ConservatoryLand®
More light. More space. More living.

Valley installation guide
For P-Shape roofs.

Use in conjunction with one of the following installation guides:
Edwardian,
Hipped-back Edwardian
Gable front
Victorian installation guide

Contents

Page no.

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.

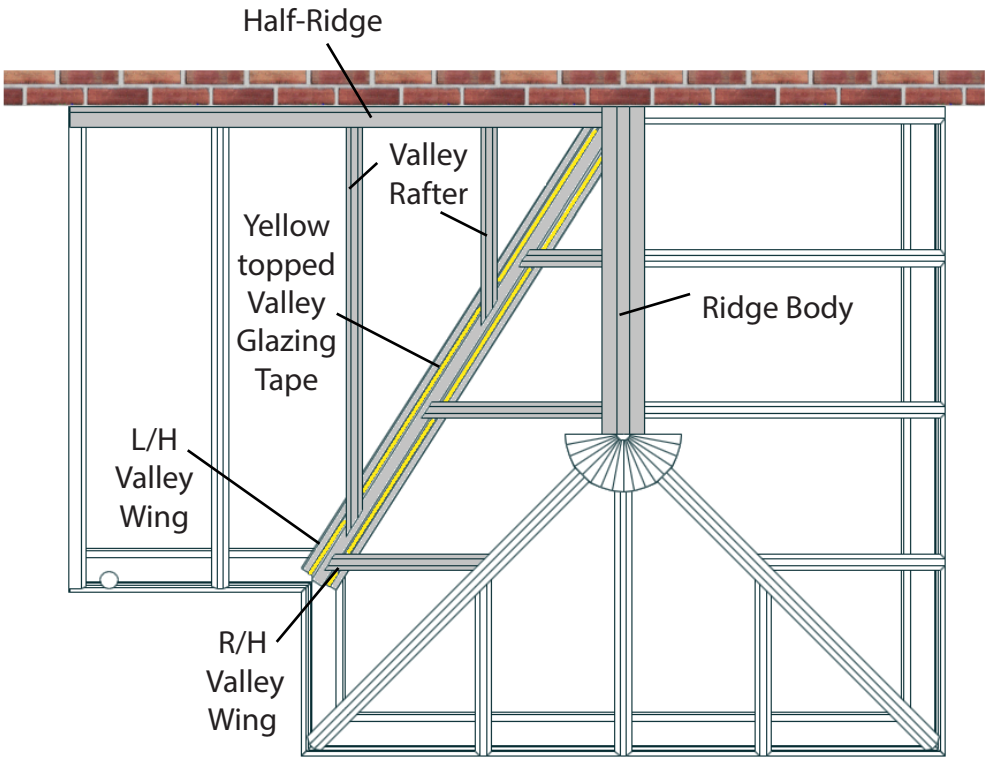
Recommended materials and accessories

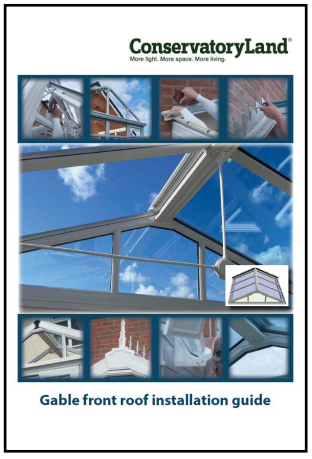
All fixing bolts, screws, glazing packers, brick slip adhesive, brick slip mortar and SMX Roof Glass Silicone is provided. (If the conservatory has self cleaning roof glass we supply a specialised silicone that does not damage the self cleaning coating on the glass units).

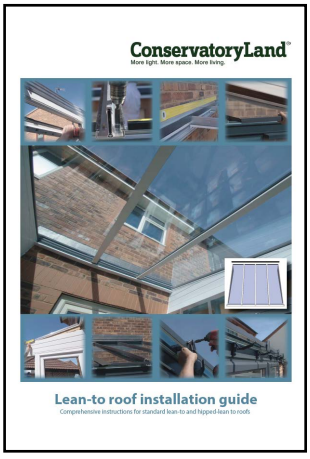
	Base	Frames	Roof
Sealants			
Silicone (Clear for sealing between & under wall boxes - colour of choice for required frame finish).	✓	✓	✓
Lead Sealant - (Sand and cement if pointing the lead work).			✓
Building Materials & Accessories.			
Foundation Blocks - 440mm x 215mm x 355mm.	✓		
Post crete - 2 x 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.			✓

