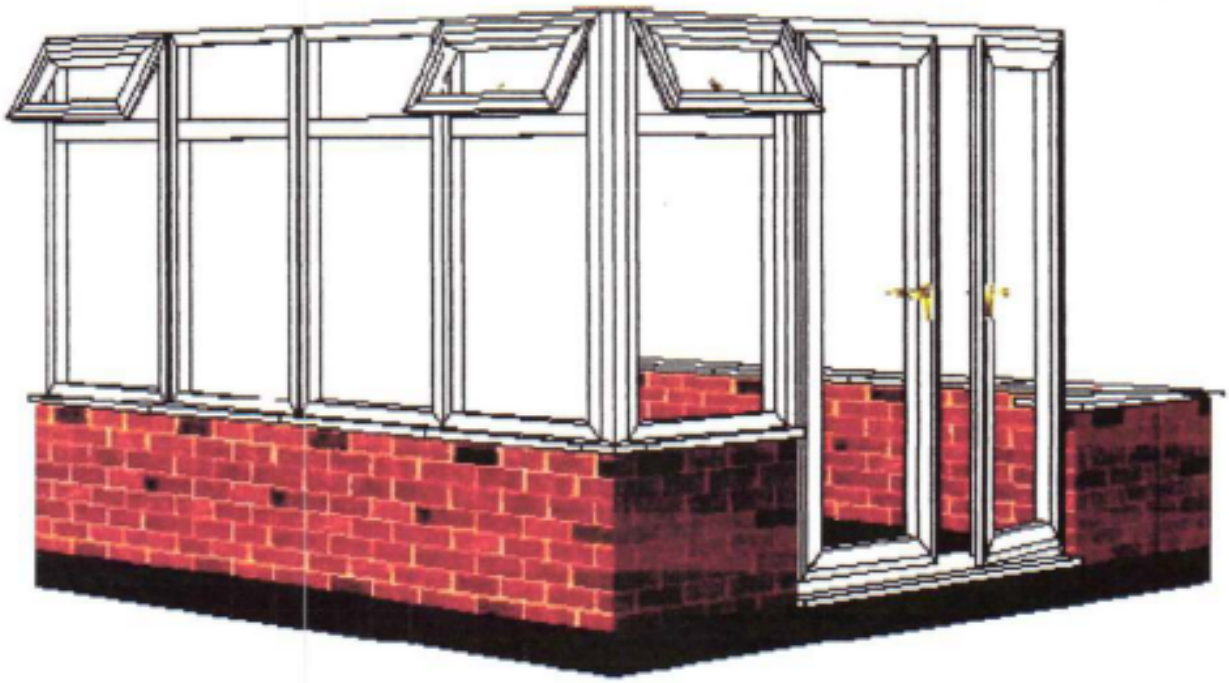
ConservatoryLand®
The Self-Build Conservatory Specialists

CONSERVATORY FRAMES
INSTALLATION GUIDE



FRAME INSTALLATION GUIDE
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If in doubt at any stage

Please contact our Customer Care Team for additional support or advice.

01623 488 774

e-mail: support@conservatoryland.com

STEP 1: Plan Your Installation

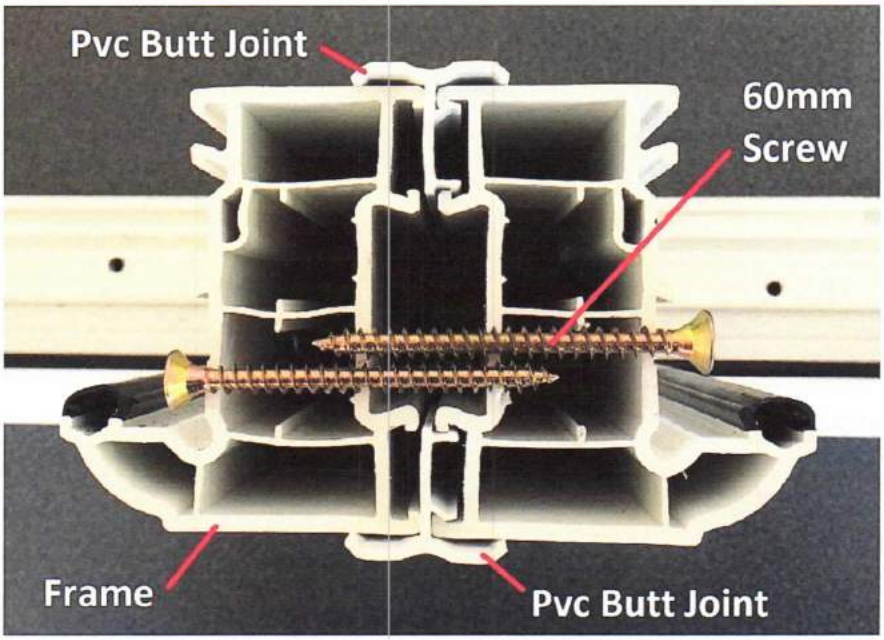
Establish the correct positions of the external cills and frames by referring to the frame layout guide drawing, this drawing will also identify the type and position of joint connectors used in your conservatory construction.

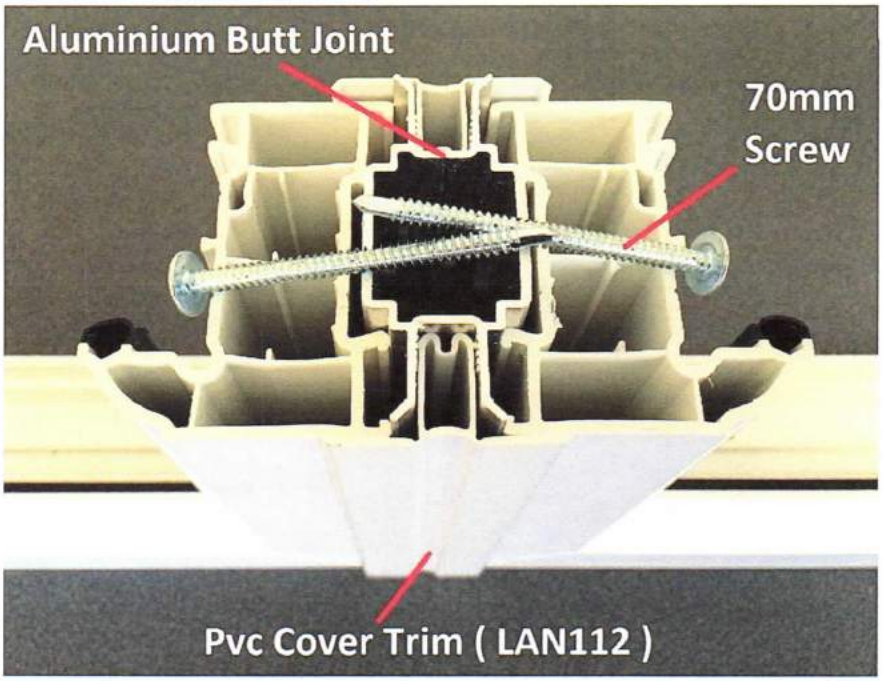
Note : Both the Cills & the Frame sizes allow for the thickness of the joint connectors that will be used during the assembly, the sizes should be checked using the detailed frame size sheet and cill plan, the cills either side of a door way will be 5mm long this is to allow them to project in to the door way as the door frame will be 10mm smaller than the opening to allow for correct fitting.

STEP 2: Join Together Frames to Form Sections/Elevations

Start the assembly by joining the frames together to form a particular section or elevation using the type of joint specified on the frame lay out drawing.

