

## Orangery Highline Gutter & Internal Pelmet Installation Guide



Use in conjunction with main roof installation guide & roof layout drawing

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## Precautions

It is recommended that protective gloves are worn.

We recommend using the following Personal Protective Equipment where required:

Safety glasses and hearing protection when drilling.

Dust mask if dust is likely to be generated.

Under no circumstances should you venture onto the roof panels of a conservatory. If access above a conservatory is required, special precautions in line with current health and safety regulations need to be taken.

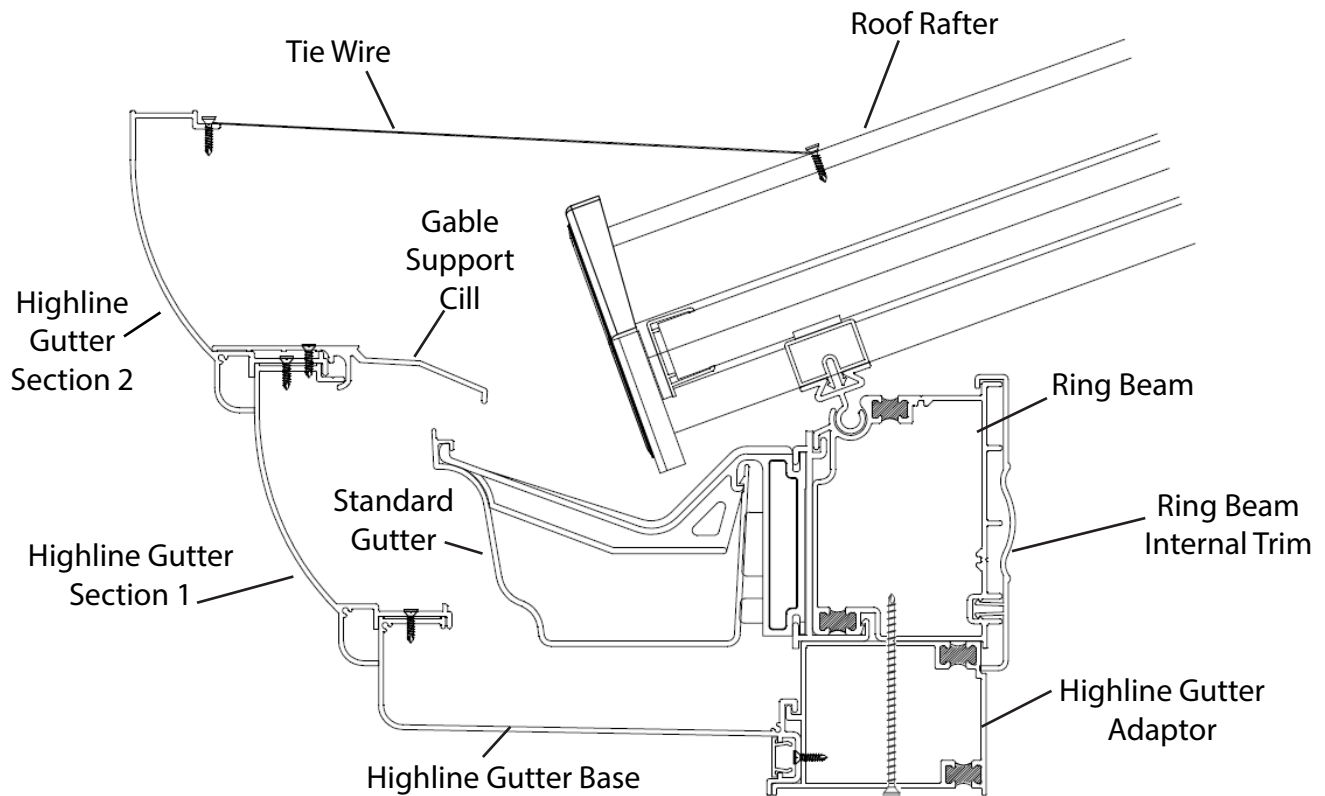
## Recommended materials and accessories

All fixing bolts, screws, glazing packers, brick slip adhesive, brick slip mortar and SMX Roof Glass Silicone is provided. (If the conservatory has self cleaning roof glass we supply a specialised silicone that does not damage the self cleaning coating on the glass units).

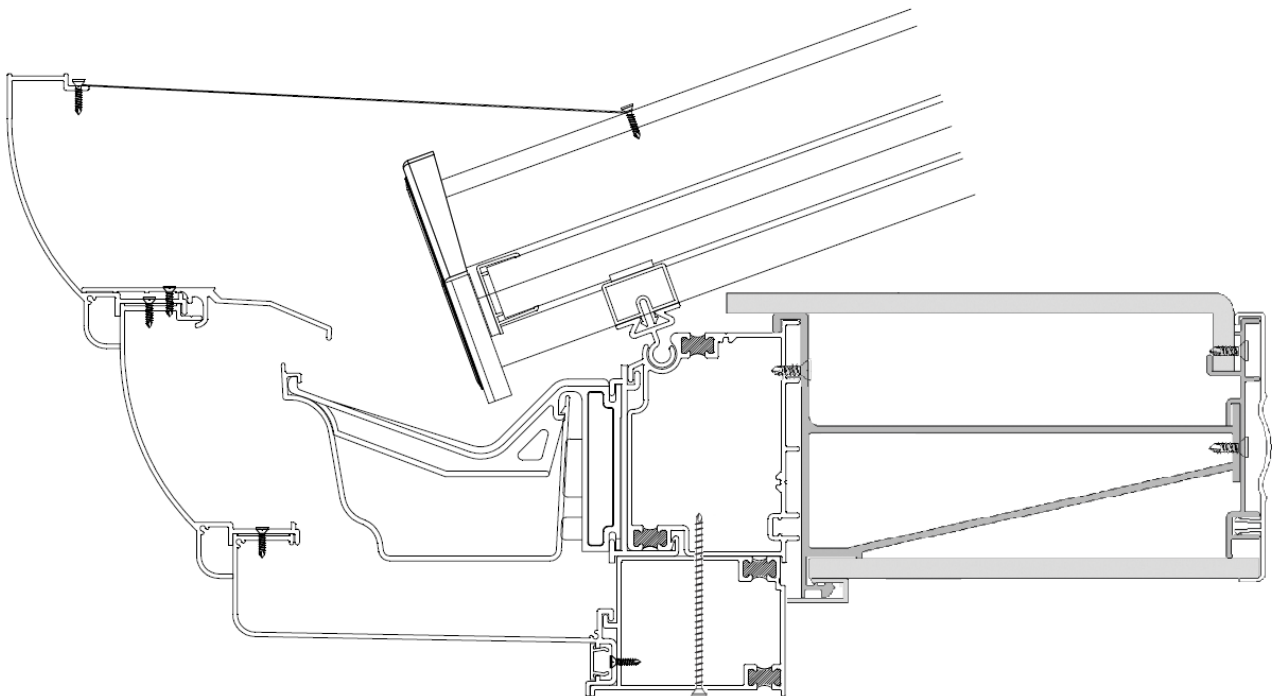
	Base	Frames	Roof
<b>Sealants</b>			
Silicone (Clear for sealing between & under wall boxes - colour of choice for required frame finish).	✓	✓	✓
Lead Sealant - (Sand and cement if pointing the lead work).			✓
<b>Building Materials &amp; Accessories.</b>			
Foundation Blocks - 440mm x 215mm x 355mm.	✓		
Post crete - 2 x Bags per pad.	✓		
Code 4 Lead (Size & Length to suit the job)			✓
Rubble bags to remove waste.	✓	✓	✓
Roll of visqueen - To protect the finished floor.	✓		
Timber (Lean To Only) 50mm x 50mm to be used.			✓

Recommended tools and equipment	Base	Frames	Roof
<b>Power Tools</b>			
SDS Drill	✓	✓	✓
Impact Driver or Cordless Drill.	✓	✓	✓
Circular Saw. (For cutting the chipboard flooring).	✓		
4" Angle Grinder. (Mortar cuts for lead work).			✓
Breaker/ Kango. (Only required if you are breaking through concrete for required pads)	✓		
<b>Hand Tools</b>			
Spanner Set.	✓		
Socket Set.	✓		✓
1800mm Spirit Level.	✓	✓	✓
600mm Spirit Level.	✓	✓	✓
Hand Saw. (To cut insulation sheets - long craft knives can also be used).	✓		
Marker Pen. (To mark out the insulation cuts).	✓		
Tape Measure.	✓	✓	✓
Glazing Mallet.		✓	
Glazing Paddle.		✓	
Silicone Gun.	✓	✓	✓
Sharp putty knife or similar. (For removing frame glazing beads).		✓	
Lead Beater.			✓
Small trowel and pointing tool. (For pointing brick slips).	✓		
Spade.	✓		
Wheelbarrow.	✓		
Pick. (If you need to break up any difficult terrain).	✓		
G-Clamps. (To secure frames / ring beams / corner posts etc. when fixing.)		✓	✓
<b>Accessories</b>			
8mm SDS Drill Bit. (For securing base sections to the house wall).	✓		
6.5mm SDS Drill Bit. (For securing wall boxes / windows / wall plates to the house wall).	✓	✓	✓
4mm HSS Drill bits. (For securing wall boxes and flooring - Multiple required).	✓		
T30 Torx Bits. (For direct to brick fixings).	✓	✓	✓
Pozi Drive Bits.	✓	✓	✓
53mm hole cutter. (For downpipe spigot drill & fix adaptor.			✓
PVA Glue. (Gorilla Glue or similar for floor joints).	✓		
Solvent Cleaner. (NOT to be used on foiled frames or any self cleaning glass).		✓	✓
Glass Cleaner & Paper Tissue Roll.		✓	✓
Super Glue & Activator		✓	✓