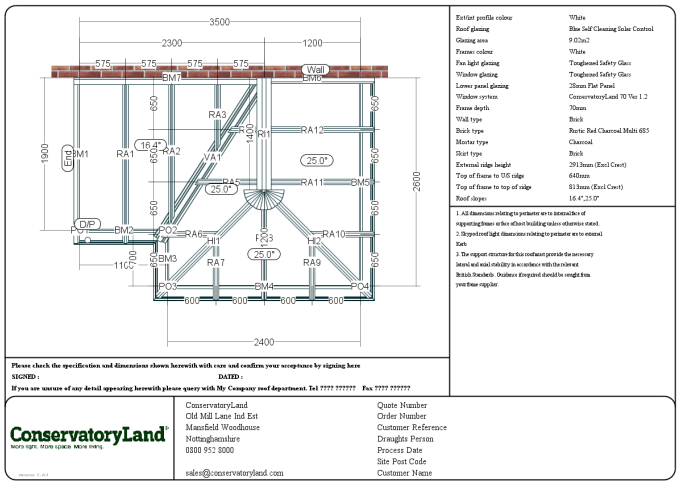
Recommended tools and equipment	Base	Frames	Roof
Power Tools			
SDS Drill	✓	✓	✓
Impact Driver or Cordless Drill.	✓	✓	✓
Circular Saw. (For cutting the chipboard flooring).	✓		
4" Angle Grinder. (Mortar cuts for lead work).			✓
Breaker/ Kango. (Only required if you are breaking through concrete for required pads)	✓		
Hand Tools			
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.)		✓	✓
Accessories			
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		✓	✓

Valley Roof overview







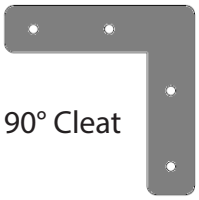


Use this guide in conjunction with the general roof installation guide emailed to you that is most suited to your roof style. These guides are also available on our website at: www.conservatoryland.com.

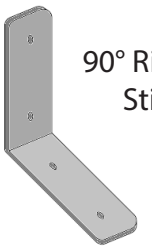
You will also need your roof layout plan, and roof glazing layout plans that have also been emailed to you as part of your instruction set.

Ring Beam fitting - additional information

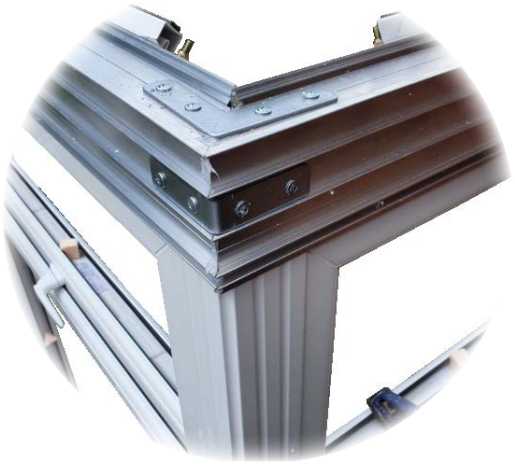
Follow the Ring Beam fitting instructions from your main roof installation guide. The only difference on your P-Shape roof is how the Ring Beams join on the internal 90° corner. Use the two cleats as shown both below, and in the photo on the right to secure these ring beams in place. Silicone seal the inner edge of the Ring Beams before joining.