The two types of joint are shown below. Note :- the fixings should not be closer than 100mm to a welded joint and not more than 500mm apart





STEP 3: Attach the External Cills

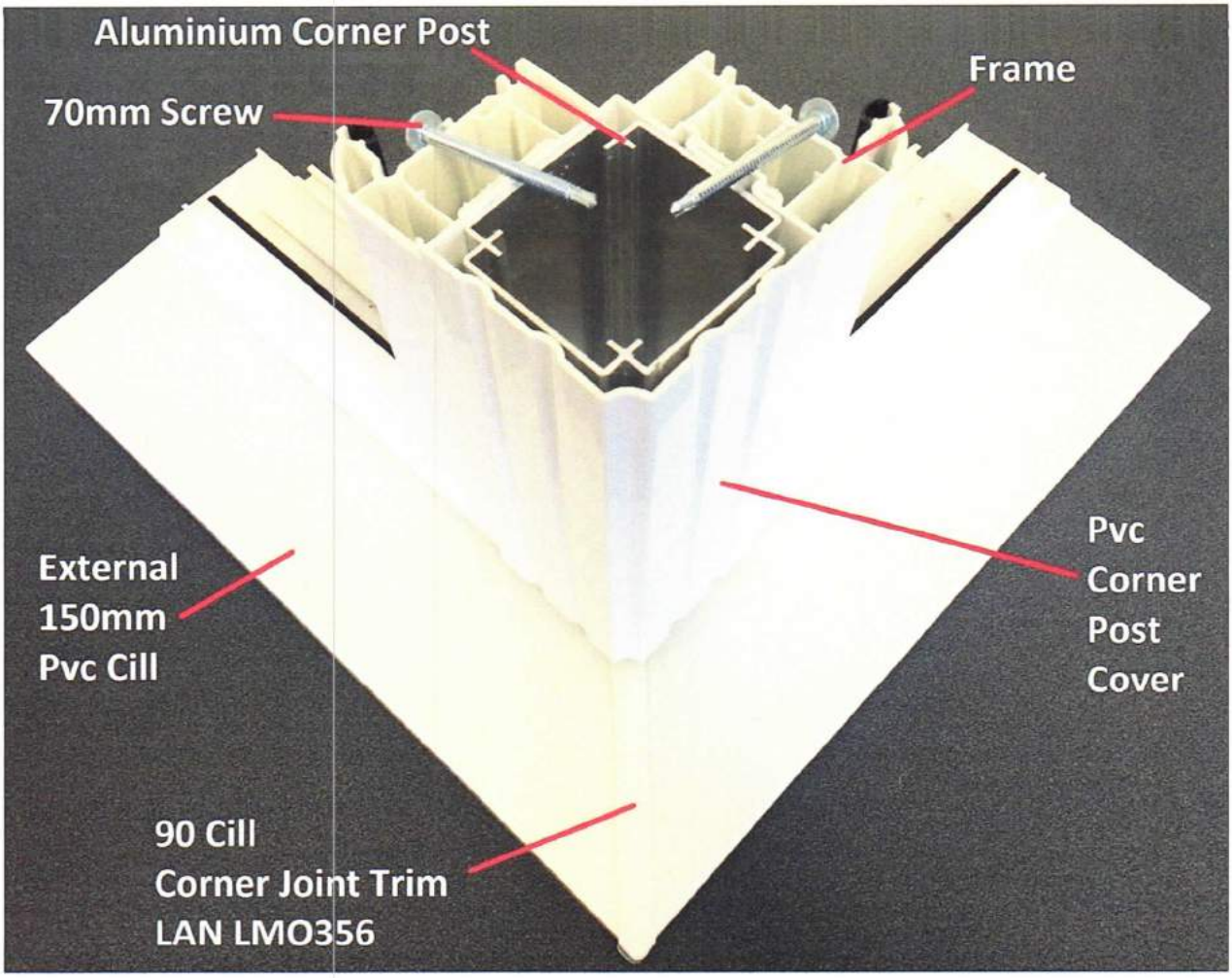
Attach the external cill to the bottom of each assembled section / elevation using the 60mm screws approximately 2 - 4 screws per individual frame. (If the elevation is too large to assemble this way you may have to fit the cill to the wall and add the frames one at a time).

STEP 4: 90º Corner Assembly (Edwardian, Gable & Lean-to Models)

Slide the square hollow PVCu corner post cover over the square hollow aluminium corner post, the square corner post is located in the void where two cills meet at a 90' corner eg Edwardian Or Lean to Sun lounge conservatories.

The corner post assembly is secured in position with 60mm screws positioned at approximately 150mm centres. The PVCu cill has a small lip that will need to be notched to allow the corner post to sit down correctly, when the post is in place the top of the post should be level with the top of the frames. To fix the post you need to drill pilot holes through the frame and into the post before the screw is used. Note :- the fixings should not be closer than 100mm to a welded joint and not more than 500mm apart

The 90° corner post assembly is shown below.



The 90° corner assembly

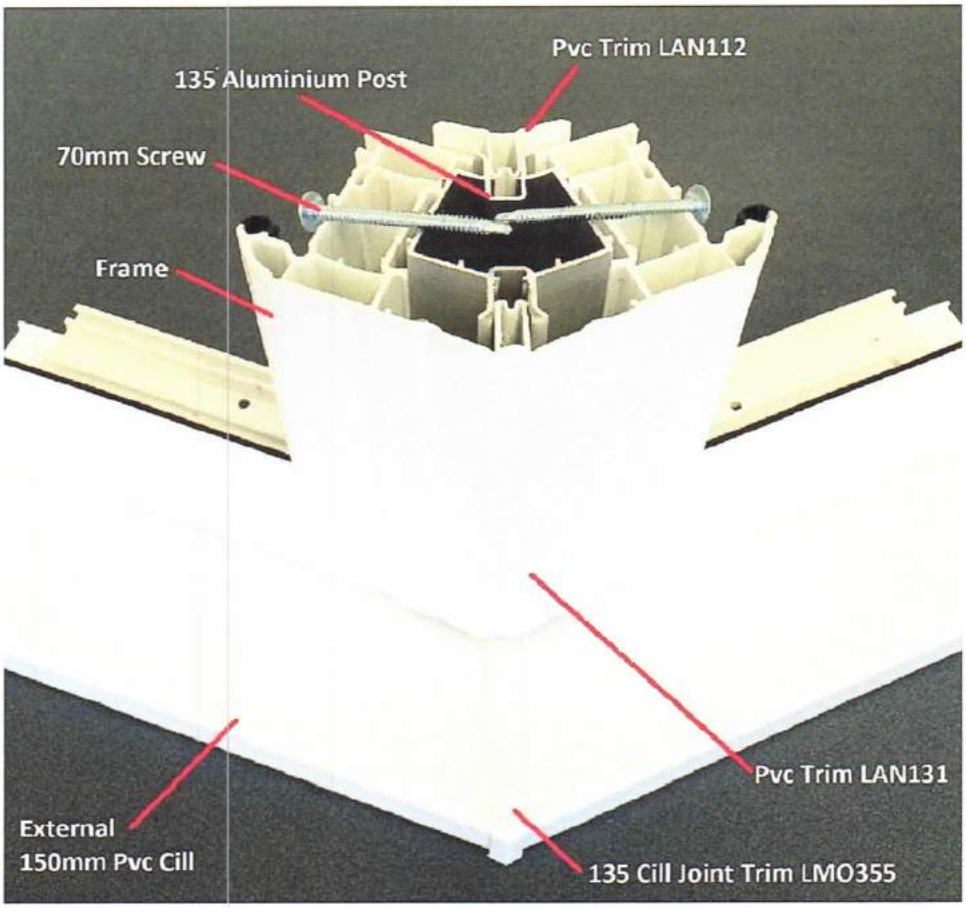
STEP 4 (*Continued*): 135°/150° Corner Assembly (Victorian Models)

Assembling a Victorian corner post follows the same principles as the Edwardian square corner post however the triangular post sits 10mm either side of the cill joint line this will have been allowed for in the frame sizes.

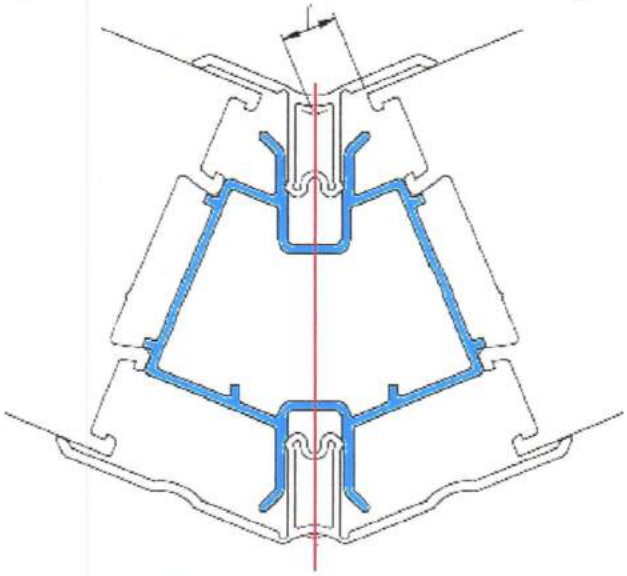
The Internal and External PVCu trims are fitted to the post once the assembly is completed and simply knock into the aluminium extrusion.

