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Dwarf Wall Instruction Manual

Includes Models: 6x6, 6x8, 6x10 & 6x12



Please read all instructions before proceeding



6' Wide Victorian Cedar Greenhouse Assembly Instructions

| Contents: | Section | Page |
|-----------------------------------|---------|-------|
| Introduction | - | 3 |
| Overview | 1 | 4-5 |
| Base Preparation | 1 | 5 |
| Side Assembly | 2 | 6-7 |
| Rear Assembly | 3 | 8-13 |
| Front Assembly | 4 | 14-19 |
| Frame Assembly | 5 | 20-24 |
| Door Installation | 6 | 25-28 |
| Roof Assembly | 7 | 29-33 |
| Louvre Installation | 8 | 34-35 |
| Glazing | 9 | 36-44 |
| Roof Vent Installation | 10 | 45-47 |
| Louvre Glazing | 11 | 48 |
| Gutter and Downpipe Installation | 12 | 49-51 |
| Optional Cresting | 13 | 52 |
| End Caps and Finials | 14 | 53 |
| Finished Installation | 15 | 54-55 |
| Optional Auto Louvre Installation | 16 | 56-57 |
| Parts Lists | | 58-61 |

Introduction

Thank you for purchasing your new Alton greenhouse. We recommend you familiarise yourself with the instructions and read all safety information before you commence assembly.

Should you require any additional advice, you can always call us on 0049 5152 8093 497.

Safety Warning

- Glass, aluminium and timber can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.
- Please remember that glass is fragile and should be handled with extreme care. Always clear up and dispose of any breakages immediately.
- Do not assemble the greenhouse in high winds.
- For safety reasons and ease of assembly, we recommend that this greenhouse is assembled by a minimum of two people.
- Please clear all lying snow from the greenhouse roof as it can cause the roof to buckle or collapse.

Site Preparation

- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse. A slabbed base would be our preferred choice as this helps with drainage.
- Avoid placing your greenhouse under trees or in other vulnerable locations.
- To minimise the risk of wind damage, try to select as sheltered a site as possible, e.g. beside a hedgerow or garden fence.

Additional Considerations

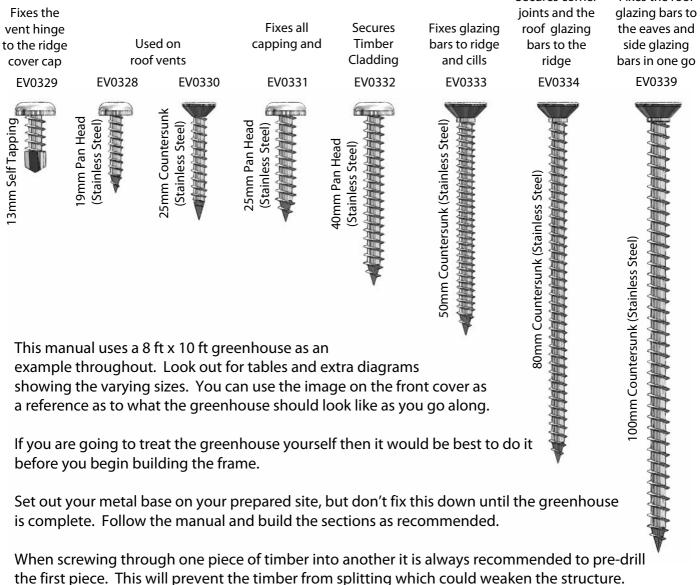
- Please bear in mind that assembling your greenhouse can be time consuming. You may need to spread the construction over two or more days. We recommend that you avoid leaving the building partially glazed. If you ever have to leave your greenhouse half assembled and not anchored down, weigh it down with slabs or bags of sand to stop the wind moving it.
- You will find it helpful to prepare a large, clean and clear area in which to work in. A garage floor or flat lawn area is ideal.
- If you have arranged for someone to install your greenhouse for you, please check that all components are included. Most parts are numbered and can be identified by a stamp or removable label. Alternatively, the components can be identified by lengths detailed in the packing list in your main cardboard box.
- Remember this is a natural timber product, the wood may soak up some water and some staining may occur. Your Evolution greenhouse is factory dipped in a clear spirit based preservative. We recommend that you re-apply some clear treatment annually particularly on the most exposed areas. If you want to avoid this and give your greenhouse a more permanent finish you could apply an oil based product (refer to manufacturers recommendations for recoating).

Overview

To build your new greenhouse you will need the following tools:

| Spirit Level | Pencil |
|----------------------|--|
| PZ2 Screwdriver Bit | Cordless Screwdriver (2 would be ideal, 1 to drill and 1 to screw) |
| 4mm Drill Bit | 7mm Masonry Bit |
| Hammer Drill | Hammer |
| Wooden/Rubber Mallet | Tall step ladders x 2 |

There are 8 different types of screws used in the construction of the greenhouse. These are as follows, with examples of where to look out for them: Secures corner Fixes the roof



You can build the sides and gables flat on the ground and then with help or using a prop position the first one ready for installation. You then work your way around the greenhouse connecting each section. Once you have completed the gables and sides you can install the ridge and the roof.

Overview

Glazing the structure is very simple but be very careful of the edges of the glass as the pane will break into tiny peaces if you catch an edge on a hard surface such as concrete. You should also wear suitable gloves and goggles when handling the glass (this also helps to keep it clean). It is good practice to pre-load the cedar bar capping with screws and position this around the greenhouse ready for you when you arrive with the glass.

During glazing you will also need to fit the louvre vents so make sure you have these built and ready to slot in. These fit between 2 pieces of glass and are held in place by the capping system.

Then fit the roof vents. This is done from the inside, gain access through the opening on a set of steps.

All you have left to do now is fit the gutter and downpipes, think about where you might site a water butt when doing this.

Option of gluing joints. This is **not** required for strength but you may do it if you wish. However bare in mind if you ever intend to move or adapt the greenhouse in the future this would make it very difficult. The best glue for this would be Poly Urethane Wood Adhesive. Take care when applying this, you only need a very small amount as the glue expands to fill the joint. If you use too much it may seep out of the joint and could be unsightly! Try a test piece before you start.

Read through the rest of this manual before starting, you are less likely to miss something doing this and you will have a better understanding of how it all works.

Base Preparation

Refer to your individual base plan supplied with your order confirmation for dwarf wall dimensions.

It is necessary to leave sufficient working room around your greenhouse when you're putting it up and also to allow for the possible need to replace a piece of glass in the future. If possible try and leave a minimum space of 2ft/610mm around the greenhouse.

Note that the door opens inwards so you should not have any higher ground or obstacles inside the front of the greenhouse.

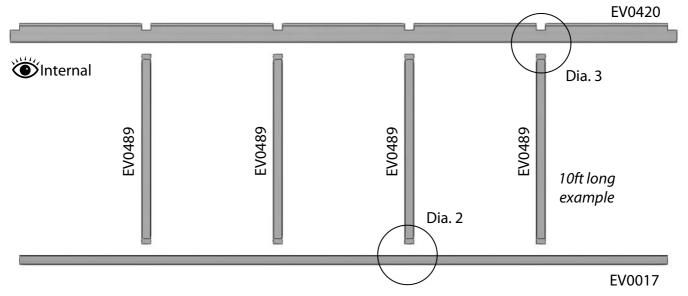
Locate the greenhouse where there is maximum amount of sunlight and avoid if possible any shade from trees, fences or other buildings. Over-hanging branches can be a particular nuisance and should be avoided.