90° Cleat

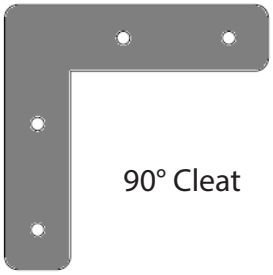


90° Ring Beam Stiffener

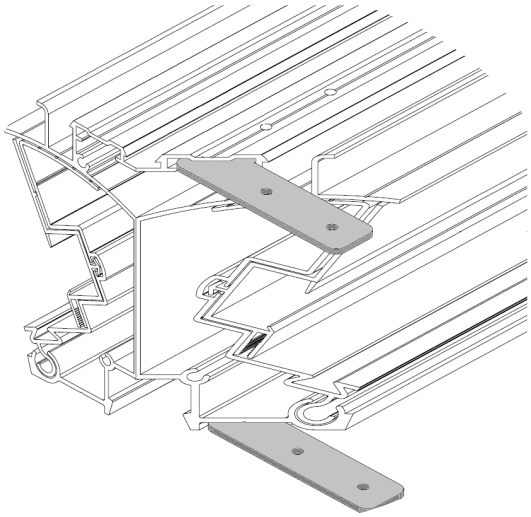


Joining the 90° Ridge

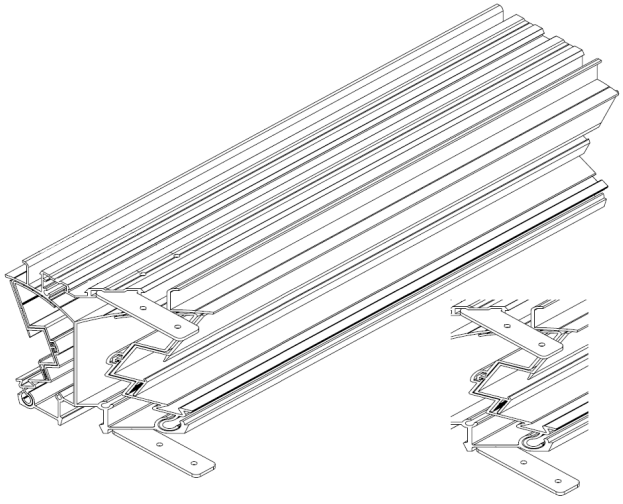
The below example shows a Half Ridge Wall Plate connecting to a Ridge Body, which can be found on P-Shape roofs with a Lean-to section, A Hipped-Back Ridge will fit together in a similar way, however that will use four 90° cleats rather than two.

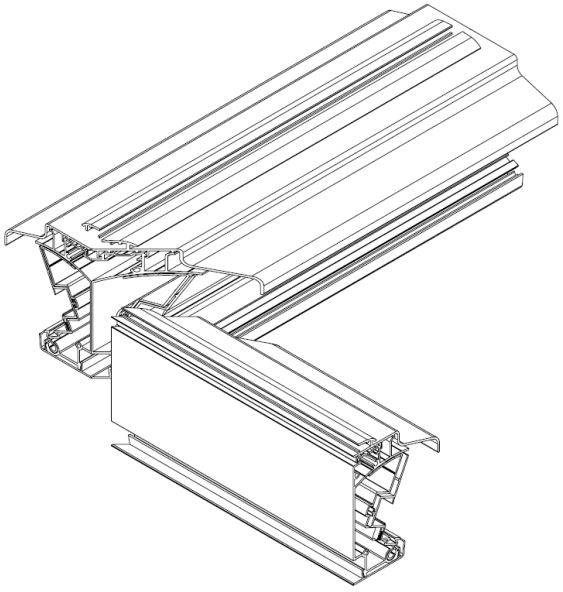


90° Cleat



Fit the cleats to the main ridge body and screw in place. The top Cleat slides down the channel to the top of the Ridge body, while the bottom Cleat screws to the underside of the ridge body.

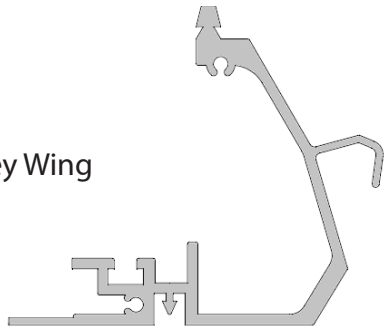


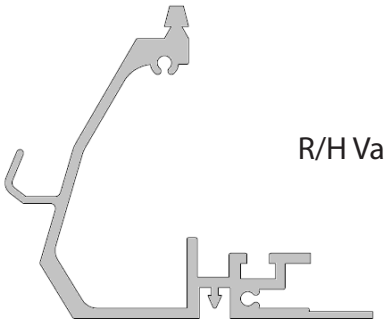


With the cleats in place, Slide the Half-Ridge Wall Plate into place, and screw into the Cleats to secure.

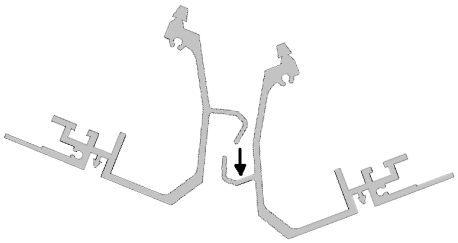
Fitting the Valley Wings

L/H Valley Wing





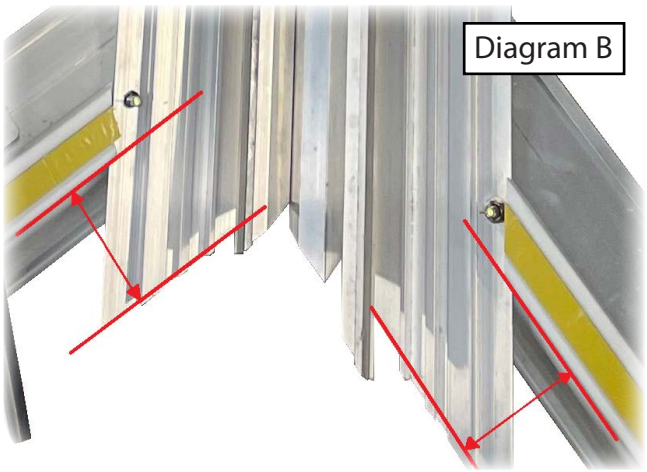
R/H Valley Wing



First locate the Valley components. The Valley is made up of two aluminium sections that fit together. You will need to make sure that you fit the correct side first. You should always fit the R/H Valley first and hook the L/H Valley section over the top. The angle of the Valley sections will be determined by the pitches of your roof.