Note :- the fixings should not be closer than 100mm to a welded joint and not more than 500mm apart

The 135°/150° corner assembly is shown below.



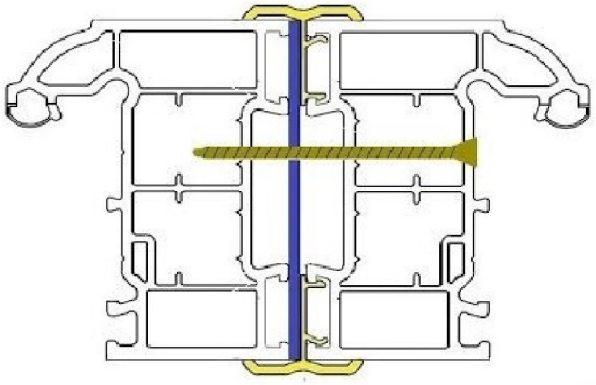
The post sits 10mm either side of the joint line

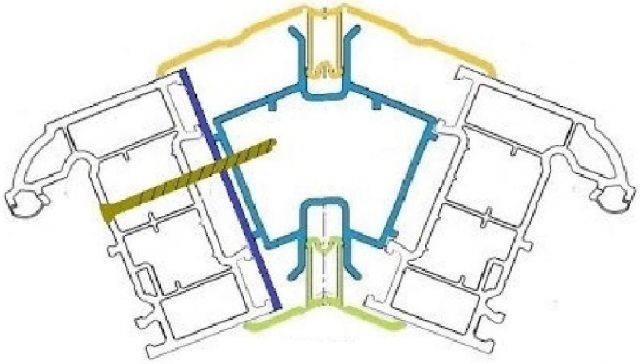


Cill joint centre line

STEP 4 (*Continued*): Extra information Hints and Tips

Note :- the fixings should not be closer than 100mm to a welded joint and not more than 500mm apart



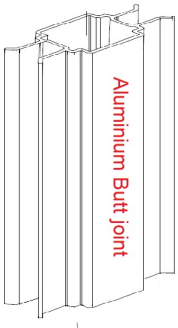


2mm or 5mm Glass packers
inserted in between the frame joints

Due to manufacture tolerances sometimes it may be necessary to expand the joints on the frames to get the exact size of a particular section / elevation this will only ever be by a few mm and will not affect the performance of the conservatory at all.

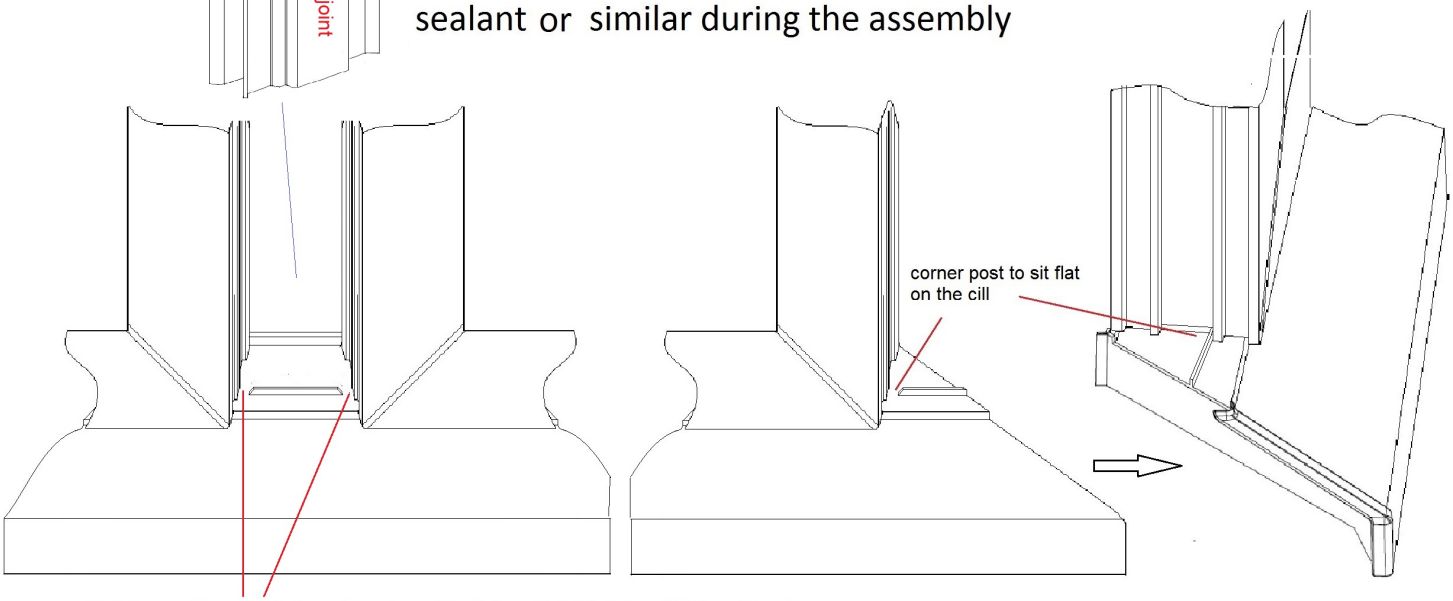
TIP 1) Do not fully fix the conservatory sections to the walls until the whole frame is errected you may need to shuffle the frame slightly to get the perfect fit over the walls.

2) You should check the internal frame sizes match the internal roof sizes as shown on the roof manufacture drawing

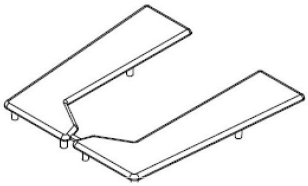


Cill Joint Trims

Edwardian 90' or Victorian 45' cill corner joints are assembled with PVCu joint trims that simply trap between the cills as they come together it is best to use sealant or similar during the assembly



90' trim part no LMO356 45' trim part no LMO355 Straight joint LMO354



Cill End Caps Part no 365 simply press fit into the end of the cill use sealant or glue to make a permanent fit

