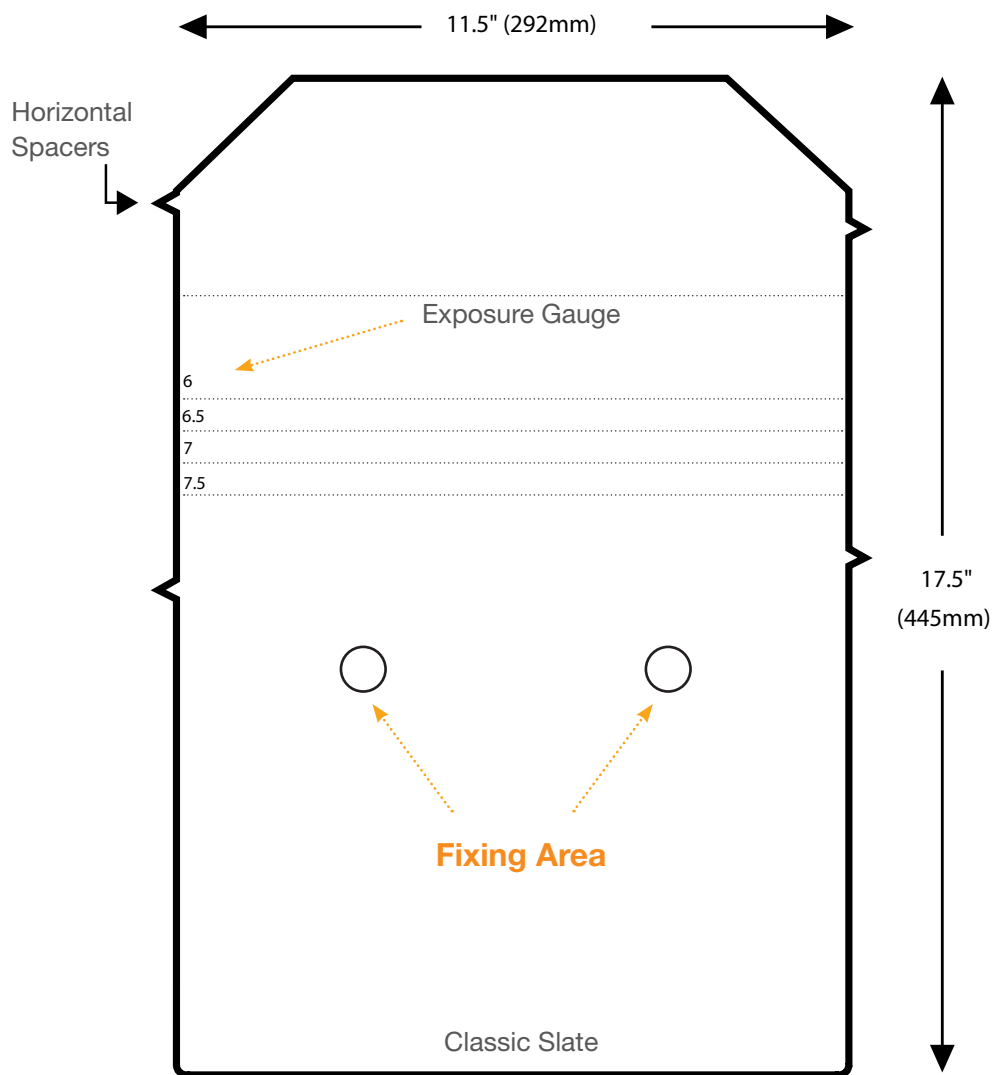
If the roof is against a wall, a spacing of 52mm is required between the house wall and the start of the horizontal batten to allow space for the wall soaker to be installed (see page 29).



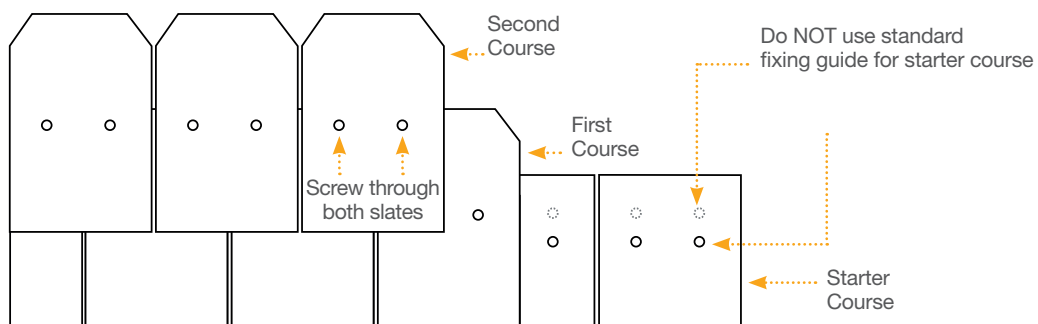
When installing Tapco tiles on to a lean-to or gable style roof, verges are not provided. Please overhang the verge of the roof by approx 40mm. If using cappings or cladding, place this directly under this overhang and seal.



TAPCO SLATE DETAIL



When installing Tapco onto a gable roof an overhang needs to be created by laying tiles past the edge of the ply. Once complete, the fascia board will be offered up to the underside of the tile.

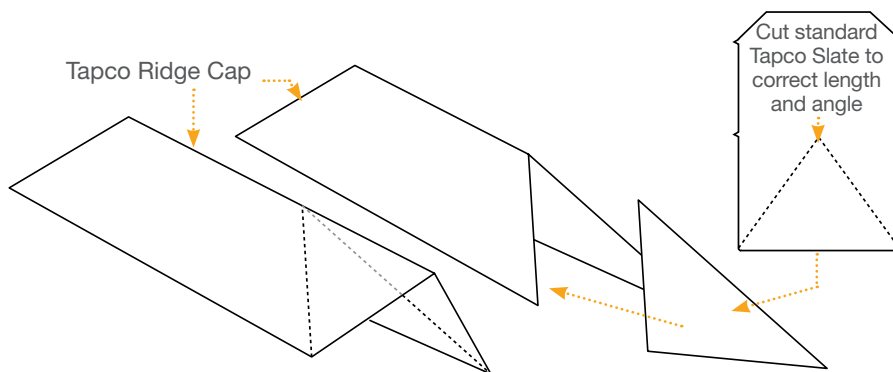
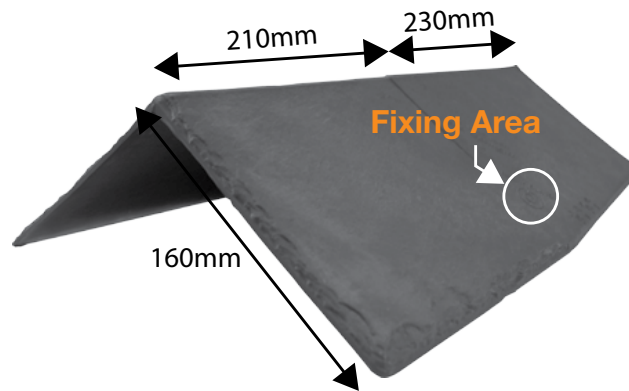


TapcoSlate Classic

ROOF PITCH	GAUGE	SLATES PER M ²
12* to 25 degrees (fully boarded or felt & battens)	6" (152mm)	22
25 to 27.5 degrees (fully boarded or felt & battens)	6.5" (165mm)	20
27.5 to 30 degrees (fully boarded or felt & battens)	7" (178mm)	19
above 30 degrees (fully boarded or felt & battens)	7.5" (191mm)	18