Diagram A

Diagram B

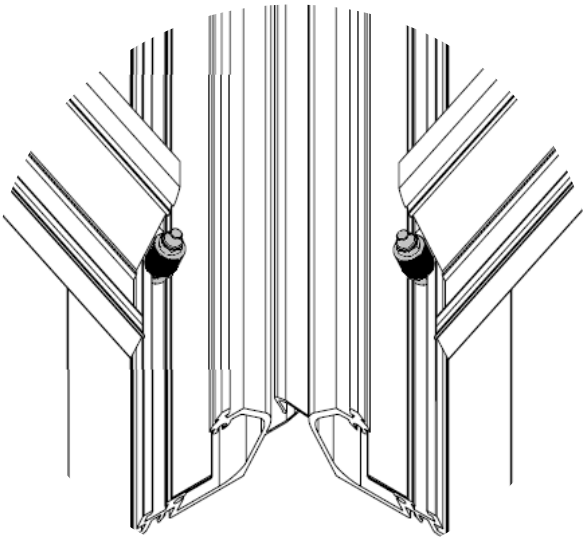


Connect the two Valley Wings together correctly as pre the image on the previous page. Lift into position over the bolts on the Ridge bodies and Ring Beams. Loosely tighten the nuts to hold the Valley in place, but do not tighten until you are fully confident in its position.

To ensure the Valley is in the correct position at the top, line the centre of the Valley up to the corner of the joint on the Ridge bodies. See diagram A.

To ensure the Valley is in the correct position at the bottom, make sure the bottom edges of the Valley Wings sit parallel to the Ring Beams. See diagram B.

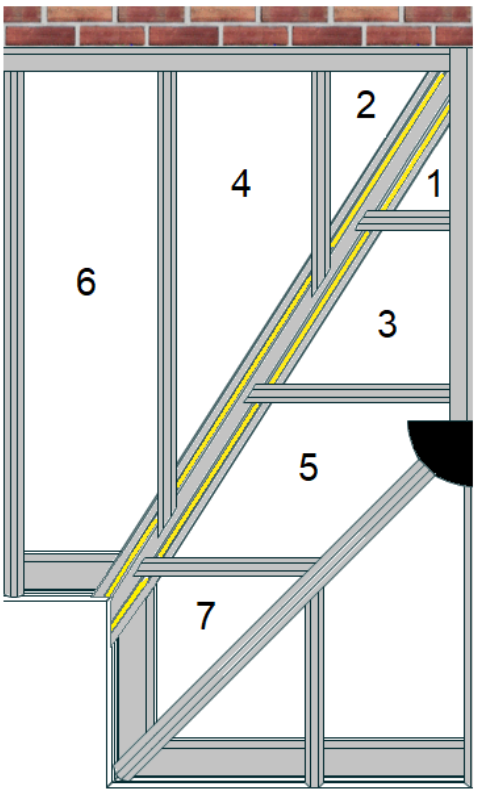
Fitting the Valley Rafters

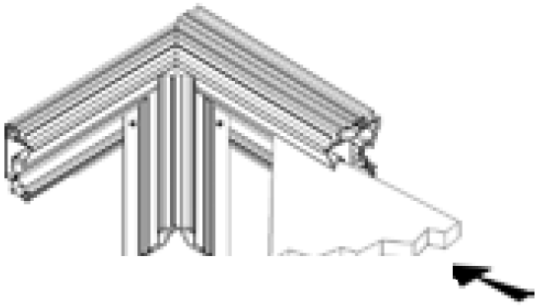


Rafters fit to the Valley the same way as Jack rafters, with a double bolt at the top, and a single bolt that runs along a channel in the Valley, and secured in place with a nut and washers.

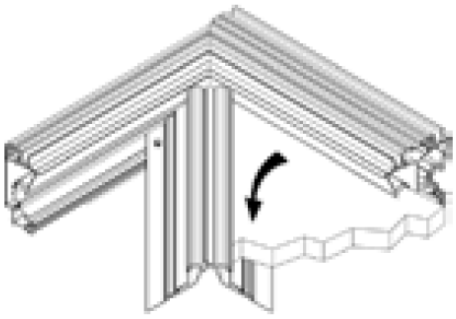
Glazing the Valley

When glazing around the Valley, you should do this in a specific order. Always start in the top corner around the 90° Ridge and work down towards the front of your roof, as shown in the diagram below.