Traditional Brick Built Walls

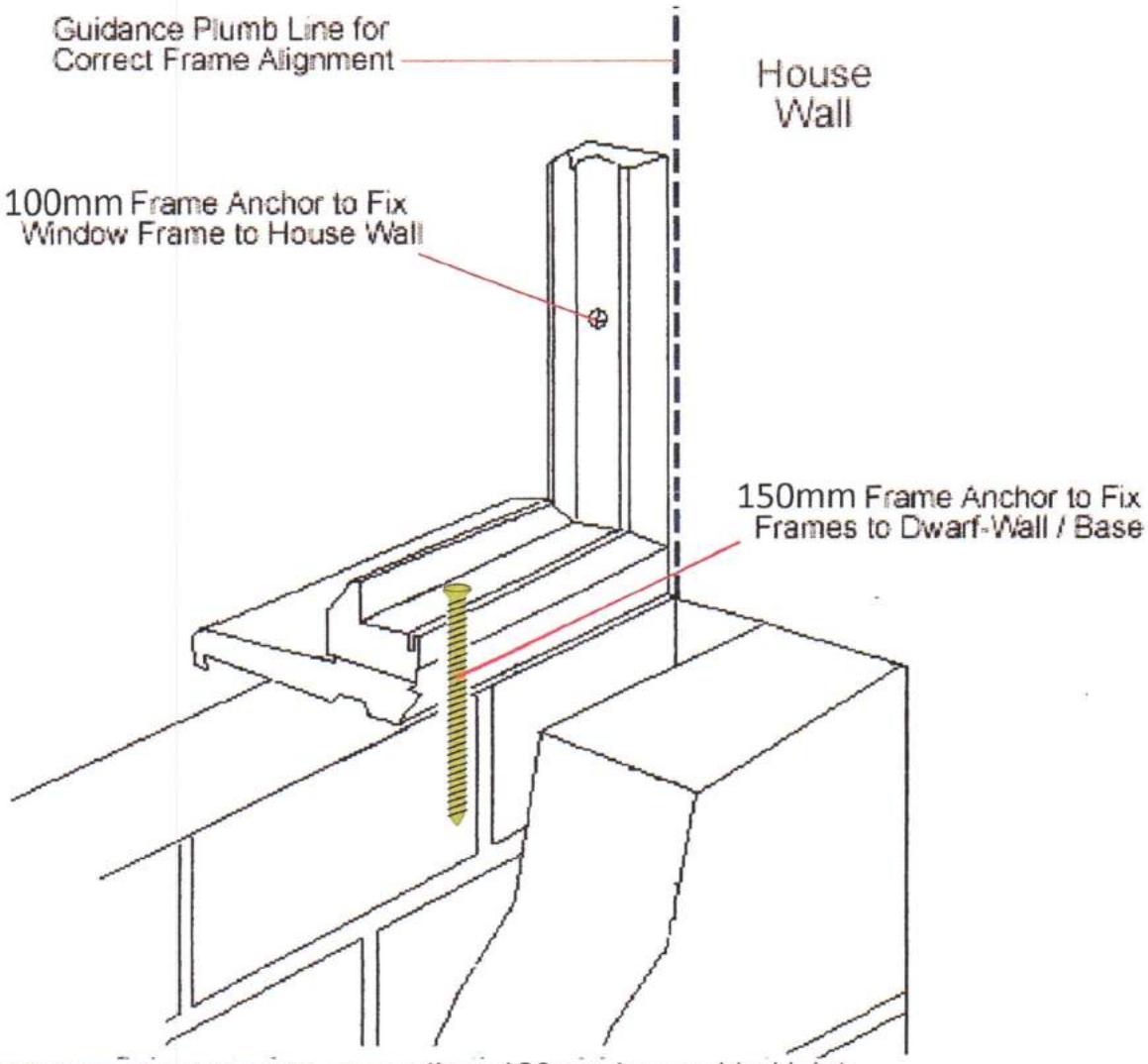
STEP 5: Position Assembled Sections/Elevations

With all the sections/elevations completed you can now position the section/elevation assemblies in their appropriate positions in accordance with the frame layout drawing.

The sections/elevations sit on the outer skin of the dwarf-wall/base on either a bed of mortar or sealed to the brickwork with silicone sealant.

Note: do not fix the frame to the wall at this stage

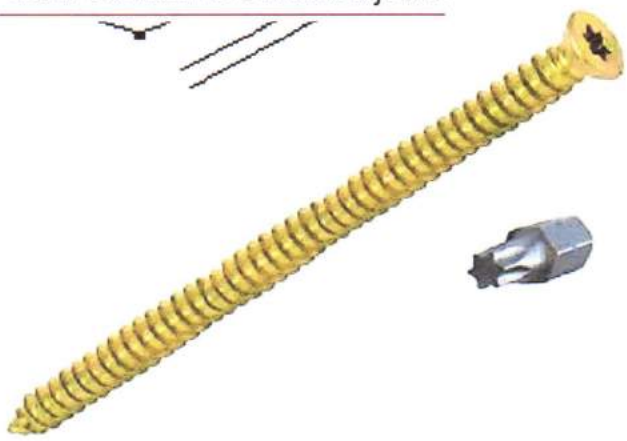
See diagram below.



Note :- the fixings should not be closer than 100mm to a welded joint and not more than 500mm apart

Frame to Dwarf Wall/Base Fixing

Direct to brick fixing screw
a 6mm pilot hole will be required
and a T30 torx drive bit



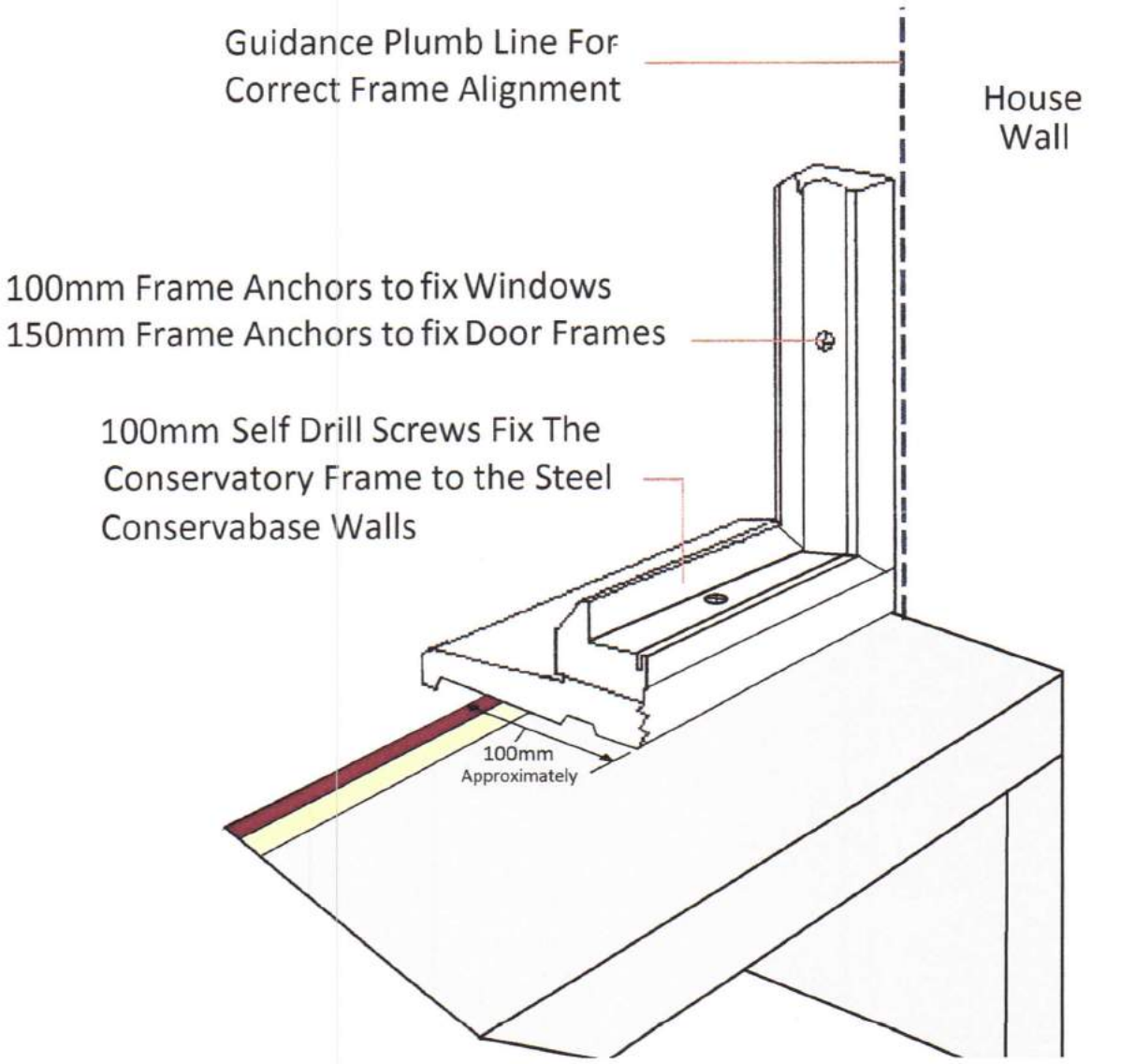
STEP 5: Position Assembled Sections/Elevations

With all the sections/elevations completed you can now position the section/elevation assemblies in their appropriate positions in accordance with the frame layout drawing.

The sections/elevations sit on the conservabase wall they are set approximately 100mm in from the outside brick face, it is recommended that a bead of silicone sealant is run between the steel wall and the underside of the cill.