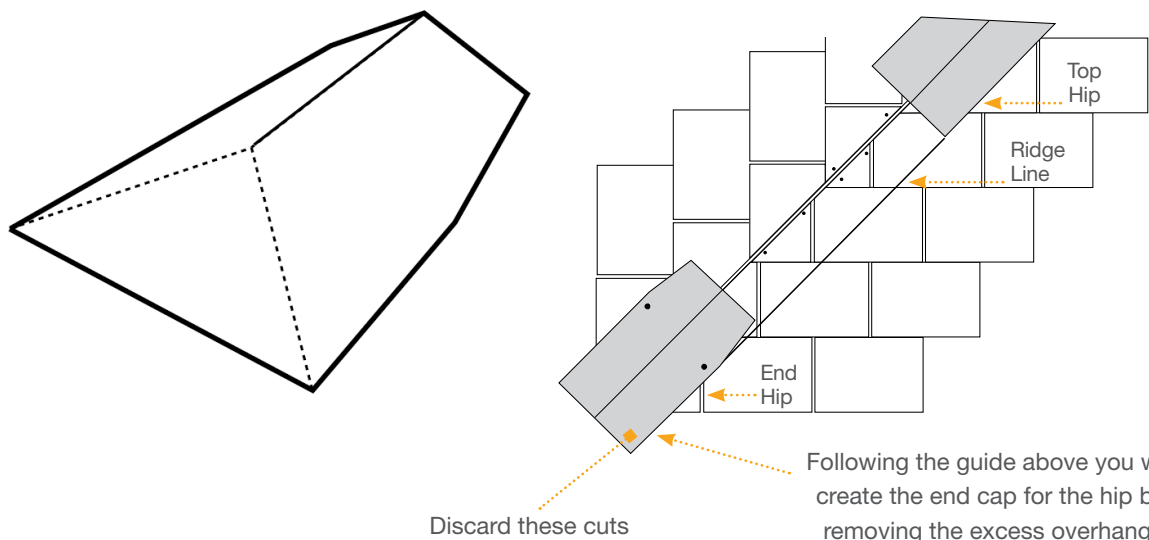
CLASSIC RIDGE

Classic Ridge
Ridge & Hip Caps



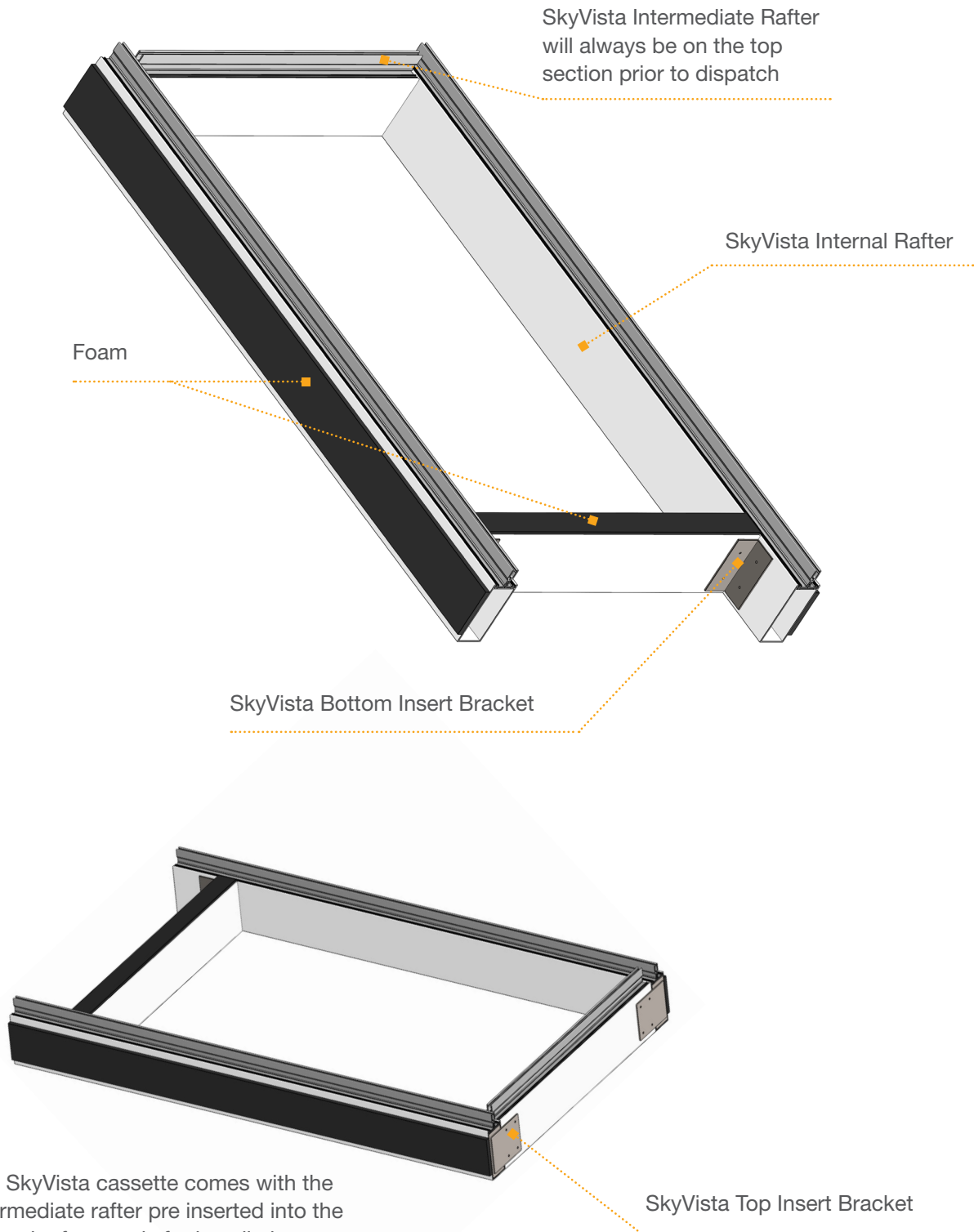
Follow the above guide for cutting tile and ridge, then adhere the two parts using either a heat gun or strong sealant to hold together. This will create a top cap for the crown point of the roof.