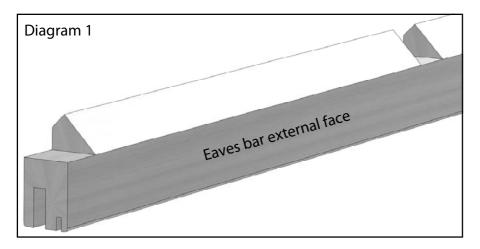
Choose a site where the greenhouse is relatively easy to get to and convenient to bring water to and possibly a supply of electricity.

Finally, and most importantly, choose a site where your Alton Greenhouse will look right so that it will complement your garden.

Side Assembly

To start building your greenhouse begin by laying out the components for your sides flat on the ground like the diagram below. Use the tables below to identify your building length and the components with the part numbers and sizes. First of all drill pilot holes through the bottom of each mortise on the cill section (diagram 2, page 7). Then slot each glazing bar into the mortise holes. These are designed as a tight fit so you may need help with this or maybe use a solid object to push against. Once firmly in position fix with the 50mm screw. Now slot the eaves rail into position (e.g. EV0420). There is no need to fix this yet as it is done at a later stage.





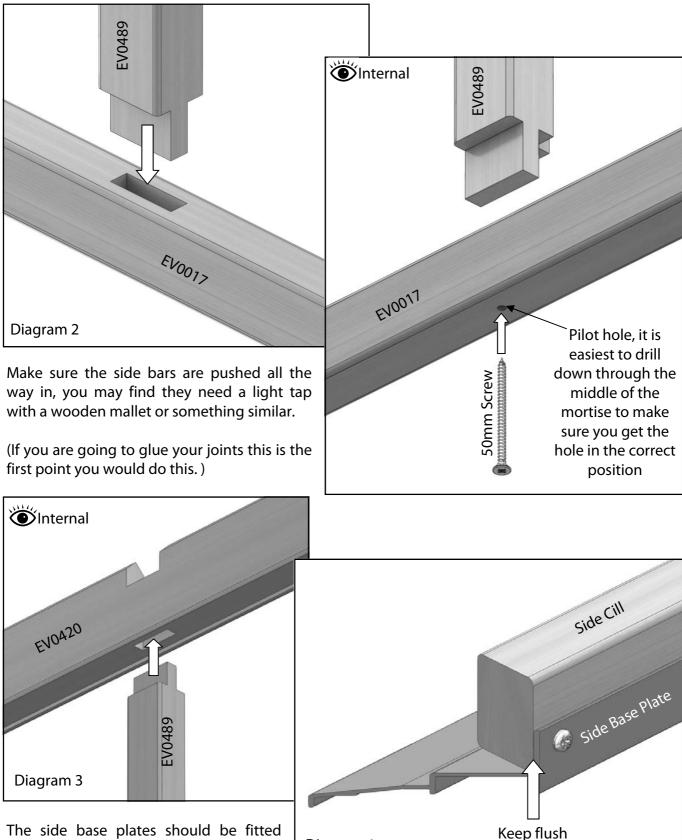
| 8ft long | | | | | | |
|--|--------|------|---|--|--|--|
| Part Name Part Size Qty Number (mm) | | | | | | |
| Cill | EV0016 | 2476 | 2 | | | |
| Eaves Bar | EV0419 | 2564 | 2 | | | |
| Glazing Bar | EV0489 | 1588 | 6 | | | |

| 10ft long example | | | | | |
|--|--------|------|---|--|--|
| Part Name Part Size Qty Number (mm) | | | | | |
| Cill | EV0017 | 3106 | 2 | | |
| Eaves Bar | EV0420 | 3194 | 2 | | |
| Glazing Bar | EV0489 | 1588 | 8 | | |

| 6ft long | | | | | |
|--|--------|------|---|--|--|
| Part Name Part Size Qty Number (mm) | | | | | |
| Cill | EV0015 | 1846 | 2 | | |
| Eaves Bar | EV0418 | 1934 | 2 | | |
| Glazing Bar | EV0489 | 1588 | 4 | | |

| 12ft long | | | | | |
|--|--------|------|----|--|--|
| Part Name Part Size Qty Number (mm) | | | | | |
| Cill | EV0018 | 3736 | 2 | | |
| Eaves Bar | EV0421 | 3824 | 2 | | |
| Glazing Bar | EV0489 | 1588 | 10 | | |

Side Assembly

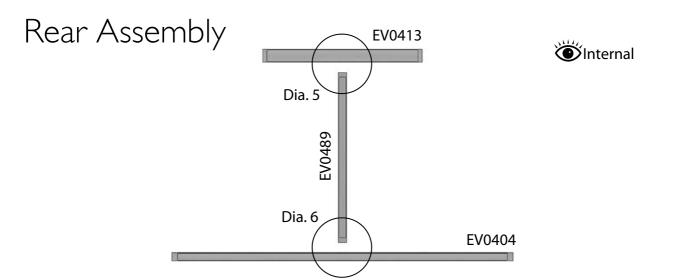


The side base plates should be fitted flush to the ends of the side cills as shown in diagram 4. Fix with 25mm screws.

2

at this point

Diagram 4

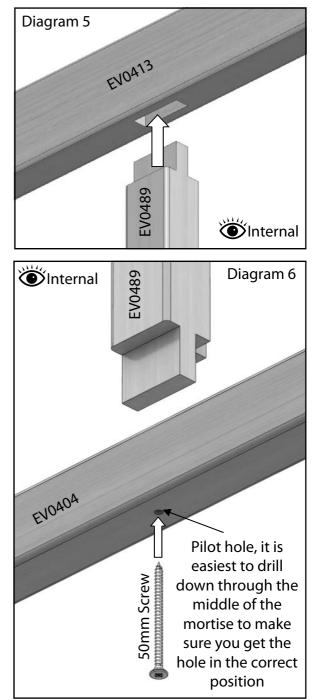


As with the side cills you will need to drill pilot holes in the bottom of the mortise holes (diagram 6).

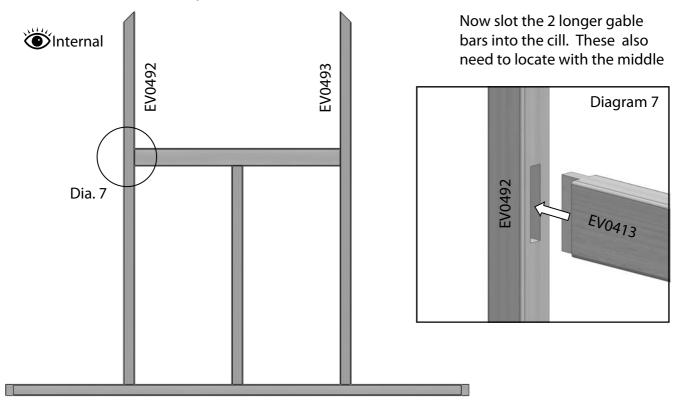
Assemble the gable glazing bars (EV0489) with the rear cill flat on the ground as you did with the side sections. This locates in the central mortise hole.

