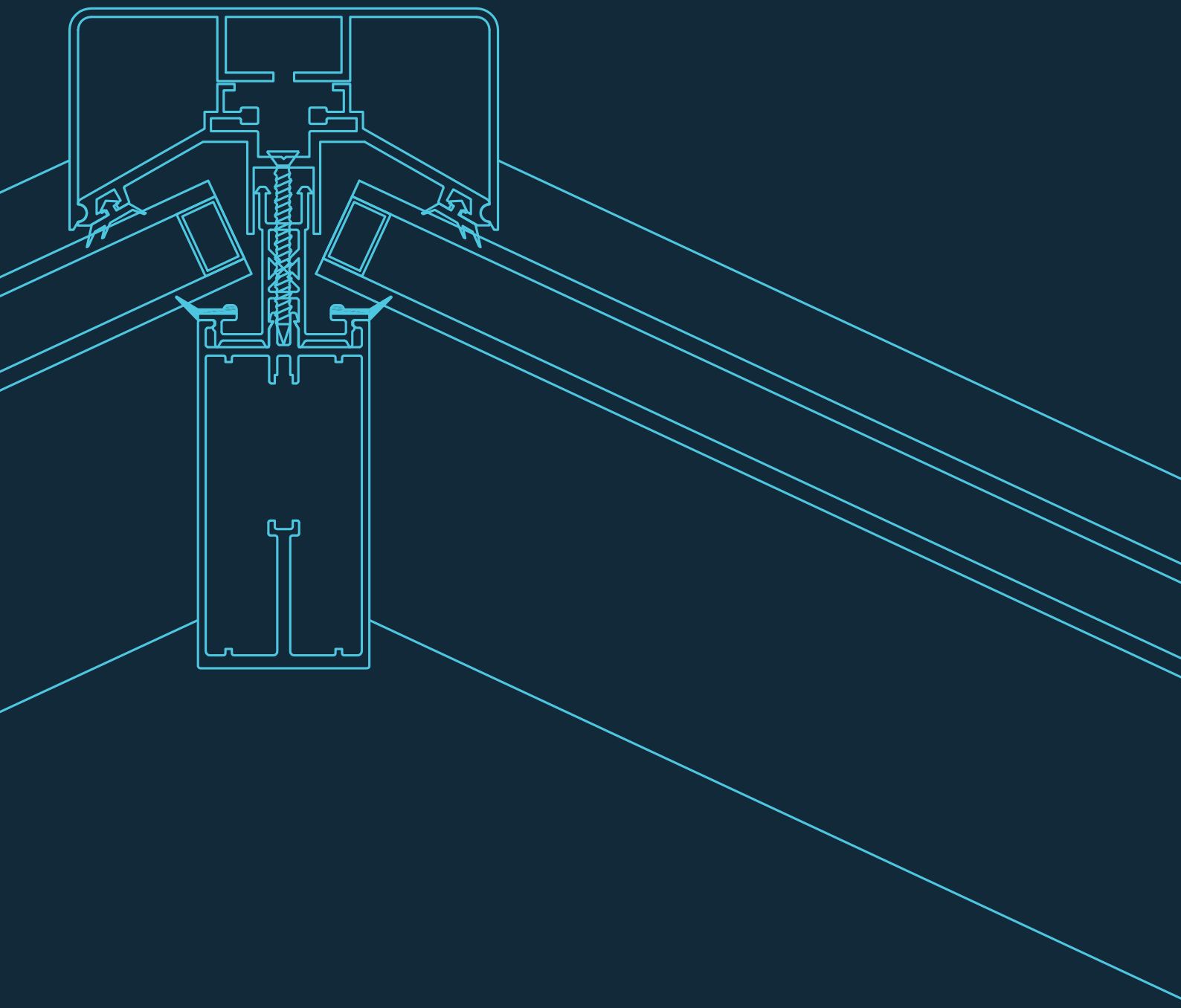


GENERAL
INSTALLATION MANUAL

ATLAS

MORE SKY LESS ROOF™

RAFTER PREPARATION



1

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

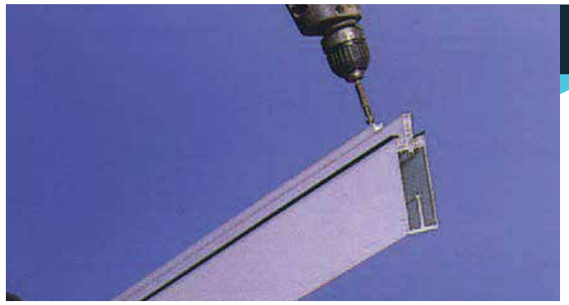
N.B. Care should be taken to avoid damaging or scratching components.

Choose an area of soft ground or use packaging materials.



2

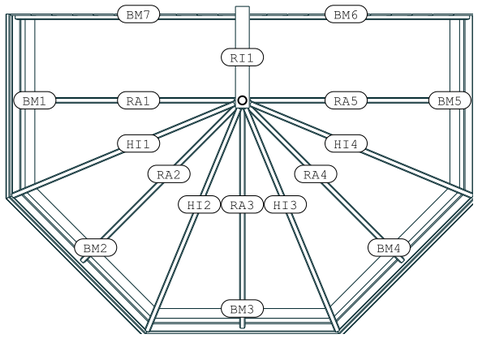
Take hold of the aluminium bracket which is inserted into each rafter and ensure that it slides freely.



3

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.



4

Find conservatory roof drawing in box, and note the numbers and positions of all components i.e. 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.

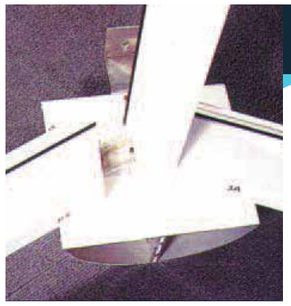