Note: do not fix the frame to the wall at this stage

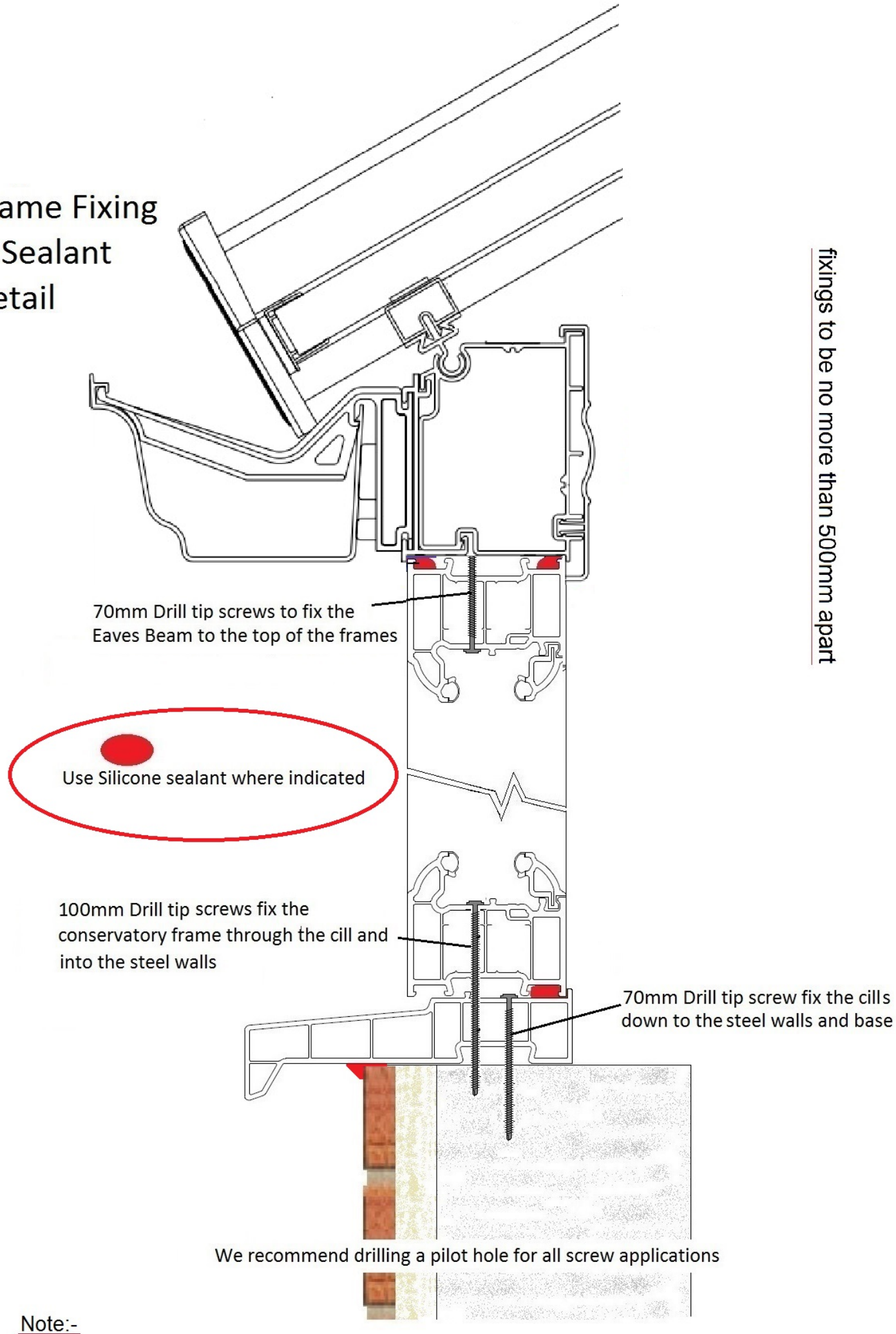
See diagram below.



Note :- the fixings should not be closer than 100mm to a welded joint and not more than 500mm apart

Frame to Dwarf Wall/Base Fixing

Frame Fixing & Sealant Detail



fixings to be no more than 500mm apart

Note:-

The fixings should be no closer than 100mm to a welded joint and not more than 500mm apart

STEP 6: Conservatory Roof Assembly

Assemble the roof in accordance with our Conservatory Roof installation Guide.