Now slot the middle rear purling (EV0413) onto the central glazing bar, this will be fixed shortly.

| 6ft Rear | | | | |
|------------------|----------------|--------------|-----|--|
| Part Name | Part Number | Size (mm) | Qty | |
| Rear Cill | EV0404 | 1821 | 1 | |
| Roof Corner R | EV0480 | 1324 | 1 | |
| Roof Corner L | EV0481 | 1324 | 1 | |
| Side Corner R | EV0490 | 934 | 1 | |
| Side Corner L | EV0491 | 934 | 1 | |
| Gable Purling R | EV0408 | 480 | 1 | |
| Gable Purling L | EV0414 | 480 | 1 | |
| Rear Mid Purling | EV0413 | 851 | 1 | |
| Standard Bar | EV0489 | 908 | 1 | |
| Gable Bar R | EV0492 | 1491 | 1 | |
| Gable Bar L | EV0493 | 1491 | 1 | |
| Mid Gable Bar | EV0460 | 901 | 1 | |

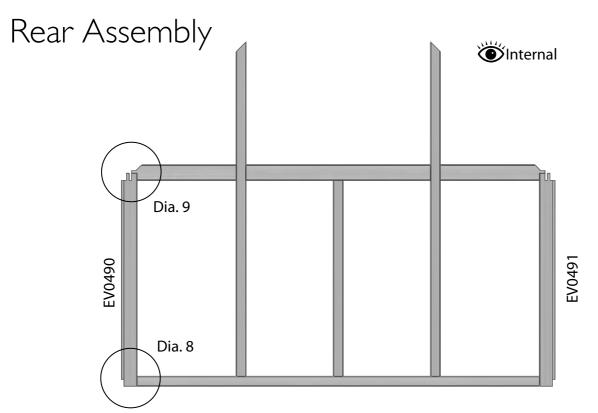


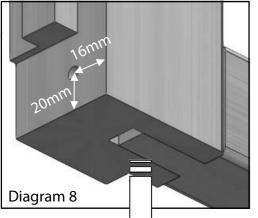
Rear Assembly



Next fit both left and right purlings. These are handed parts and it is important to fit them the correct way round. The purlings will have rounded edges on one side and square cut edges on the other, the rounded edges should be on the inside of the building fitting flush with the other components. The square cut edges should be outward facing and will be set in slightly from the rebate that takes the glass.

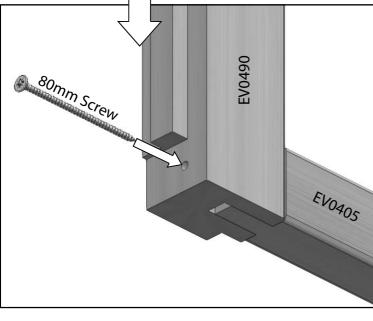
These simply slot in place for now.

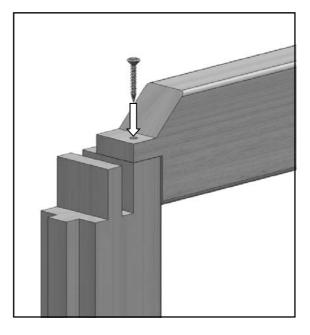




You will need to drill a pilot hole in the bottom of each side corner bar as shown in diagram 8. This should come through half way up the mortise slot. Now slot the side corner bar into place, fix the bottom of the bar with an 80mm screw.

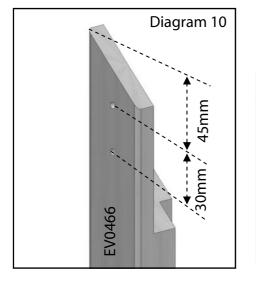
With the top of the bar lined up with the end of the purling (keeping the inside edges flush) drill a pilot hole close to the inside face of the tenon on the purling (diagram 9), then fix with a 25mm countersunk screw. This is only a transit screw so just make sure the joint is nice and tight, a larger fixing will be added later.



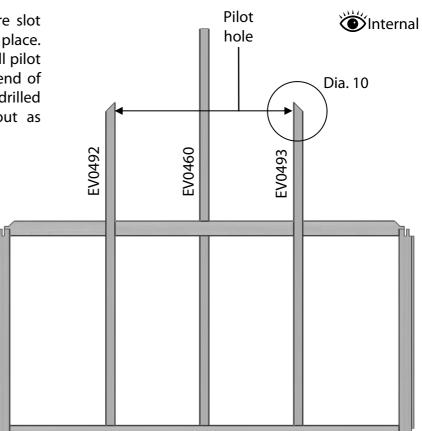




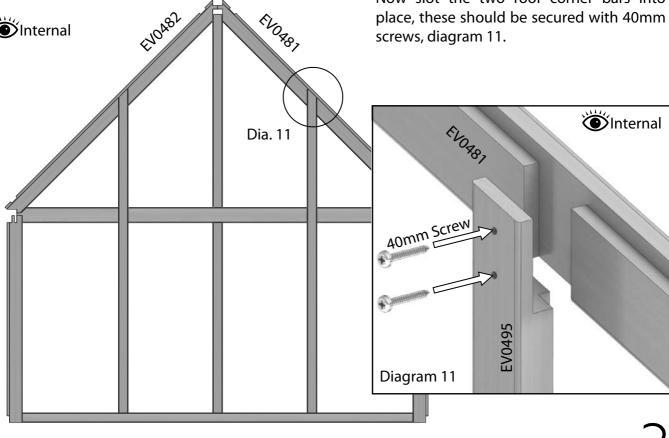
Once the side corner bars are secure slot the above purling glazing bars into place. With all of the gable bars in place drill pilot holes through the lap joints at the end of The holes should be drilled each bar. centrally to the bar and spaced out as shown in diagram 10.

