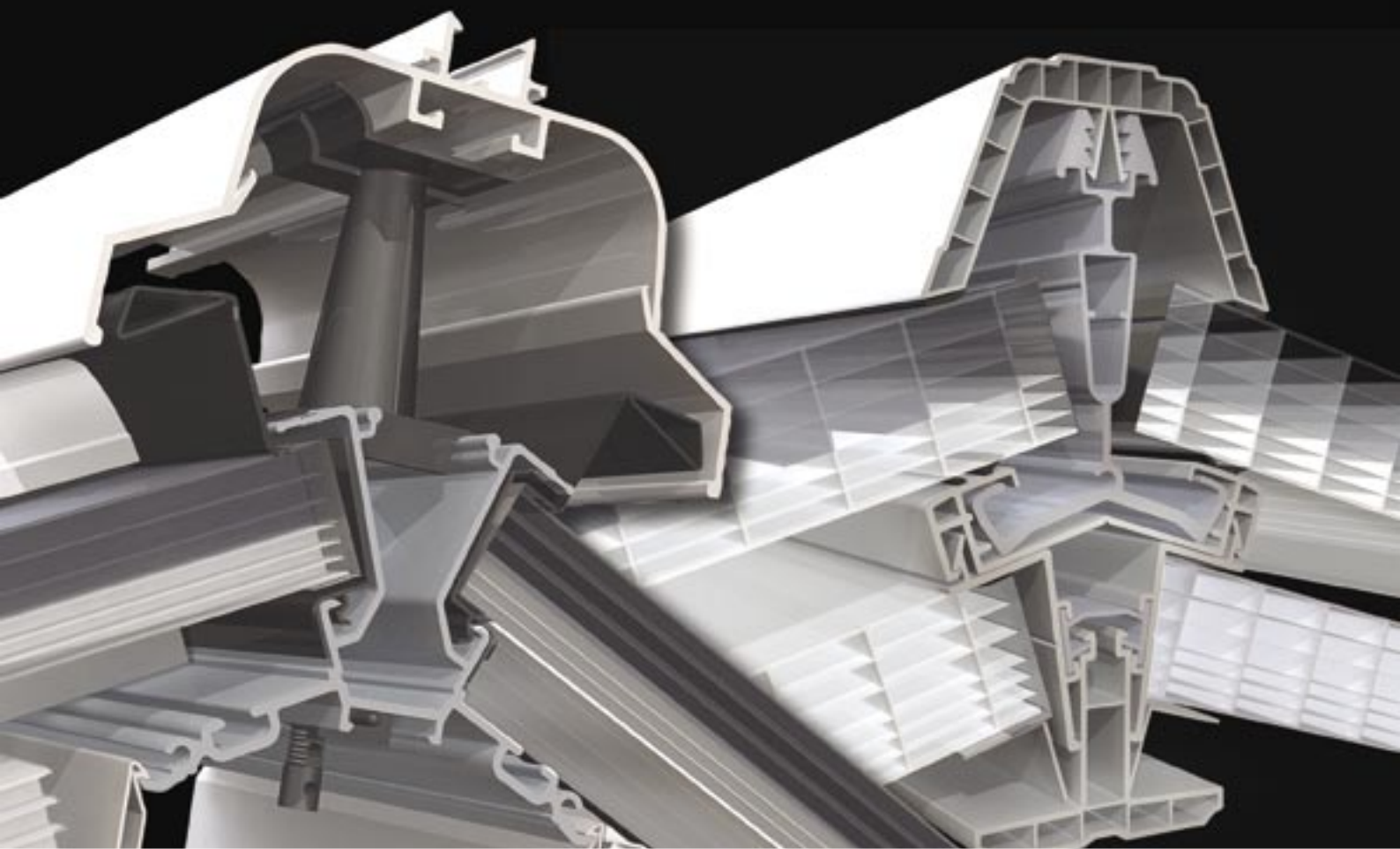


ultraframe

Utopia



Installation Guide

Version 1.0
Jan 2011

Dear Customer,

Thank you for choosing the Ultraframe Utopia system.

Before you commence installation of the roof, please take a moment to read pages 2 and 3 before reading the rest of this guide.

Ultraframe is rightly proud of its Classic Plus roof. Over 1 million have been successfully installed over a 20 year period. We have continued to invest to improve the features that the homeowner will appreciate and that should make your life easier.

Any feedback –positive or negative – is welcomed so we can make the Classic roof even better. Please contact tech support on 0843 208 6953 or email techsupport@ultraframe.co.uk

Contents

section 1	Utopia Assemblies	4-5
section 2	Internal Glazing Sequence Examples	6-7
section 3	Georgian Installation	8-11
section 4	Lean-to/Gable Detail	12-13
section 5	Hinge Fit Detail	14-15
section 6	Hip Bar Detail - Jack Rafters	16
	Hip Bar Detail - Victorian/Splayed	17
section 7	Radius End Detail	18-19
section 8	Finishing Trim Installation	20-21
section 9	Roof Vent	22-23
section 10	Bolster Installation	24-27
section 11	Valley Installation	28-29

Important Notes

The internal ridge undercladding must be installed after the internal glazing (the internal glazing can not be installed if the ridge undercladding is in place).

The internal glazing must be installed in the correct sequence (see pages 6 and 7)

When installing Utopia roofs with bolsters, the internal glazing must be fitted prior to the external glazing. The internal glazing can only be fitted from the outside of the conservatory.

This guide is to be read in conjunction with the Classic plus installation guide.

This guide replaces pages 24 and 25 of the Classic Plus installation guide.

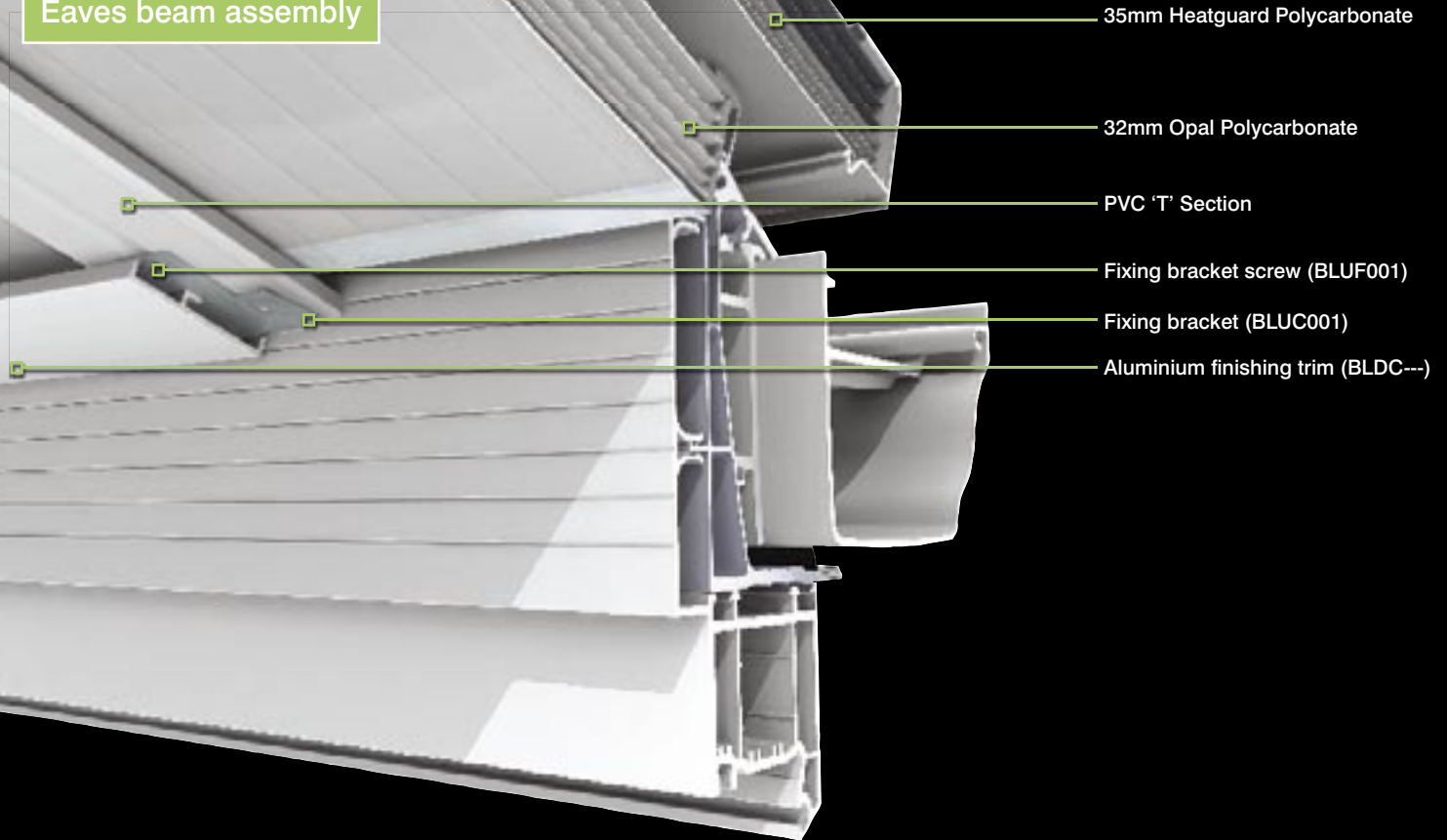
No main ridge end closure/upper ridge cover (as shown on page 28 of the Classic Plus installation guide) is to be used on the Utopia roof.