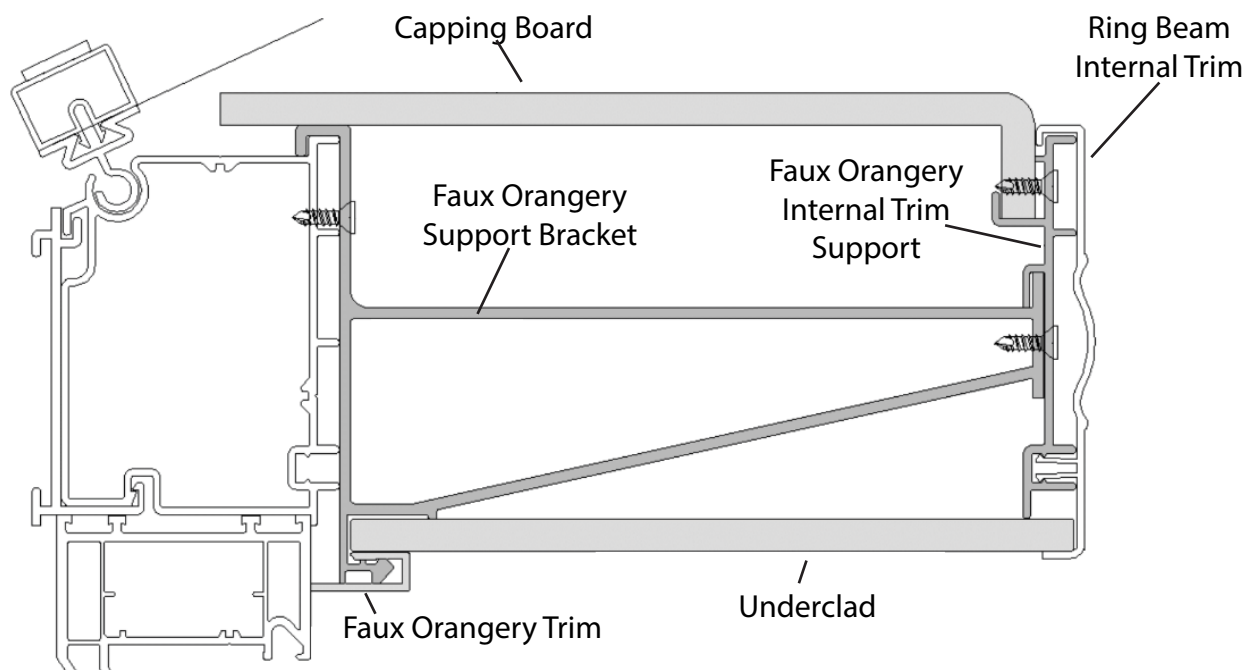
## Highline Gutter overview - No Internal Pelmet



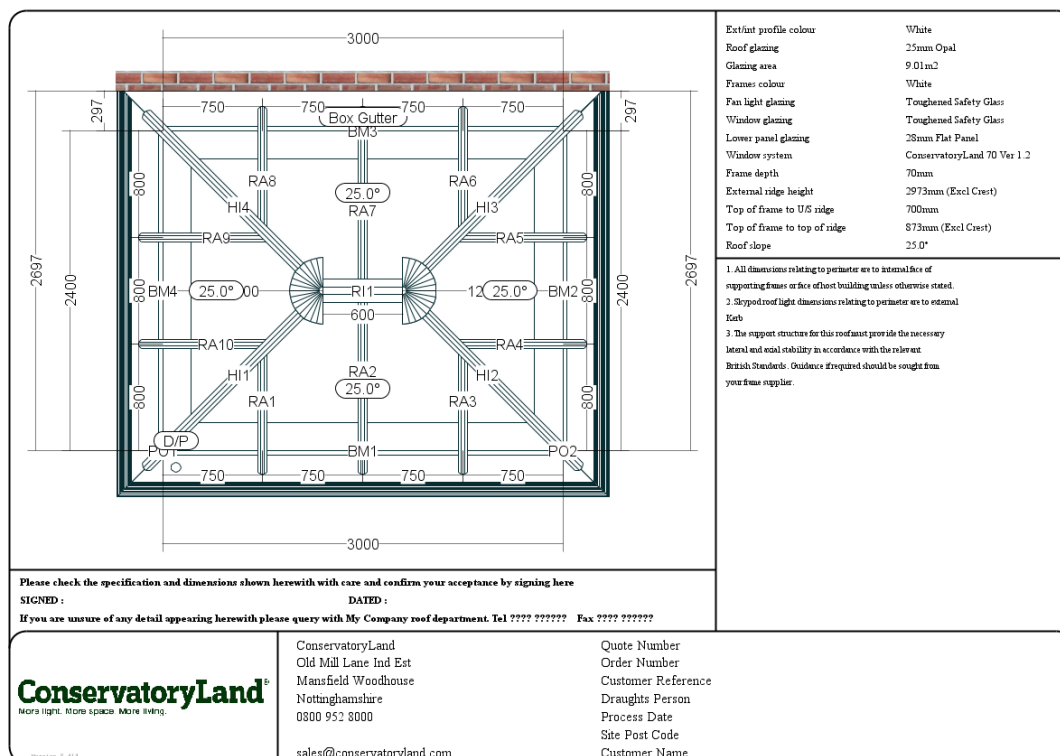
## Highline Gutter overview - With Internal Pelmet



## Internal Pelmet overview



## Instruction drawings required



Refer to your roof plan that you used to build the main roof structure. The numbering for your Internal Pelmet parts are the same as the roof ring beams.

All roof components including your box of ancillary, gutter & fixings will have blue tape on them.

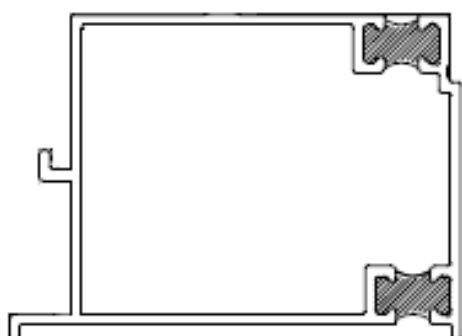
## Summarised order of fitting

Below is a summarised order of the general stages of fitting the Decorative Highline Gutter, either with or without Internal Pelmet.

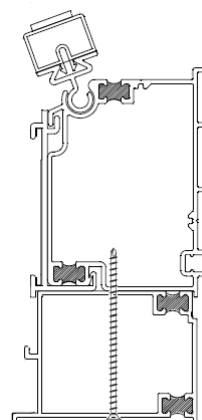
**IMPORTANT:** Stage 1 **must** be completed for all roofs with Decorative Highline Gutter **BEFORE** Building the main roof structure.

### Stage 1 - Attach The Highline Gutter Adaptor

1



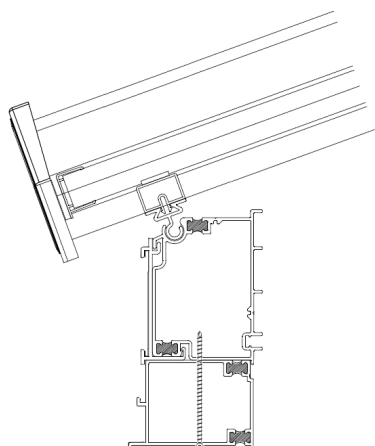
2



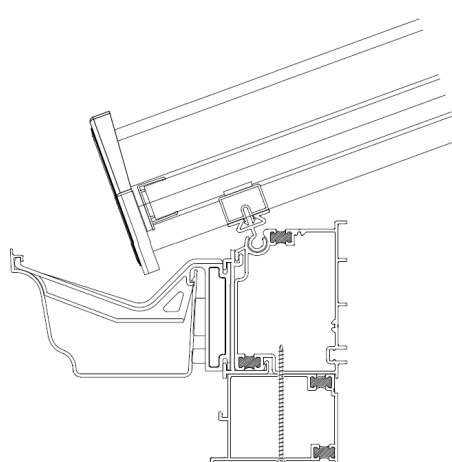
Identify the Highline Gutter Adaptor, And fix this to your ring beams using the fixings supplied. This **MUST** be done first to be able to install your Decorative Highline Gutter.

### Stage 2 - Complete your main Roof Structure & Standard Gutter

1



2



Now you will need your main Roof Structure Installation Guide for the style of roof you are building. Follow the installation guide to complete the installation of the main structure, Including the Standard Gutter, but do not fit your downpipe at this stage.

Once the main roof structure is complete, resume using this installation guide to install your Highline Gutter from Stage 3.

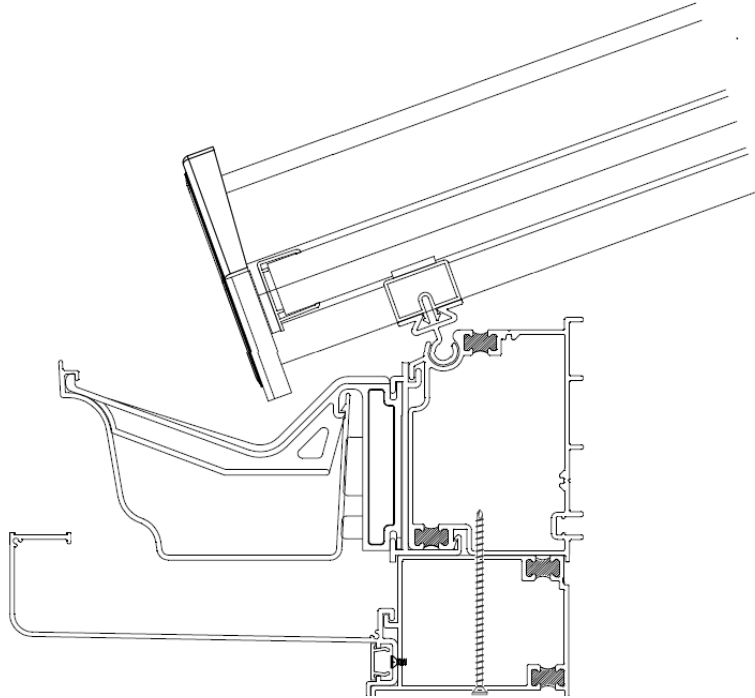
Following the Highline Gutter installation guide you can use Stage 4 to complete the Internal Pelmet if your roof includes it.