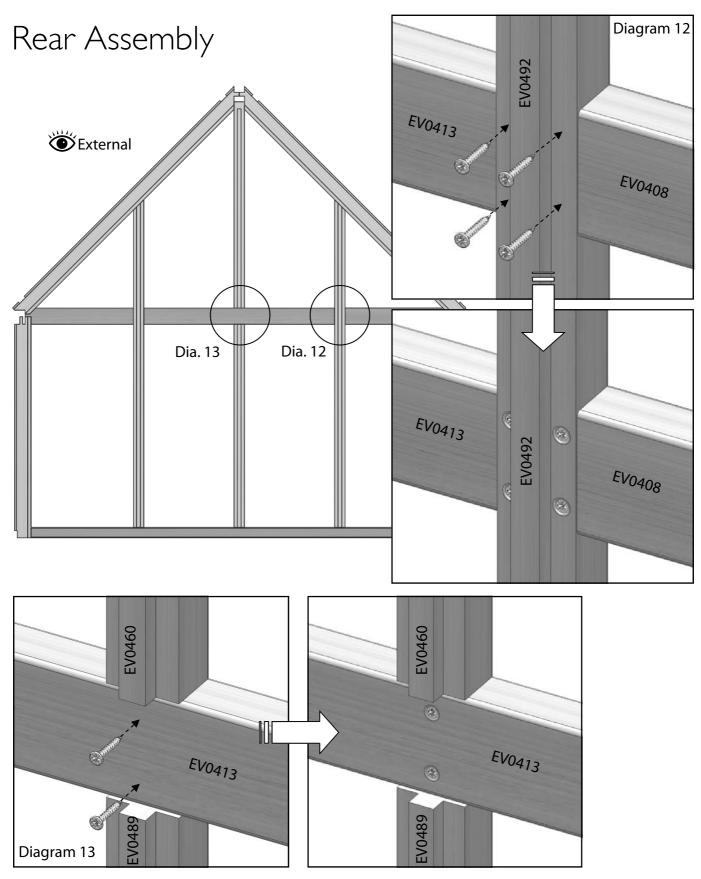


Internal

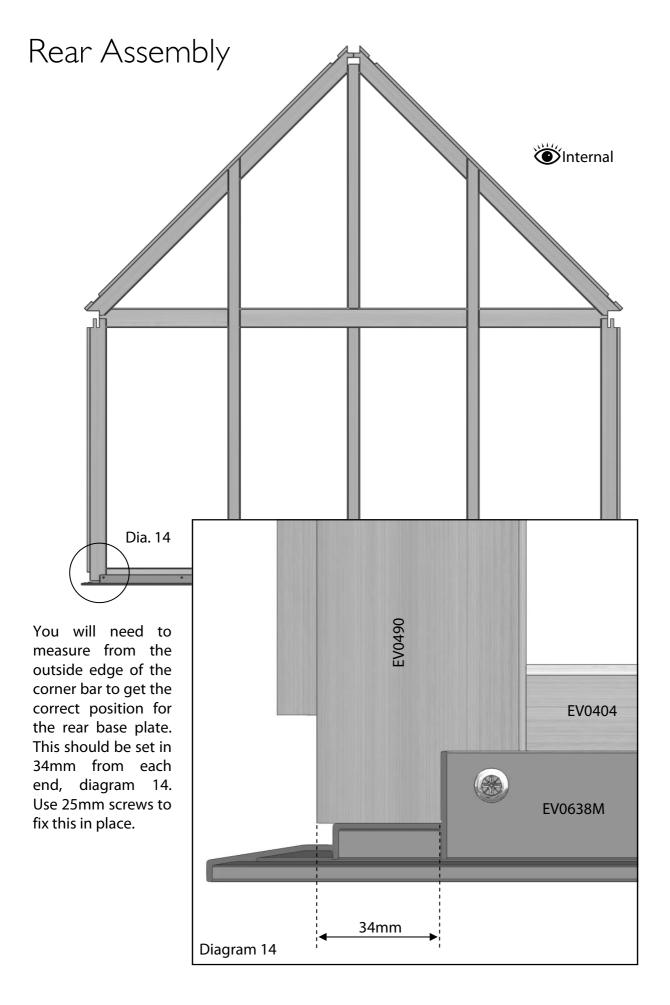


Now slot the two roof corner bars into place, these should be secured with 40mm screws, diagram 11.

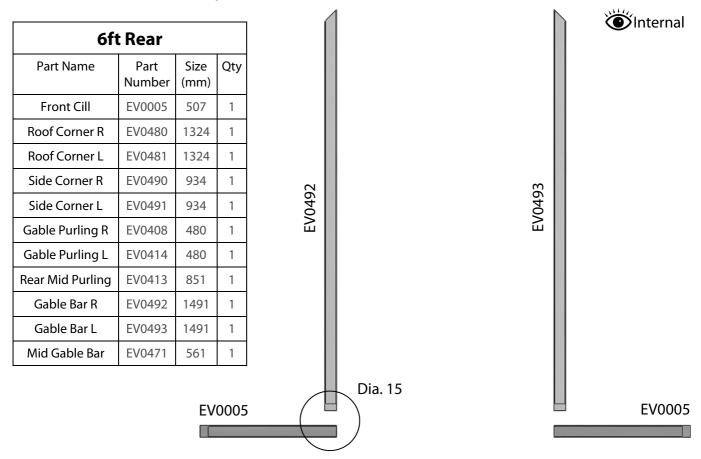




With all the components now in place flip the gable end over so you now have the outside edge facing you. Be careful doing this as some of the parts are not completely supported, it is a good idea to have a helper at this point. Now using 25mm countersunk screws fix the purlings to the glazing bars as shown in diagram 12 and 13. Make sure the head of the screws are below the level of the timber so that they don't have any contact with the glass.

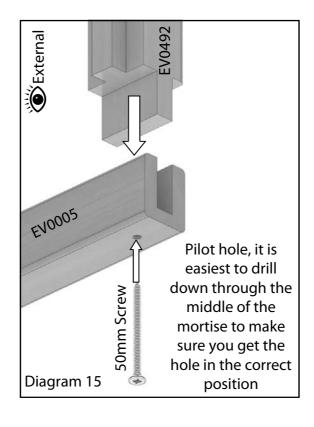


Front Assembly

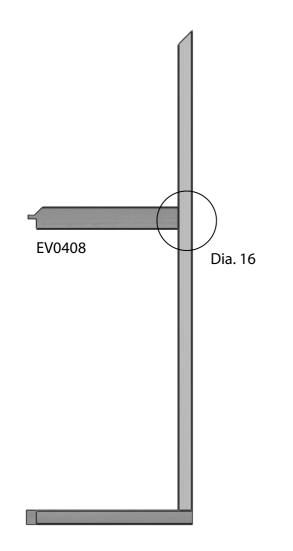


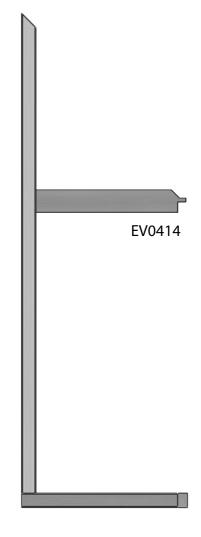
The front gable is made slightly differently to the rear as it is in two halves. It is a good idea to build these side by side to make sure you are fitting the parts in the correct orientation.

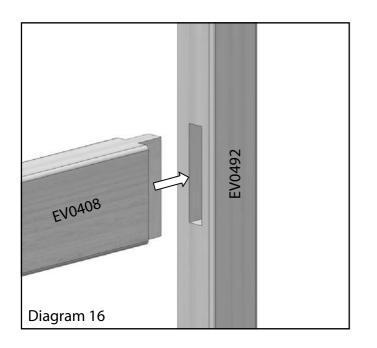
As before start by fixing the gable bars to the cills shown in diagrams 13 and 14.



Front Assembly



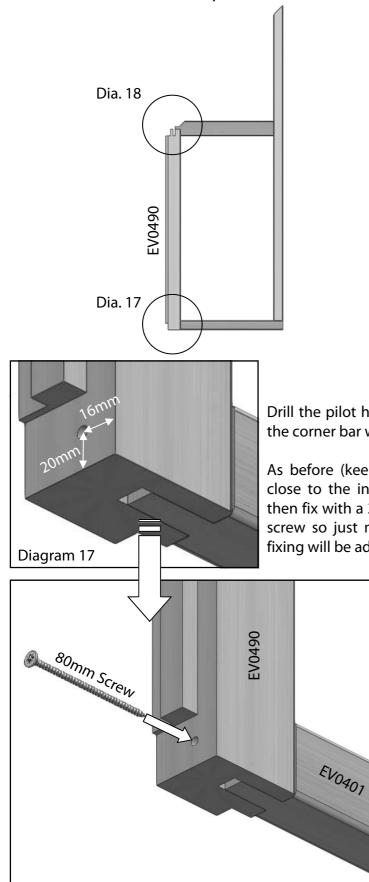


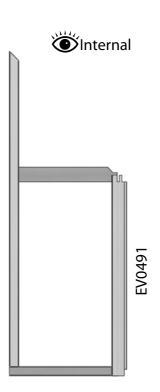


Now slot the purling bars into place, again as with the rear assembly these will be fixed later.