A-FRAME PREPARATION & ASSEMBLY



1

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.

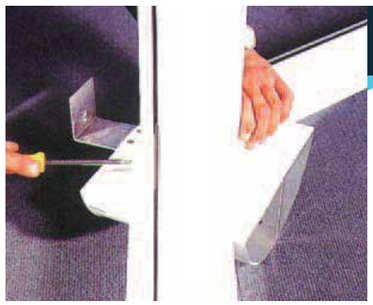
Tighten ridge bracket screw to secure in place. Take 'tie bar ' rafters, checking numbers to ensure correct positioning and connect as shown in step 2.



2

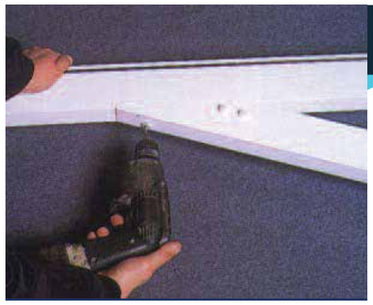
'Tie bar' rafters have pre-cut slots on the inner face to receive the tie bar, and a screw at the top to fix the bracket.

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



3

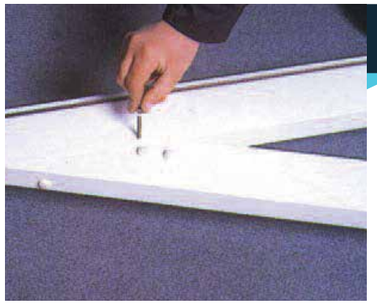
Secure rafter to ridge bracket using 38mm screw as shown.



4

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.



5

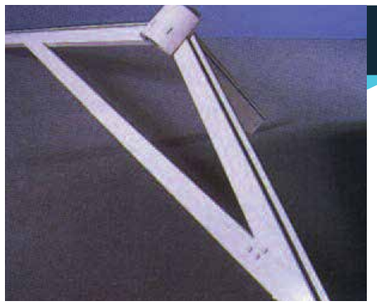
Use 45mm bolts with caps through the bar/rafter bracket.