The internal fitting of the panels and claddings requires two people.

section 1

Utopia assemblies

Eaves beam assembly



Ridge assembly

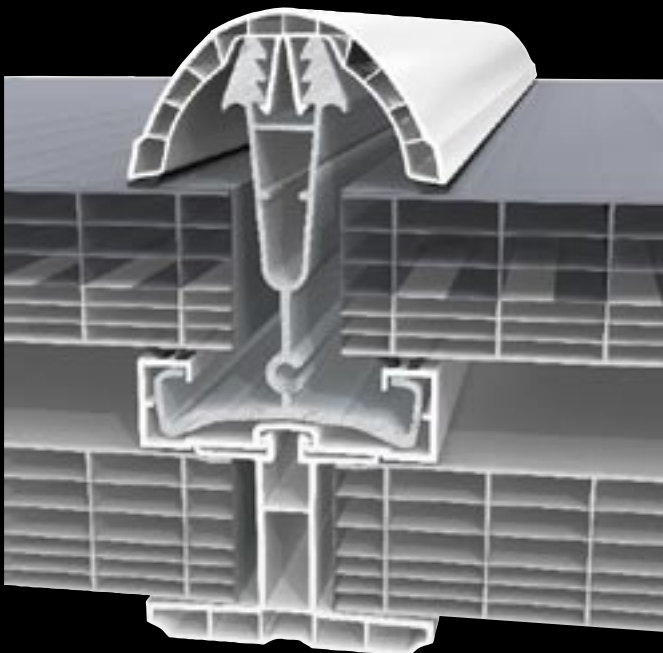
35mm Heatguard Polycarbonate

Ridge Undercladding

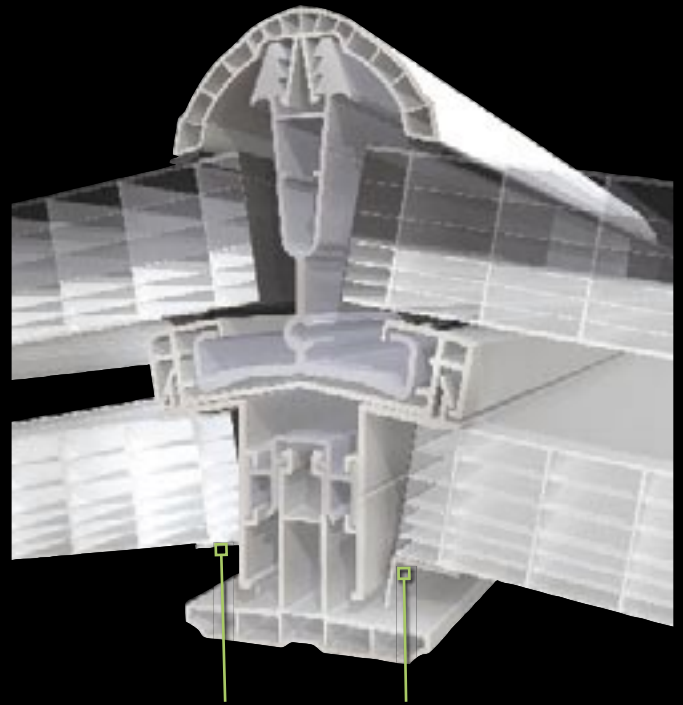
32mm Opal Polycarbonate

Detailed description: This 3D cutaway diagram illustrates the ridge assembly. It shows a cross-section of a roof ridge where two roof panels meet. The assembly includes a 35mm Heatguard Polycarbonate panel at the top, followed by a Ridge Undercladding. Below the undercladding is a 32mm Opal Polycarbonate panel. The assembly is secured with a screw and a bracket.

Transom Bar Assembly

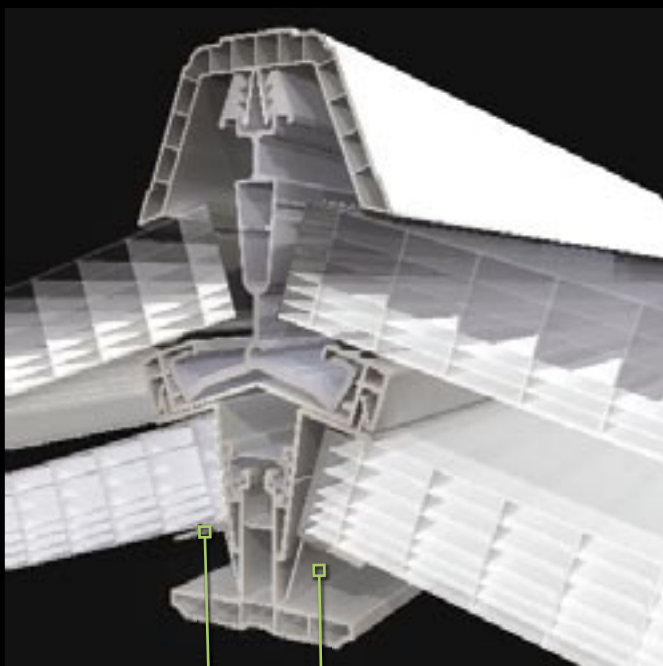


Victorian Bar Assembly



20x13mm Angle (BLAX250)

Georgian Bar Assembly



20x20mm Angle (BLAT250)

Starter Bar Assembly



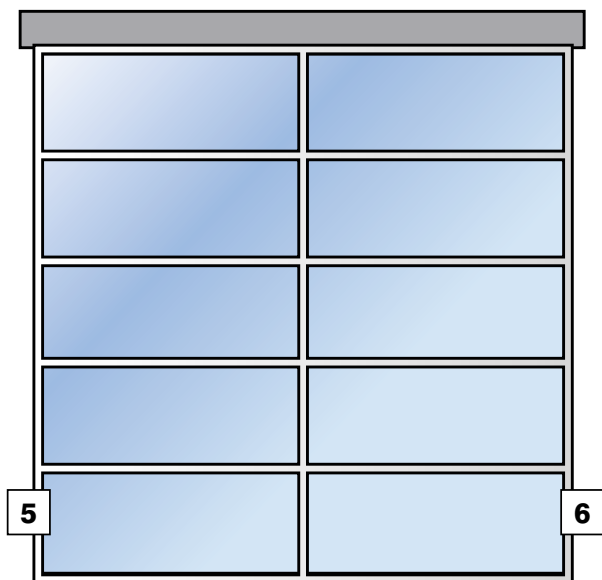
section 2

LEAN-TO



- Fit the gable internal panels, positions **1** and **5** first.
- Fit the intermediate panels. Note - the final two panels will have to be hinge fit together (see section 5)

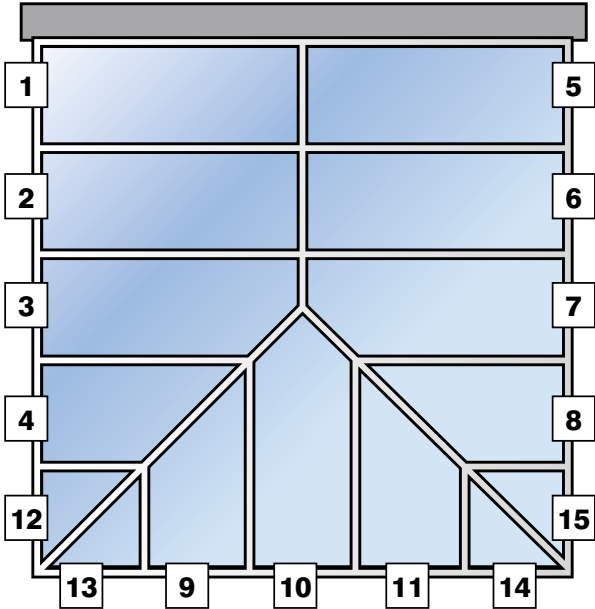
GABLE



- Fit the gable internal panels, positions **5** and **6** first.
- Fit the intermediate panels. Note - the final two panels will have to be hinge fit together (see section 5)

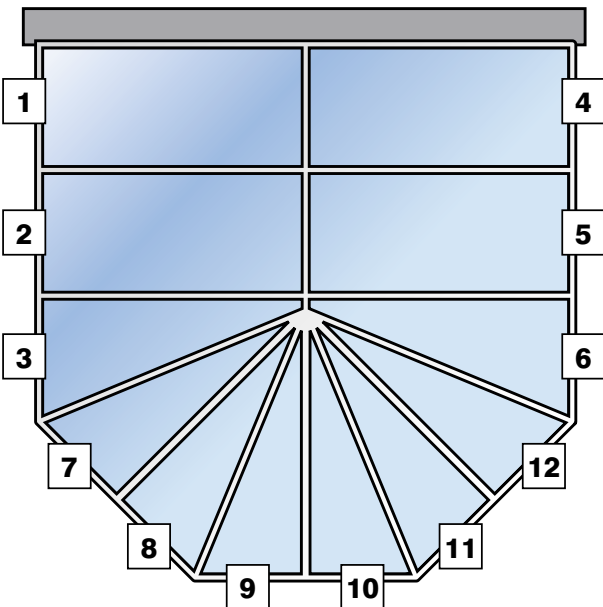
Internal Glazing Sequence Examples

GEORGIAN



- Fit the internal panels in sequence order as shown, **1** and **15**.

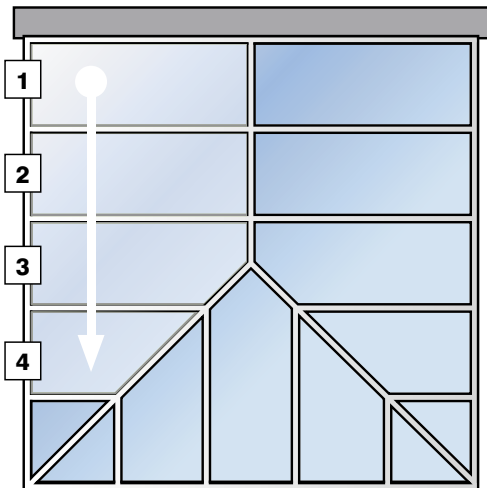
VICTORIAN



- Fit the internal panels in sequence order as shown, **1** and **12**.

section 3

Georgian installation



Internal glazing sequence for a standard Georgian



1 Fit the starter bar 'T' shaped cladding section by clipping up into the glazing bar undercladding. 'T' section should be tight up to the fascia board.



2 Locate 'T' section on to the internal panel as shown.



3 Offer up panel position 1 and the 'T' section and slide fit into the starter bar 'T' section. Clip fit into the glazing bar undercladding



4 Lightly tap the 'T' section as shown for a tight fit against the fascia board.



5 Offer panel position 2 with the 'T' section attached and fit as per panel position 1.

Georgian installation



Install panel position **3** with the 'T' section.