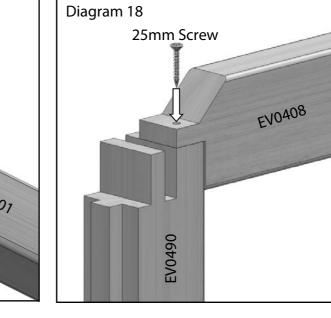
Front Assembly



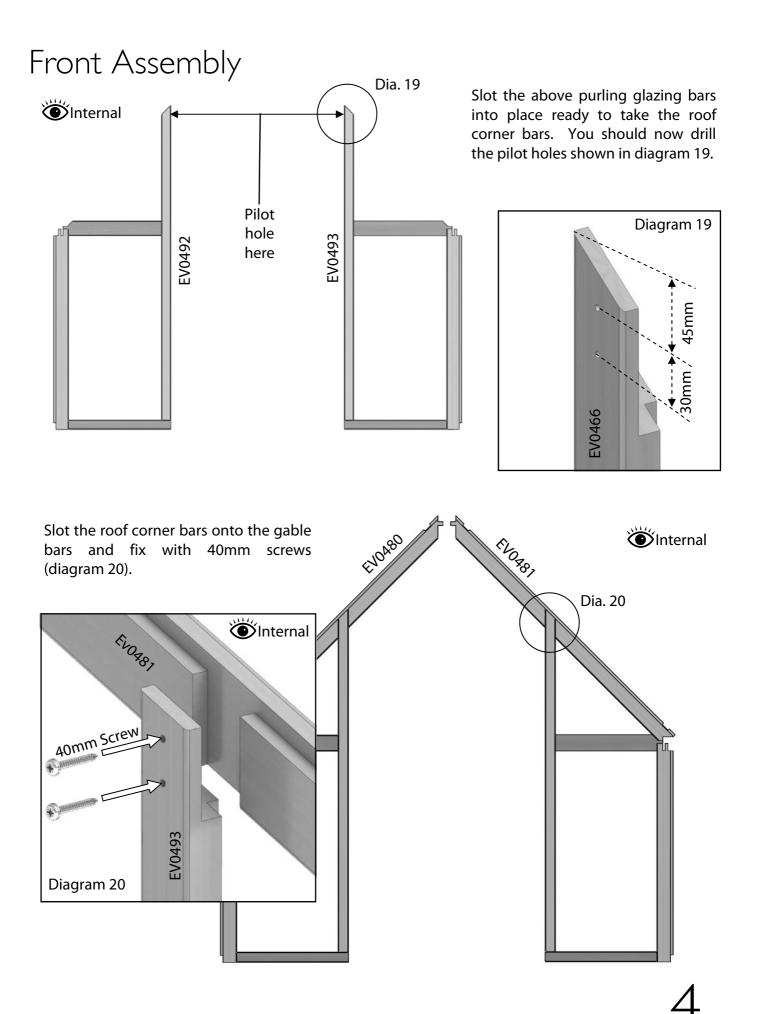


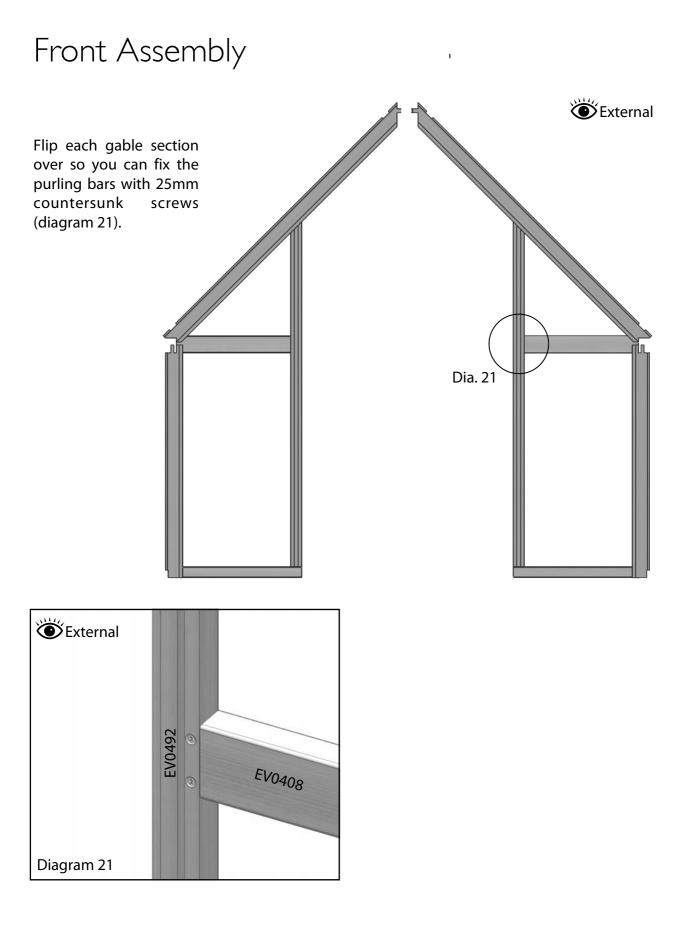
Drill the pilot holes again as diagram 17 shows. Fix the cill to the corner bar with an 80mm screw.

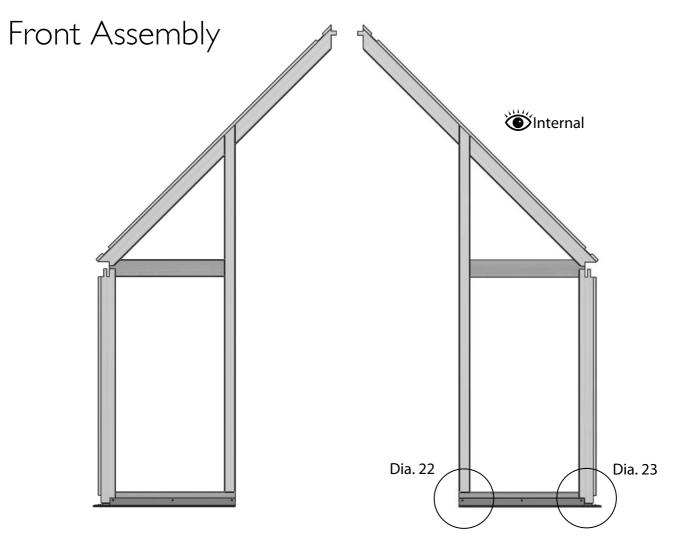
As before (keeping the inside edges flush) drill a pilot hole close to the inside face of the purlings tenon (diagram 18), then fix with a 25mm countersunk screw. This is only a transit screw so just make sure the joint is nice and tight, a larger fixing will be added later.



16

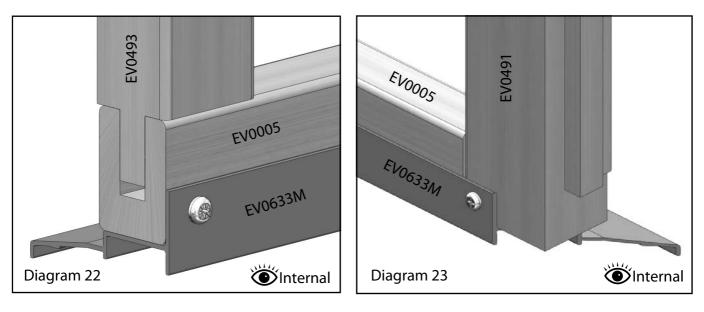






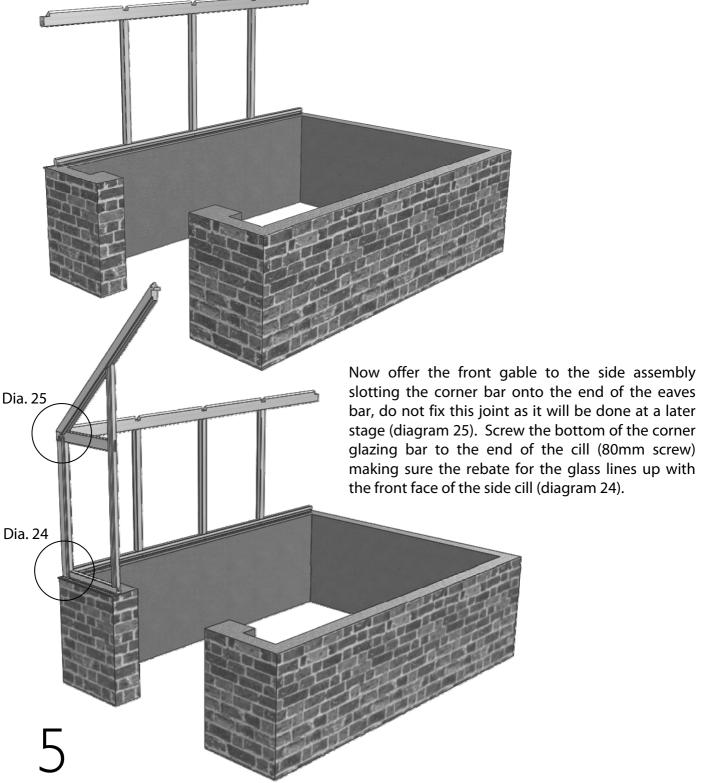
Once you have assembled your gable ends you can fit the aluminium base plates. Do this while the gables are flat on the ground. The front gables are easy to set up as the base plate is fitted flush with the end of the cill which meets the door (diagram 22).