6

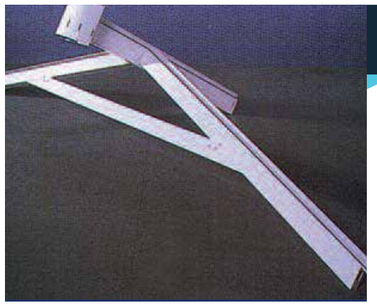
Using 11/64" metal bit, drill through pre-drilled hole at top of rafter into back of fan assembly.

Secure using 70mm screw. Repeat on other rafter.



7

Completed A-frame should be set aside until ringbeam assembly is complete.



8

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.

ALTERNATIVE TIE BAR DESIGNS

Lazer Tie Bar (Hidden)



1

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



2

Proceed to slide other slotted rafter over lazer bracket and ridge bracket. Fix with top screw as normal.



3

Slide aluminium gusset triangle over steel lazer bracket.



4

Fix gusset from the underside with screws and cap.

Rod Tie Bar



5

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



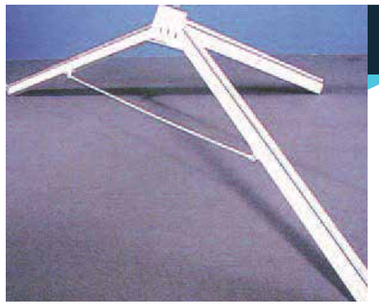
6

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



7

Tighten nut onto bolt and finish with bolt caps.



8

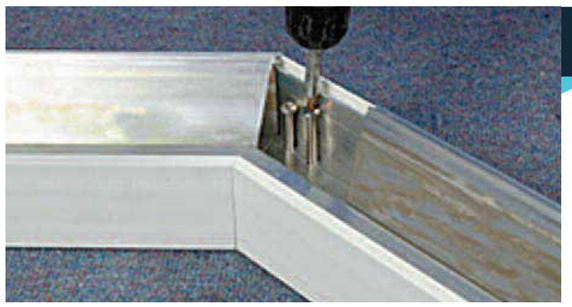
Tie bar is completed with mild steel threaded bar and PVC tubular cover.

RINGBEAM



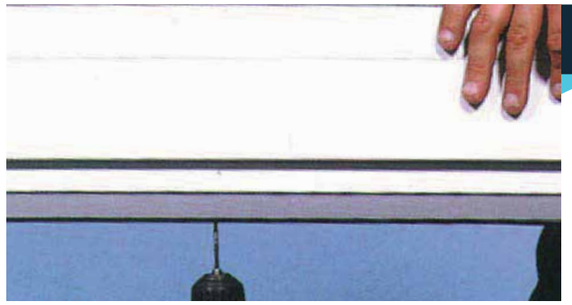
1

Locate corner ringbeam bracket into adjoining ringbeam.



2

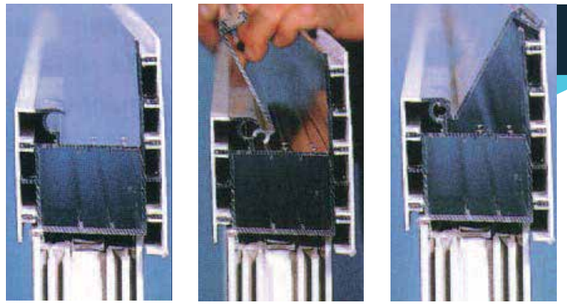
External Corner – Brackets come attached to ringbeam. Locate bracket and screw together through pre-drilled holes using 50mm screws.



3

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

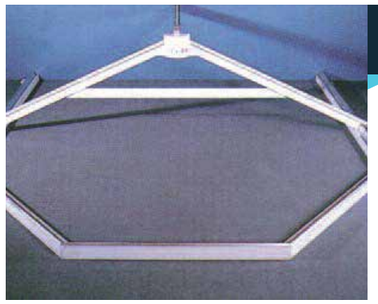
Again, it is useful to tape ringbeam and frames together before drilling.