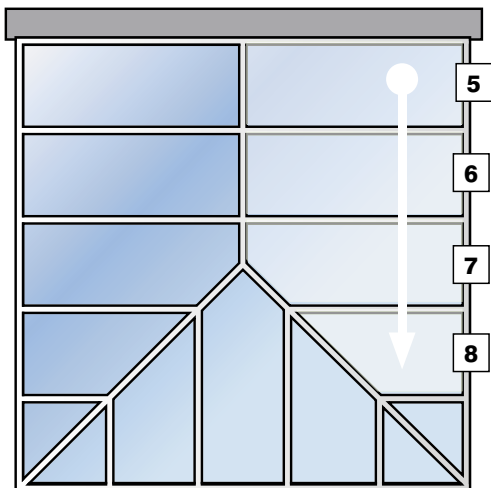
Locate 'T' section onto the internal panel



Install panel position **4** with 'T' section.



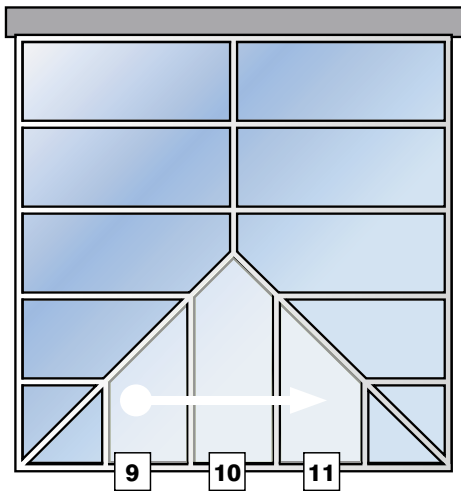
Clip fit the 'T' section onto the glazing bar undercladding as shown



Repeat steps 1-9

section 3

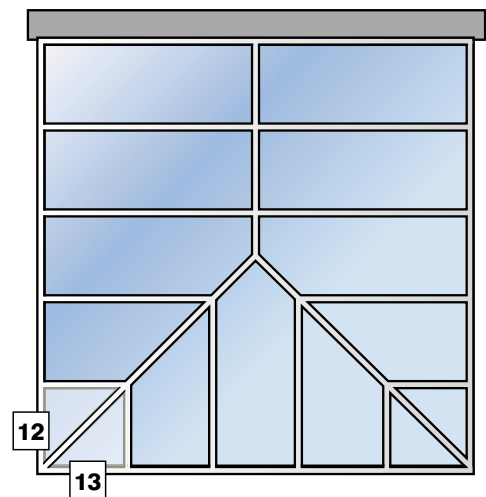
Georgian installation



Fit the first jack rafter 'T' section to the glazing bar undercladding.



Offer up panel position 9 and 'T' section and slide fit into the jack rafter 'T' section as shown above. Continue with panel position 10 and position 11.



Slide fit panel position 12 into 'T' section as shown and hold



Slide fit panel position 13 into 'T' section and hold.

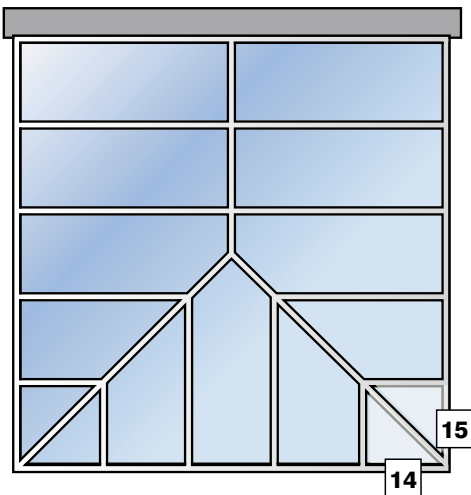
Georgian installation



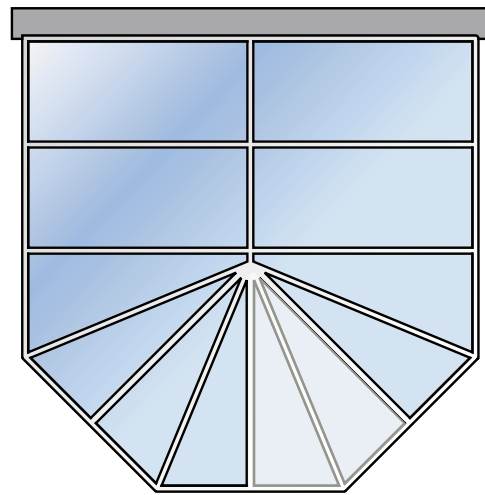
Please note these panels are not self supporting.



Fit the hip 'T' section.



Repeat steps 13-16 to install panel positions **14** and **15**.



Internal glazing sequence for a standard Victorian



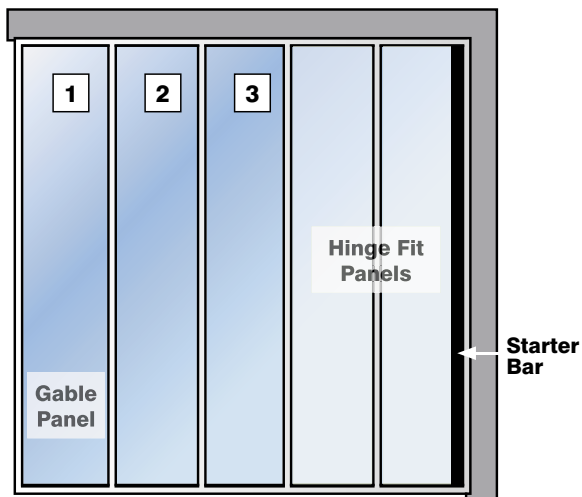
Fit the centre 'T' sections



Slide fit the panels into the 'T' section, hold in position and fit the hip 'T' section.

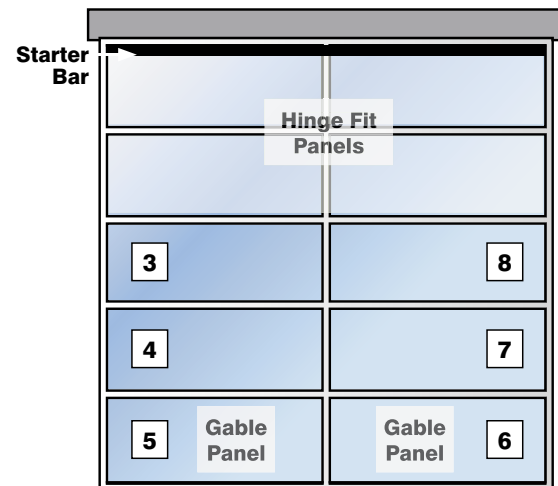
section 4

Lean-to/Gable Detail



Lean-to glazing sequence

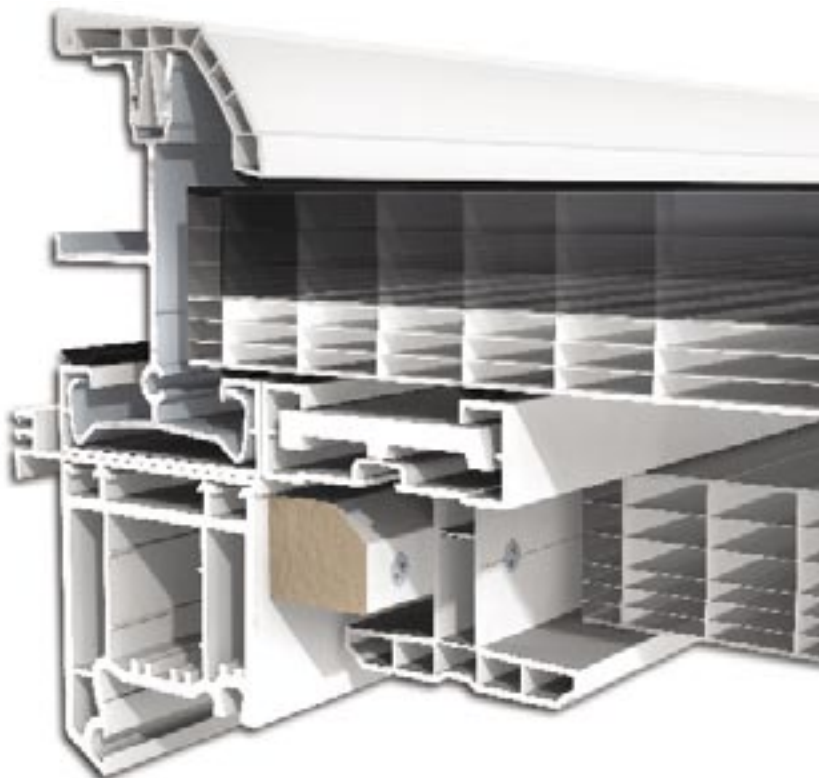
First fit the gable panel position **1**, then panel positions **2** and **3**. The last two panels are to be hinged fitted, see page 14-15.



Gable fronted Classic glazing sequence

First fit the gable panel positions **5** and **6** then panel positions **3**, **4**, **7** and **8**. The last two panels are to be hinged fitted, see pages 14-15.