## Summarised order of fitting - continued

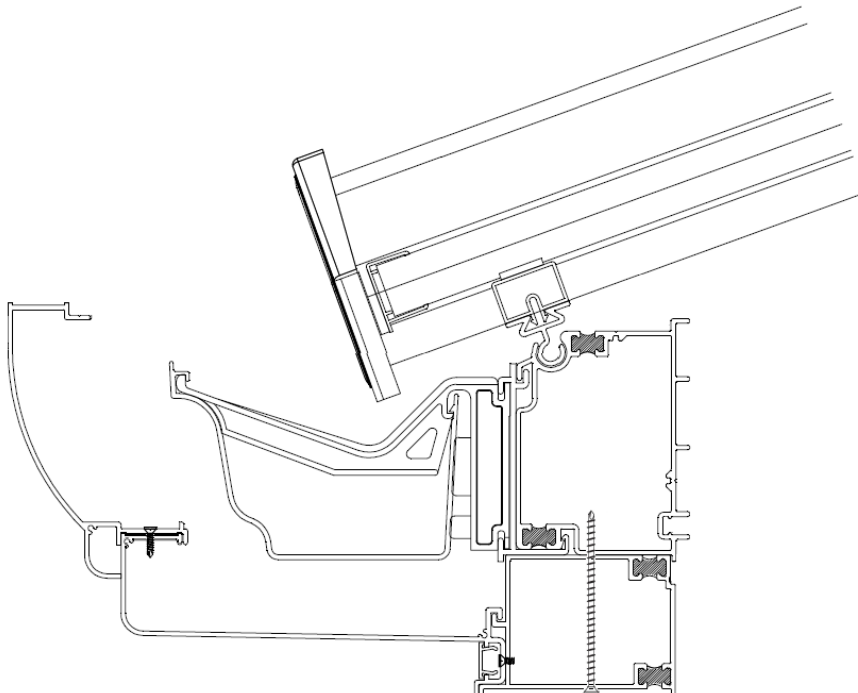
### Stage 3 - Highline Gutter Installation

1



Fit the Highline Gutter Base

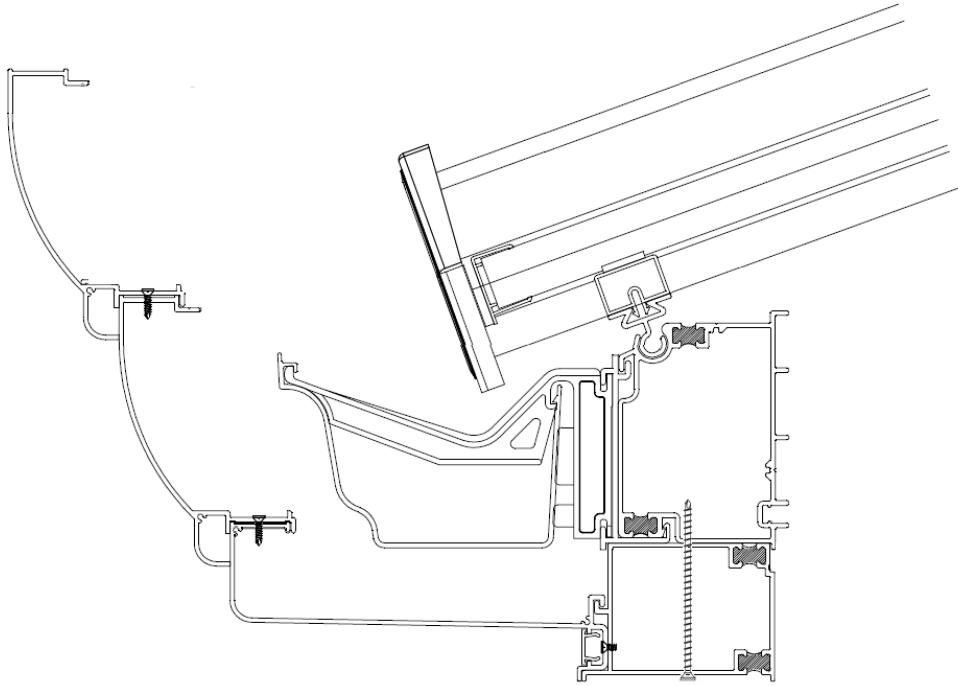
2



Next fit the Highline Gutter Section 1

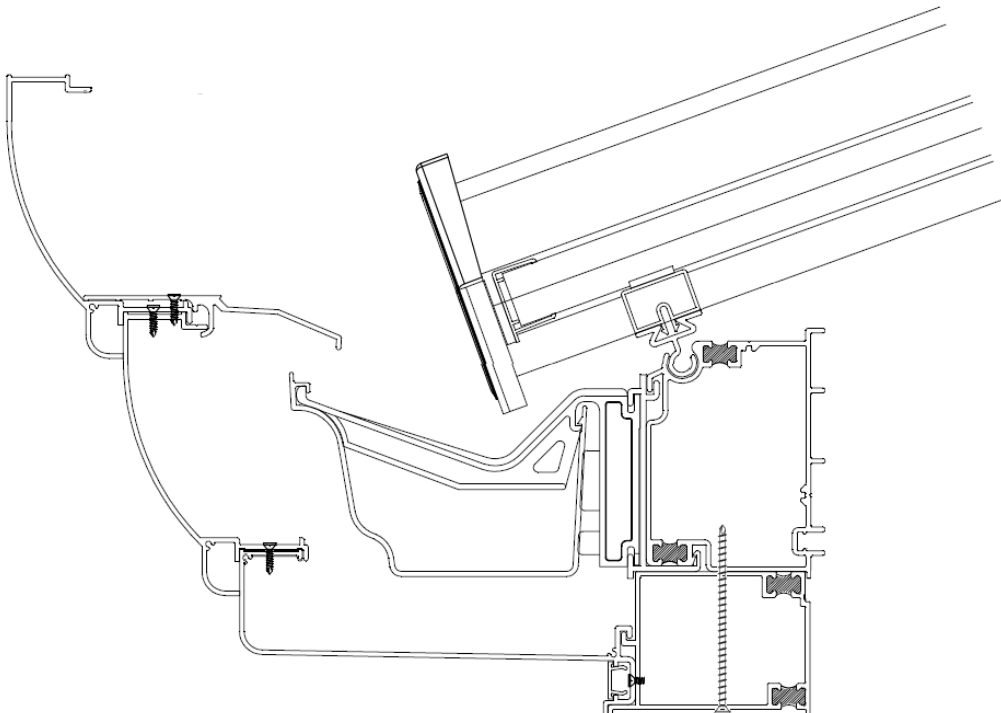
## Summarised Highline Gutter Installation - continued

3



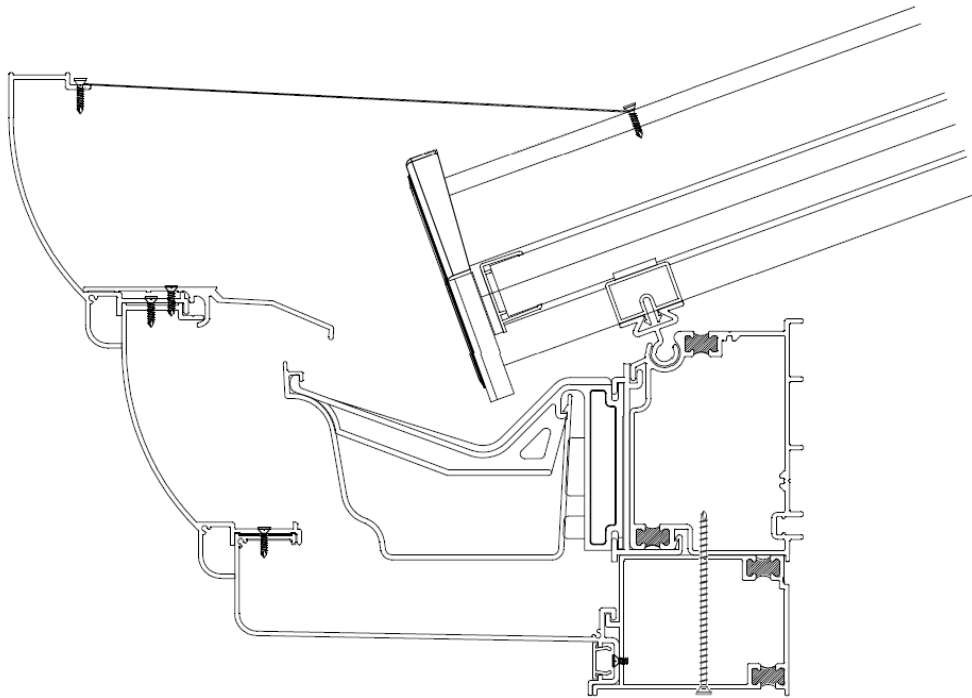
Fit the Highline Gutter Section 2

4



Next fit the Gable Support Platform





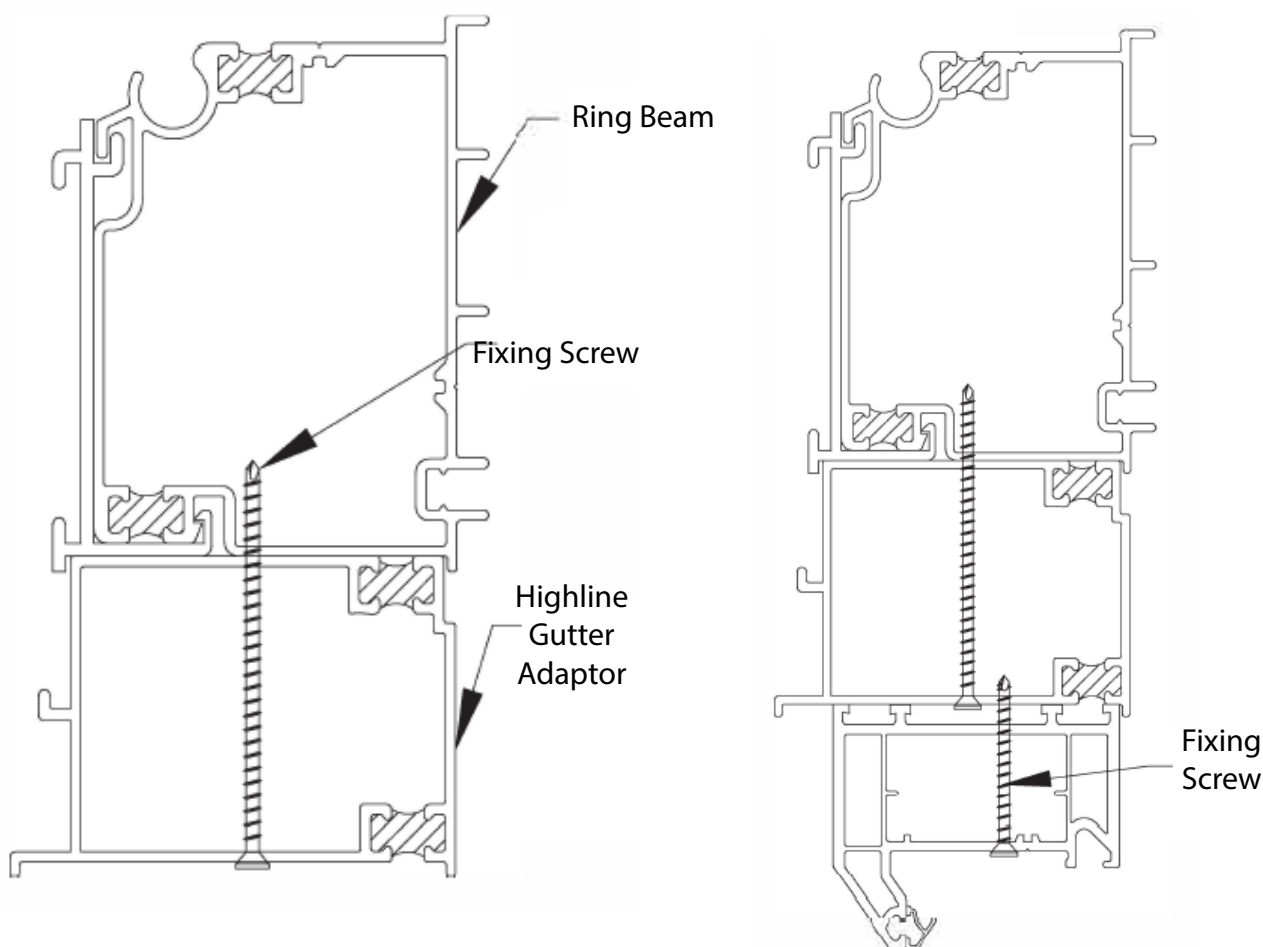
Finally fit the Tie Wires

That is the overview of the Highline Gutter installation complete. The Following pages show the installation in more detail. After the detailed Highline Gutter installation pages, there are also instructions for installing the Internal Pelmet, if your order includes it.



