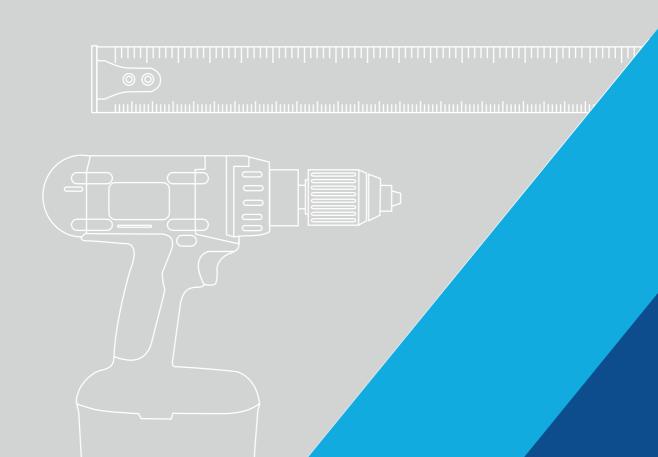


**GLAZED ROOF SOLUTIONS** 

## ENGINEERING STRENGTH

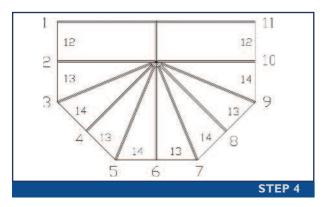
Installation manual











Open boxes, remove all main frame components and lay out arranging rafters in numerical order.

**N.B.** Care should be taken to avoid damaging or scratching

Choose an area of soft ground or use packaging materials.

Take aluminium bracket and insert into each rafter and ensure that it

Check screw is located at the top of rafters but do not screw fully home, allow hook brackets to slide in.

**N.B.** This will be convenient later in the assembly process.

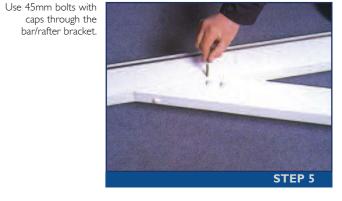
Find conservatory roof drawing in box, and note the numbers and positions of all components ie. Rafters, Ridge, Ringbeams.

Components that are the same size will have the same number allocated to them. The locations will be shown on the plan drawing.



Take ridge bar and connect to fan assembly, slide bracket into the ridge and hook into the pre-routed slot at the back of the fan assembly. Tighten ridge bracket screw to secure in place.

Take 'tie bar' rafters, checking numbers to ensure correct positioning and connect as shown in step 2.



'tie bar' rafters have

STEP 2

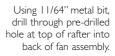
pre-cut slots on the inner face to receive tie bar, and a single hole at top end to screw to fan.

It is easier to connect them with ridge in upright position as shown. Ensure that numbers on rafters correspond with numbers on drawing.

Secure rafter to ridge

bracket using 38mm

screw as shown.



Secure using 70mm screw. Repeat on other rafter.



Completed 'A' frame should be set aside until ring beam assembly is complete.





Fit tie bar into slots in underside of rafters and screw through pre-drilled hole in bottom of tie bar.

Remember to fit seat and caps to screws. Screw length 50mm

When a conservatory has a cantilevered hood the rafters are connected in much the same manner, however it may be necessary to support the ridge on trestles during assembly.









## Lazer Tie Bar (Hidden)



Slide steel lazer bracket into slotted rafter and locate onto ridge bracket.

Proceed to slide other

slotted rafter over lazer

bracket and ridge

bracket. Fix with top screw as normal.

angle over steel lazer

Fix gusset from the

and cap.

underside with screws

bracket.

Clip 2no L shaped cleats simultaneously into the slots provided in the rafters .



Slide tie bar end fixing over the located cleats and fix bolt.



Slide aluminium gusset tri- Tighten nut onto bolt and finish with bolt caps.



Tie bar is completed with mild steel threaded bar and PVC tubular cover.

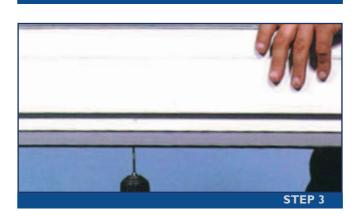




Rod Tie Bar



STEP 2







Locate corner ringbeam bracket into adjoining ringbeam.