Following the below guide you will create the end cap for your hip

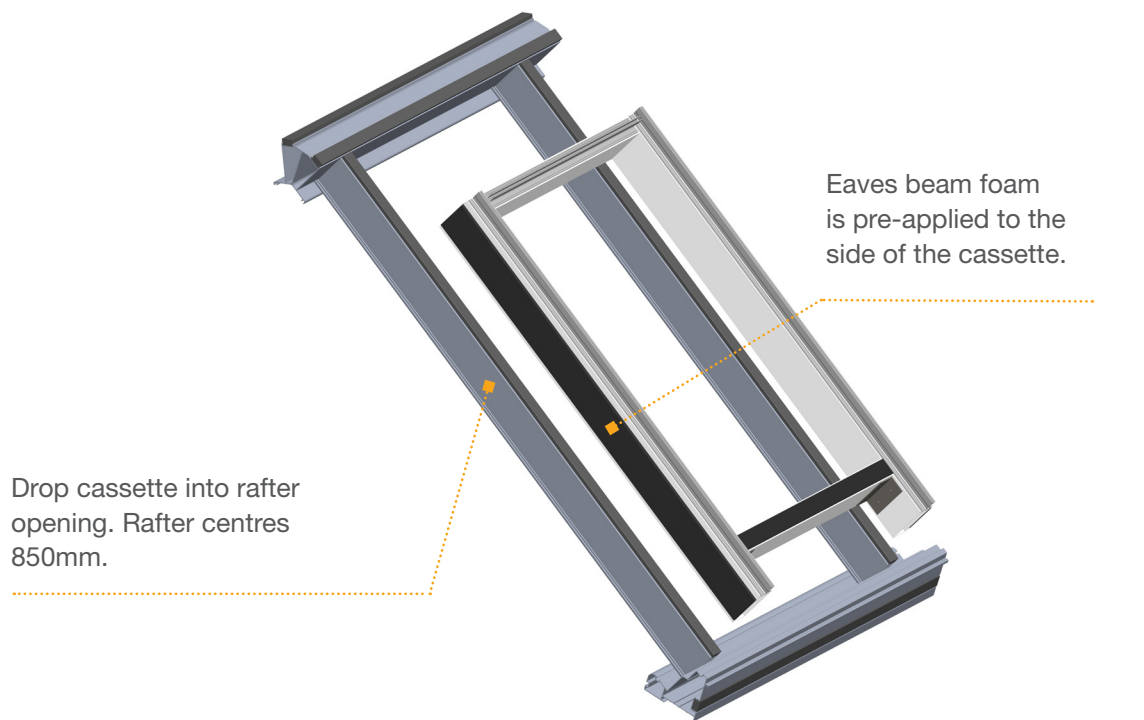


CASSETTES

As shown in the image below the cassette will come pre fabricated by SupaLite, ready to install.



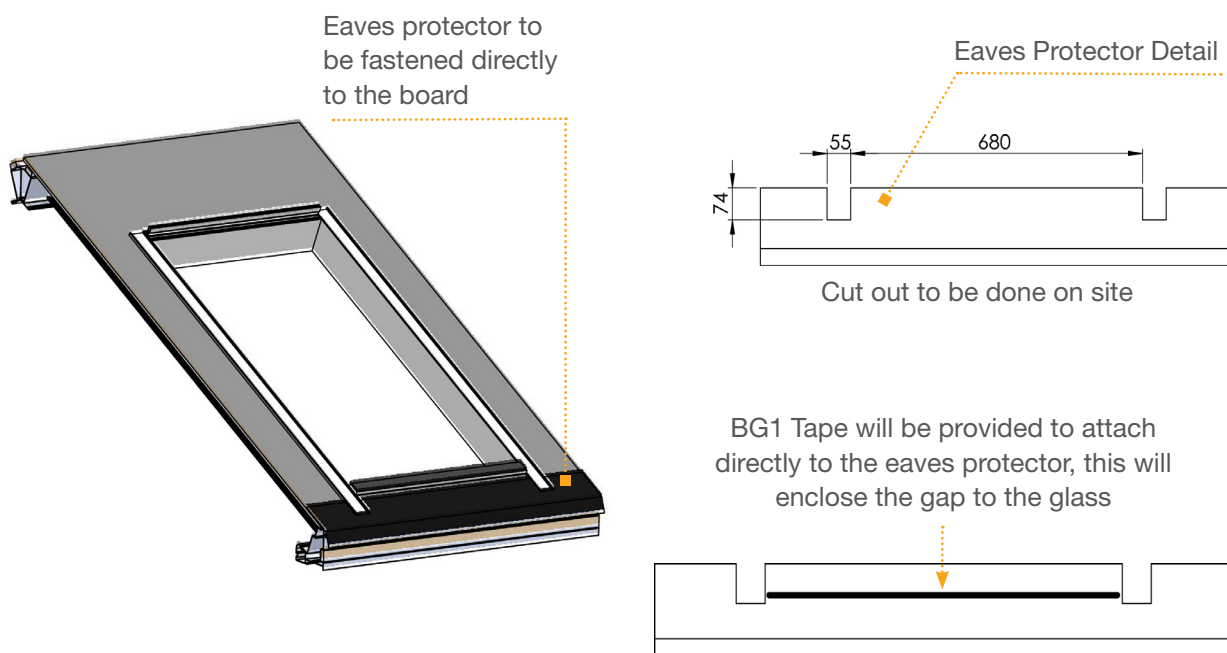
INSTALLATION OF CASSETTE



INSULATION & BOARD AROUND CASSETTE

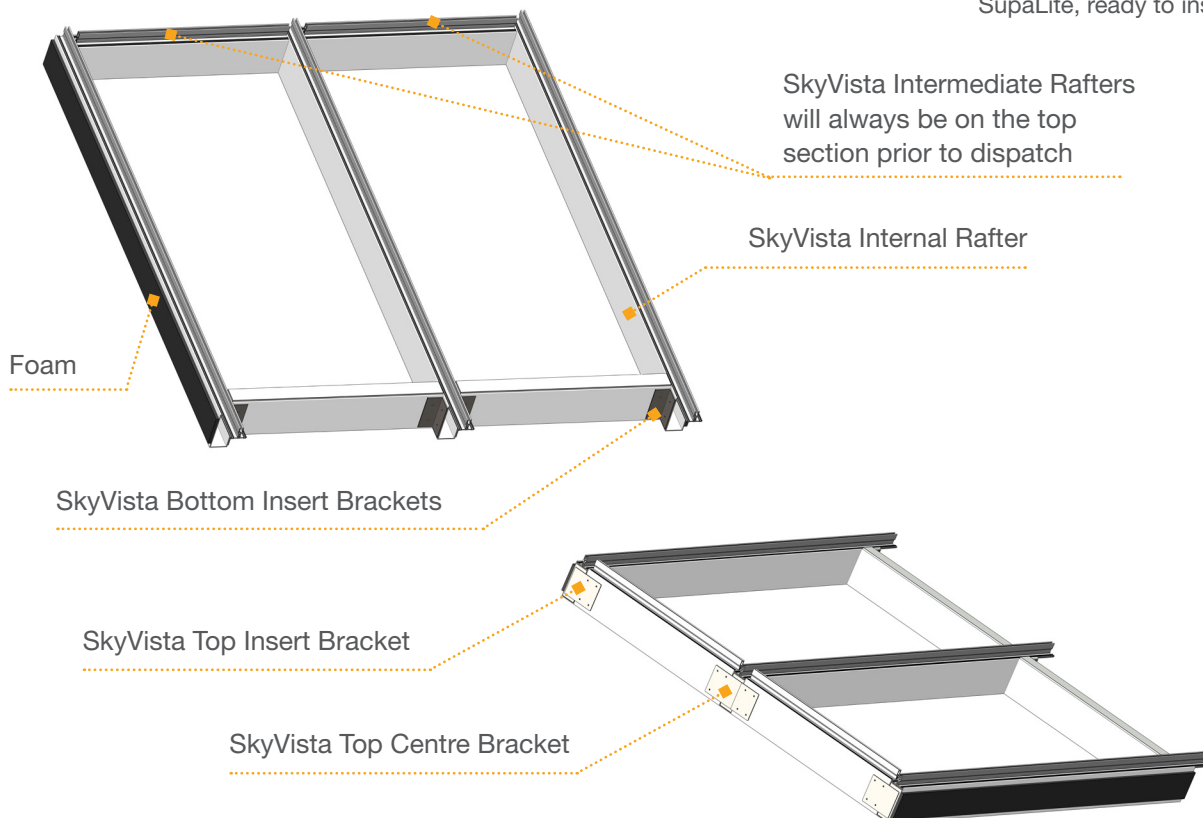


EAVES PROTECTOR DETAIL

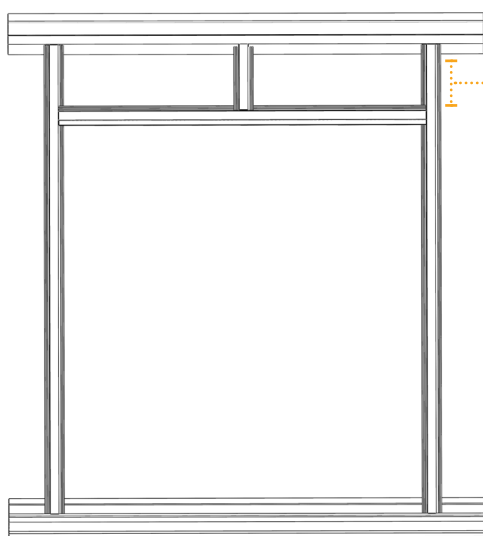


DOUBLE SkyVista CASSETTE

As shown in the image below the cassette will come pre-fabricated by SupaLite, ready to install.