See the following pages for more detailed guide

## Highline Gutter Installation -Highline Gutter Adaptor



Fix the Highline Gutter Adaptor to the Ring Beam by screwing up through the adaptor into the Eaves Beam at 500mm centres.

Move the Highline Gutter Adaptor & Ring Beam into position onto the frames and fix up through each frame into the adaptor using the 70mm self drilling screws. Use 2 per frame / door sash, or a maximum of 500mm centres. Do not fix within 150mm of any corner weld on your frames.

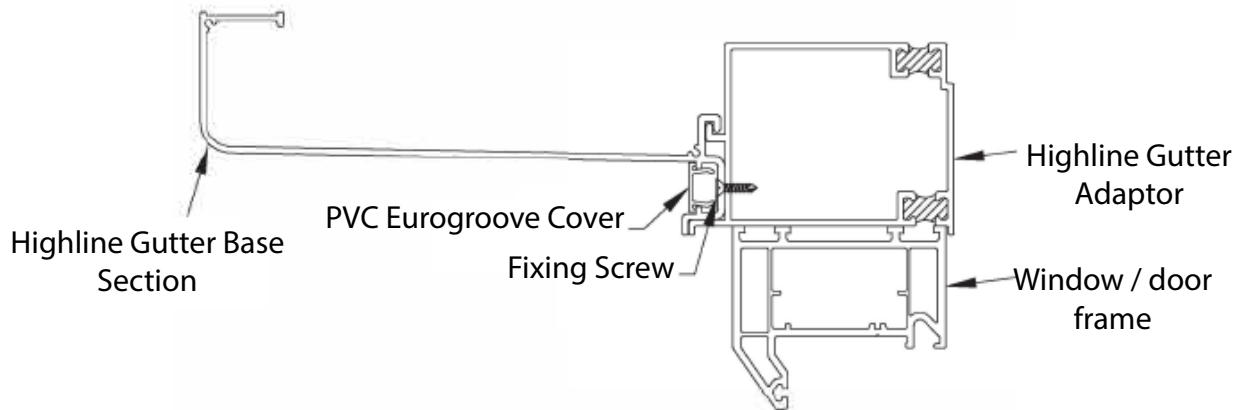


### IMPORTANT

Now follow your main Roof Installation guide to complete the roof structure, and install the standard PVC gutter before returning to this instruction to complete the Highline Gutter.

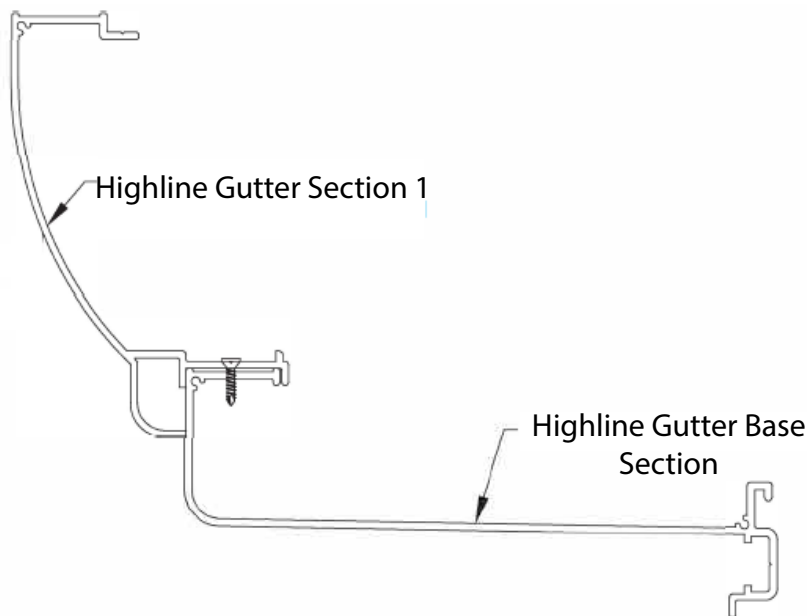
The two examples shown on the left are the Edwardian & Hipped-back Edwardian installation guides. The correct one for your roof will have been emailed to you, or are available on our website at [www.conservatoryland.com](http://www.conservatoryland.com)

## Highline Gutter Installation -Highline Gutter base section

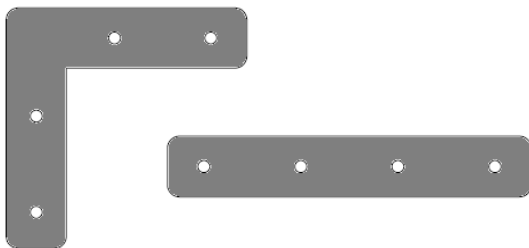


Once the Highline Gutter Adaptor and Ring Beams are in position, hook the High line Gutter Base section to the Highline Gutter Adaptor as shown, and fix at 300mm centres using the screws provided. Once screwed into position cover with the PVC eurogroove cover to hide the screws.

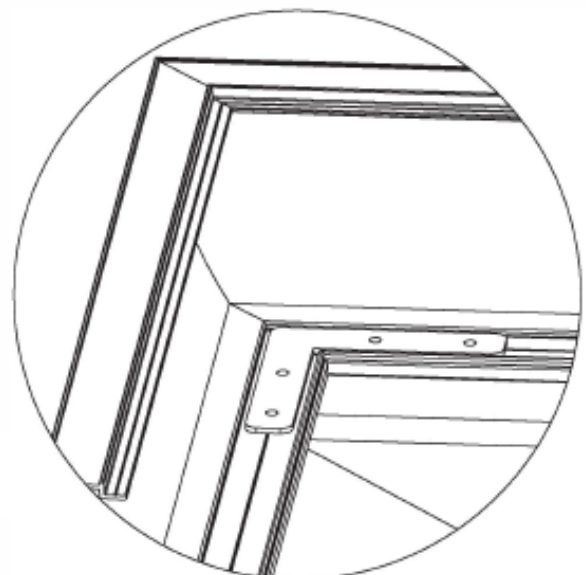
## Highline Gutter Installation -Highline Gutter section 1



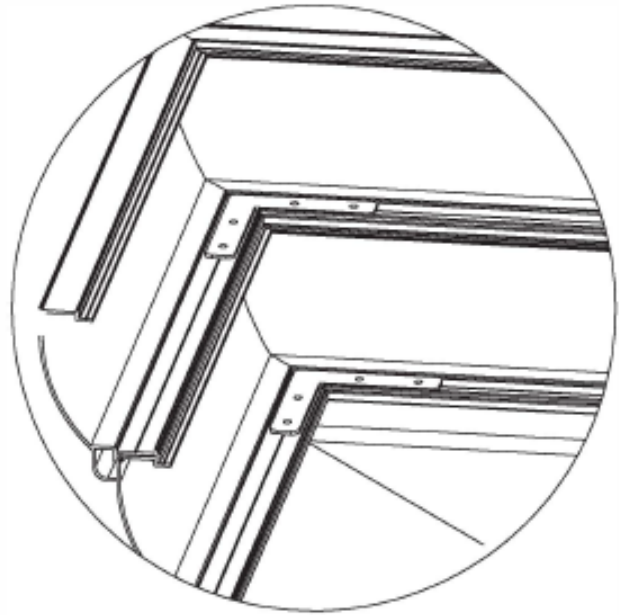
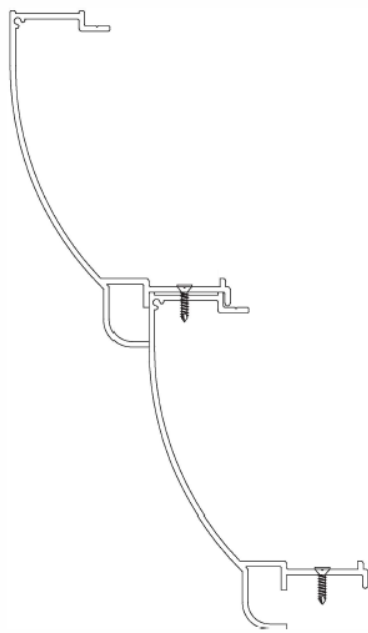
Locate the Highline Gutter Section onto the Highline Gutter Base Section and fix at every 300mm centres.



Use the 90° cleats provided to fix the gutter sections together at the corners on the inside, or use the 180° straight cleats if you have any straight gutter sections that require joining.