4

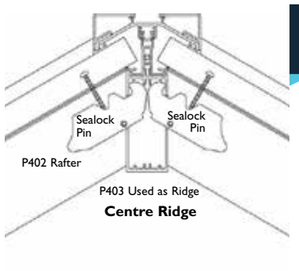
Locate ringbeam flap into main ringbeam at approx. 100° and rotate into circular socket as shown.

RAFTER ASSEMBLY



1

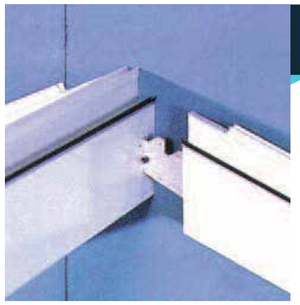
Lift completed A-frame onto ringbeam and prop ridge against host wall.



2

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

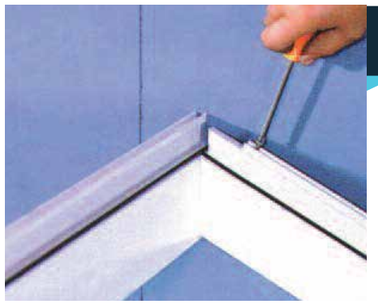
Tightening the screw will pull the rafter tight.



3

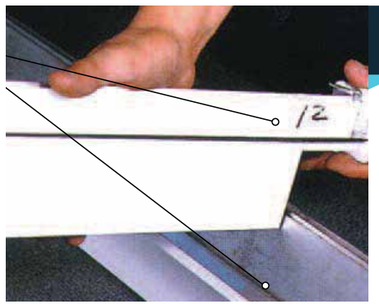
Top Bracket: Hook bracket into pre-cut slot in ridge (or fan assembly) slide rafter onto bracket and place screw through pre-drilled hole in rafter locating into angled section of bracket.

No bracket is required for the bottom.



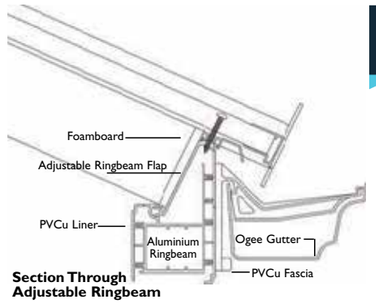
4

Screw to tighten rafter. (38mm ss.)

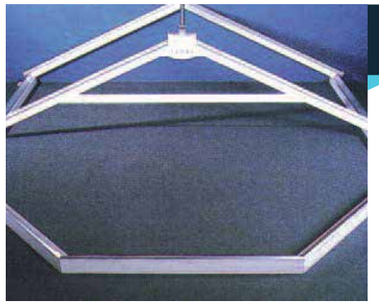


5

Slide rafter onto the adjustable ringbeam.

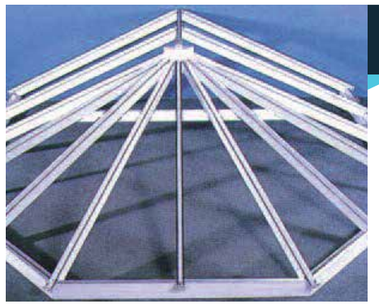


6



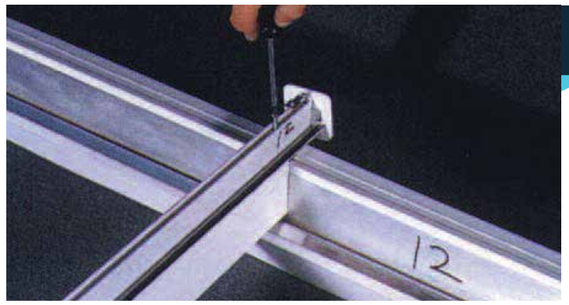
7

Ring beam with 'A' — frame and host wall rafters fitted.



8

Add all rafters.