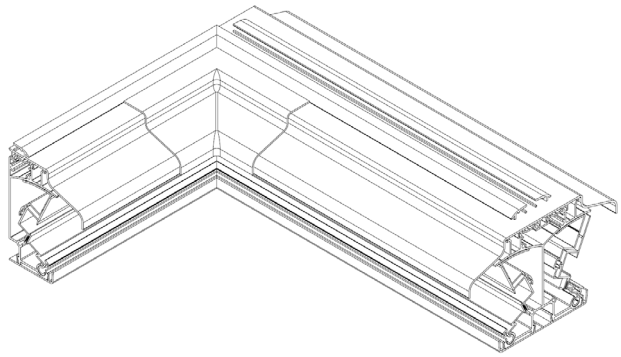
Take your first piece of glazing and push the glazing into the glazing trim and slide into position.



Then bed down the glazing onto the yellow double sided tape along the Valley Wings.

On some occasions where space / access to the corner of the Valley is an issue, it may be necessary to fit the first two glazing units (1 & 2 in the example above), without the two closest rafters installed. If you have already fit these in position, temporarily remove these rafters until the first two glazing units have been installed, and then re-fit the rafters before continuing the glazing.

Ridge top cap corner prep & seal detail

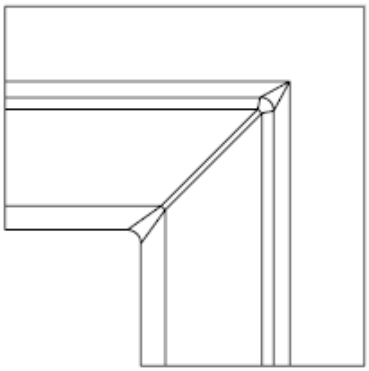


The next two pages focus on additional Ridge top Cap information to compliment the fitting information in your general Roof assembly guide.

The two examples show corner prep and sealing information for a P-shape with a Lean-to side, and a Hipped-Back P-Shape.

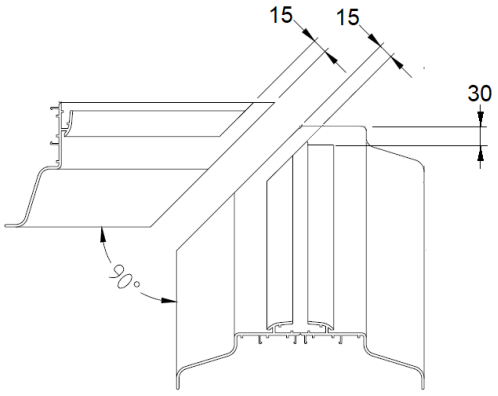
Half ridge example (P-Shape with Lean-to side)

1



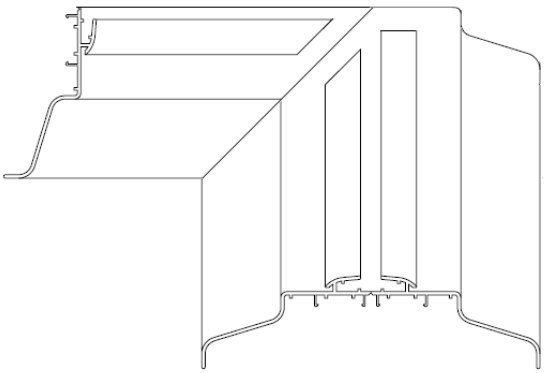
First locate your Ridge Top Cap Corner Trim.

2



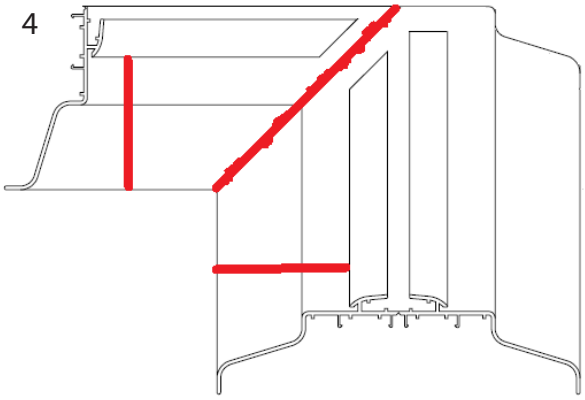
Remove 15mm sections from the channels that locate the crestings on your Ridge Top Caps

3



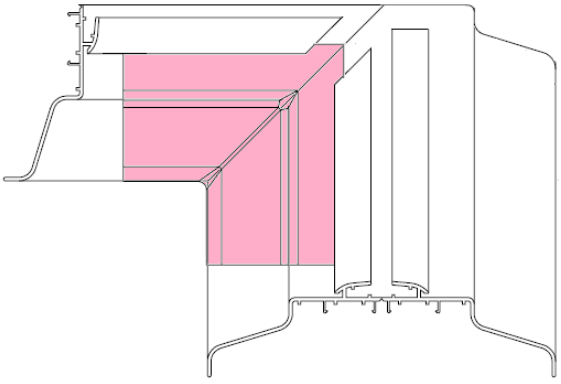
Fit the Tops Cap and butt them tight up to each other.