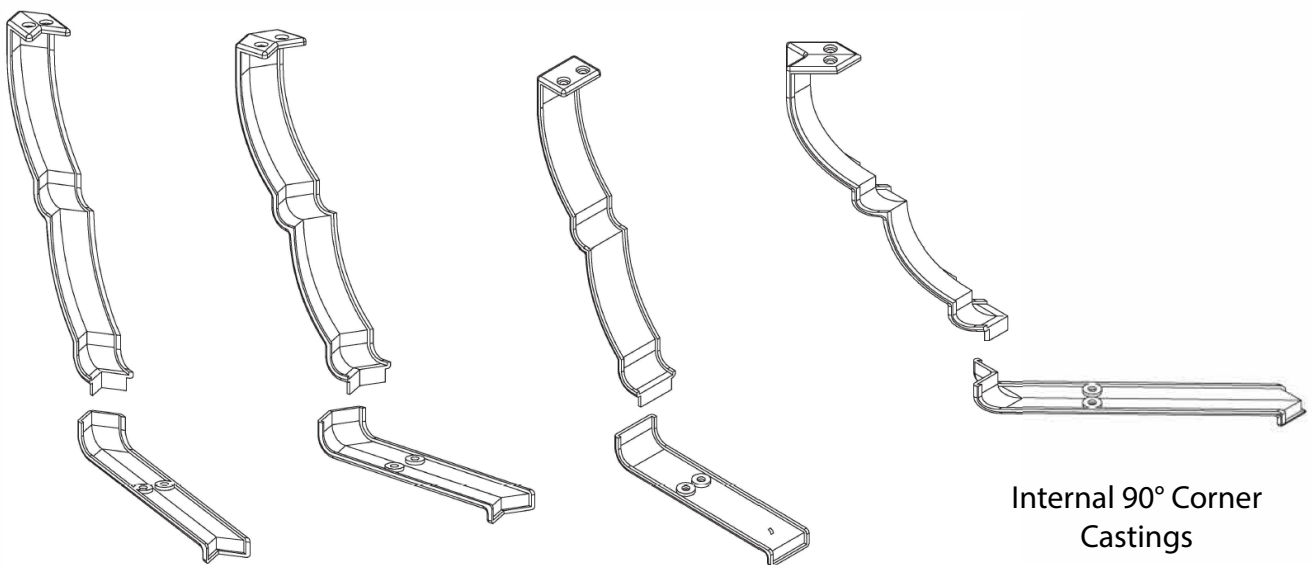
## Highline Gutter Installation -Highline Gutter section 2



Fix the second section of Highline Gutter to the first at 300mm centres with the screws provided. Again use cleats on the corners or any straight joints to the inside of the gutter as shown above right, and as the previous step.

## Highline Gutter Installation -External corner/ straight joints

With the main Highline Gutter sections in place, it is time to secure the corners or any straight joints on the outside. There are various castings, identify the correct ones that have been supplied for your conservatory from the diagram below. Each corner or straight joint is supplied in 2 sections.



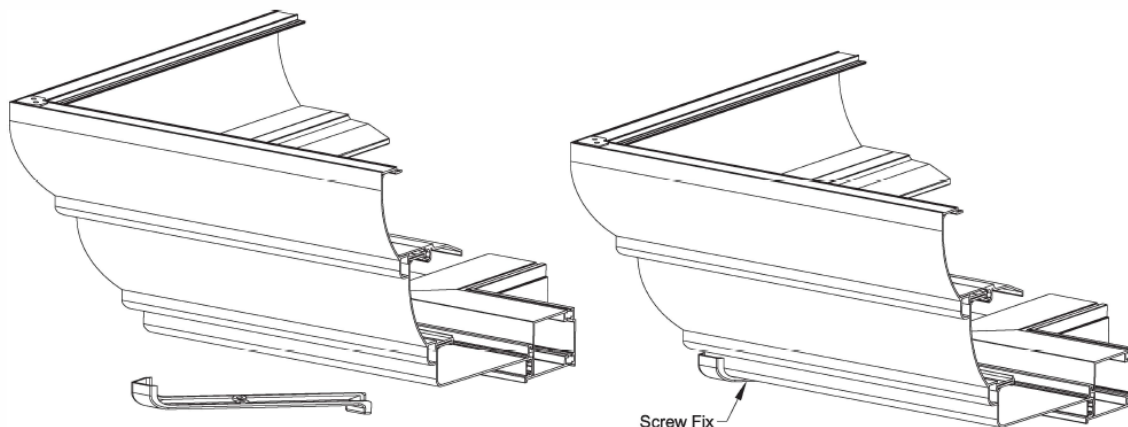
90° Corner Castings

135° Corner Castings

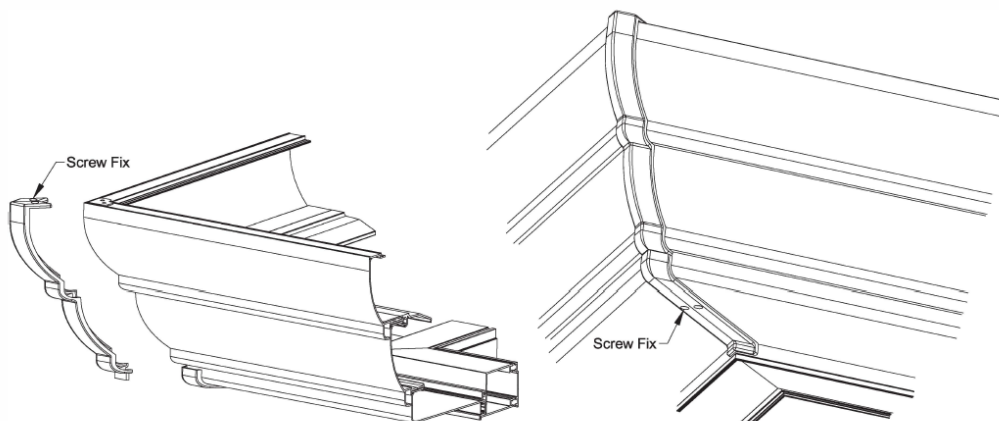
180° in-line / straight joint Castings

Internal 90° Corner Castings

## Highline Gutter Installation -External joints continued

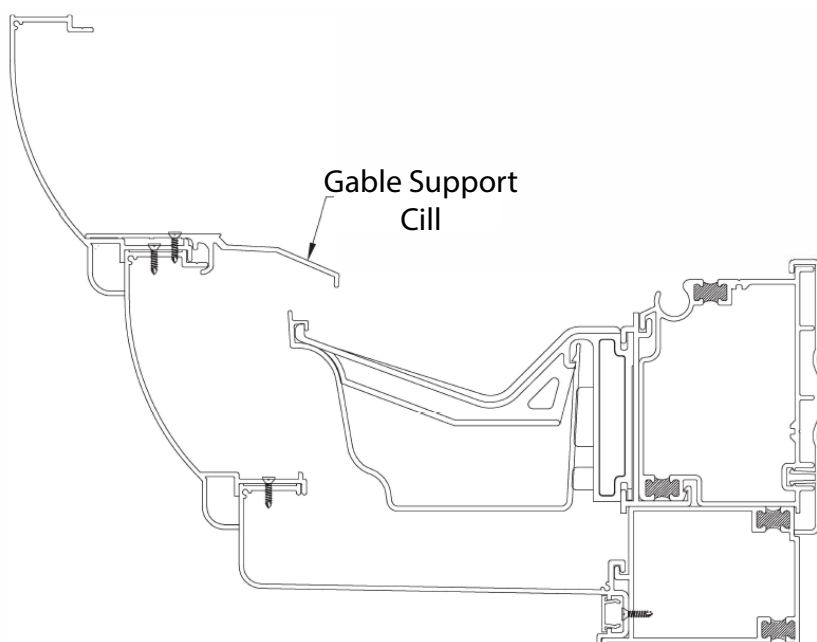


Fix the bottom section of the casting through the underside into the high line gutter base.  
The second part of the casting will fit over this section holding it in place.



Fix the top part of the casting, fixing down through the top into the highline gutter section.  
Use a 2mm thick washer between the casting and the highline gutter section.

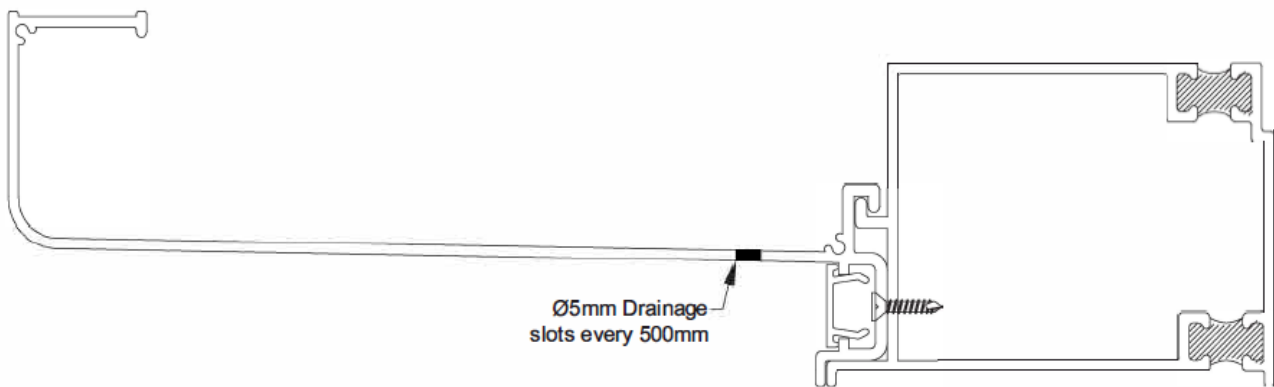
## Highline Gutter Installation - Gable Support Cill



To ensure any rainwater is directed into the standard gutter, locate and fix the gable support cill into the second section of Highline Gutter. This will act as a cill.