Gable Section



Ridge detail



Eaves detail



Lean-to/Gable Detail



Carefully mark on the position of the notch out – its always 14mm wide whilst the length of the slot depends upon the roof pitch. See table below

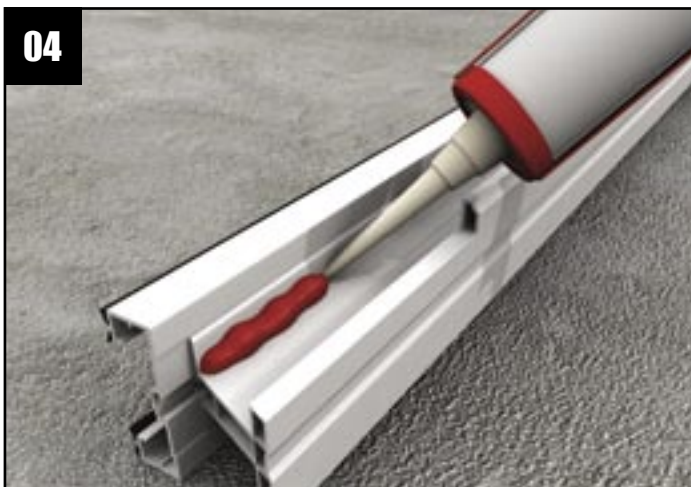
Pitch	Dim A
10°	252mm
15°	167mm
20°	125mm
25°	100mm
30°	84mm
35°	73mm
40°	65mm



Now take the bead extrusion supplied and shape the ends to fit, so that it will support the T shaped assembly



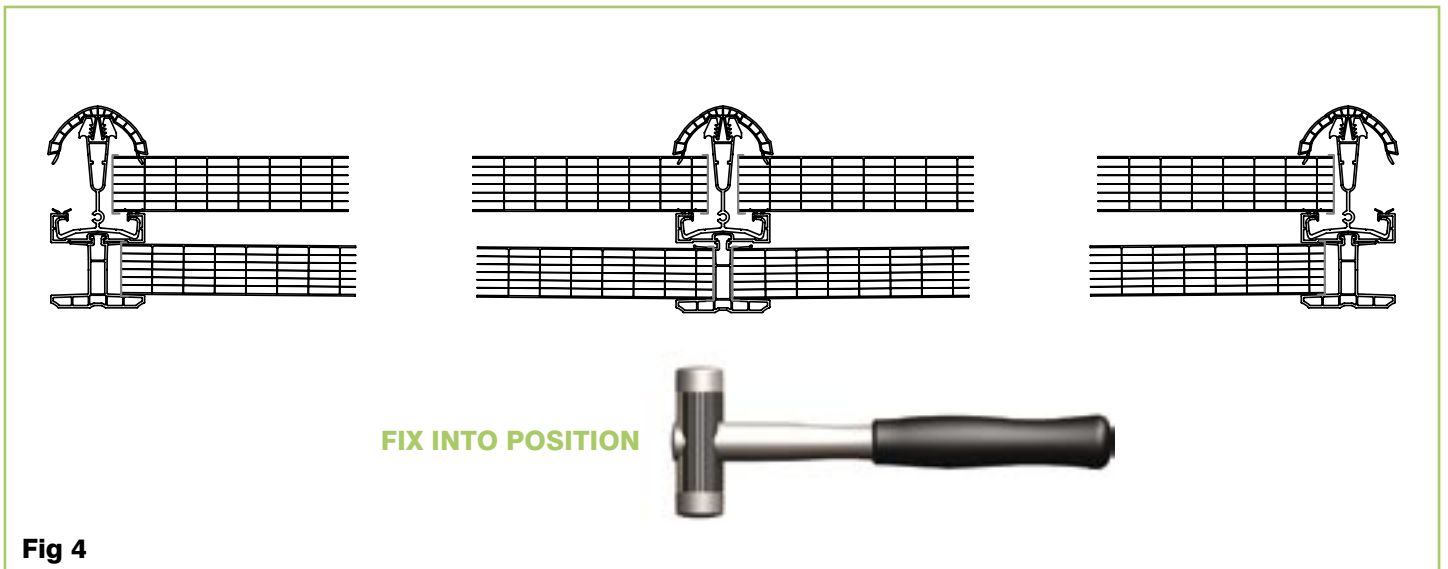
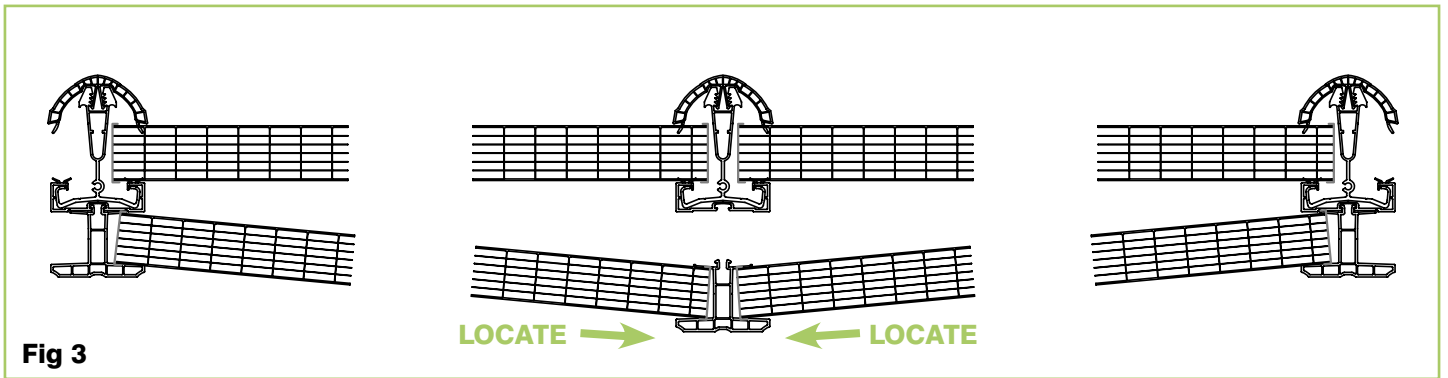
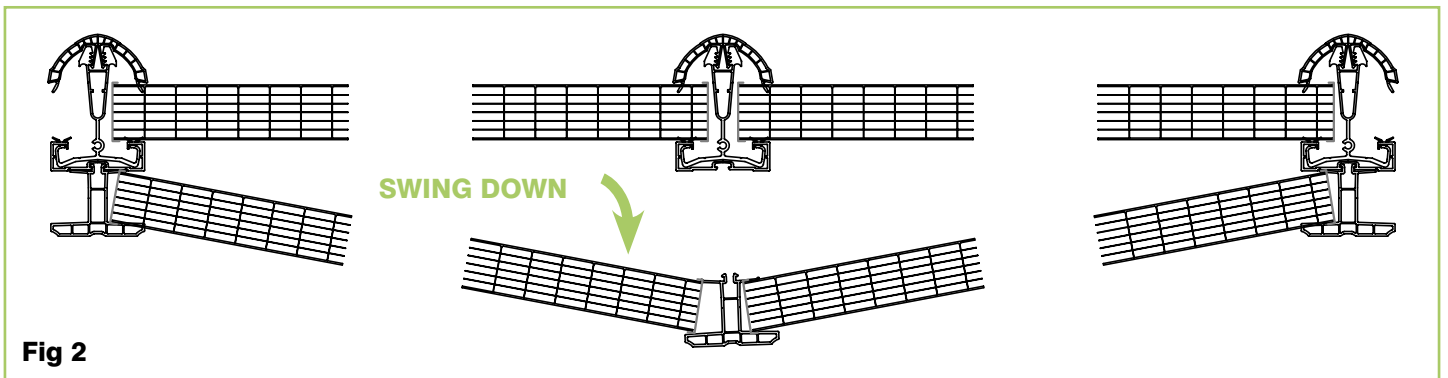
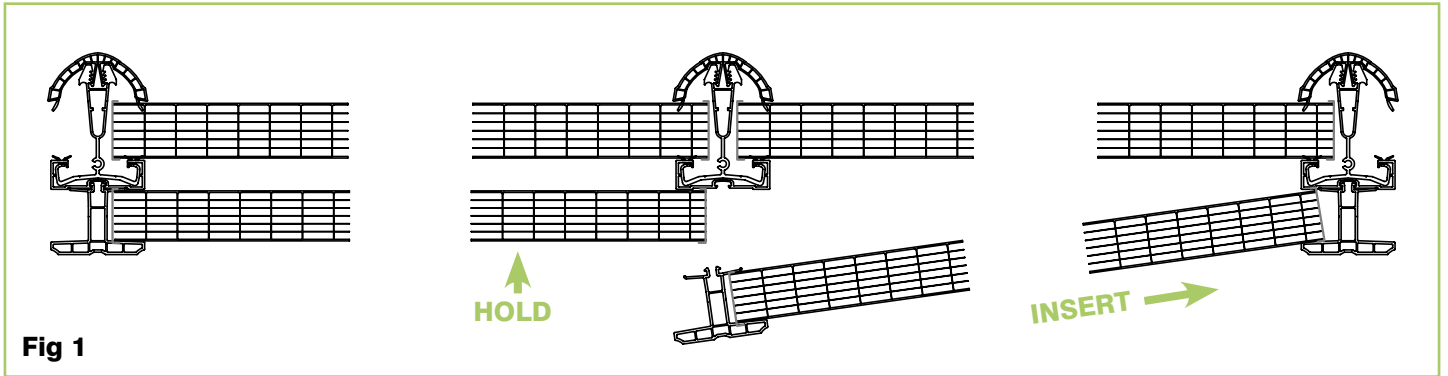
Using screws – drill and fit the trim to the gable frame.



Apply a generous bead of silicone along the complete length



Then attach the complete T shaped assembly to the gable frame. Finally, trim and fit the corner fascia covers.



Hinge Fit Detail



Fit the starter bar 'T' section by clipping up into the glazing bar undercladding. 'T' section should be tight up against the fascia board.



Slide the panel only into the 'T' section and hold in position. (Fig1)



Locate 'T' section on to the second panel.