4



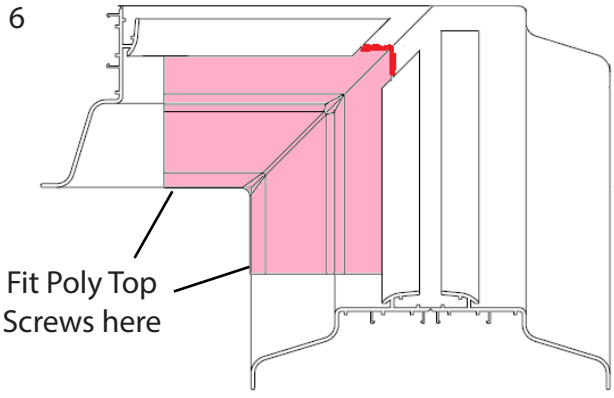
Apply Stelmax gap filler to the areas of the Top Caps the Corner Trim will fit to.

5



Fit the Top Cap Corner Trim in place.

6

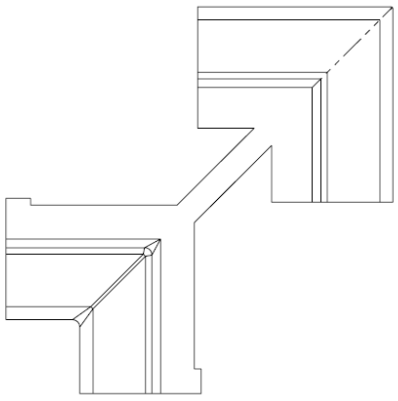


Fit the Poly Top Screws to secure the cap and apply Stelmax to the area shown in red above.

Ridge top cap corner prep & seal detail

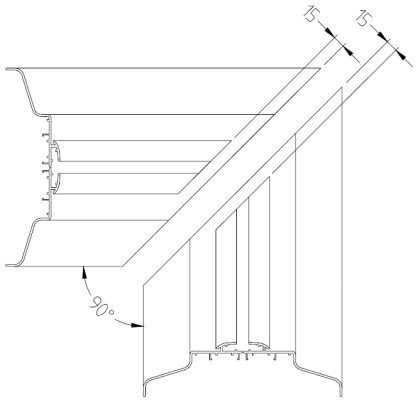
Full ridge example (Hipped-Back P-Shape)

1



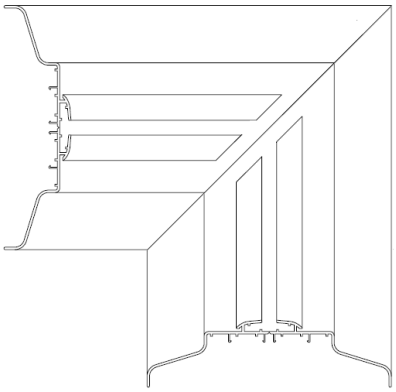
First locate your 'L' Ridge Top Cap Trim.

2



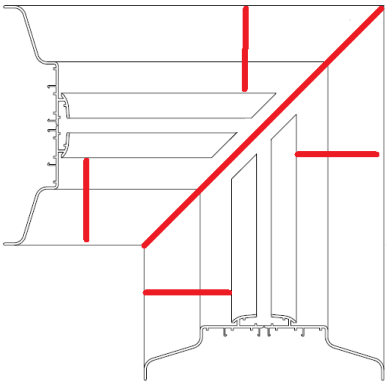
Remove 15mm sections from the channels that locate the crestings on your Ridge Top Caps

3



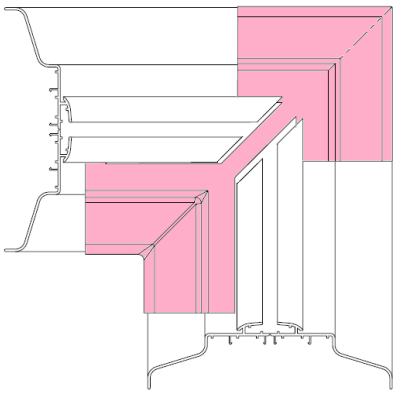
Fit the Tops Cap and butt them tight up to each other.