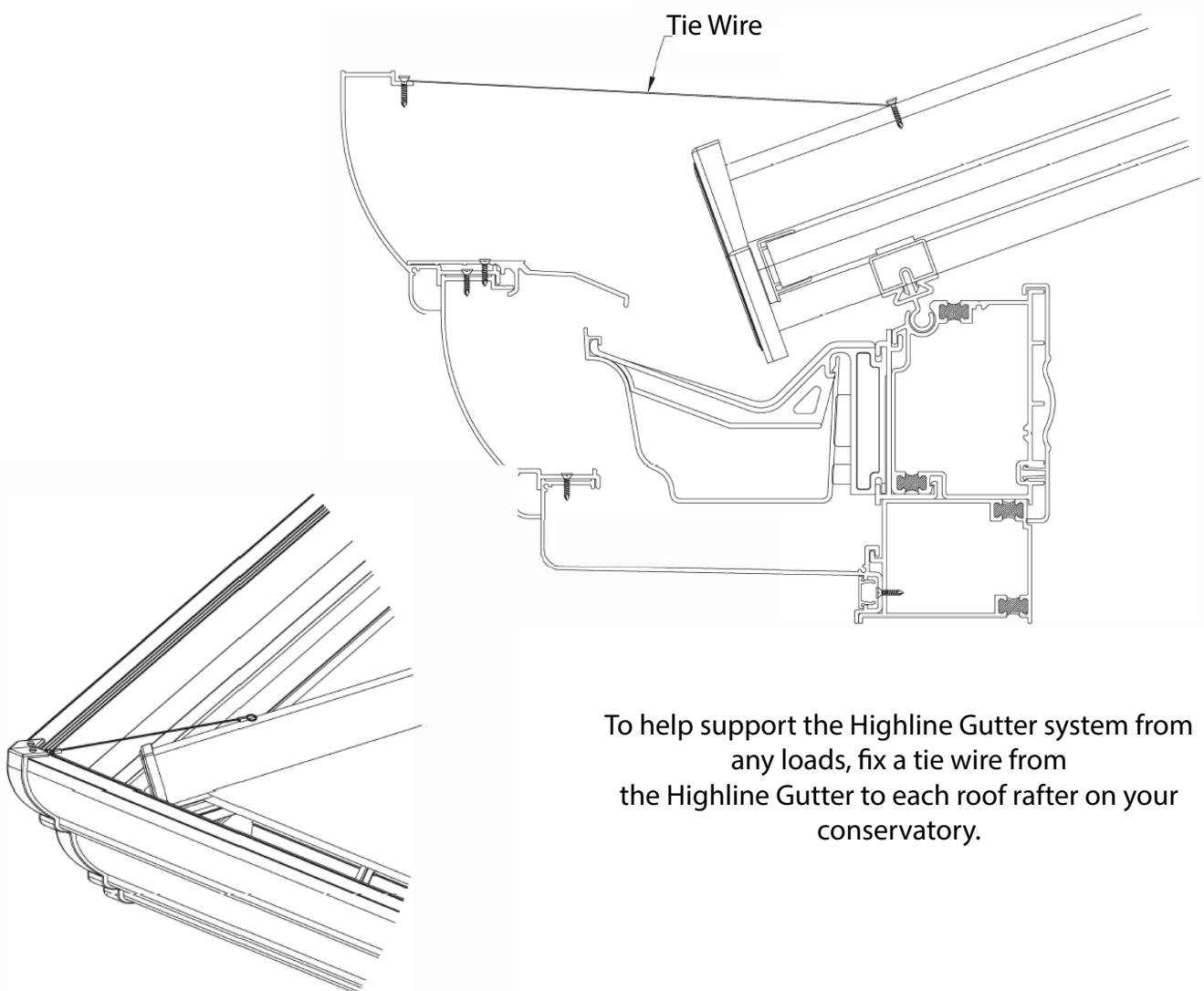
## Highline Gutter Installation - Drainage



### Drainage Details

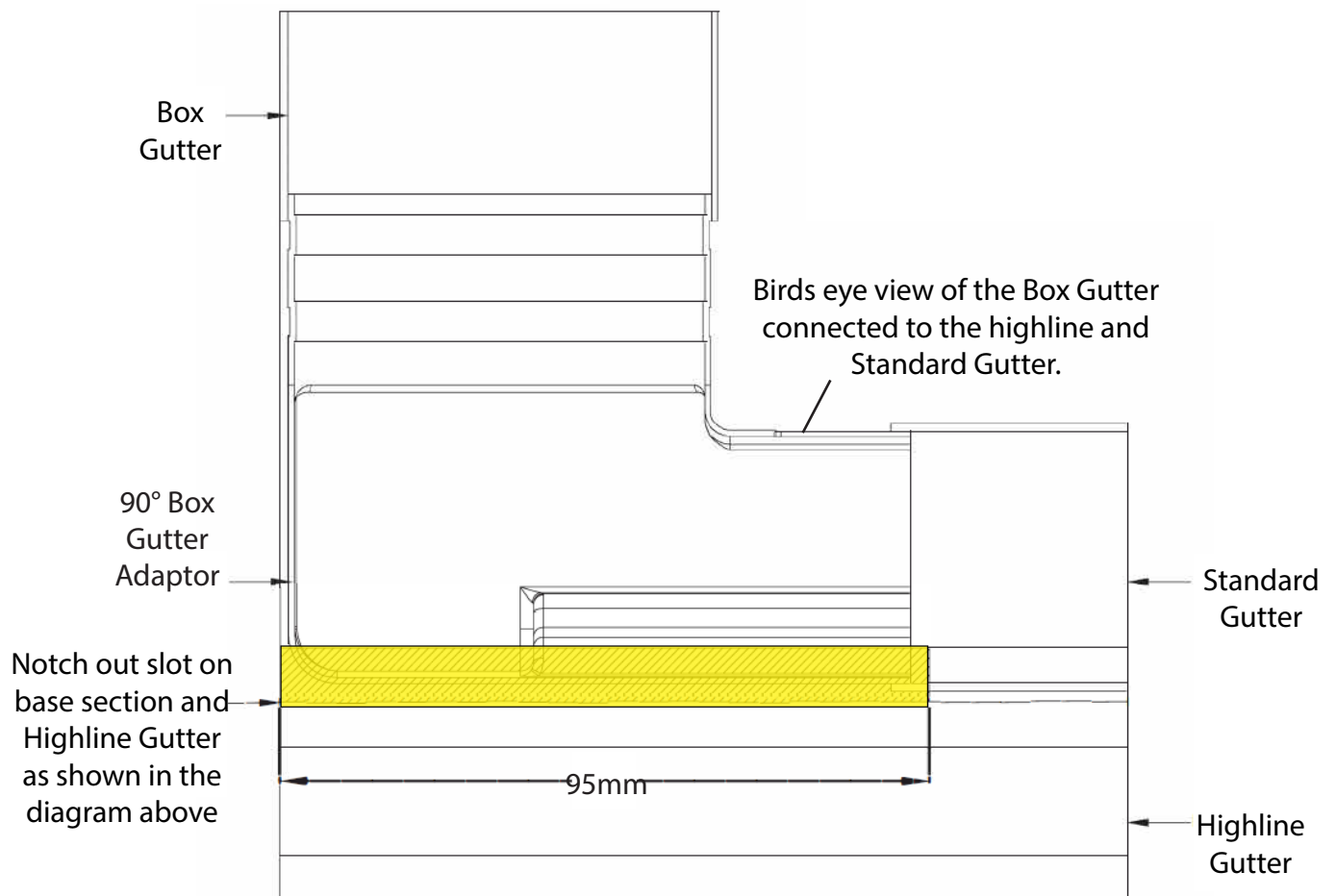
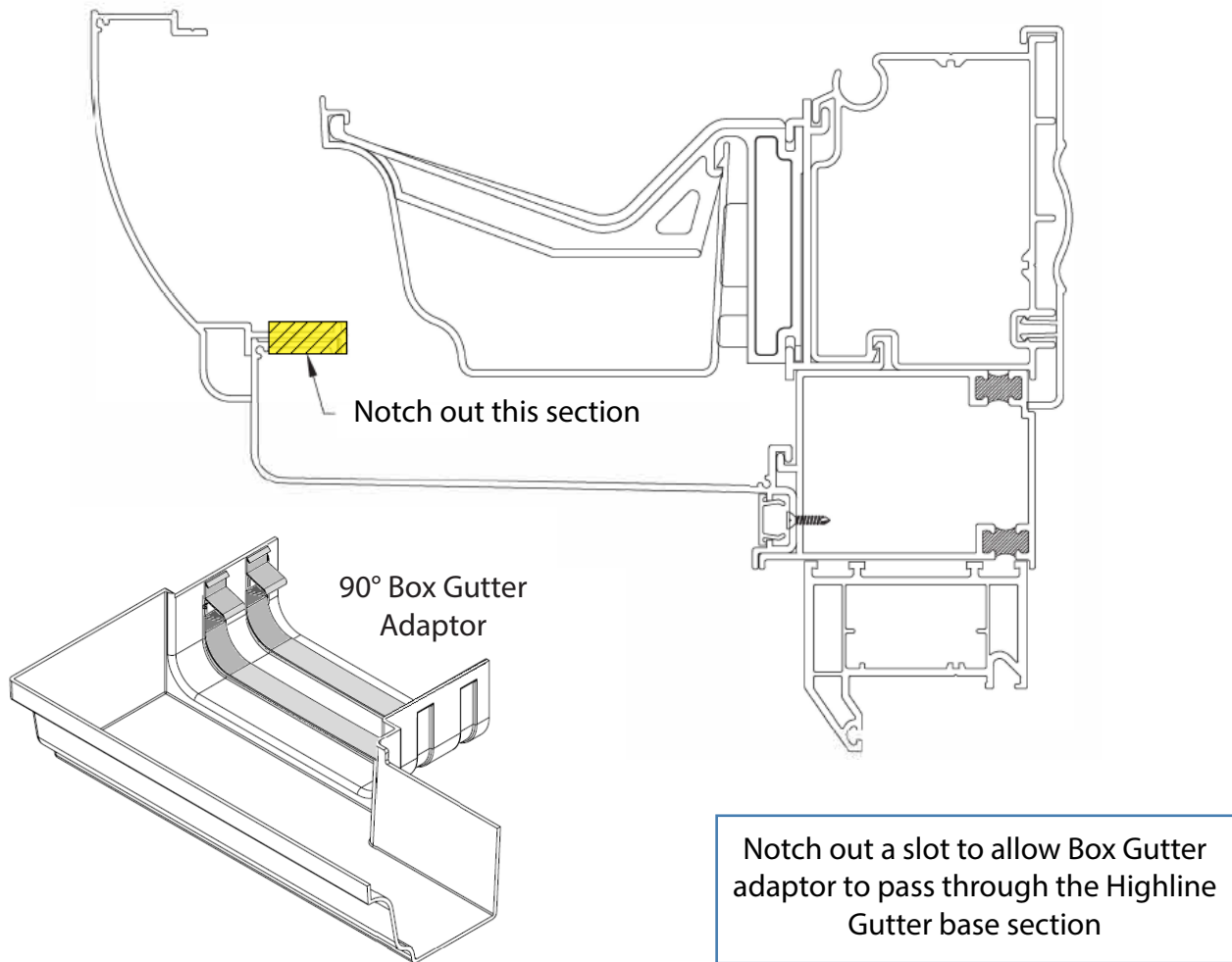
Drill 5mm drainage holes every 500mm in the Highline Gutter Base Section.  
PLEASE NOTE: do not drain above any doors on your conservatory.