**External Corner** - Brackets come attached to ring beam. Locate bracket and screw together through pre-drilled holes using 50mm screws.

Fix ring beam to wall panels by drilling from underside and screwing upwards.

Again it is useful to tape ring beam and frames together before drilling

Install adjustable ring beam plate as shown

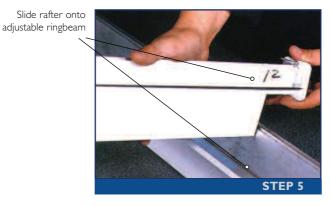








Lift completed 'A' frame onto ring beam and prop ridge against host wall.



Fit brackets into slots in

Tightening the screw will pull the rafter tight.

TOP BRACKET: Hook

bracket into pre-cut slot

in ridge (or fan assembly)

slide rafter onto bracket and place screw through pre-drilled hole in rafter

locating into angled section of bracket.

No bracket is required 



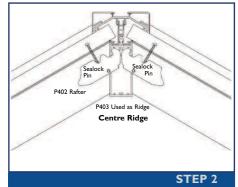
STEP 10



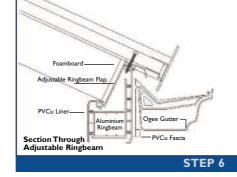


Rafter fixed to adjustable aluminium flap with 50mm s.s. screw.

Tip: Loosely fitting foam board internal liners can help locate rafters into the correct position before screwing.



ridge (pre-cut), slide rafter onto bracket and tighten screw through pre-drilled hole in rafter, locating into angled section bracket.



Ring beam with 'A' - Frame and host wall rafters fitted.

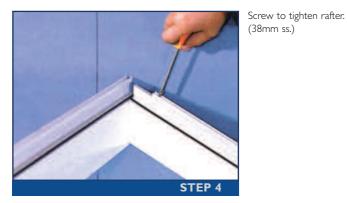


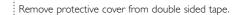
Add all rafters



Fit double sided tape holder (P.V.C.) to adjustable flap of ring beam.

Fix foam P.V.C. inner liner board to adjustable flap with silicone (use sparingly).







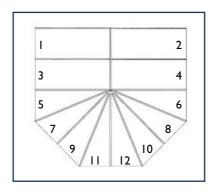








Start glazing from left hand side and continue glazing opposite sides as shown.



Toughened double glazed unit or polycarbonate is set onto ringbeam first and then dropped into the top. (As illustrated)



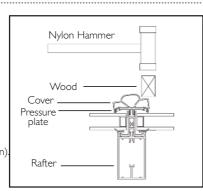
Snap caps onto rafter thermal break and tap firmly into place

Aluminium Caps

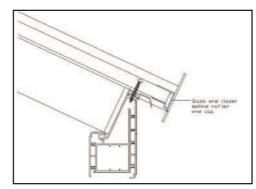
Screw down pressure plates

Locate one side of cover cap and tap other side with a nylon hammer

(Tip: use a block of wood as shown



Fit end closer to bottom of glazing. NOTE: Always slide end closer behind rafter end caps.



TIP - Keep end closer behind rafter cap.



Remainder of work at ridge, etc. will be from top of glazed roof. Roof bars will support a person but care should be taken. Spread weight across rafters and wear soft soled shoes to avoid damage to glazing material.

Seal around front fan assembly with silicone.



Slide cresting modules into place.

Diagram showing ridge

Place the cresting channel

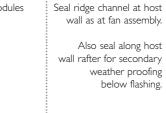
onto ridge, and tap firmly

into place.

cap in position.

STEP 3

STEP 4





Fit hood over threaded upstand.

Cut slots into gasket around rafters and remove any excess rubber from surface of rafter cappings.



STEP 6

Screw finial onto threaded upstand and tighten.







Before fitting hood cover, seal end of channel against fan assembly.

## I. Do Not Remove Timber Inserts Until Glazing Commences 2. Do Not Remove Valley Rubber From Clip Connectors"

STEP 2

STEP 3



Ensuring the first ridge is level, fit the lean to ridge against the host wall.