4



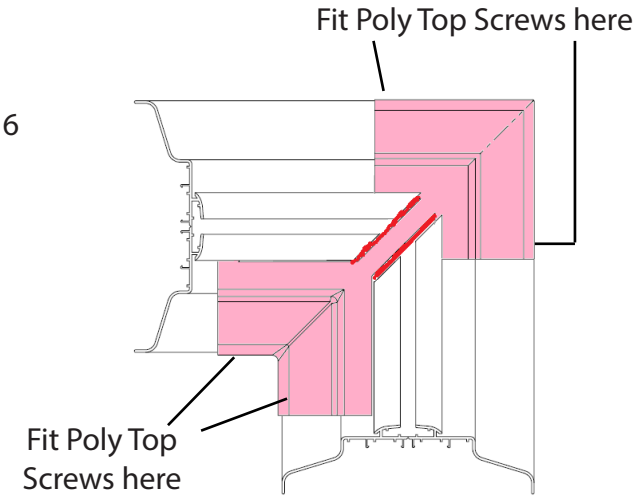
Apply Stelmax gap filler to the areas of the Top Caps the Corner Trim will fit to.

5



Fit the 'L' Ridge Top Cap Trim in place.

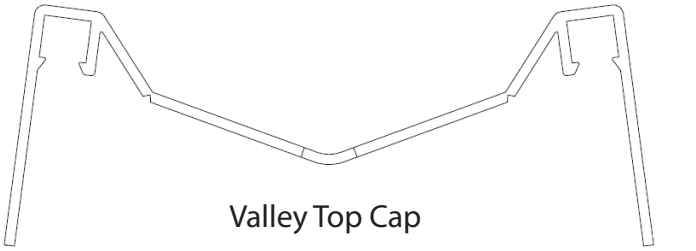
6



Fit the Poly Top Screws to secure the cap and apply Stelmax to the area shown in red above.

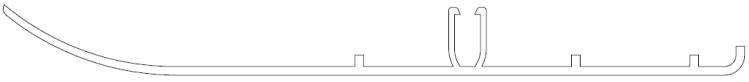
Valley PVC trims

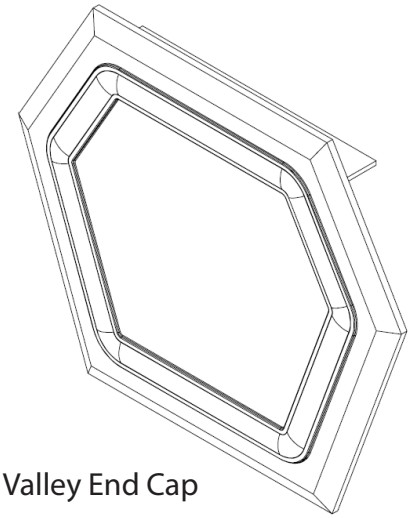
The Valley trims consist of one Valley Top Cap, Two identical Valley Bottom Caps and a Valley end Cap. Please see diagrams of these parts below, then follow this instruction for the installation details.



Valley Top Cap

Valley Bottom Caps





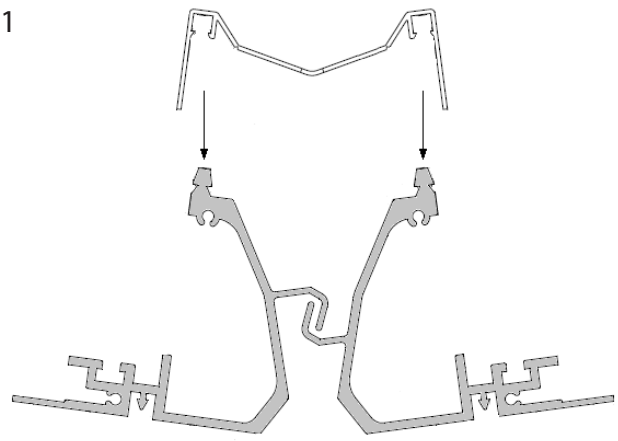
Valley End Cap

Valley Top Cap installed

Valley Bottom Caps installed

Valley Top Cap

1



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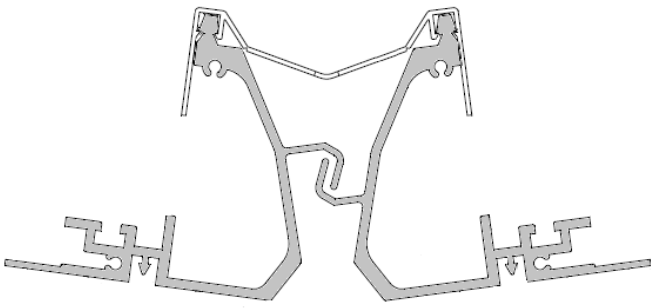
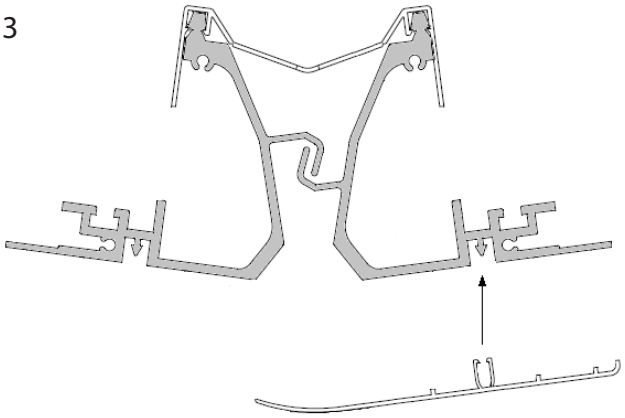


The one piece Valley Top Cap clips in place over both Valley Wings onto the aluminium up stands as shown above. The flexible top cap bends to suit all Valley pitches.