9

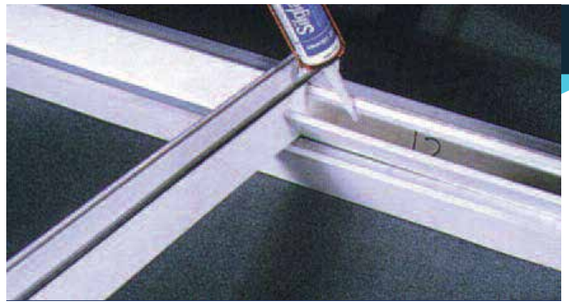
Rafter fixed to adjustable aluminium flap with 50mm s.s. screw (through centre of rafter)

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



10

Fit double-sided tape holder (P.V.C.) to adjustable flap of ringbeam.



11

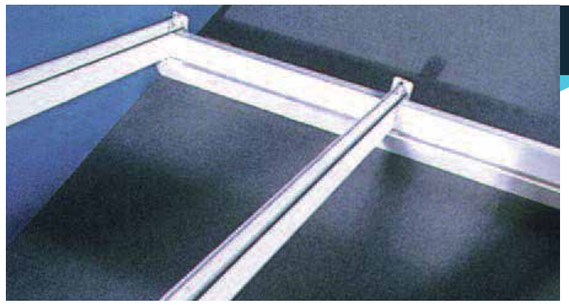
Fix foam P.V.C. inner liner board to adjustable flap with silicone (use sparingly).



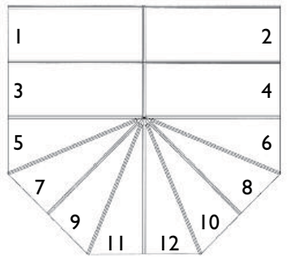
12

Remove protective cover from double-sided tape.

GLAZING



1



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

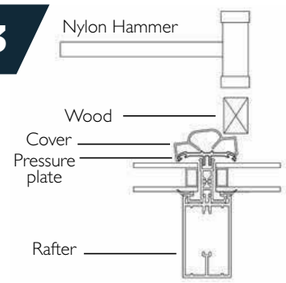


2

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



3



PVCu Caps

Snap caps onto rafter thermal break and tap firmly into place.

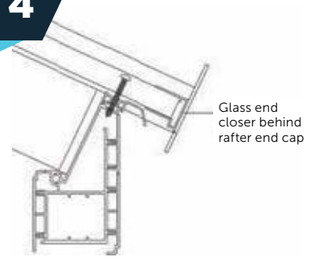
Aluminium Caps

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).



4



Fit end closer to bottom of glazing.

Note: Always slide end closer behind rafter end caps.

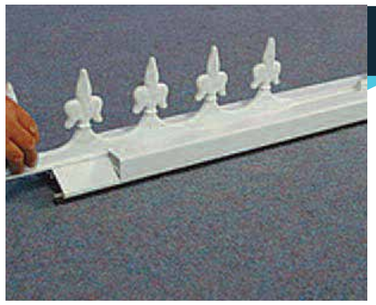
(Tip: - Keep end closer behind rafter cap.)

FINIAL AND CRESTING



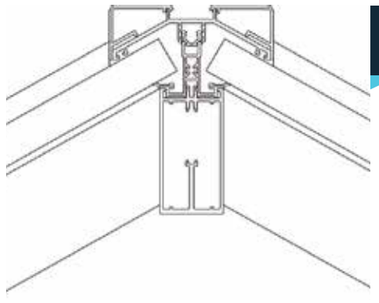
1

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.



2

Slide cresting modules into place.



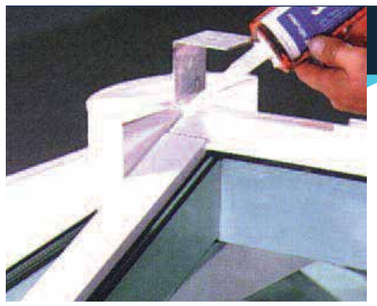
3

Diagram showing ridge cap in position.



4

Place the cresting channel onto ridge, and tap firmly into place.



5

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



6

Seal ridge channel at host wall as at fan assembly.

Also seal along host wall rafter for secondary weather proofing below flashing.



7

Fit hood over threaded upstand.

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



8

Screw finial onto threaded upstand and tighten.