Whilst holding the first panel in position, locate the second panel and 'T' section into position as shown. (Fig 1)

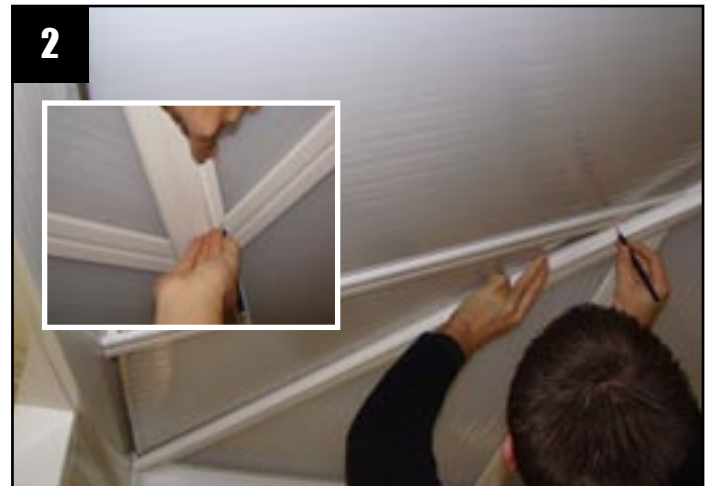
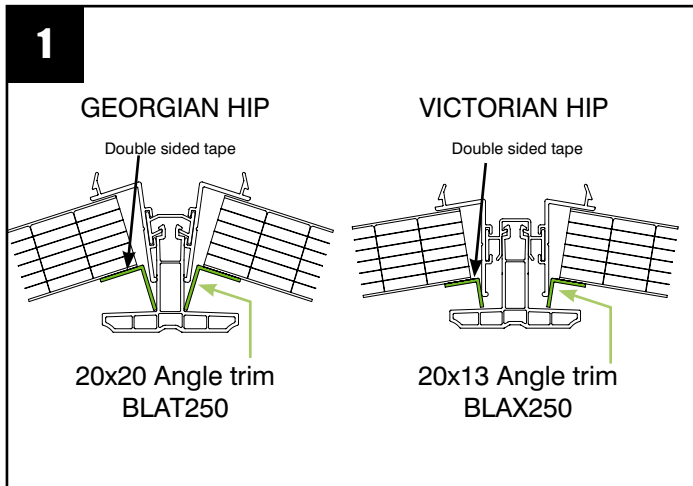


Lower the first and second panel as shown hinging around the fitted 'T' sections. Rotate central 'T' section to 'receive' both panels, locate and push up. (Fig 2 & Fig 3)



Fix central 'T' section into the glazing bar undercladding. (Fig 4)

section 6 Hip Detail - Jack Rafters



Position the angle adjacent to the 'T' section and mark up to or between the rafters.



Mark off the angle to size.



Cut the angle off with snips (shown) or hacksaw.



Trial fit the angle trim into position, remove the adhesive backing.



Roll in the angle trim and press firmly into position (the tape sticks against the polycarbonate).

Hip Detail - Victorian & Splayed Bars



In a Victorian or splayed bar position, measure the length for the angle (same as the 'T' section). Mark the angle trim and cut to suit.



Trial fit the angle trim into position, remove the adhesive backing.



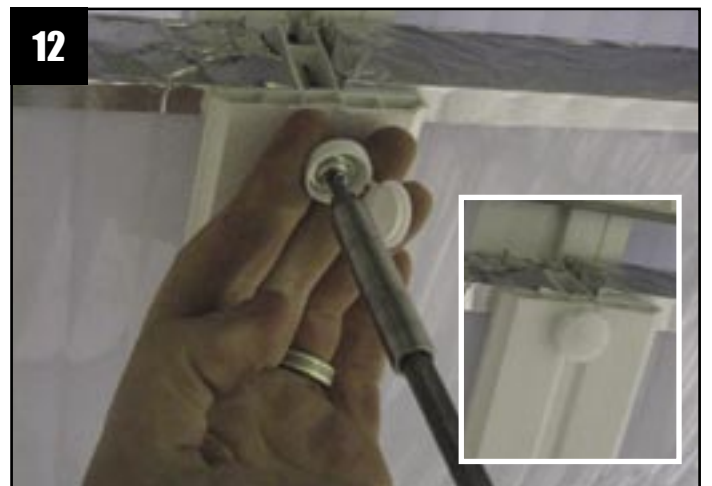
Roll in the angle trim and press firmly into position (the tape sticks against the polycarbonate).



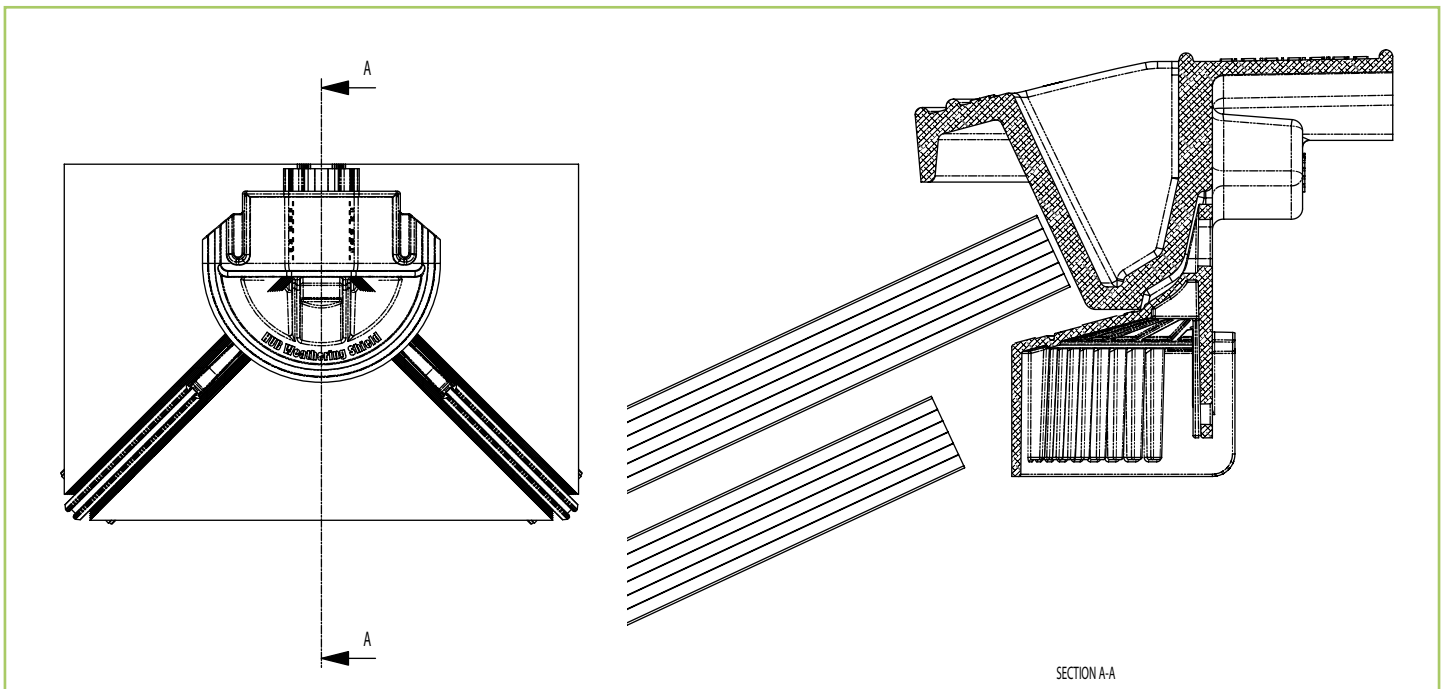
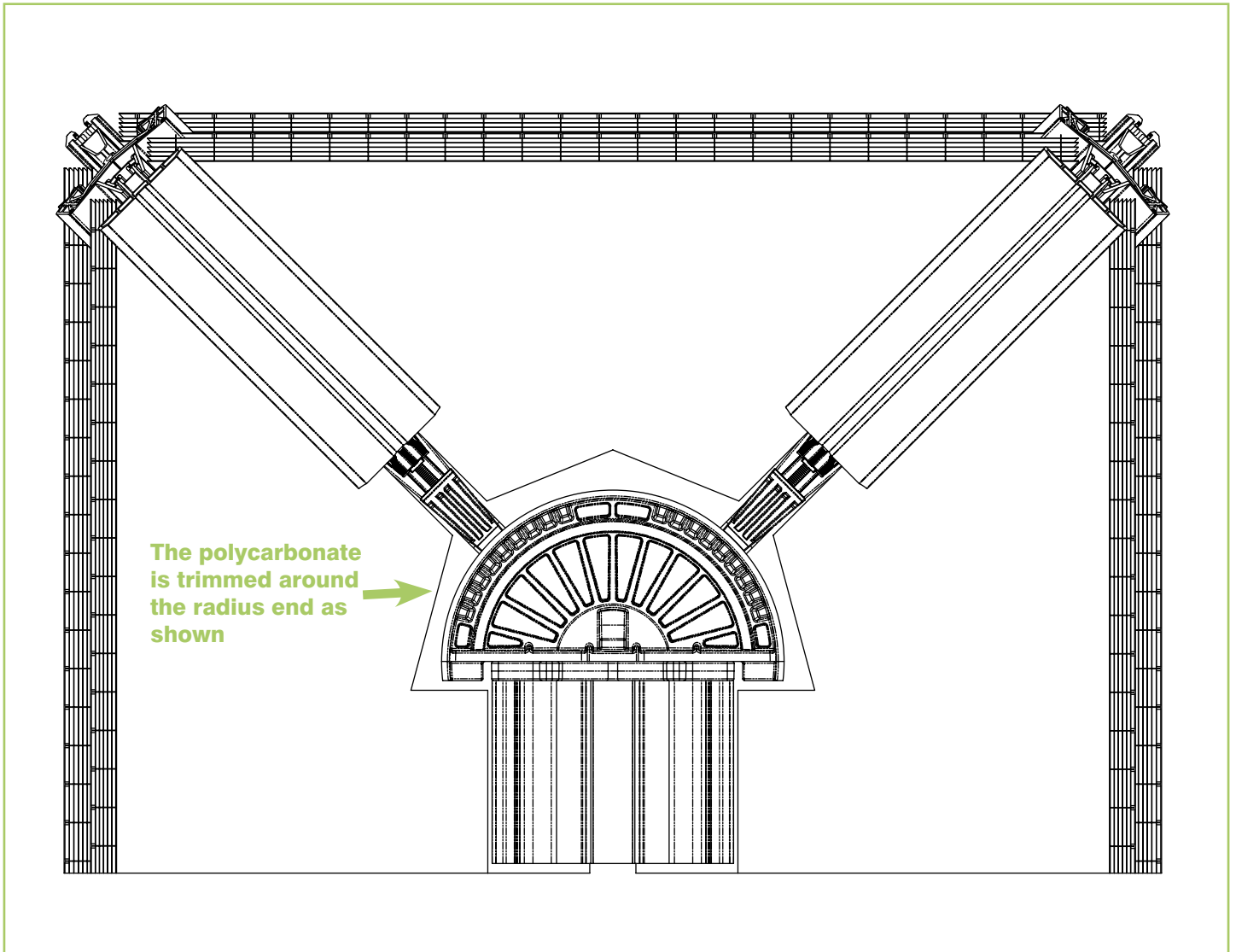
Image shows the angle trim in position at the radius end.