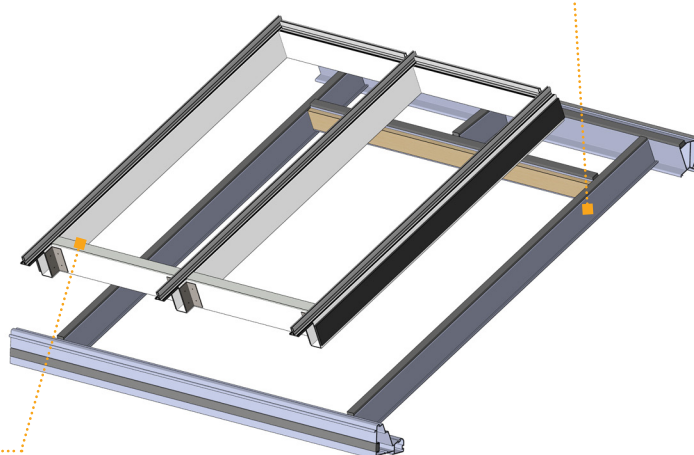
The double SkyVista cassette comes with the intermediate rafter pre inserted into the internal rafter, ready for installation.



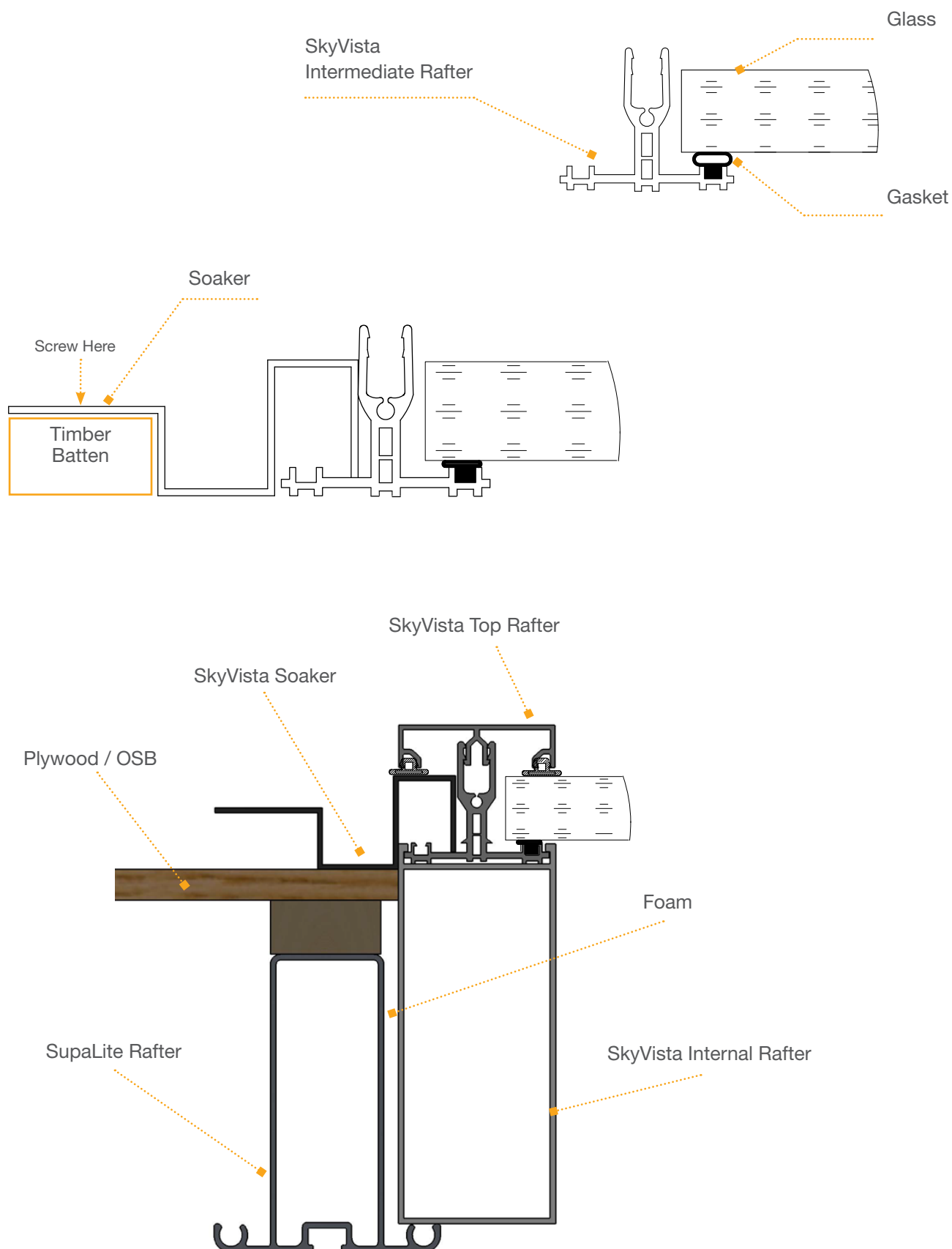
There needs to be a minimum of 300mm between the rafter and top of the double SkyVista cassette.

When fastening your double cassette in place, screw directly through the rafter into the SkyVista internal rafter, every 300mm.

Drop cassette into rafter opening. Rafter centres 1700mm.



CROSS SECTIONS OF SkyVista PROFILE



FLASHING SkyVista / DOUBLE SkyVista

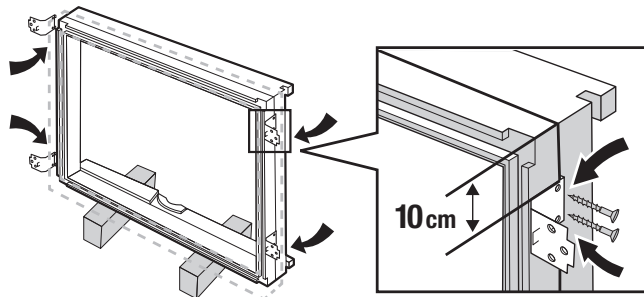
A 10mm gap must be left around the SkyVista to ensure a soakaway is created to allow water to drain down the soakers.



Please note: Ensure glass is protected when cutting tiles, as damage can be caused to the self-clean coating.

INSTALLATION OF ROOF WINDOW

When creating the opening for the roof window, ensure you make the hole 20mm bigger around the perimeter of the roof window. Once the hole is created and step 1 (below) has been followed, drop the roof vent into the location required (this can be anywhere in the roof spacing).