Secure ridge to host wall using 100mm x 10mm Fischer bolts, min Ino per

the top of the valley.

Lift the valley rafter

main valley rafter.

into position by locating

the brackets inside the

Locate 2no brackets in the slots provided.

Fix the bottom valley cap unto the ringbeam shelf making sure the valley is in the correct position.



STEP 5

The 2no ridges when fitted together will form Slide the valley rafter over the bottom cap and tap down gently.



Fix through the side of the main valley rafter into the legs of the bottom cap.



Trim sides of connected valley rafter with PVC foamboard.





STEP 10





Starting at the top of the valley fit jack rafter into ridge as normal and locate bottom bracket (already attached) into slots on valley rafter.

When jack rafter is in position bore hole with 1/8" bit and secure with a 25mm screw and cap. Repeat on other jack rafters.

When all jack rafters are in position then glazing can commence.

Remove timber inserts from valley glazing cap. Do not push cap down until glazing is complete.

Locate glazing into valley and slide down under rubber/PVC valley cap.

**TIP:** It is useful to use a scraper to prise the valley cap up.



Push the valley rafter slowly over the brackets until it is tight into the top corner: If necessary trim with flat PVC.







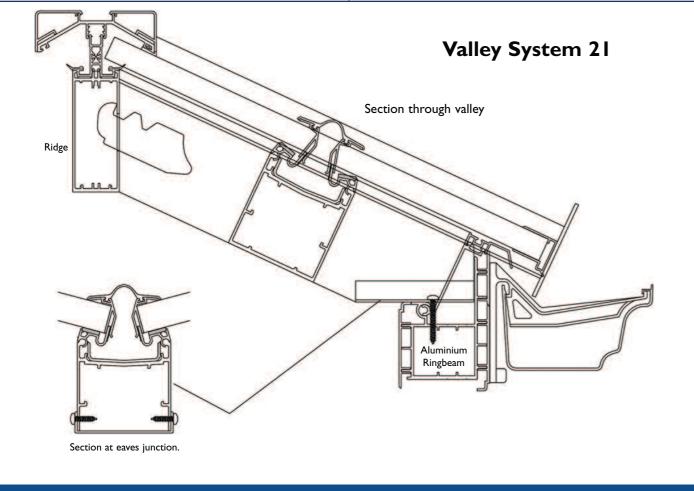
STEP 13

Continue to glaze the rest of the valley.

When all the glazing is fitted into the valley and the valley cap is pushed down tight, fit the jack rafter cover caps.











Hook hip bracket into fan assembly or screw fix on mark II ridge.

Screw fix into ringbeam flap at bottom through PVC

Locate top of JACK RAFTER with

factory fitted bracket

attached into slot on

achieve a better 'pull' when screwing into long

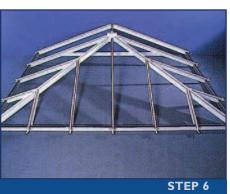
hip rafters).

long hip rafter



All the main components are now in position and secure.

> Proceed to glaze. (see page 8)



Drill hole through hip rafter with 1/8" metal bit (widening hole in the JACK RAFTER will Mark and cut PVC and trim tops of glazing sheets on outside and inside.

Silicone PVC into place and seal around cover caps and front of fan assembly.



Due to the angle of the HIP corner more pressure is needed to secure cover caps.



Ensure bottom of rafters are tight to inside of ring beam and screw jack rafter to hip rafter with 38mm screws.

STEP 2

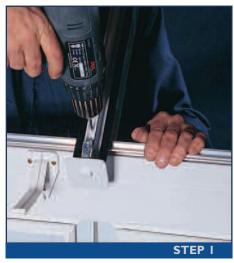












Fix gutter bracket to the side of the roof rafters, not underneath using 25mm screws.

Gutter brackets can be fitted during ring beam preparation.

Hang OGEE GUTTER on bracket as shown and swing into position.



Having snapped gutter into position fit corner



Gutter angles may be fitted to ringbeams before they are fitted on top of the wall panels.