Drill the hole approx 15mm from the end of the 'T' section.



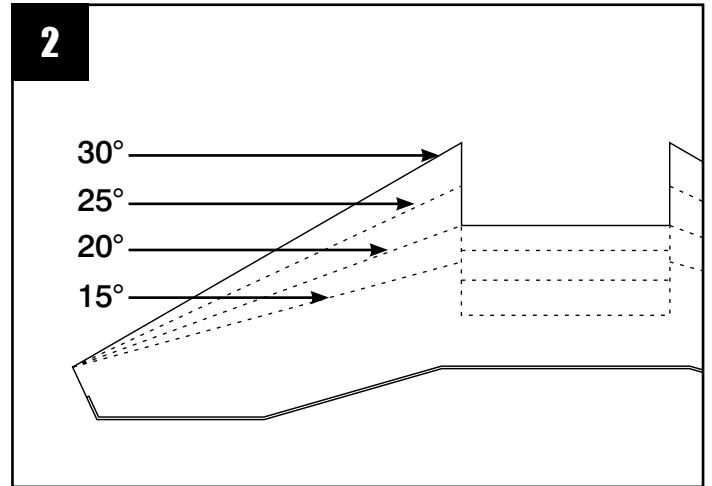
Drive the screw, complete with screw cap, into position.



Radius End Detail



Fit the threaded plastic rod.



The internal radius end capping may require trimming to suit pitch (pitch lines are marked on the reverse of the internal radius end capping).



Offer the internal radius end capping over the threaded rod. (The rod may require cutting to length).



Fix the threaded disk and clip fit the disk cover plate.

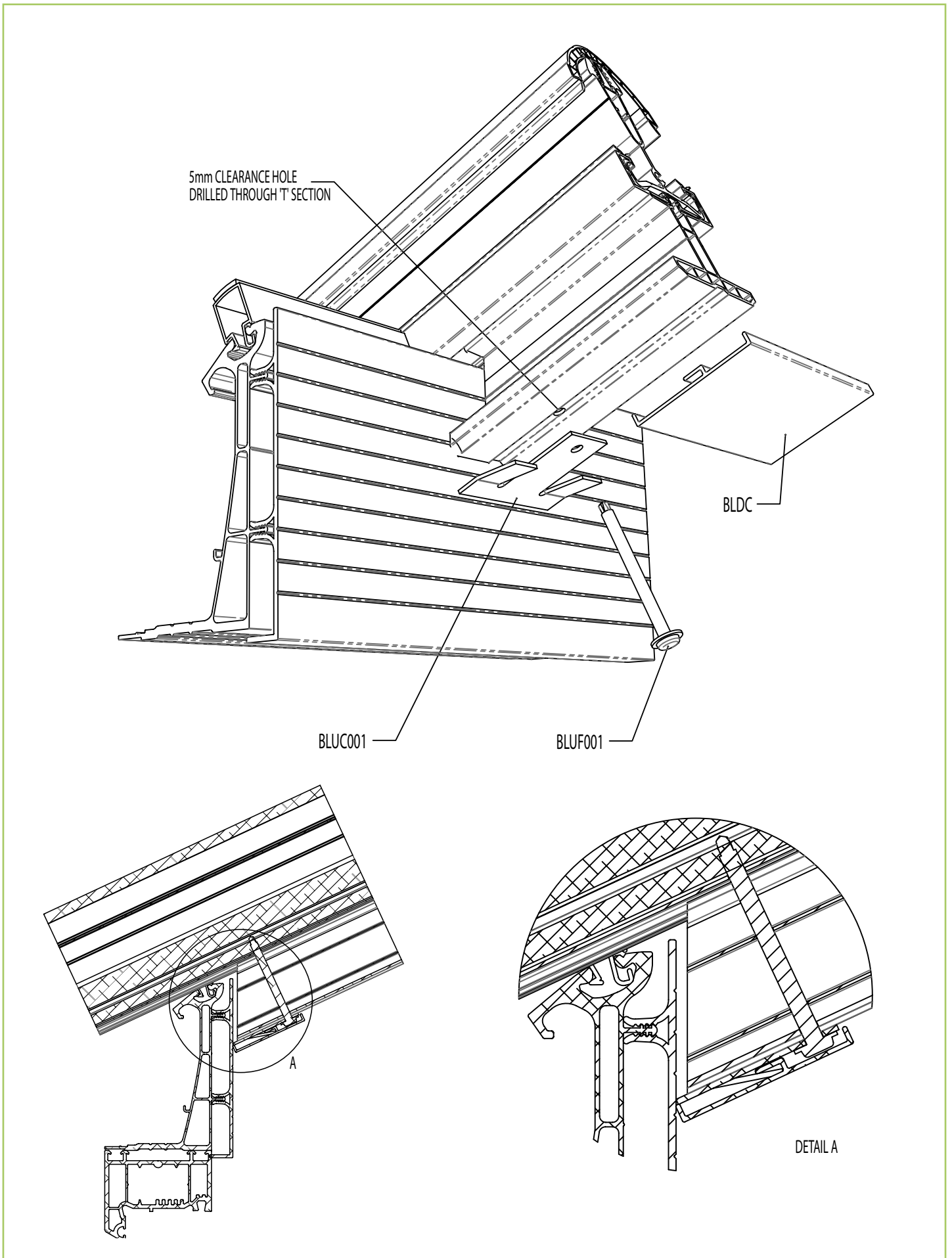


Measure, trim and push fit the ridge undercladding into place.

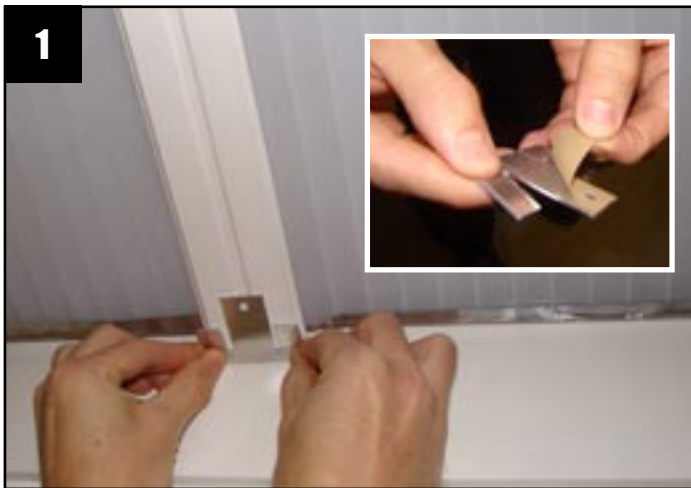


To remove the 'T' section - Squeeze the 'T' section legs together as shown and pull down.

section 8 Finishing Trim Installation

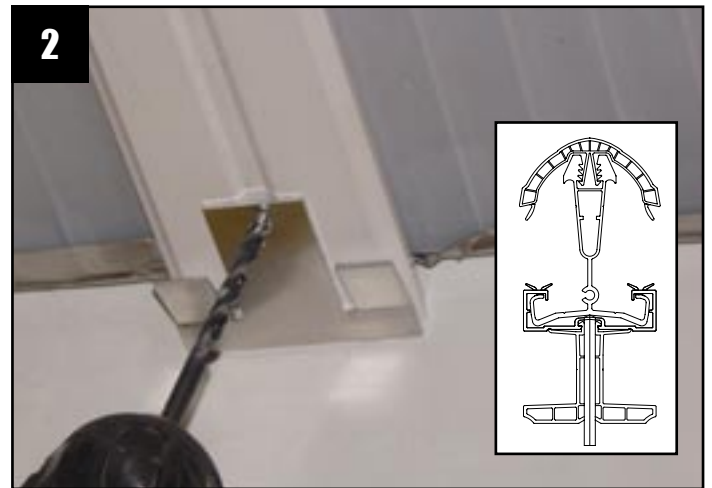


Internal Trim Installation



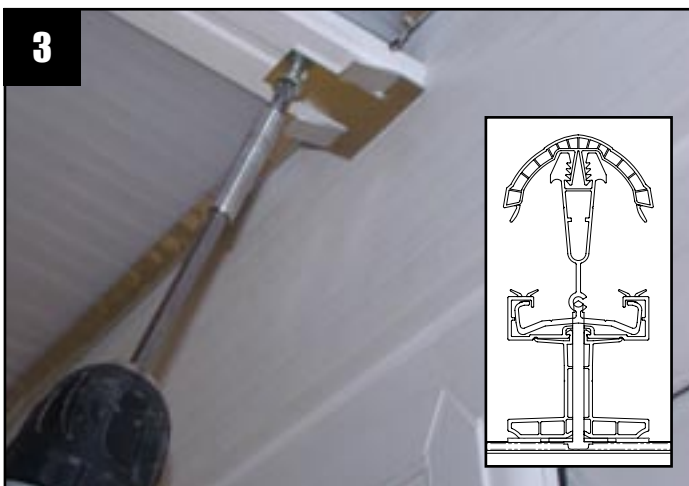
Remove the protective paper on the double sided tape. Position the bracket against the fascia and the 'T' section and stick into position.

NOTE: Centralise the bracket with the 'T' section using the hole in the bracket.



Drill a clearance hole through the 'T' section up to the aluminium glazing bar using a 5mm diameter drill as shown above.

NOTE: Do not drill the glazing bar.



Permanently fix the bracket to the 'T' section and glazing bar with the self drilling screw (BLUF001).



Position the finishing trim as shown. The strap of the bracket must be in the rabbet of the finishing trim.