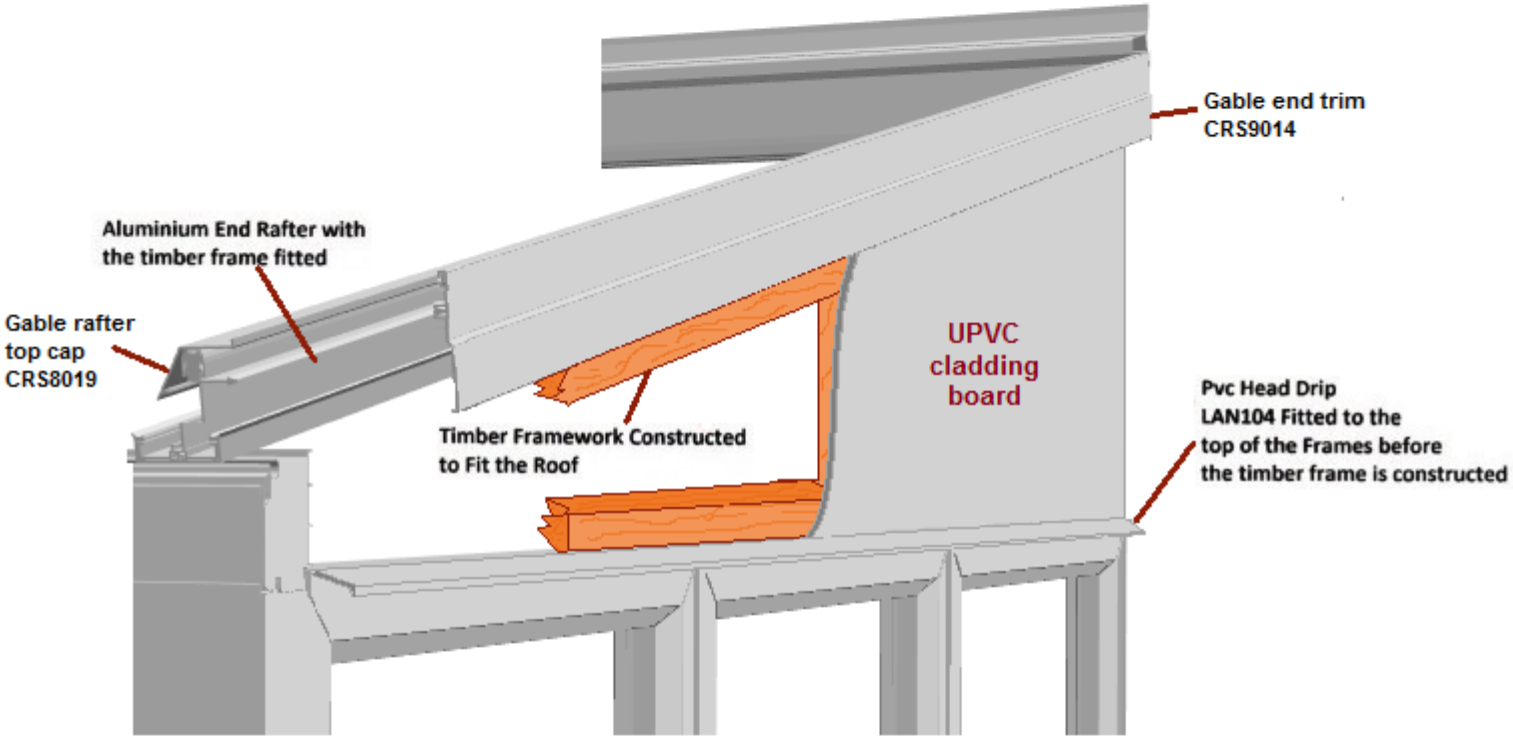
Lean-to Conservatories Only

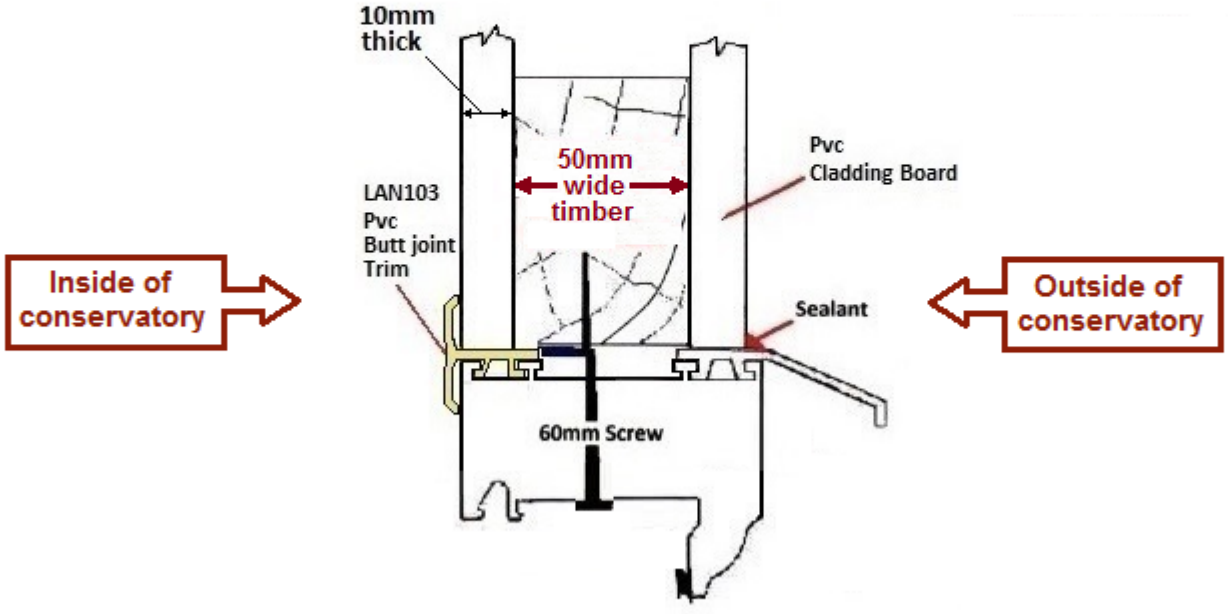
With the roof rafters in place the measurements can now be taken to build the timber triangular end infill frames which are formed using 50mm wide timber (Not supplied)

Measure and cut the timbers in this order : Bottom Rail, Top Rail & then the uprights. Fit the Pvc trims across the top of the side frames, fit the head drip to the out side & the butt joint trim to the inside, position the timber frame so that it leaves a 10mm gap from the inside of the butt joint trim this will leave enough clearance for the Pvc cladding board.

Measure and cut the Pvc cladding one piece at a time, use a sharp hand saw or hack saw. Begin cladding the timber frame from the bottom working back towards the house, secure the cladding with the plastic topped nails (supplied).

Once the cladding is complete, apply silicone sealant to achieve a water tight finish.



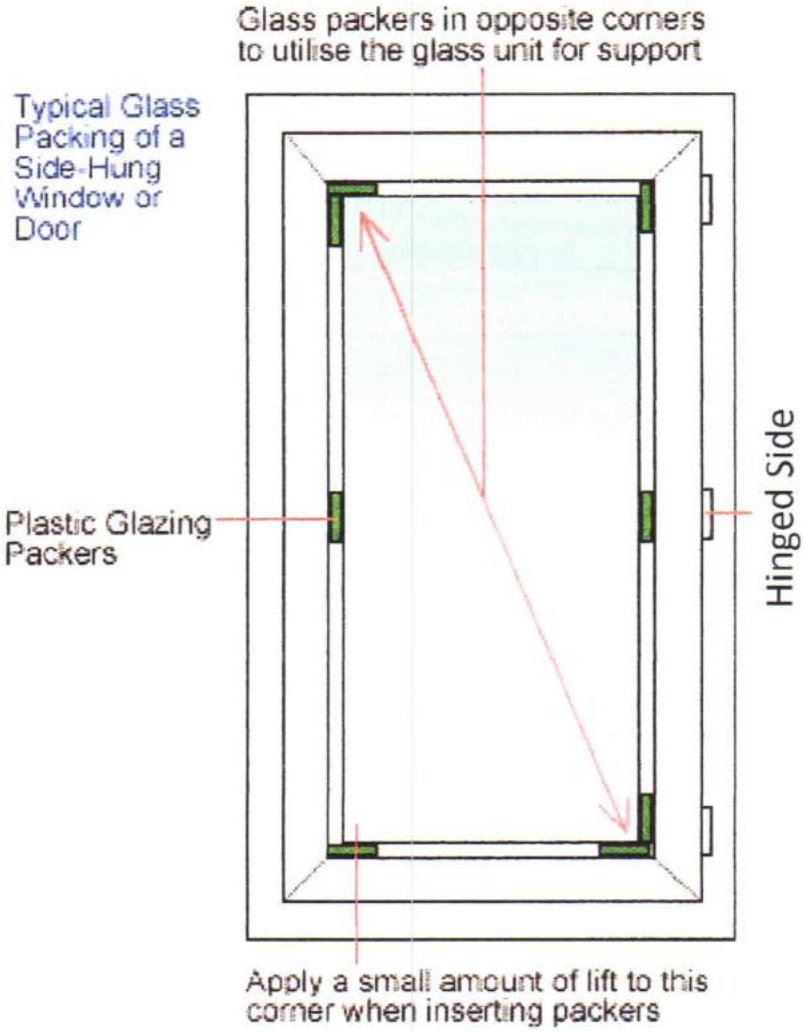


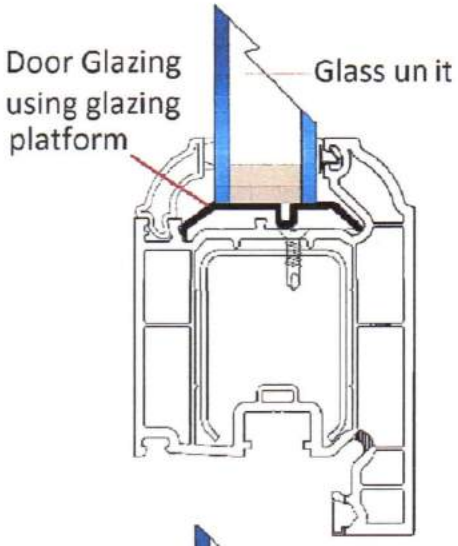
Cross-section view of window frame, Timber and PVC cladding boards

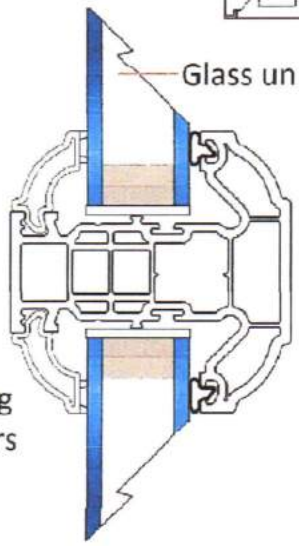
STEP 7: Conservatory Frame Glazing

Install the glass double glazed sealed units as follows:

1. Remove the PVCu glazing beads from the conservatory frames
2. Insert two 2mm thick glazing packers (supplied) in the bottom of the glazing apertures (one to the left and one to the right), taking care not to cover the drainage slots.
3. Using silicone sealant, glue a 2mm thick glazing packer to one side of the glazing aperture.
4. Place the correct size glass sealed unit on top of the glazing packers and centre the unit within the window frame **using both 2mm & 5mm glass packers if required**.
5. Glue a 2mm thick glazing packer to the opposite side of the glazing aperture.
6. If the unit is being installed in an opening section or door, use glazing packers to all four sides and pack the unit securely to ensure there is no movement when the window or door is opened (see diagram below). *Note: If the glass unit is insufficiently packed tight, the window or door will be prone to dropping and catching it's frame.*
7. Fit the top glazing bead first, keeping the pressure on the rubber gasket as it is clipped into place. Fit the bottom glazing bead next, and then the left and right glazing beads.







Window Glazing std glass packers 2mm & 5mm thicknesses

Note: Ensure that each bead is seated correctly. Any dirt or minute particles inside the glazing chamber will prevent the beads being correctly positioned. If a bead is difficult to fit, remove it and make sure that the glazing chamber is completely clear, particularly under the lip where the bead fits. The beads may be gently tapped with a rubber mallet to assist fitting.