Fix external corner gutter brackets to suit sections provided, following manufacturers instructions where



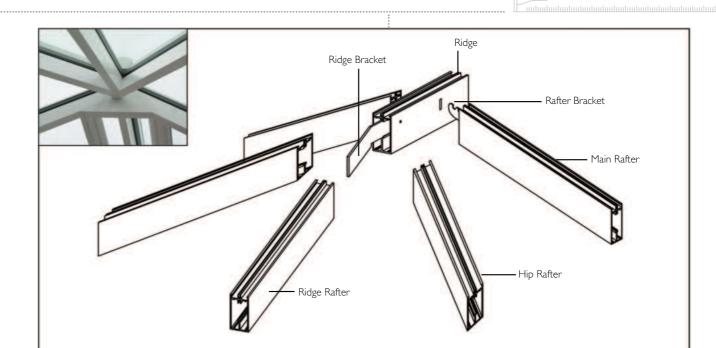


Fix internal corner gutter brackets to suit the gutter angle connector.

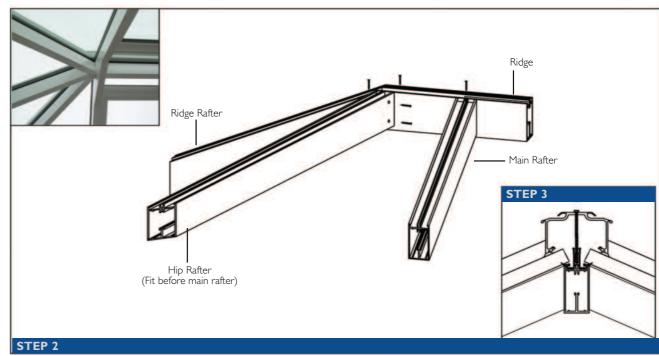








Ridge rafter slots over ridge bracket and is fixed into place from above with the screws provided. Note: where there is no ridge rafter in the design the end of the ridge is capped with a flat cover.



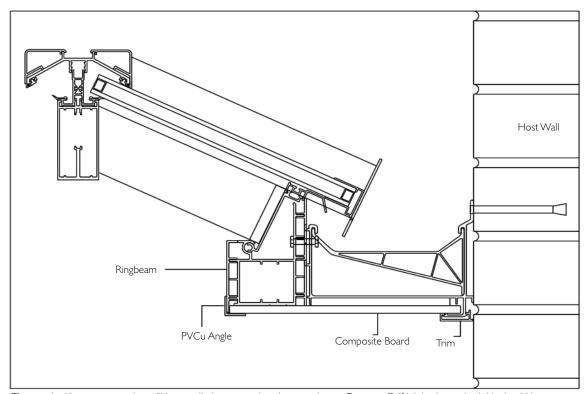
Stitch hip rafter into side of ridge using 2 no screws and cap with dome caps provided. Then fix main rafters into slots provided (See rafter assembly section).

Screw mark II ridge cover into main ridge bar and cap with dome caps.





STEP 3

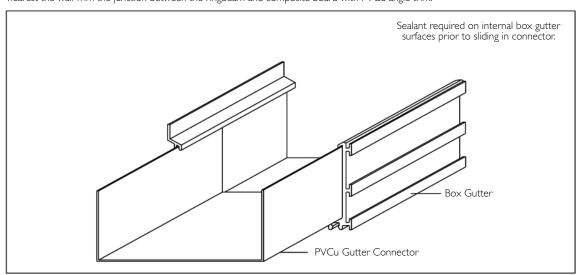


The standard box gutter section will be supplied connected to the eaves beam. On one offs if joining is required this should be completed before the box gutter is installed.

The internal box gutter supports should be positioned at approx 500 mm centres.

The box gutter should be positioned on top of the window frames and fixed to the host wall at maximum 500mm centres with propriety fixings.

The box gutter is cladded underneath with composite cladding board. Firstly push composite board to the underside of the box gutter nearest the wall Trim the junction between the ringbeam and composite board with PVCu angle trim.



Apply two lines of box gutter sealant on all three surfaces of the box gutter and then slide the connector fully into place.

Apply sealant provided at the joint between the box gutter and the connector. Allow sealant to set prior to attaching the main Ogee gutter.