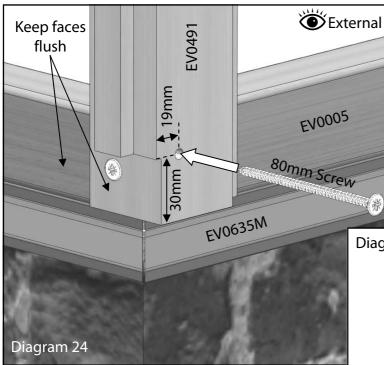
The other end should have a mitre cut and will stop short of the corner (diagram 23). Fix the base plates with 25mm screws.



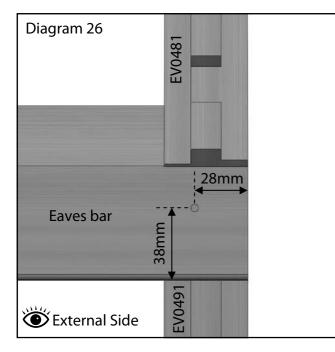
Before you position your side section onto the aluminium base you should drill the pilot holes in the bottom of the side corner bars shown in diagram 24. The position of these holes should be about 19mm from the side face and 30mm measured from the bottom end of the bar.

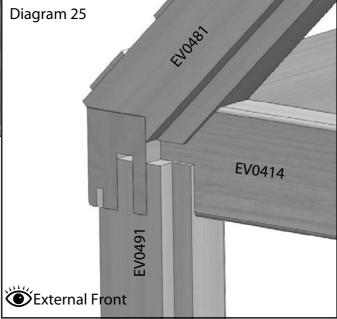
You can now position the side section on the aluminium base, you will need a helper to hold this in place or simply strap it to a set of steps.

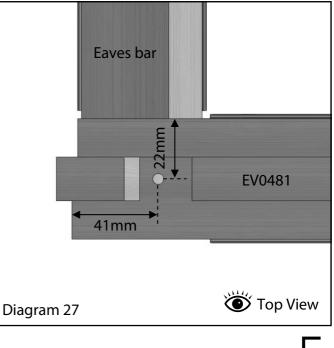




Make sure the side corner bar is located correctly and the front face is flush with the end of the eaves bar, mark out the pilot hole positions shown in diagram 26 and 27. Diagram 28 and 29 on the next page show the direction the holes should be drilled in.

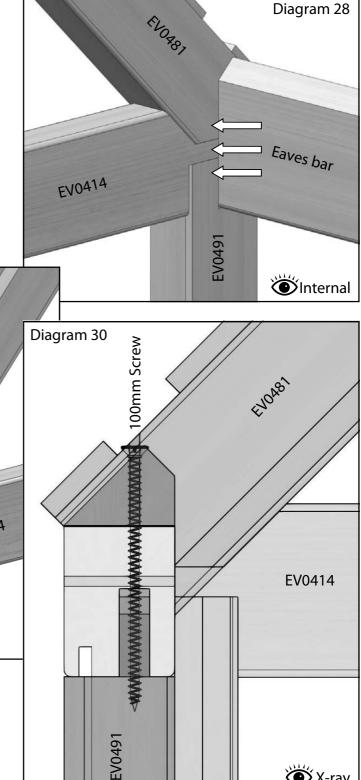




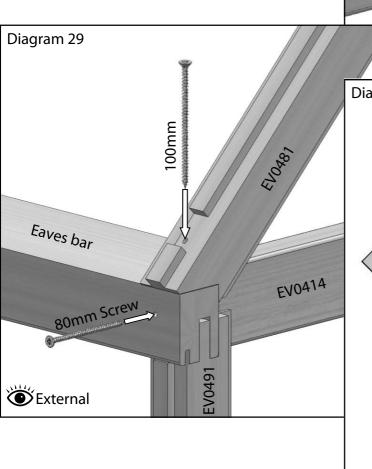


Before fixing this corner make sure the inside faces are all flush (diagram 28). When you are happy that the purling is located correctly (it is normal that the purling is set back slightly from the glass rebate on the front of the building) start by inserting the 80mm screw through the side of the eaves bar into the tenon on the end of the purling.

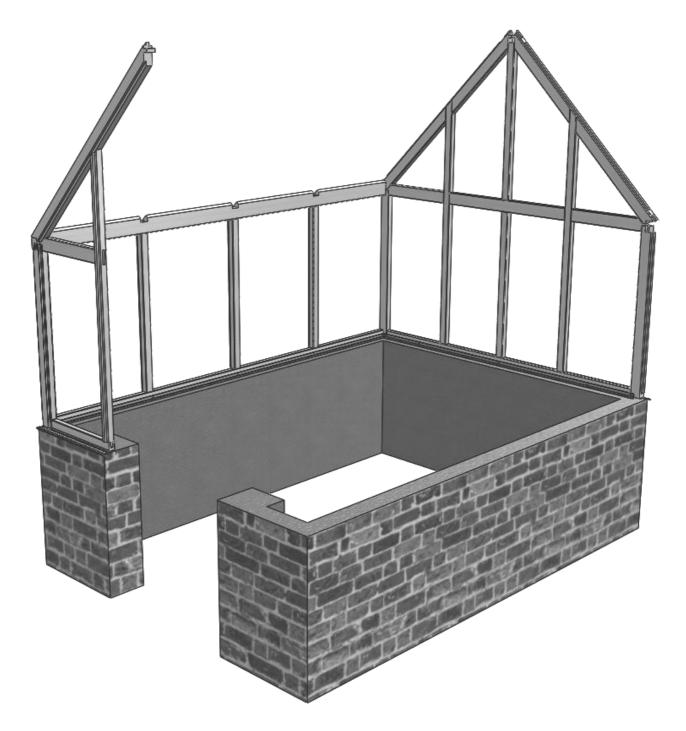
Next insert the 100mm screw vertically down through the roof corner bar into the eaves bar and finally securing the side corner bar (diagram 30).



🏷 X-ray



With help or using props for extra support, position the rear gable on to the dwarf wall and repeat the steps from page 20 to 22. Keep this supported at all times.

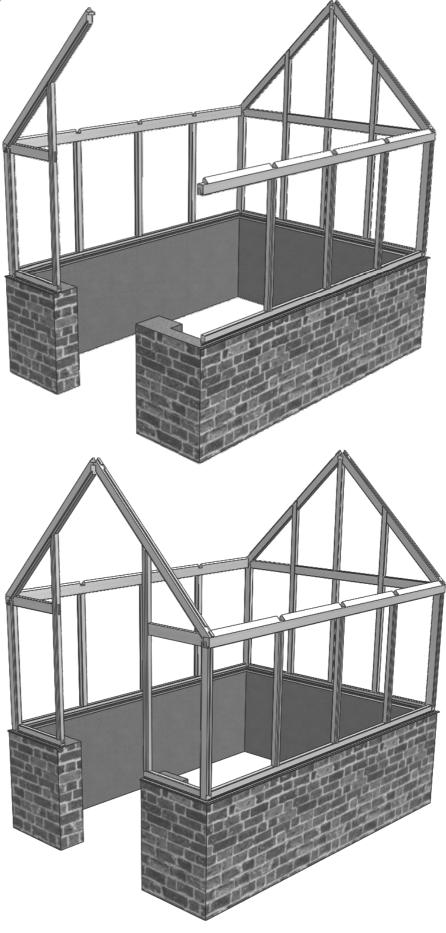




Connect the next side as you did before.