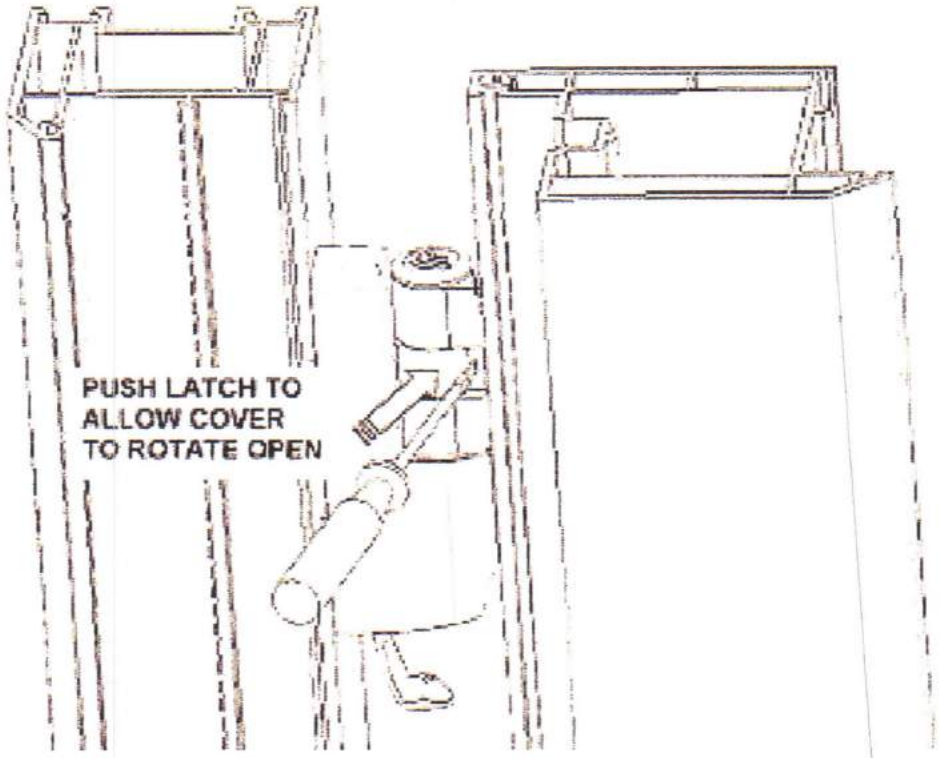
Finally, fit external cill end caps (supplied) and any finishing trims that may be required for neatness. Clean down the conservatory with PVCu and glass cleaner.

STEP 8: Adjusting the Doors

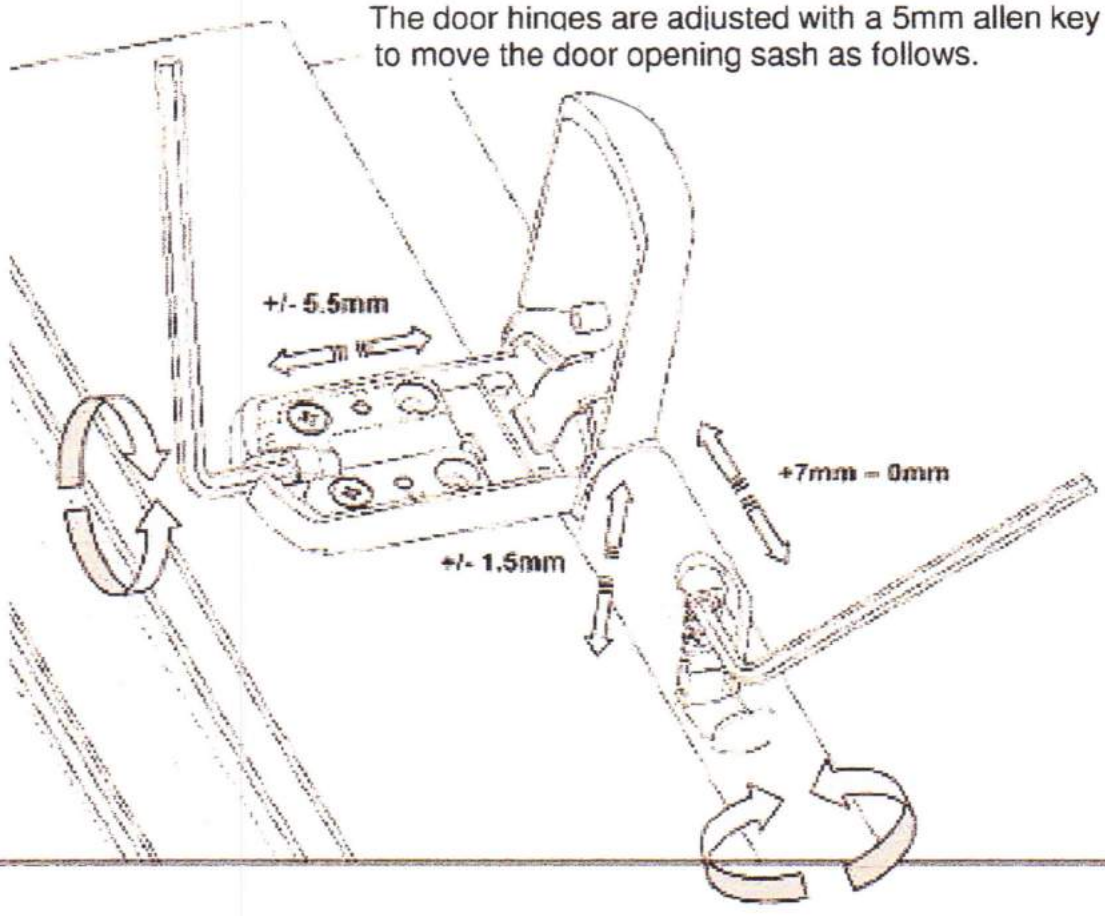
The doors are fitted with three-way adjustable hinges which allow accurate adjustment of the door opening sashes in three different directions.

The door hinges should be adjusted to enable optimum performance of the locking system, to square-up the opening sashes and to provide sufficient compression on the rubber gasket seals for weather-tightness when the door is closed.

TROJAN **Patriot Flag Hinge**

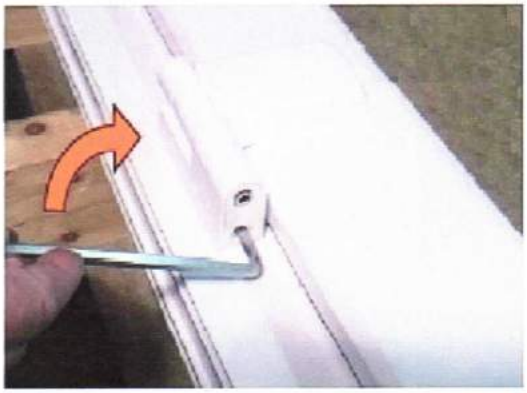


The door hinges are adjusted with a 5mm allen key to move the door opening sash as follows.

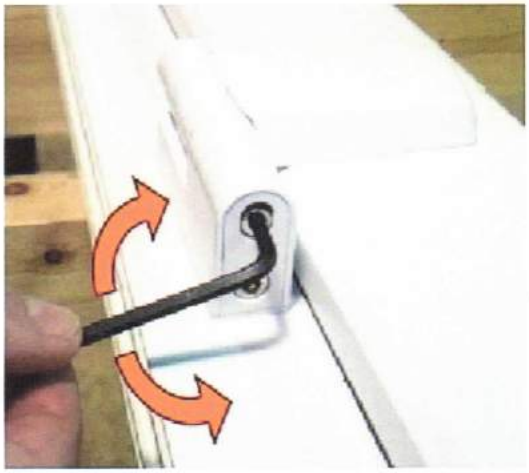


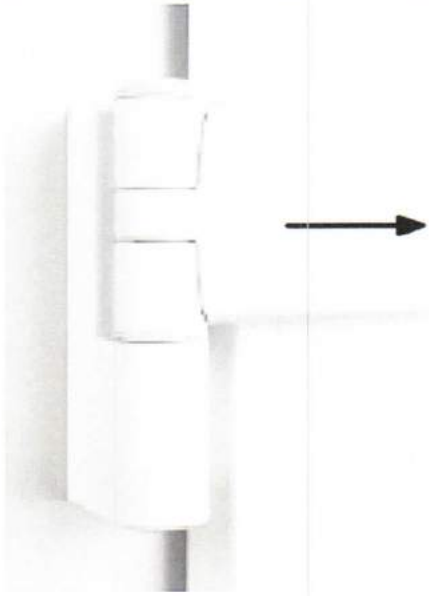
TROJAN Adjusting the Patriot Plus Flag Hinge

To raise the door use a 5mm allen key rotate clockwise to raise the door and anti clockwise to lower the door make same adjustment to each hinge on the door leaf to carry the weight evenly .