VALLEY ASSEMBLY



1

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

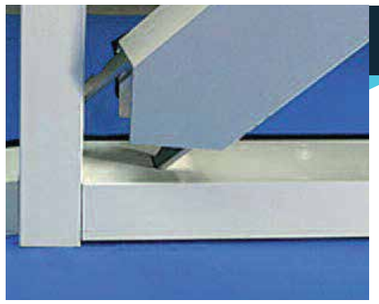
Secure ridge to host wall using 100mm x 10mm Fischer bolts, min 1no per bay.



2

The 2no ridges, when fitted together, will form the top of the valley.

Locate 2no brackets in the slots provided.



3

Lift the valley rafter into position by locating the brackets inside the main valley rafter.



4

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



5

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



6

Slide the valley rafter over the bottom cap and tap down gently.



7

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



8

Trim the sides of the connected valley rafter with the PVC foamboard.



9

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.



10

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.



11

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

Do not push cap down until glazing is complete.



12

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.

VALLEY ASSEMBLY & GLAZING



13

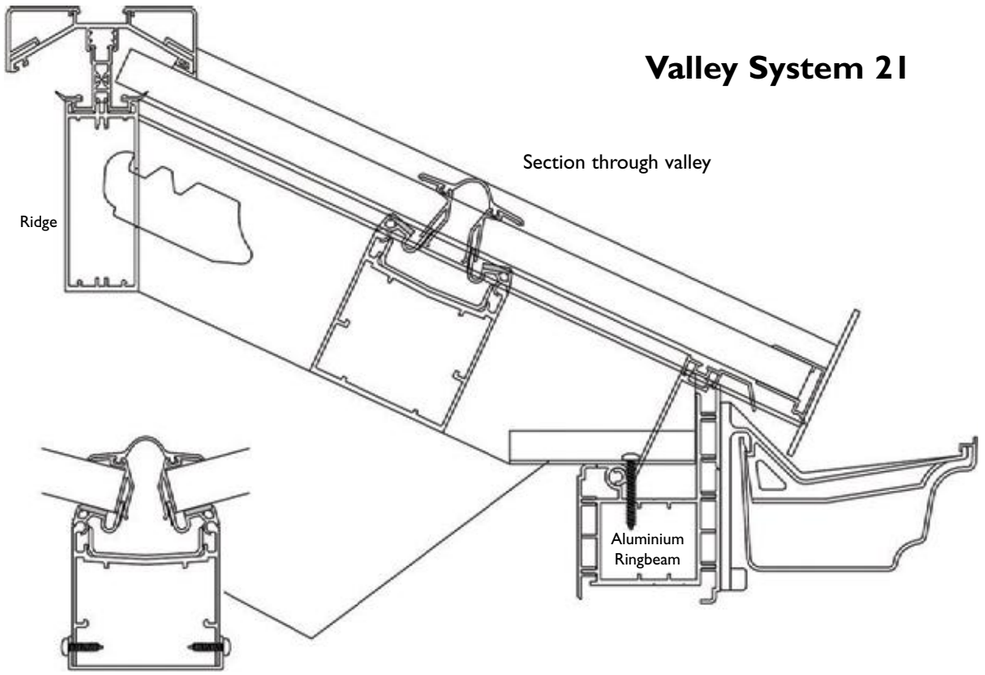
Continue to glaze the rest of the valley.



14

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

Valley System 21



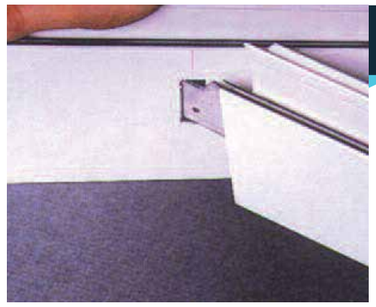
Section at eaves junction.

HIP ASSEMBLY



1

Hook hip bracket into mark II ridge or fan assembly.



2

Locate top of jack rafter with factory-fitted bracket into slot on hip rafter.



3

Rotate the ringbeam flaps keeping them tight against the hip rafter cut.