Valley PVC trims - continued

Valley Bottom Caps

3



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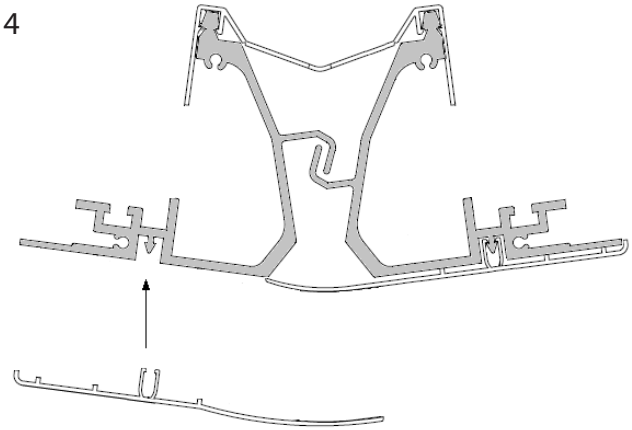

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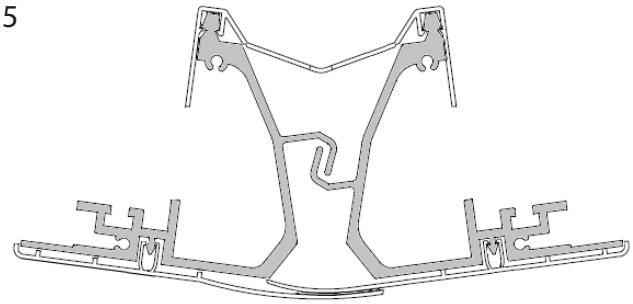
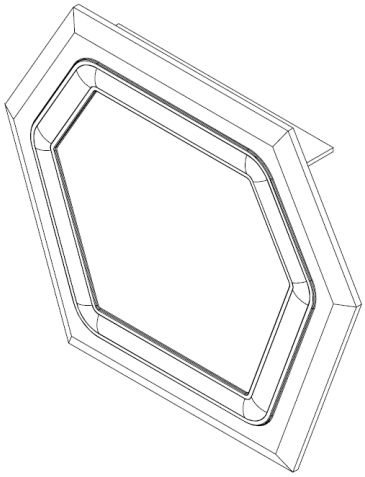
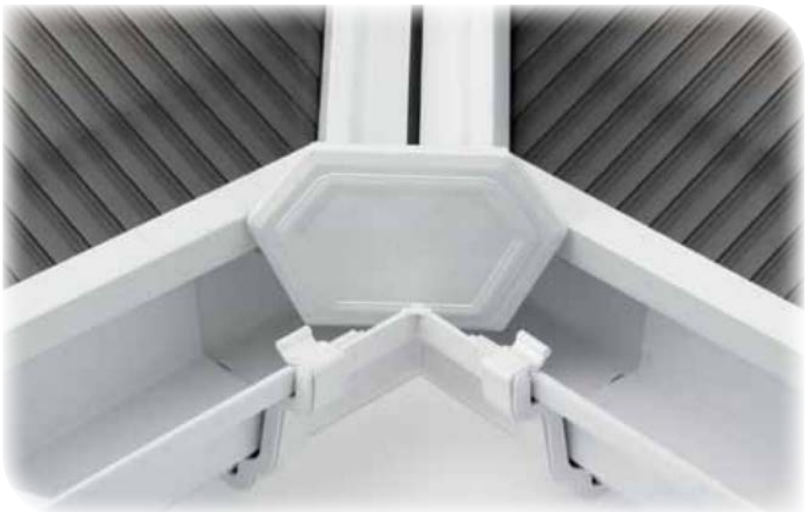


For the Valley Bottom Caps, two identical trims are used that overlap each other. Start by clipping one side over the aluminium Valley (image 3). Then add the second overlapping trim to the opposite Valley Wing in the same way you (image 4). The overlapping design allows the trims to cater for the varying pitches of the Valley Wings. See completed Valley Bottom Cap diagram (image 5).

The diagram on the right shows the completed Valley with Valley Rafters and their glazing caps fully installed.

Valley End Cap





The Valley Top Cap is left square cut and the end cap is simply glued & sealed into position over the end of the Valley once all the glazing is complete.