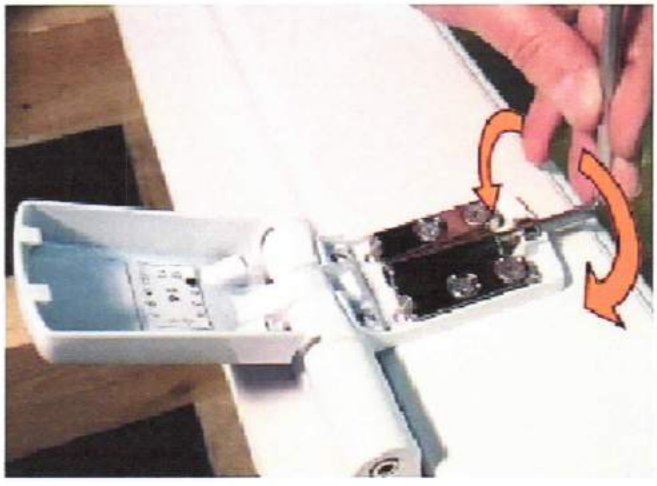


To adjust the tightness of the seal between the door and the frame use a 4mm allen key turn the adjuster clockwise for a tighter seal & anti clockwise to reduce the preasure if the door is binding there will be 2no noticable clicks of adjustment from the standard middle setting





To adjust the door side way clearence undo the 2no hinge cover clamp screws then slide the hinge cover to release it from the door, the cover will now swing back revealing the adjustment screw a 5mm allen key will be needed the door can be adjusted by 6mm either way from the standard central position



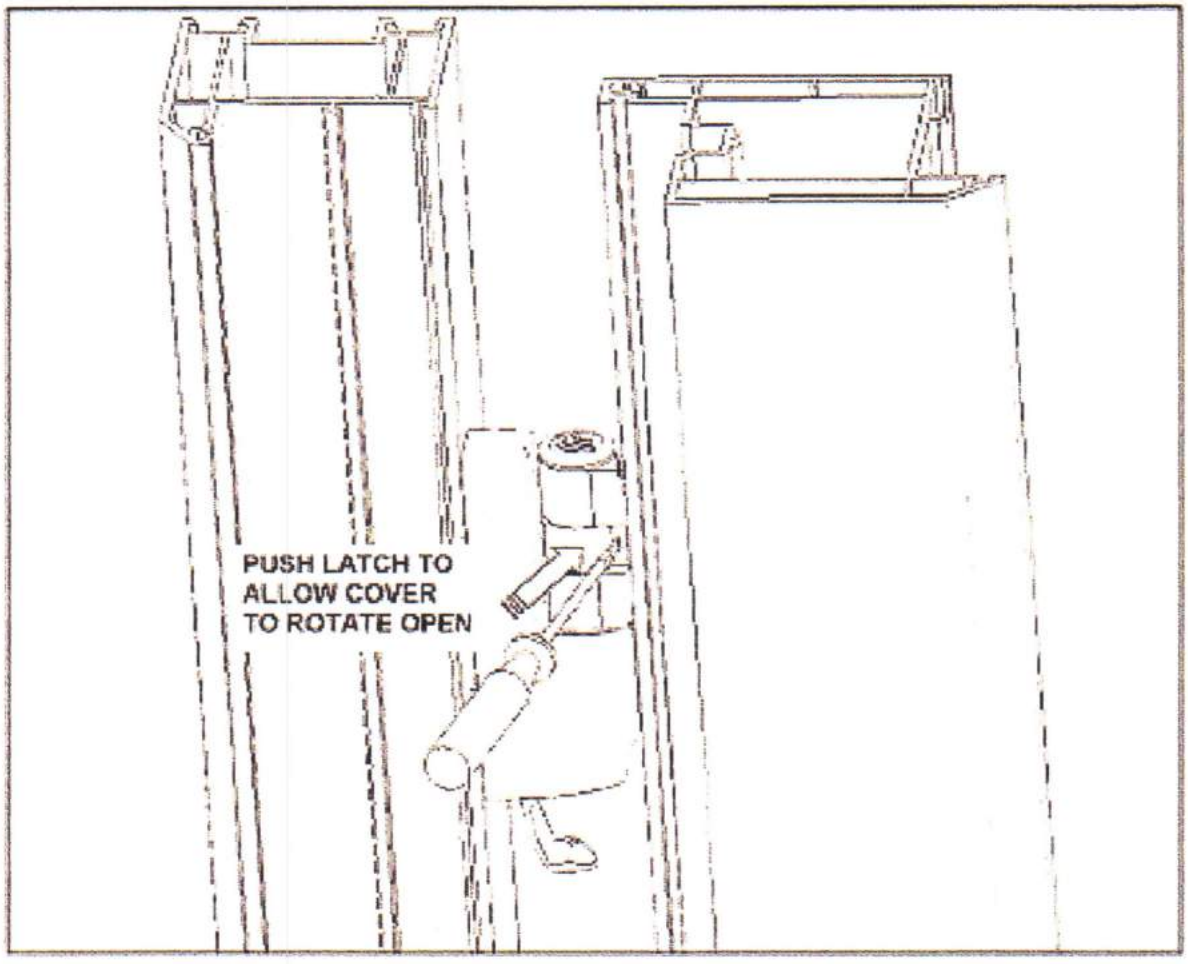
STEP 8: Adjusting the Doors

The doors are fitted with three-way adjustable hinges which allow accurate adjustment of the door opening sashes in three different directions.

The door hinges should be adjusted to enable optimum performance of the locking system, to square-up the opening sashes and to provide sufficient compression on the rubber gasket seals for weather-tightness when the door is closed.

The door hinges are adjusted with a 5mm allen key to move the door opening sash as follows.

Note: The height adjustment mainly alters the height of the door opening sash on the hinge side. If height adjustment is required on the locking side, remove the glazing beads and adjust the thickness of glazing packers fitted between the glass unit and the frame.



conservabase
conservabase.com

Fixings

10mm x 150mm Conservabase frame to house wall fixing bolt
Requires an 8mm pilot hole & fixes directly to the masonary. No plug required. 15mm head size.

150mm x 8mm direct to brick fixing.
T30 Torx drive. Requires 6mm Pilot hole & no plug.
Fix window frames down to traditional walls.
Fix door frames down to traditional walls & base.

100mm x 4mm Self drilling pre-washered Philips drive screw
Fix the window frames & door frames down to the Conservabase steel walls & base.

100mm x 8mm direct to brick fixing
T30 Torx drive. Requires 6mm Pilot hole & no plug
Fix Conservabase walls to the house.
Fix window frame sides to the house.
Fix roof rafters & box gutters to the house.

100mm x 10mm Conservabase frame connecting bolt.
19mm Head size.

70mm x 4mm Self drilling pre-washered Philips drive screw for fixing window & door frames into aluminium joints
For fixing window & door frames **UP** into the aluminium roof beam.

60mm x 4mm Countersunk Pozi drive screw for fixing the window and door frames together and also down to the window cills.

4.8mm x 45mm Countersunk Philips drive self-drilling screw
For fixing the chip board deck to the steel base frame.
For fixing the brick skirts to the steel base frame.
For fixing the steel wall boxes down to the deck.
For fixing the Pvc skirts to the steel base frame.

25mm x 8mm Conservabase wall fixing bolt.
Connects one box to another.
13mm head size.

Plastidome Screw caps to be used when fixing the pvc skirts
(also in Brown & Caramel)

50mm x 7.5mm direct to brick fixing T30 Torx drive
Requires 6mm pilot hole & no plug
Fix conservabase walls down to existing concrete or brick base

ConservatoryLand®

The **Self-Build** Conservatory Specialists

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