Finally attach the last gable section.

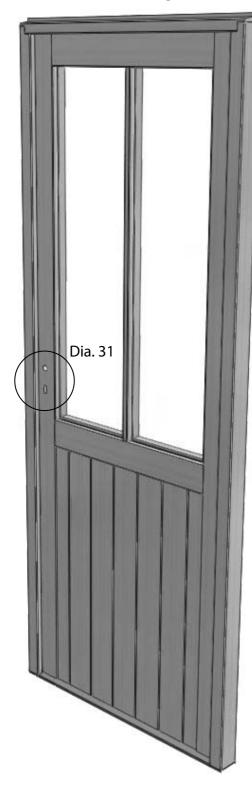
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Your door will arrive already installed in the frame with the lock and lock plate attached. All you need to do is attach the door handle to install this to the building.

Start by sliding the spindle through the top hole in the door (diagram 31), then locate one of the door handles on this and fix with the screws provided. Repeat this on the other side of the door (diagram 32).





Door Installation

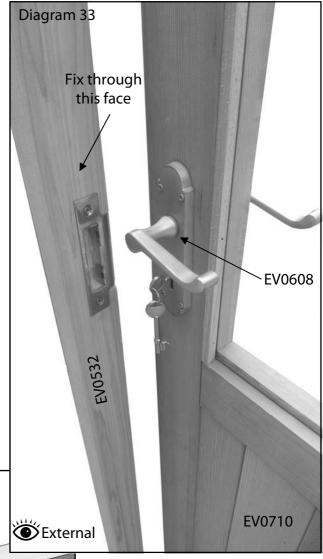
Take the door to the greenhouse frame assembly and slide it into place. Unlock and open the door so that it is 90 degrees to the frame as shown in the illustration on the opposite page.

You will need to pack the outside edge of the open door, ideally with a wedge so you have some adjustment or simply with some scrap cardboard from the packaging. This will help you get the frame in the correct position for fixing.

To start with you only need to put 4 fixings in the frame, 1 on either side at the top and the same at the bottom. The 50mm screws should go through the same face that the strike plate is mounted on and where the hinges are mounted on the other side. The back of the frame should line up with the inside face of the gable glazing bar, this should then also mean that the glass rebate on the frame header will line up with the rebate on the gable glazing bars (diagram 34).

When you are happy with the position of the frame fix it with the 50mm screws as shown on the opposite page. This is only an initial fix and adjustments can be made later.

Diagram 34



| Diagram 34 | Keep faces flush |
|------------------|-----------------------------------|
| Eaves bar | EV0530 |
| | EV0532 |
| É xternal | ми Note: door opens inwards |

| Door Parts | | | | |
|-----------------|----------------|-----|--|--|
| Part Name | Part Number | Qty | | |
| Door Lock | EV0606 | 1 | | |
| 4" Hinges | EV0607 | 3 | | |
| Door Handle Set | EV0608 | 1 | | |
| | | | | |

EV0710

Single Door

Door Installation

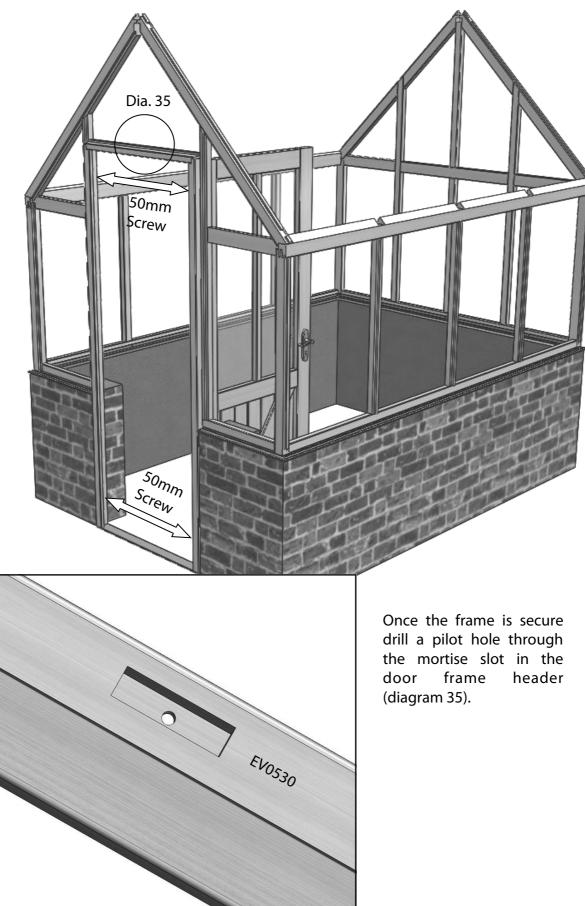
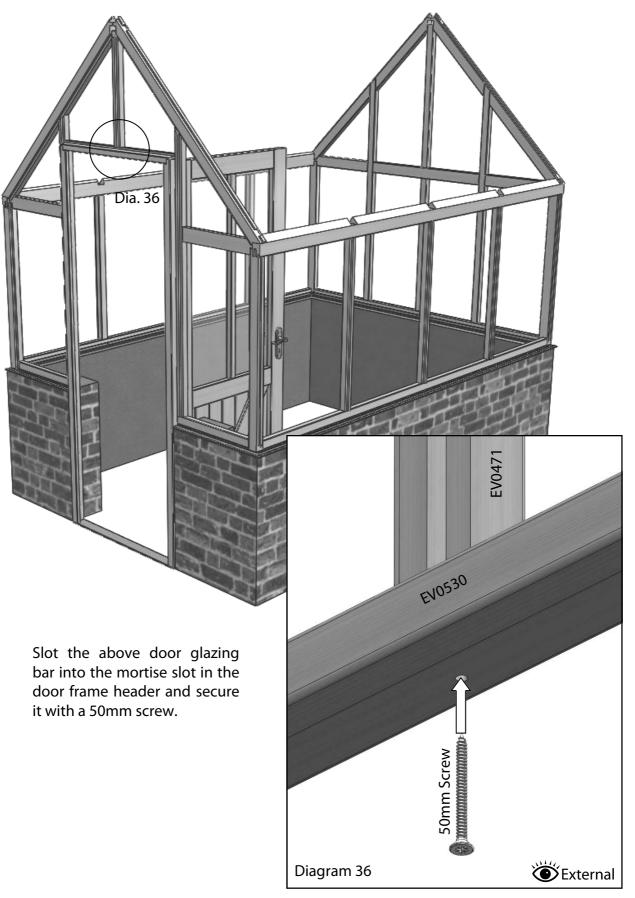
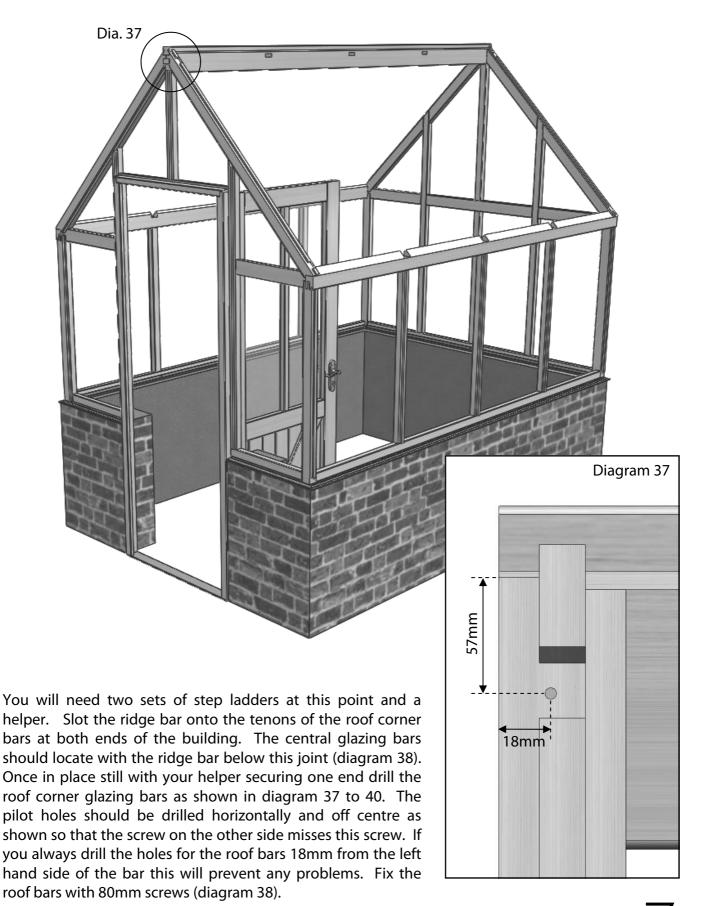