## Highline Gutter Installation - Tie Wires



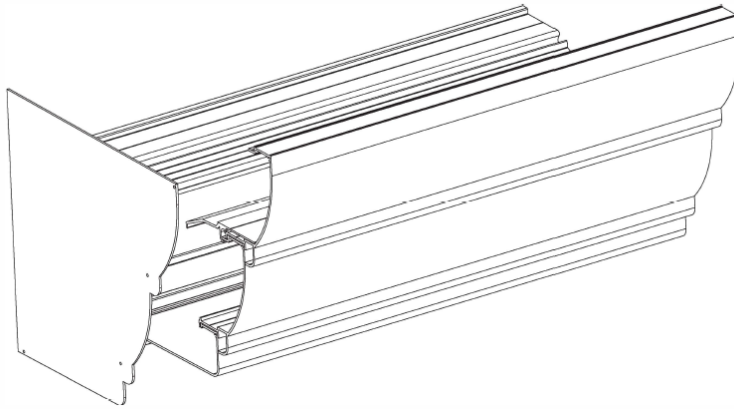
To help support the Highline Gutter system from any loads, fix a tie wire from the Highline Gutter to each roof rafter on your conservatory.

## Highline Gutter Installation - Box Gutter corners



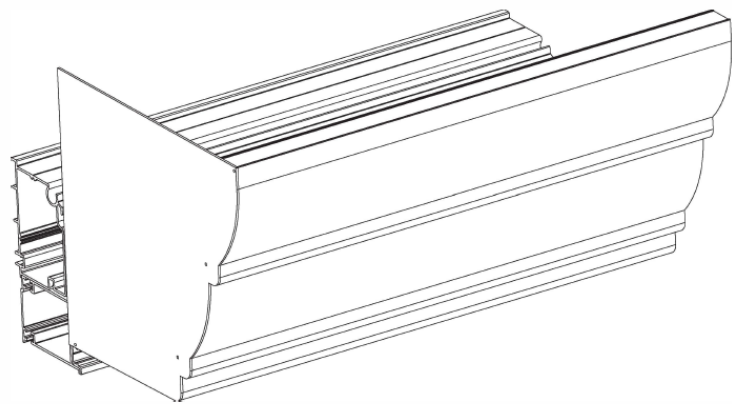


## Highline Gutter Installation - End Plate fixing details

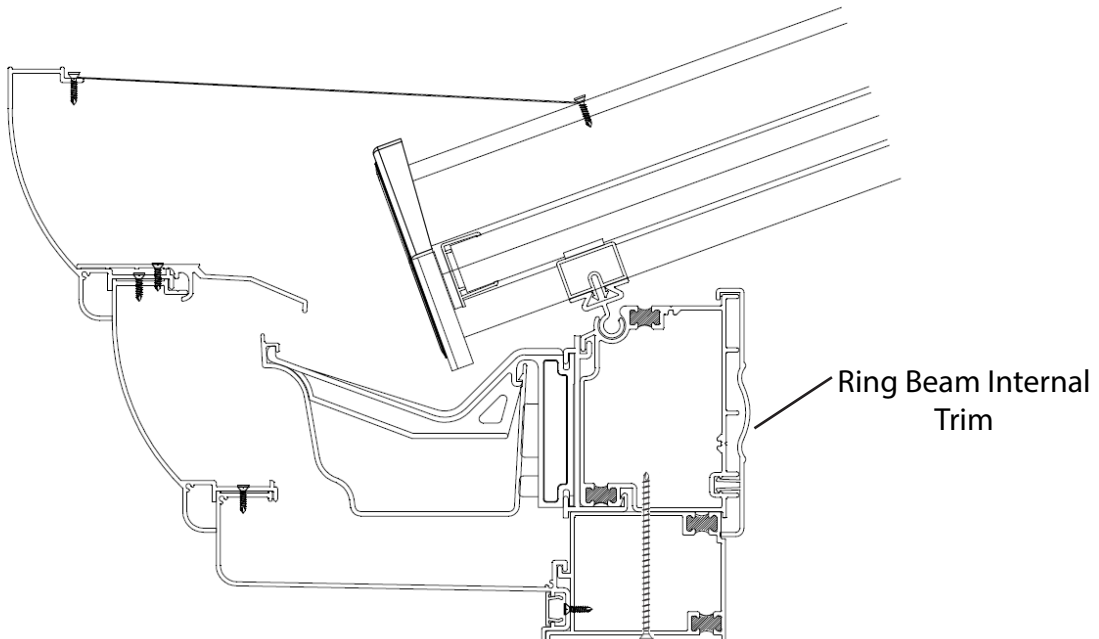


In some situations where the gutter protrudes beyond the wall, End Plates will be required to cap off the end of the Highline Gutter.

Fix End Plate to Highline Gutter sections into the screw ports on the gutter extrusions. Fix using 16mm Stainless Steel screws and screw cap covers.



## Internal finish - No internal Pelmet

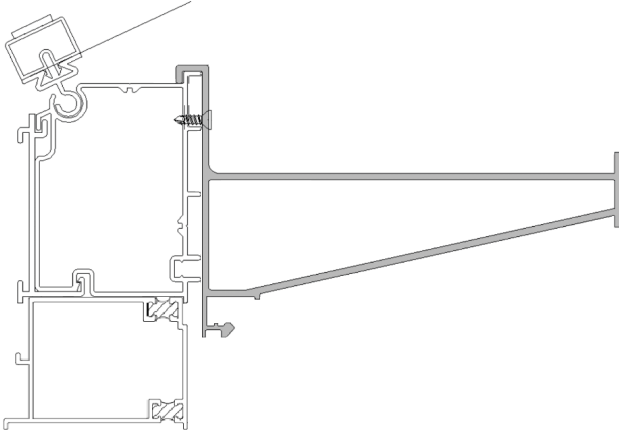


If the conservatory you have ordered does not have any Internal Pelmet, there are just the Ring Beam Internal Trims and Ring Beam Cover Joints to install. Please see the Installation Guide you used for the main roof structure. If your conservatory has Internal Pelmet, please see the following guide.

## Summarised order of fitting

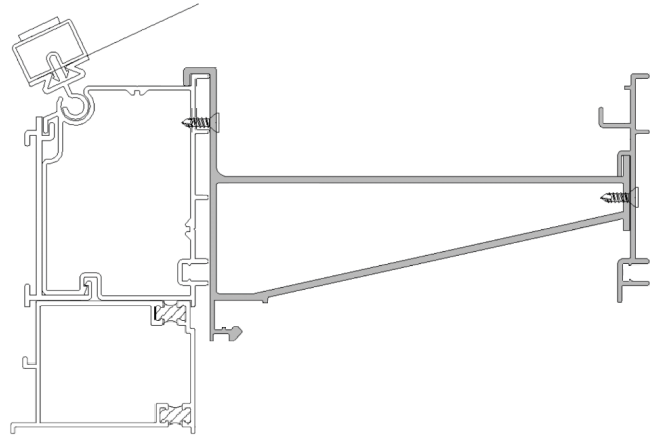
Below is a summarised order of the general stages of fitting the pelmet. The left side shows Internal Pelmet only, the right shows Internal Pelmet with Decorative Highline Gutter.

1



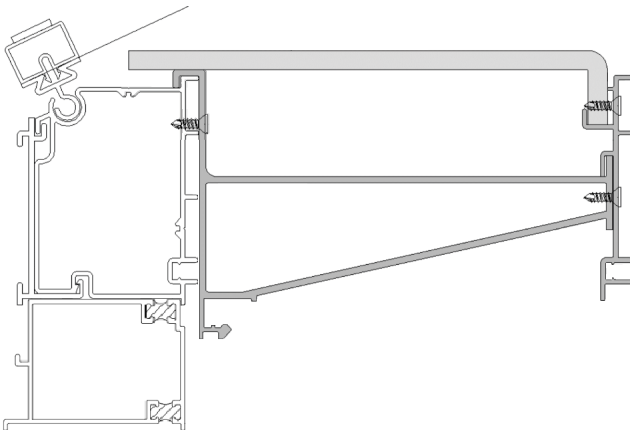
Fit the Faux Orangery Support Brackets first.  
(Brackets for the corners of your roof are cut down versions).

2



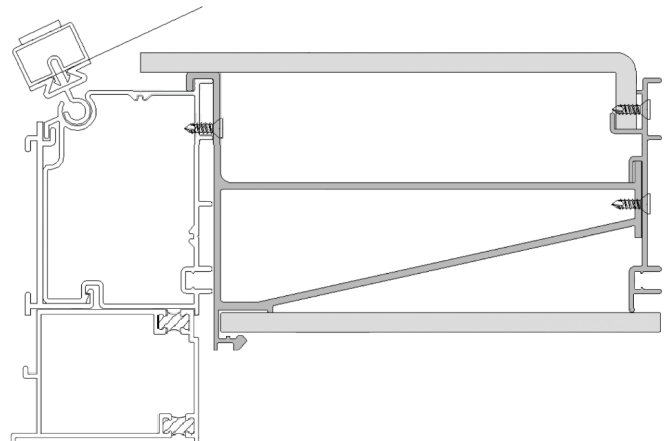
Secondly add the Faux Orangery Internal Trim Support.

3



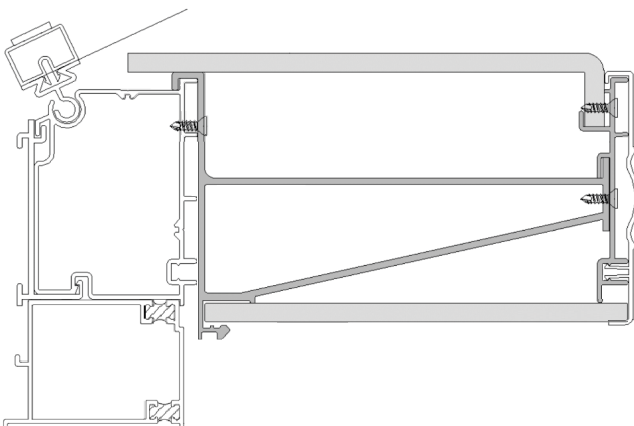
Next fit the Capping Board

4



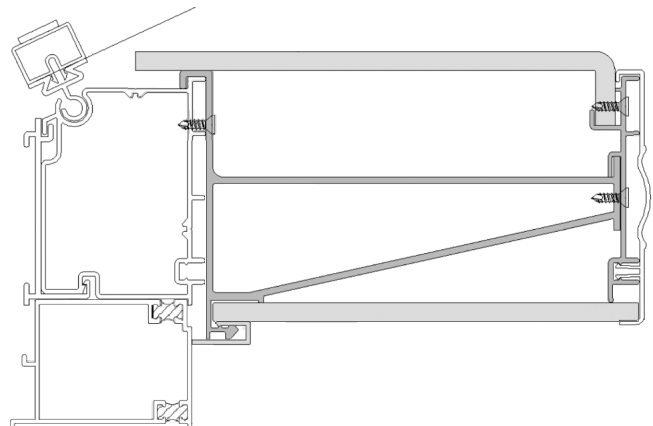
Followed by the Underclad.