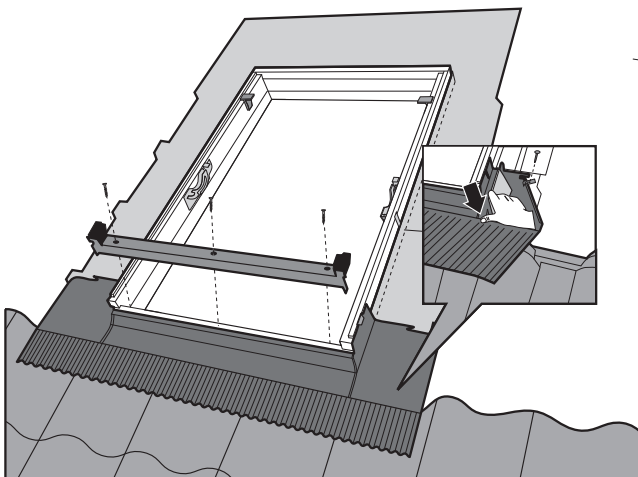
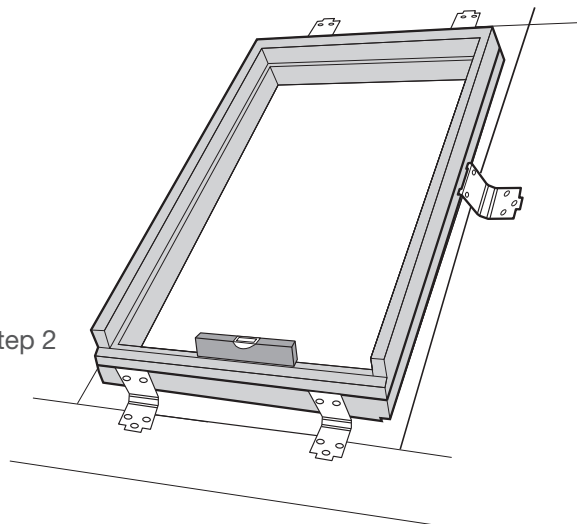


Step 1

Screw plates directly to the side of the roof vent casing

When fixing the casing between the rafters ensure the plates are fixed directly to the boards (Extralight)

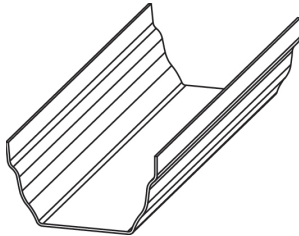
Step 2



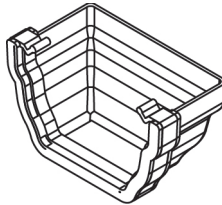
Always start flashing the roof window when you have tiled up to the bottom of the vent like image.

GUTTER COMPONENTS

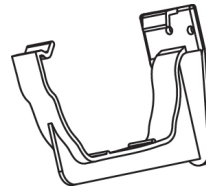
The guttering supplied is Freeflow double ogee. This needs to be stored away from direct sunlight and extreme heat to avoid distortion occurring.



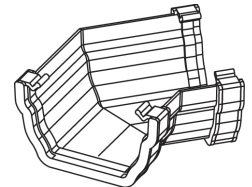
Gutter 4m Lengths
Gutter 6m Lengths



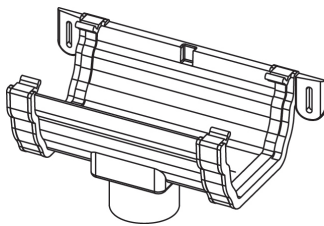
Gutter Stop End



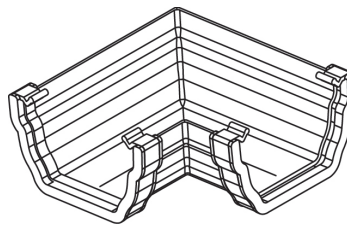
Gutter Bracket
(Remove the protective tape before fitting to the gutter brackets)



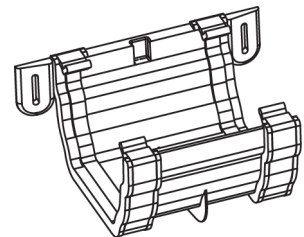
135 Degree
Gutter Bend



Gutter Running
Outlet



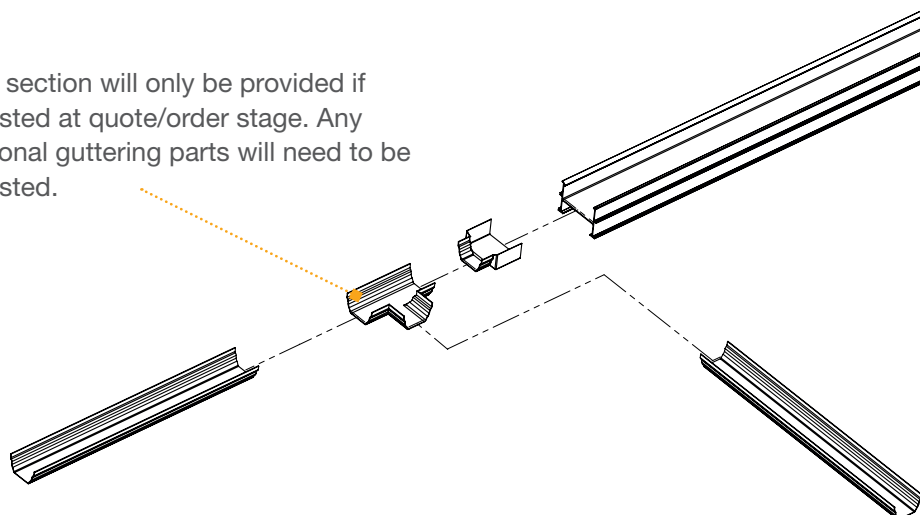
90 Degree
Gutter Bend



Gutter Union

WELDED T ADAPTERS DETAIL

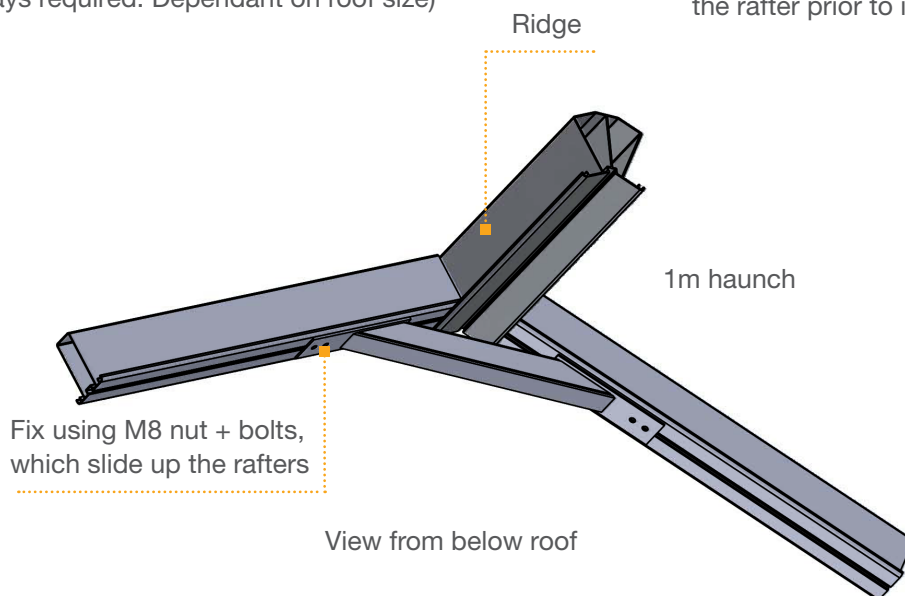
The T section will only be provided if requested at quote/order stage. Any additional guttering parts will need to be requested.