4

Fix each side of the hip glazing seat into the ringbeam flaps at the corners.



5

Rafter should now be fitted as shown. Jacks and centre rafters are screwed centrally.



6

All the main components are now in position and secure.

Proceed to glaze. (see page 8)



7

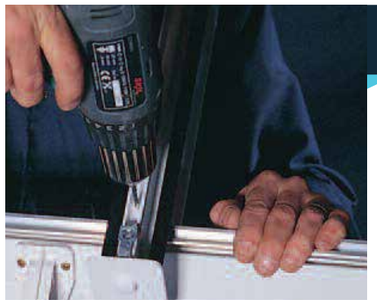
Mark and cut PVC and trim tops of glazing sheets on outside and inside. Silicone PVC into place and seal around cover caps and front of fan assembly.



8

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

GUTTER



1

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



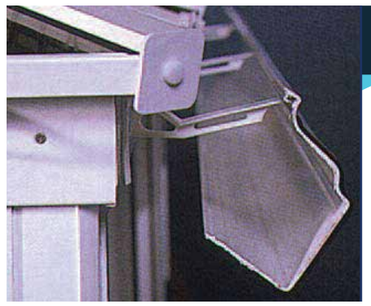
2

For external corners, locate gutter brackets to suit the gutter connector.



3

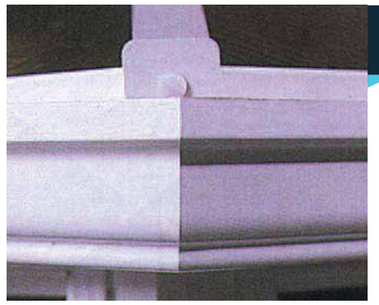
Fix internal corner gutter brackets to suit the gutter angle connector.



4

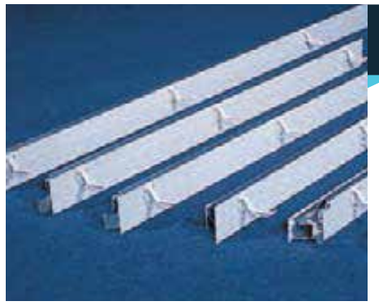
Gutter brackets can be fitted during ringbeam preparation.

Hang Ogee Gutter on bracket as shown and swing into position.



5

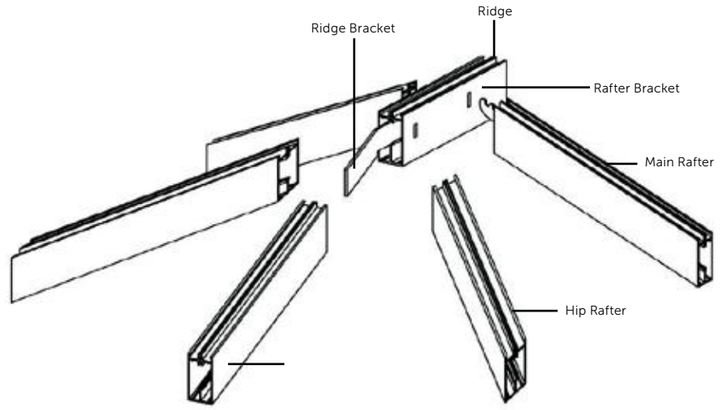
Having snapped gutter into position, fit corner sections provided, following manufacturer's instructions where necessary.