5



Then add the Ring Beam Internal Trim.

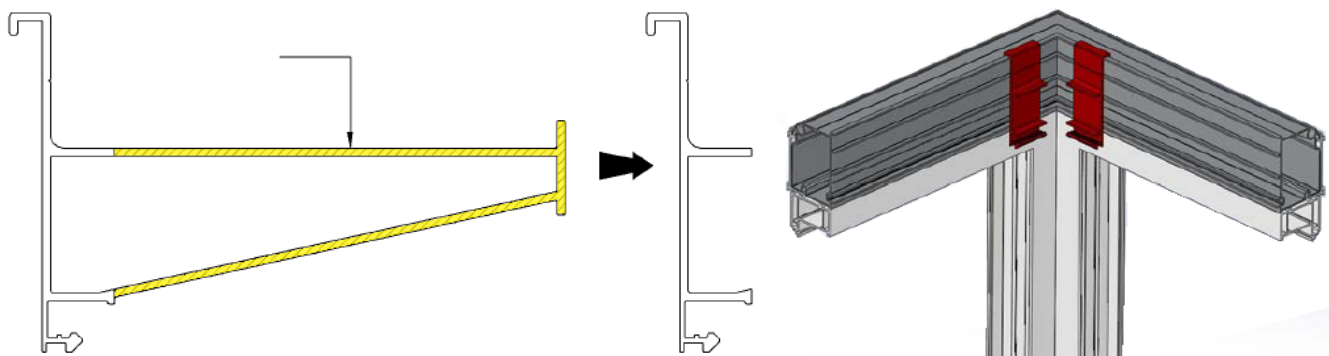
6



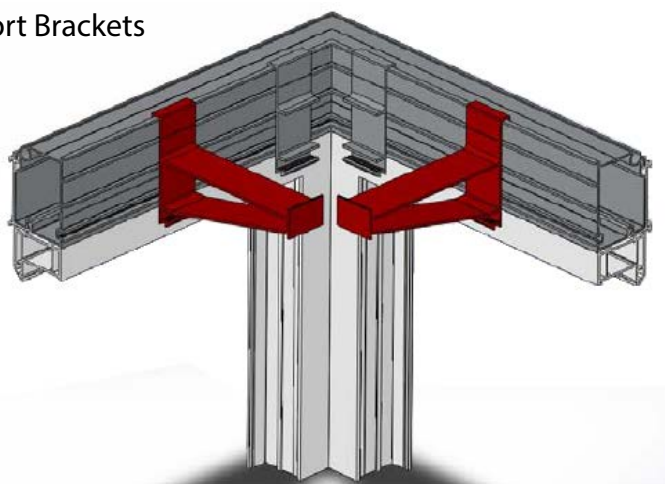
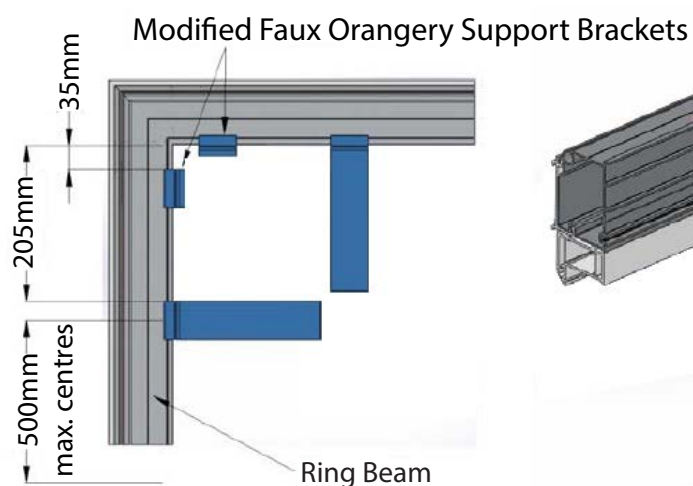
Finally add the Faux Orangery Trim.

## Faux Orangery Support Brackets

The brackets used in the corners are modified Faux Orangery Support Brackets. Faux Orangery Support Brackets should be placed at 300mm - 500mm centres, but no more than 500mm.



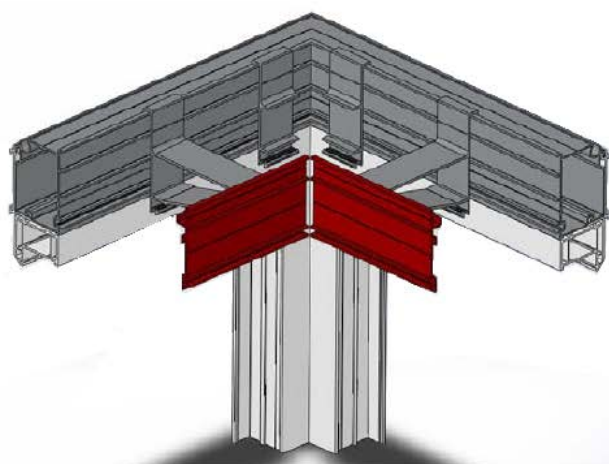
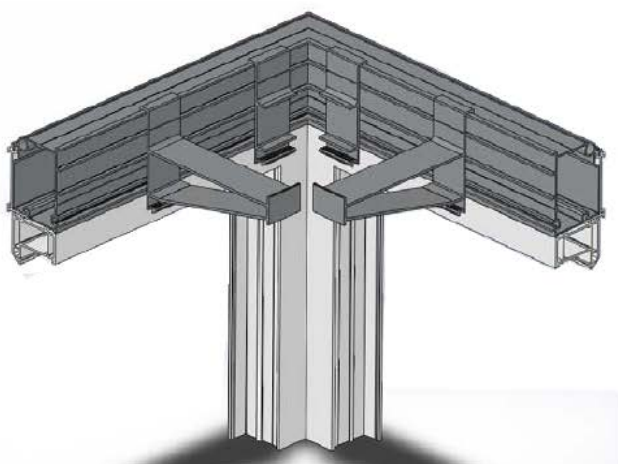
See below for the correct positioning of the brackets in the corners of your conservatory roof.



## Faux Orangery Internal Trim Support

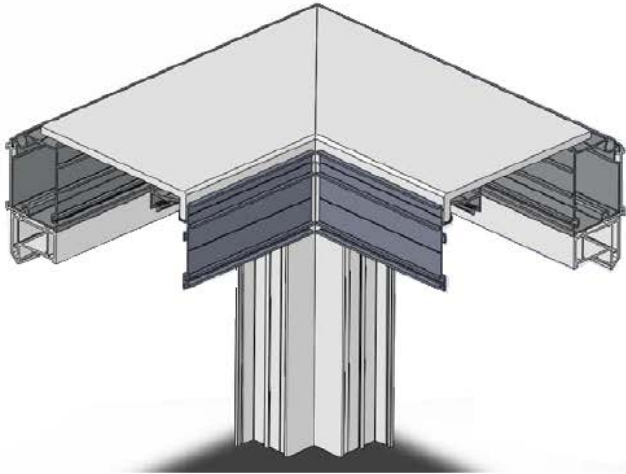
Once all brackets are in place screw them into position using the 16mm self drilling screws.

Locate the Internal Trim Support and screw into place using the 16mm self drilling screws.

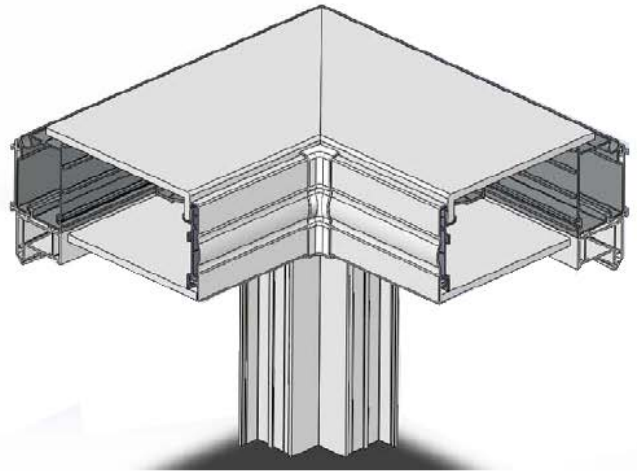


## Capping board, Underclad & Ring Beam Internal Trim

Locate the Capping board and screw into position.

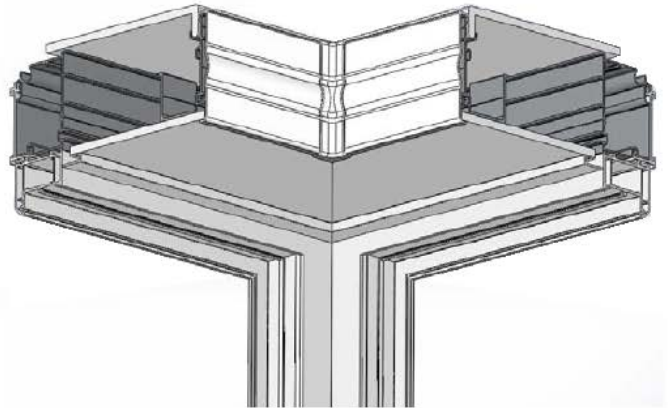
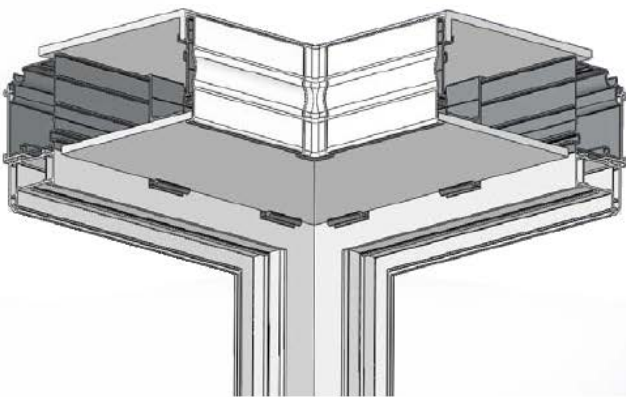


Offer up the Underclad and clip the Ring Beam Internal Trim into place.



## Faux Orangery Trim

Clip into position the Faux Orangery Trim. The corners can be either mitred or square cut.



Your Internal Pelmets are now complete.