RIDGE SUPPORT DETAIL

1M RIDGE SUPPORT

(Not always required. Dependant on roof size)



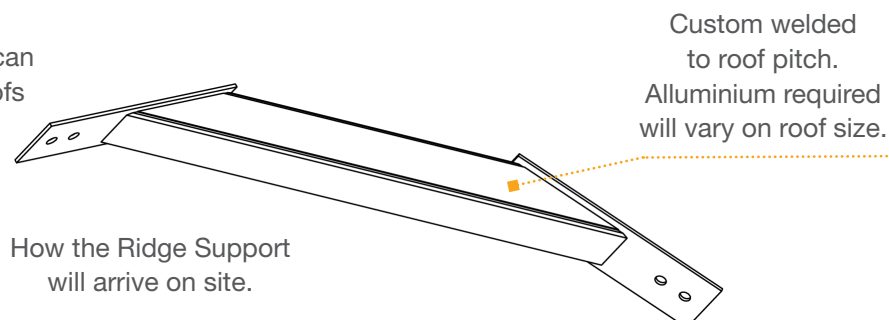
Special Order, not supplied as standard

Alternative Options:

- Timber Truss
- Tie Bar - page 47

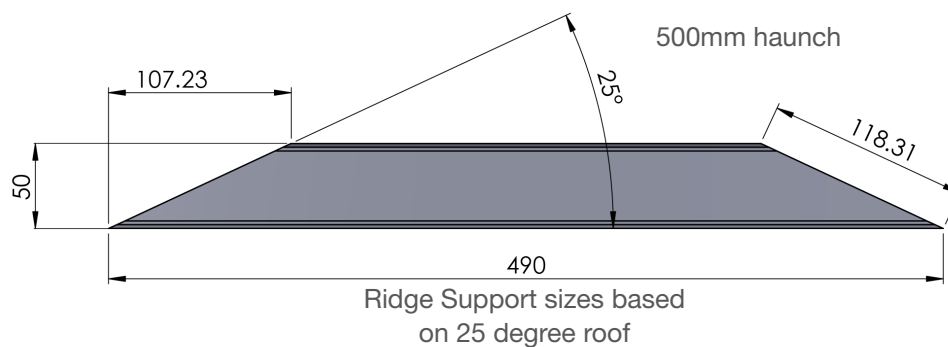
All options follow same process of installing the M8 bolts into the rafter prior to installation.

The ridge support beam can be used on all style of roofs except lean to's

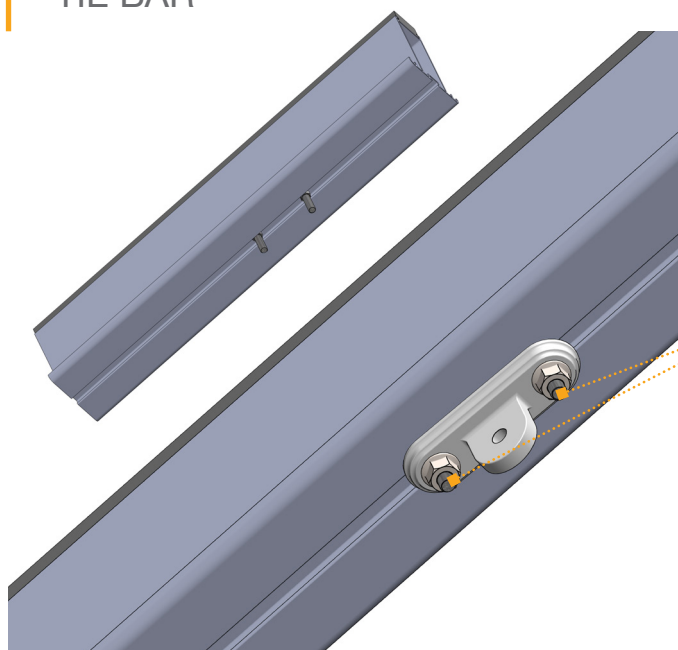


500MM RIDGE SUPPORT

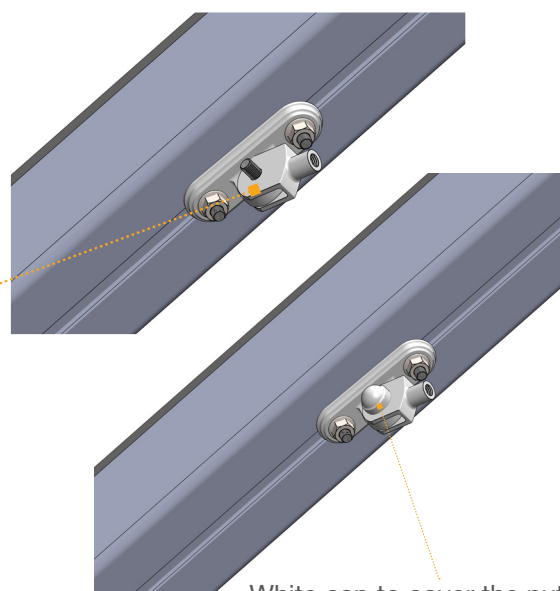
Need to be installed on every set of rafters



TIE BAR

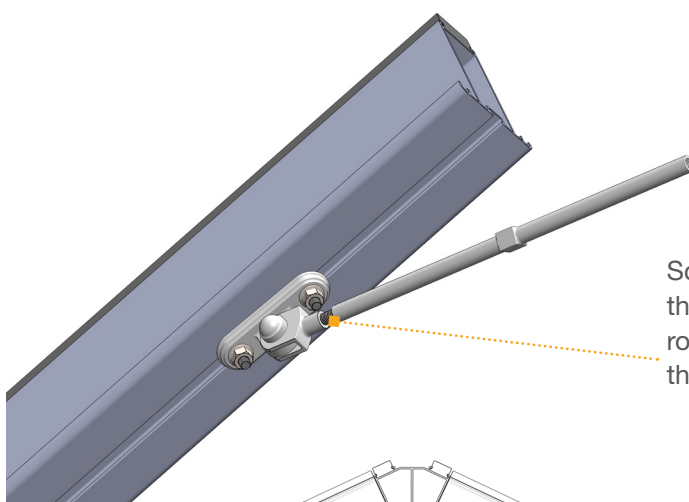


Insert 2 M8 bolts in the rafter channel and insert the clevis brackets into the M8 bolts, ensuring they are aligned correctly, and secure them using the appropriate nuts.

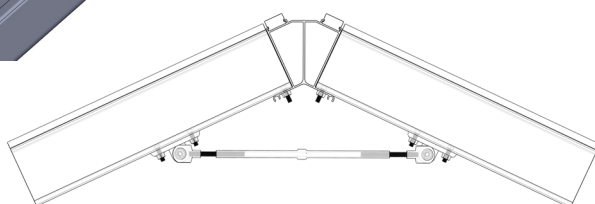


Insert the central pivot arm that the tie bar will attach to on the bracket and secure with an M8 bolt and nut, followed by the white caps.

White cap to cover the nut

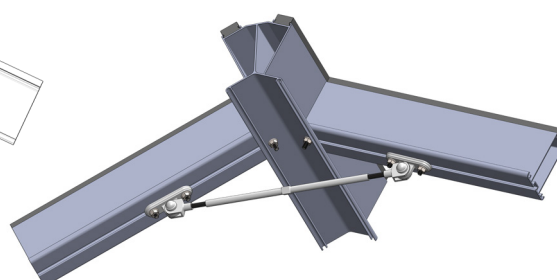


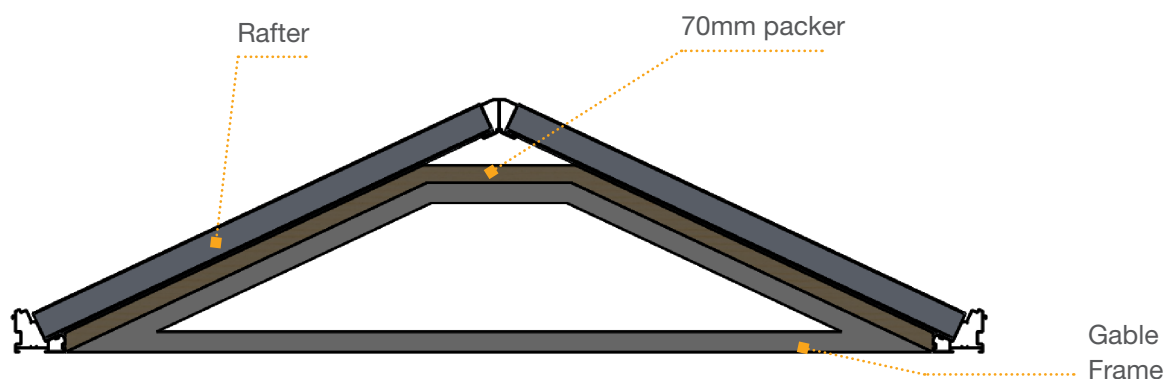
Screw the tie bar into the pivot arm. After the tie bar is secured on both sides of the roof, the tension is created by tightening the nuts on the clevises.