Using a small piece of wood and a rubber mallet as shown, tap the finishing trim up to the fascia board.



Do not install any fixing bracket into the corners of the conservatory. In the corner the finishing trim is positioned on top of the 'T' section as shown, no fixing is required.

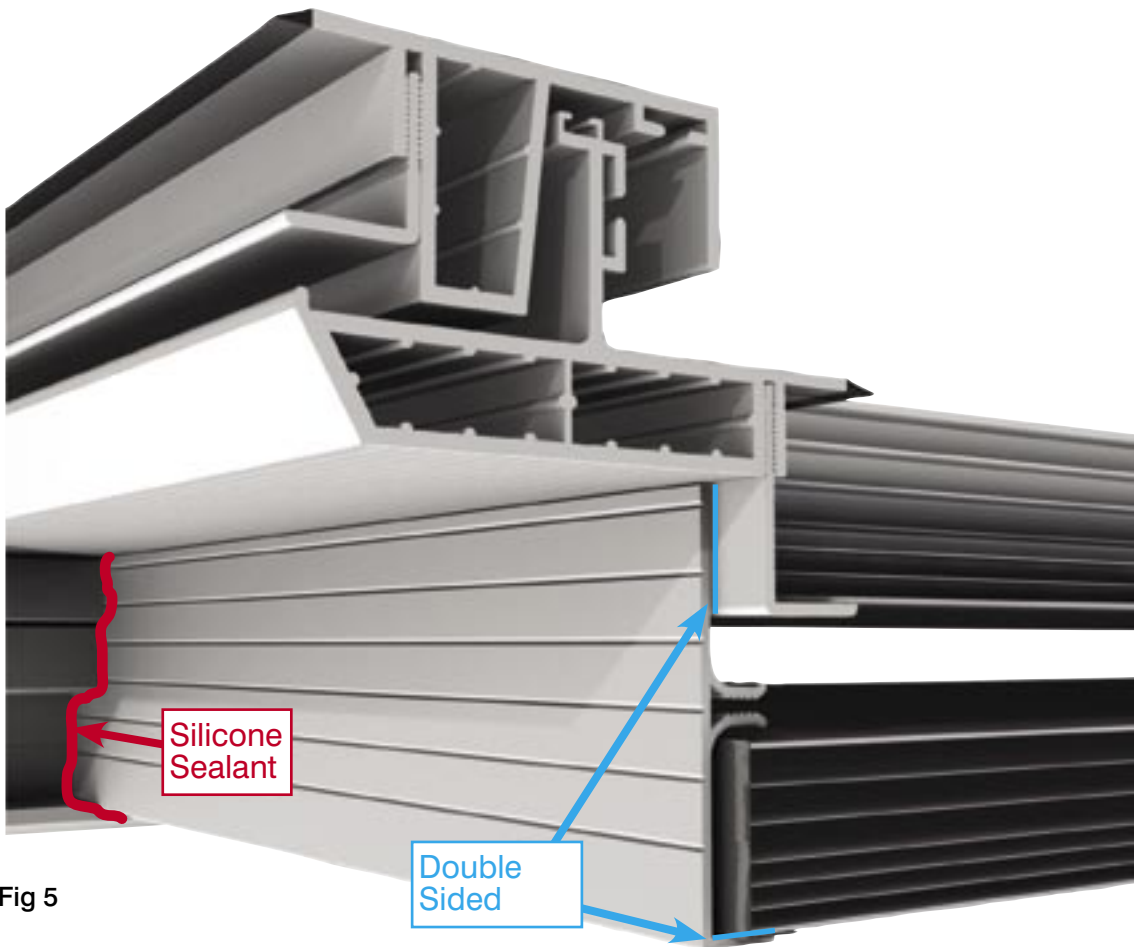


Fig 5

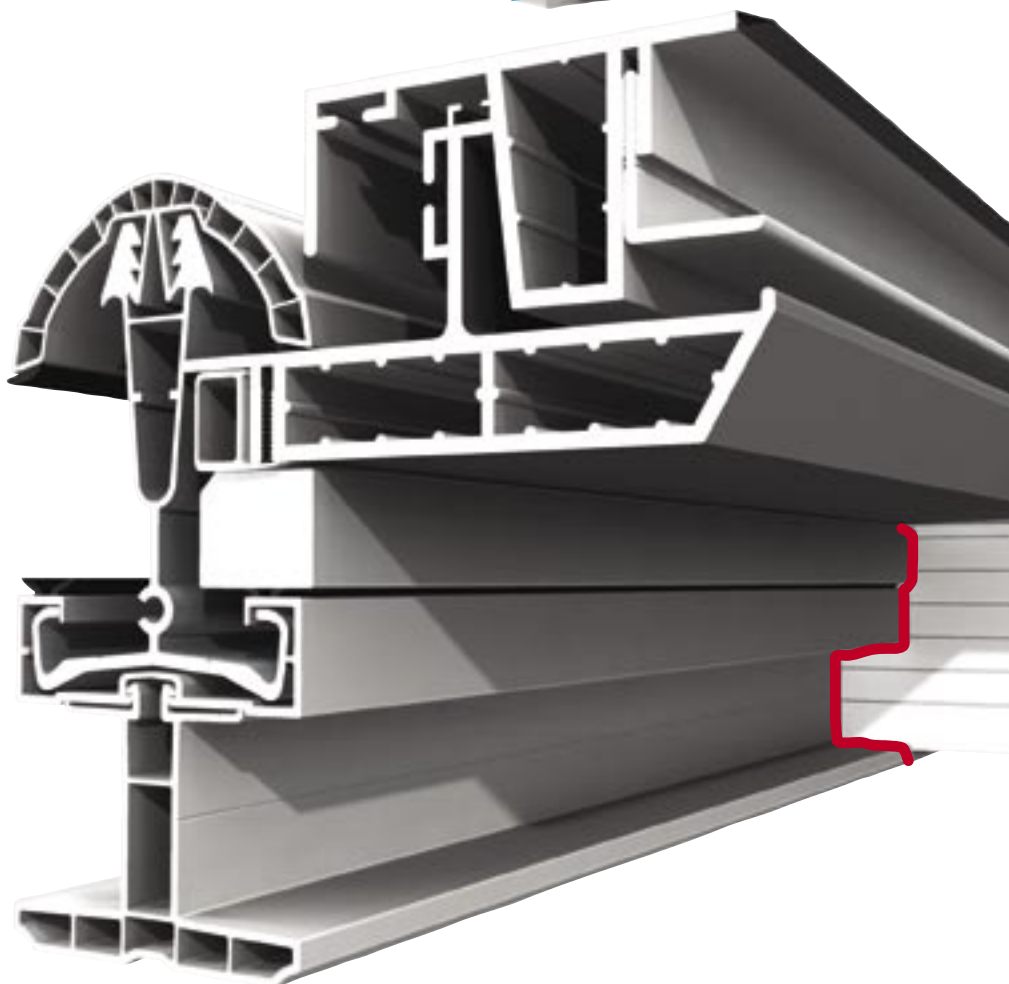
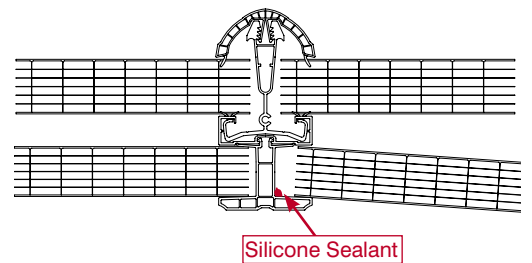
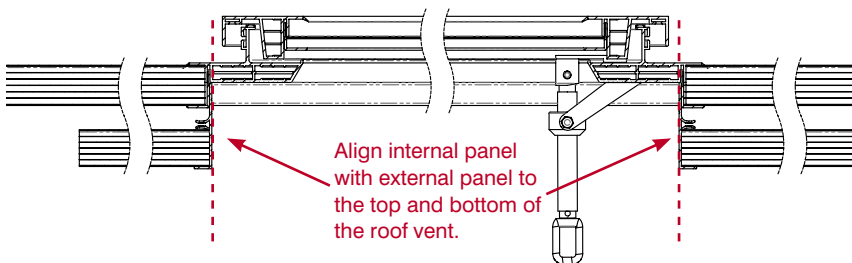
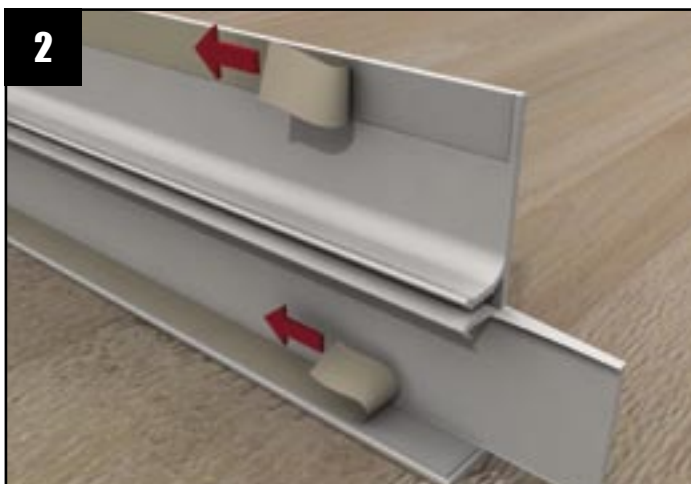


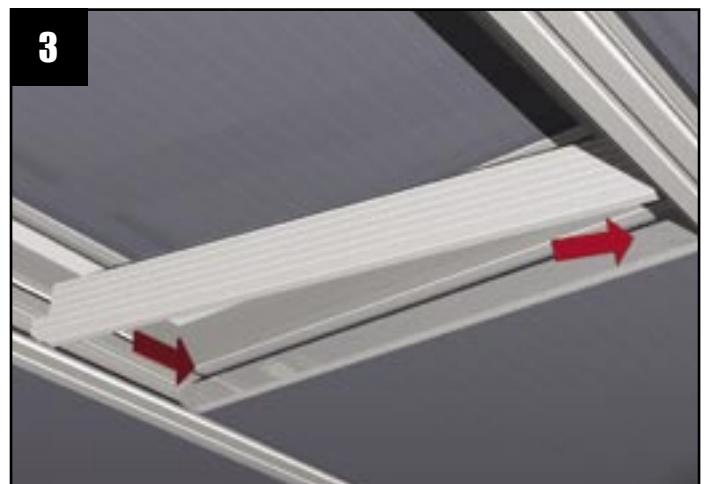
Fig 6



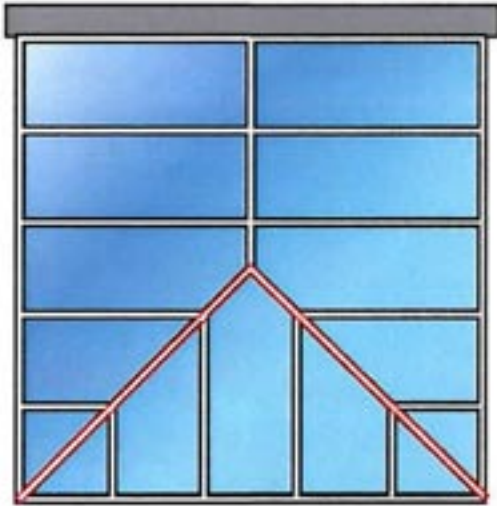
Apply silicone on to the section on to both panel vent.