6

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

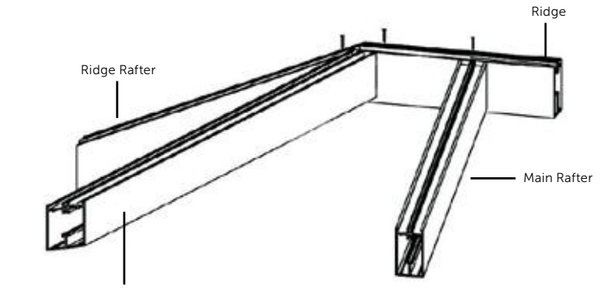
MARK II
RIDGE ASSEMBLY



1

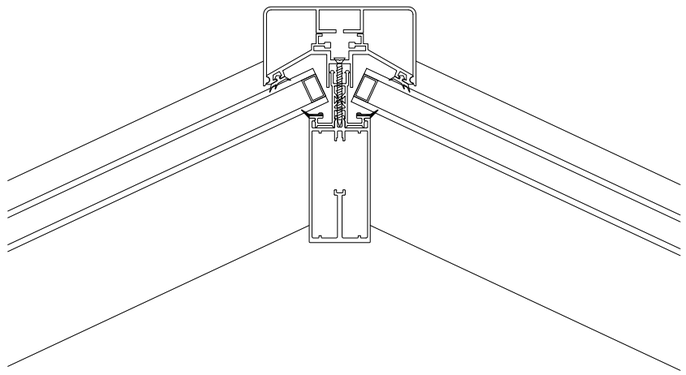
Ridge rafter slots over ridge bracket and is fixed into place from above with the screws provided.

Note: where there is no ridge rafter in the design, the end of the ridge is capped with a flat cover.



2

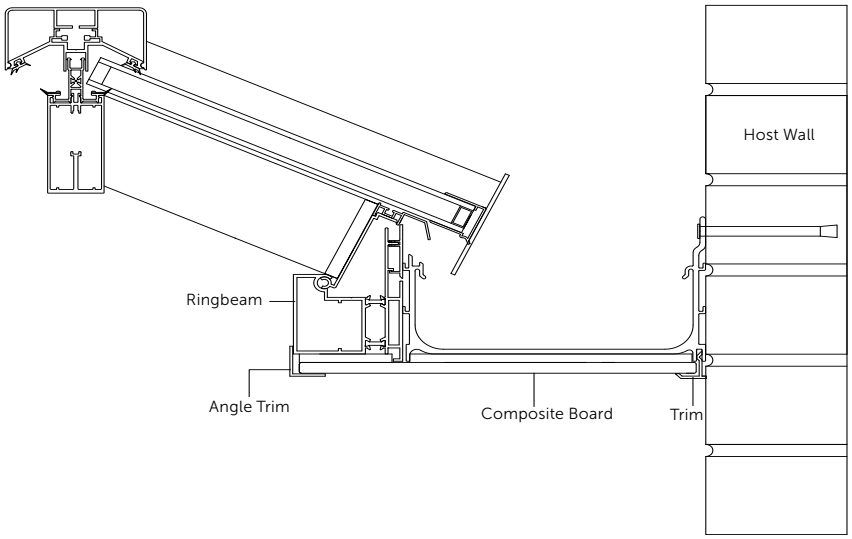
Fix hip rafters and main rafters into slots provided.



3

Screw mark II ridge pressure plate into the main ridge bar and cap with ridge cover.

BOX GUTTER

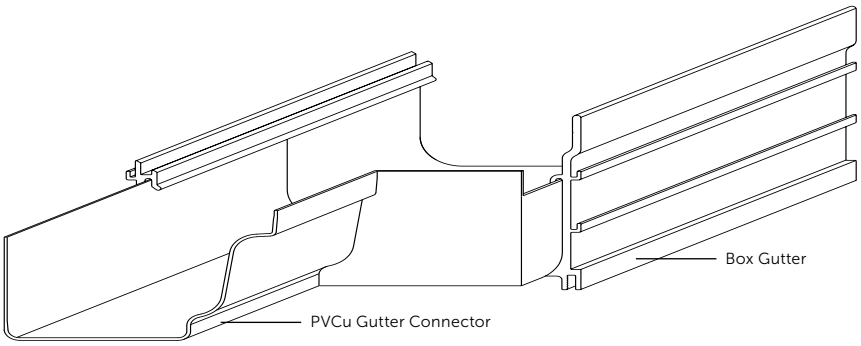


The standard box gutter section will be supplied connected to the eaves beam. On one-offs if joining is required this should be completed before the box gutter is installed.

The 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.

Sealant required on internal box gutter surfaces prior to sliding in connector.



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.

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