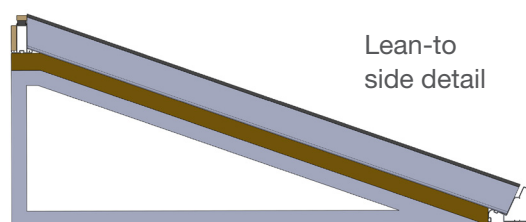
Once you remove the acro stands from the ridge, the tie bar will tension fully.

Illustration purposes only. The tie bar will sit further down the rafter.

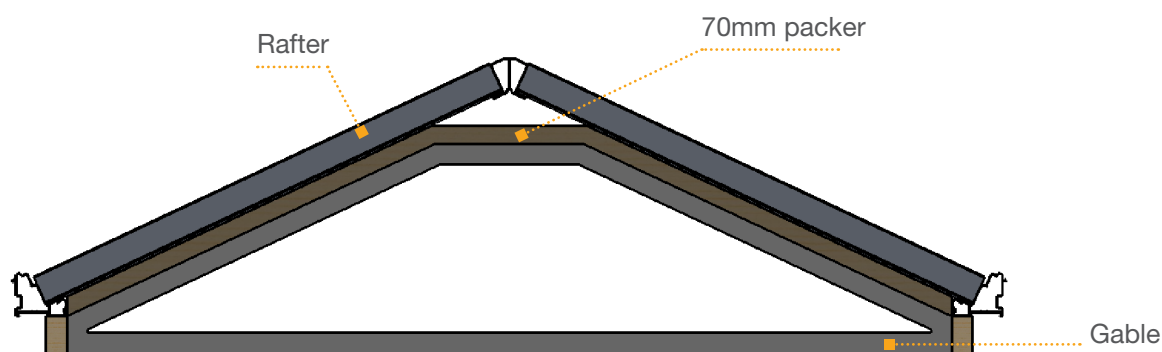




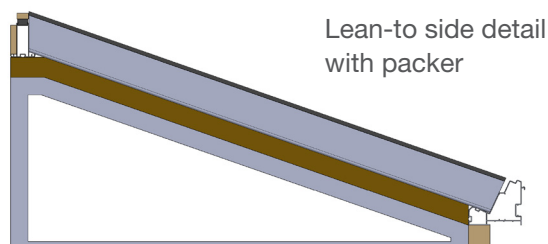
The Gable above shows a standard gable to suit a Supalite Roof. This is made to a point with the eaves beam fitted directly to the top of the 70mm packer. The gable will leave a 70mm void between the gable and underside of the rafter. You will need to fill in with frame extenders or timber. The reason for this is to stop the plasterboards and plaster impeding in the glass line.



Both options are available, with no need to replace frames if principles of either option are adhered to.

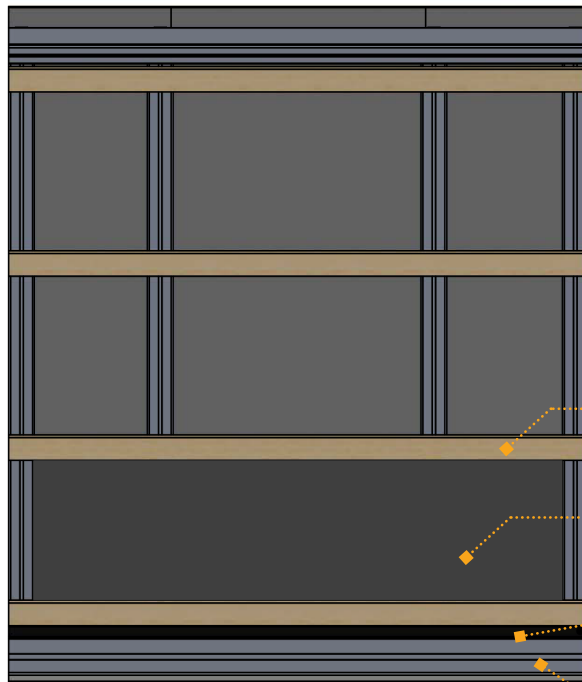


Where a gable frame has an upstand, the eaves beam will need to be packed up by the upstand height. This would therefore make the eaves beam sit at the point where the upstand and the slope meet. This will leave a 70mm gap which will need to be packed out by 70mm with either frame extenders or timber. The reason for this is to stop the plasterboard and plaster impeding on the glass line.



72mm plasterboards supplied with timber battens as a standard on all SupaLite roofs.

When fixing the battens to the rafters ensure they are horizontal and not vertical



75x25 Kiln dried battens

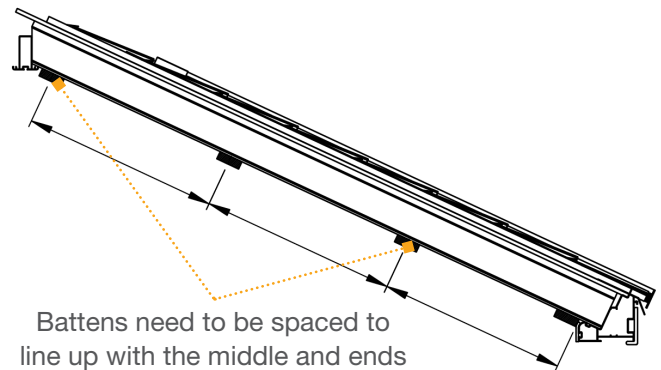
Additional 25mm insulation between battens

Please note the insulation goes between all battens

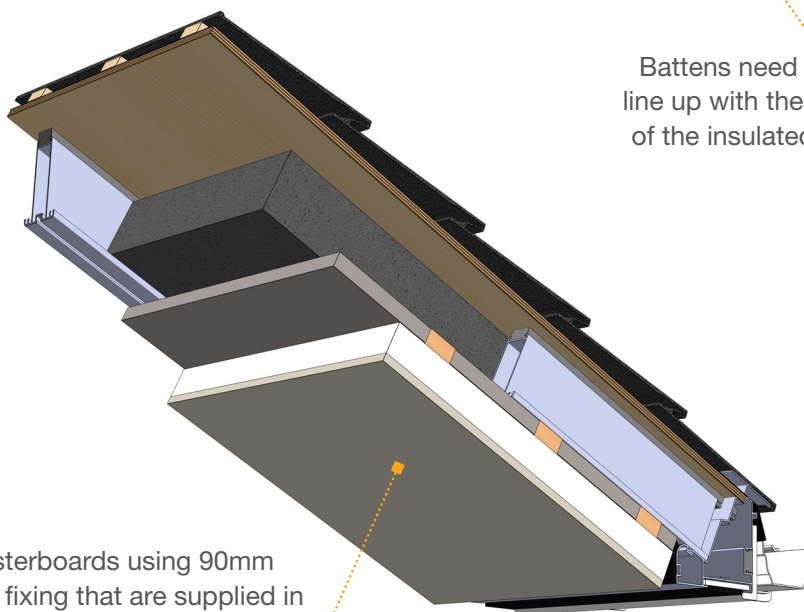
Eaves beam foam

Eaves beam

Batten spacings to incorporate a full insulated plasterboard from the eaves beam



Battens need to be spaced to line up with the middle and ends of the insulated plaster boards.