Trial fit the finishing trims, remove the adhesive backing and fit.



Fit the silicone trim to the top and bottom of the roof vent and silicone seal as shown in figs 5/6.



Note

Fit hip bars first before fitting any eaves fascia.



1. Fit bolster bar into the socket at the radius end. Then at the eaves, fit by rocking over to the side and feeding over the eaves then rock over the opposite way.



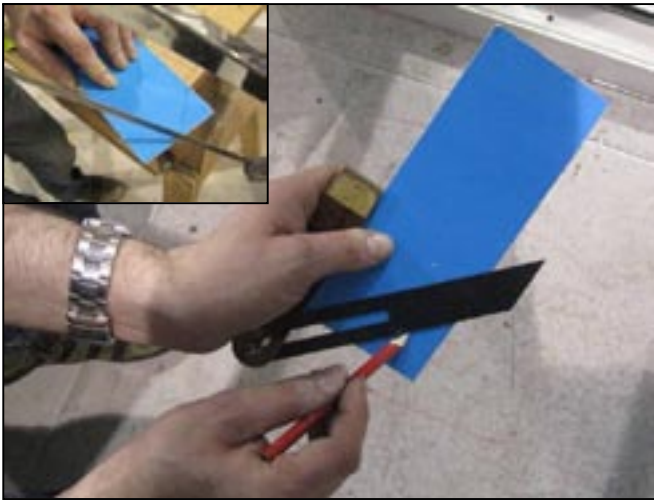
2. Once in position, tighten bolts to secure.



3. Using bevel or similar, measure angle of hip bar to the eaves as shown.



4. Using infill kit (BLBC001) hold plate (BLBC001/2) in centre of hip bar and mark position where eaves beams meet.



5. Using this mark, transfer the angles onto the plate and cut.



6. Fit cut down plate between L sections. The plate should sit in the channels running down the section.



7. Fit eaves fascia at this point. Slide eaves fascia in behind hip bolster bar. Leave a slight gap between adjacent eaves beam for fitting corner.



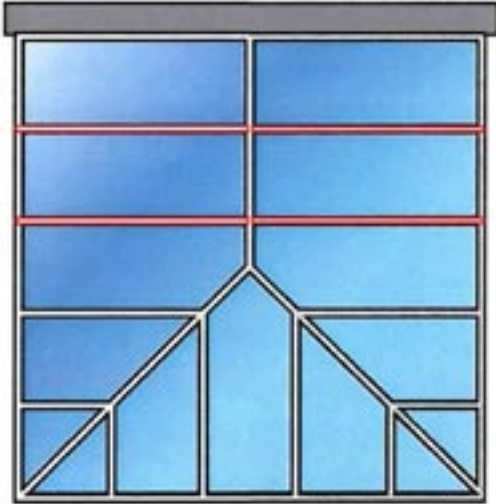
8. Slide Fascia corner behind bolster and mark using lower edge of bolster infill plate. Cut corner to this line.



9. Slide opposite eaves fascia in behind hip bolster bar. Insert cut down corner between fascias and then continue to slide fascias until joint is tight.



10. Silicone and fit bolter end cap.
 •BLBC001/1 – Transom
 •BLBC001/2 – Georgian Hip
 •BLBC001/3 – Victorian Hip

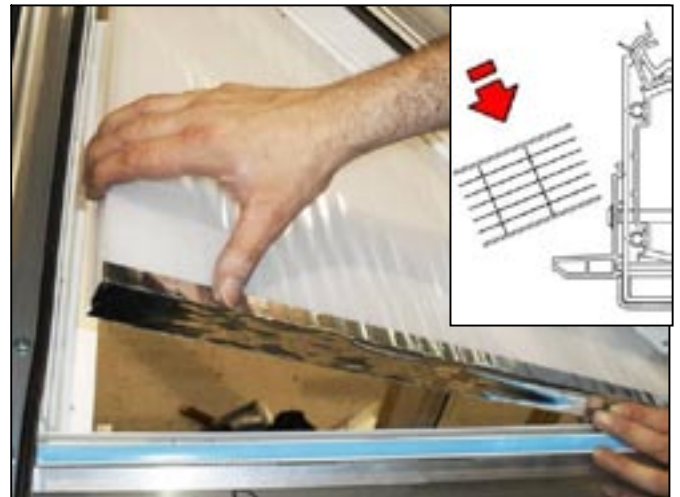


Note

Fit all fascia boards first and then fit transom bars.



11. Fit transom bars (bolstered bar shown).



12. On the bolster bar only, fit the inner layer of polycarbonate from the **outside** of the roof.



13. Mark and cut to length 08586W1 (20mm x 25mm). Peel back protective film off tape and secure down the lengths of the lower layer of polycarbonate.

Note: At this point install outer layer of glazing.



14. Cut BLUC001 as shown. With bent arms pointing upwards, a left hand bracket requires the right hand arm removing and vice versa.



15. Using the self drilling screw provided, fix bracket into L sections hard up against the bolster as shown.



16. Cut BLAT001 or BLAX001 to the correct angle and length to run down the hip bar. Remove protective film off tape and apply to the underside of polycarbonate down the length of the bolster bar.



17. Fit BLDC to brackets and tuck into hip L section. In a valley situation tuck into valley undercladding.



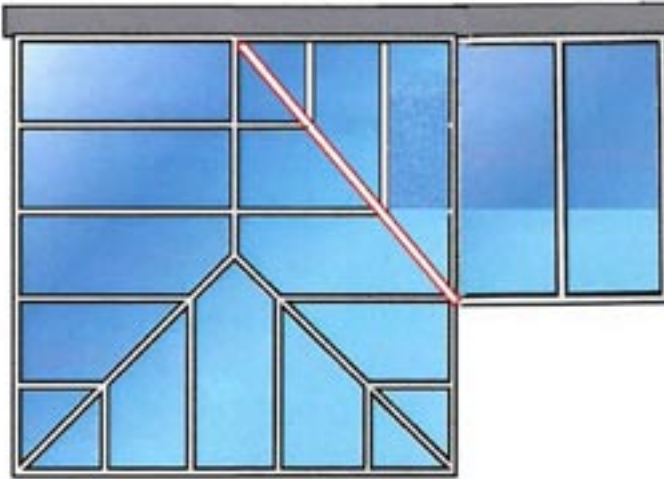
18. Using drift, knock BLDC into position to secure.



19. Fit supplied infill plate (BLBC001/2) from kit (BLBC001) and fit between L sections at top of hip bolster bar.



20. Mark the infill plate at the end of the L sections and square cut across. Re fit and attach bolster end cap (BLBC001/1,2 or 3) as per the bottom of the bolster hip bar. (See step 10).



Note

Fit internal polycarbonate prior to fitting valley undercladding.



1. Fit internal layer of polycarbonate using the same process as for standard transoms.



2. Fit valley undercladding as shown. Note: BLDC can be fitted before or after valley undercladding. (See step 6 for fitting after valley undercladding).



3. Measure the distance and angles between bars up the valley. Transfer measurements onto supplied architrave (BLVT500) and cut to suit.



4. Apply small bead of silicone to underside of architrave and carefully fit along valley undercladding.

Utopia valley fitting guide



•Finished trim shown in position.



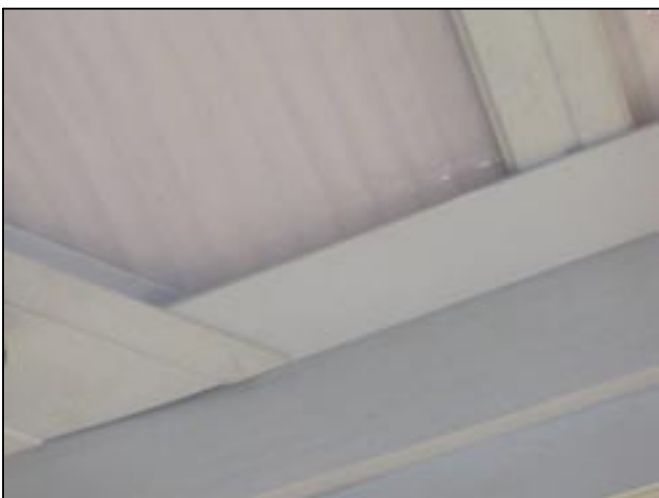
5. If fitting BLDC after valley cladding .Fit BLDC to brackets and tuck into hip L section.



6. Tuck BLDC into valley cladding.



7. Using drift, knock BLDC into position to secure.



Finished trim in position.

ultraframe

Ultraframe (UK) Ltd, Salthill Road, Clitheroe, Lancashire. BB7 1PE

www.ultraframe.co.uk

Ultraframe is a trading name of
Ultraframe (UK) Ltd.