Fix plasterboards using 90mm drywall fixing that are supplied in the SupaLite fixing kit

Fix every 200mm

Any holes cut through the insulation for cabling must be filled and sealed once the cables are passed through.

It is an important factor to consider when installing ceiling lights into a SupaLite roof that the insulation is not cut or disturbed.

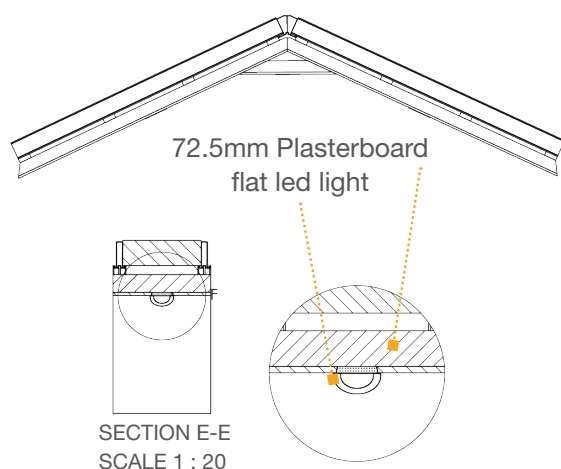
It is important to follow the guidelines set out below to ensure your lighting is installed correctly.



SUPALITE RECOMMENDS

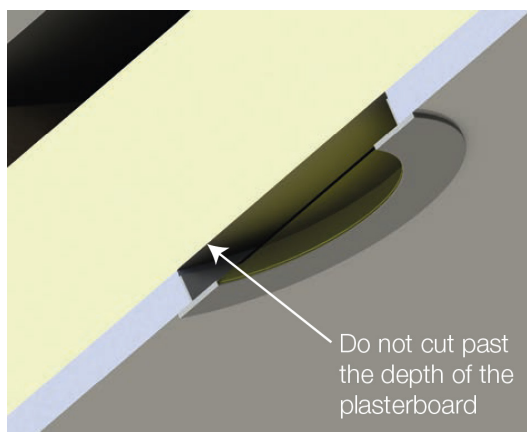
When installing lighting into the slope of the roof, only use low profile ($\leq 12\text{mm}$) low voltage lighting. This will allow the fitting to be recessed into the plasterboard without disturbing the insulation.

It is acceptable to install standard light fittings into the ridge board of the roof providing that the insulation in the slope above is not disturbed.



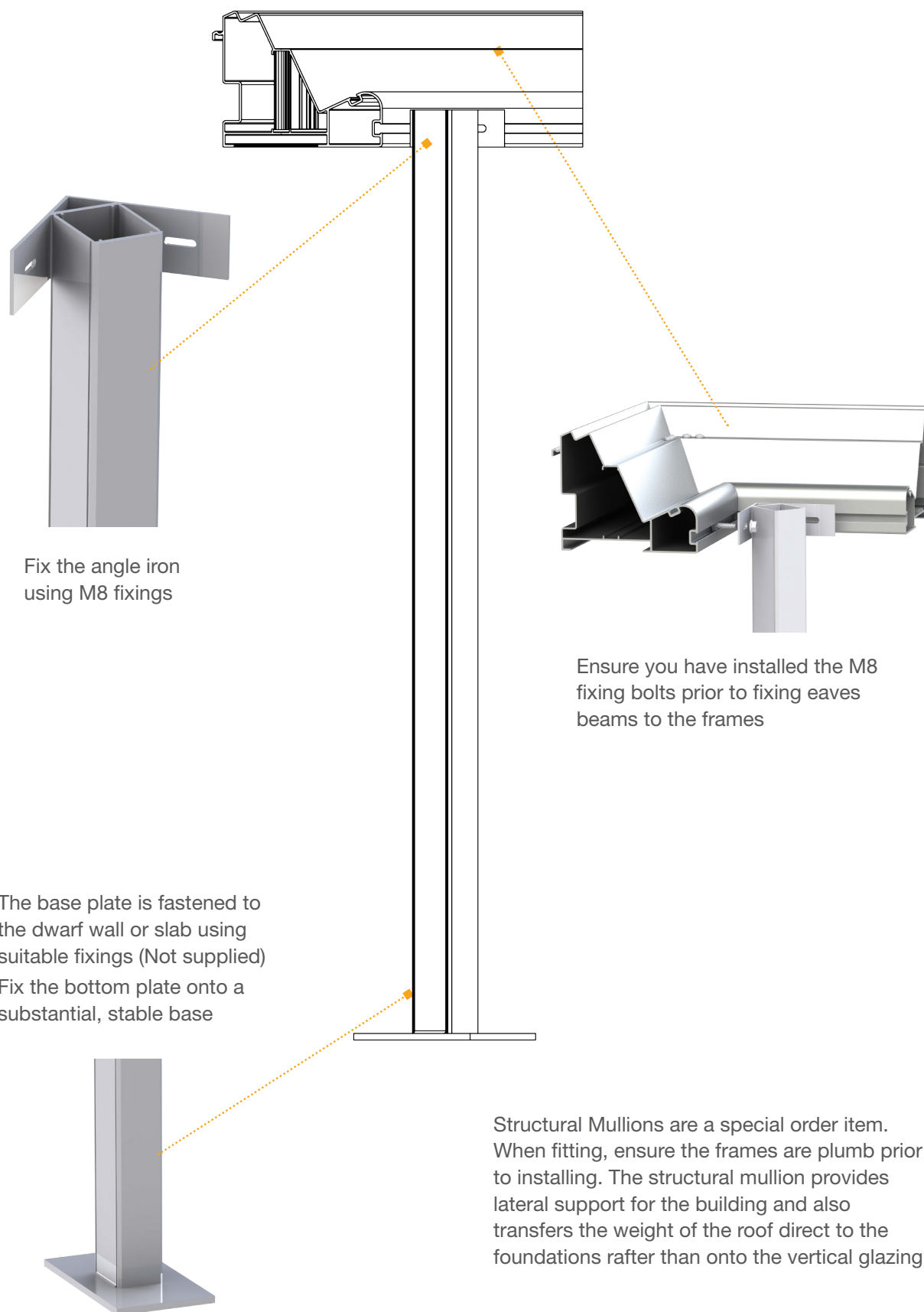
These guidelines **MUST** be followed in order to be fully compliant with building regulations

- Do not cut or disturb installed insulation;
- Fit deep LED or GUD into the ridgeboard only;
- Install only low profile LVL lights into the slope;
- Building regulation guidance **MUST** be observed.



Please follow the illustrations shown above for SupaLite's recommended fitment of lighting. Seal the gap around the cables to stop warm air entering the roof space.

Supalite recommend that structural Mullions are specified on all roofs with elevations over 4000mm



ENGINEERING SIMPLICITY & PERFORMANCE



CORGI Certification

SupaLite are the first tiled roof company to be assessed and issued with membership of the respected CORGI Fenestration scheme for supply chain quality and continuity.

www.supaliteroof.co.uk



Visit the
SupaLite
website



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