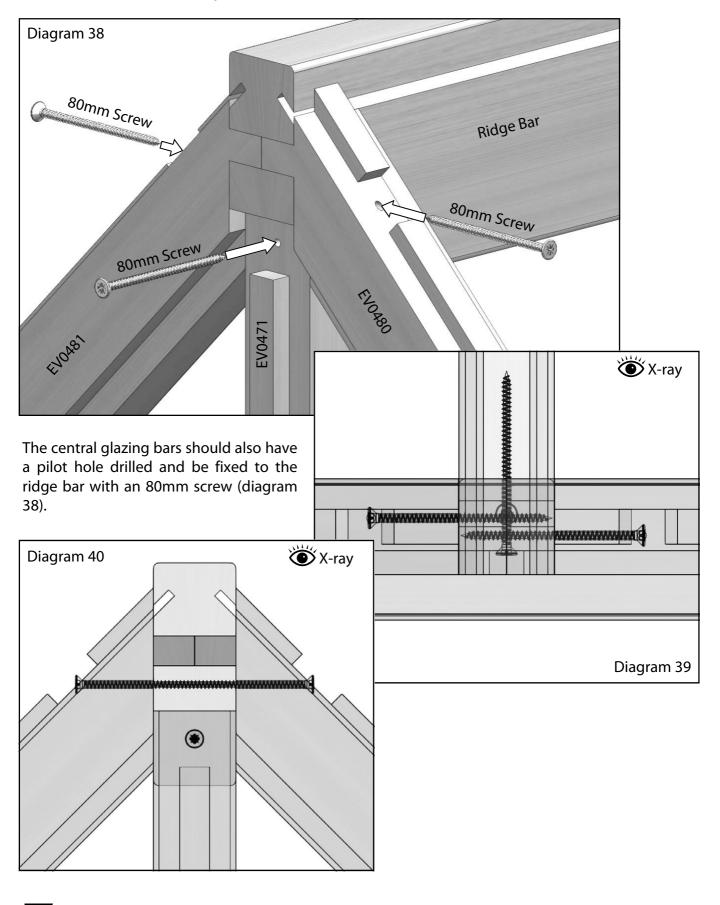
Diagram 35

6

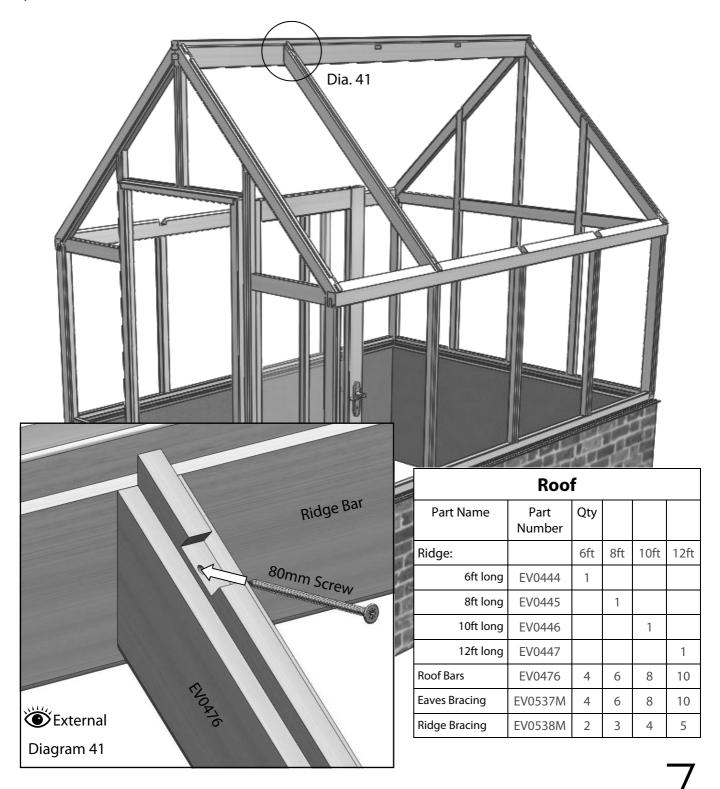
Door Installation



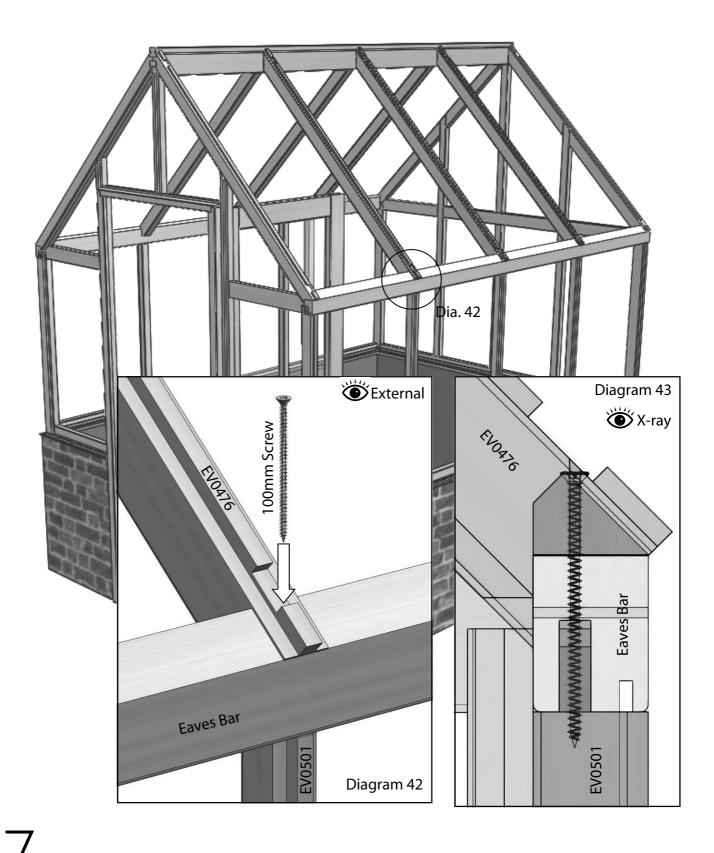


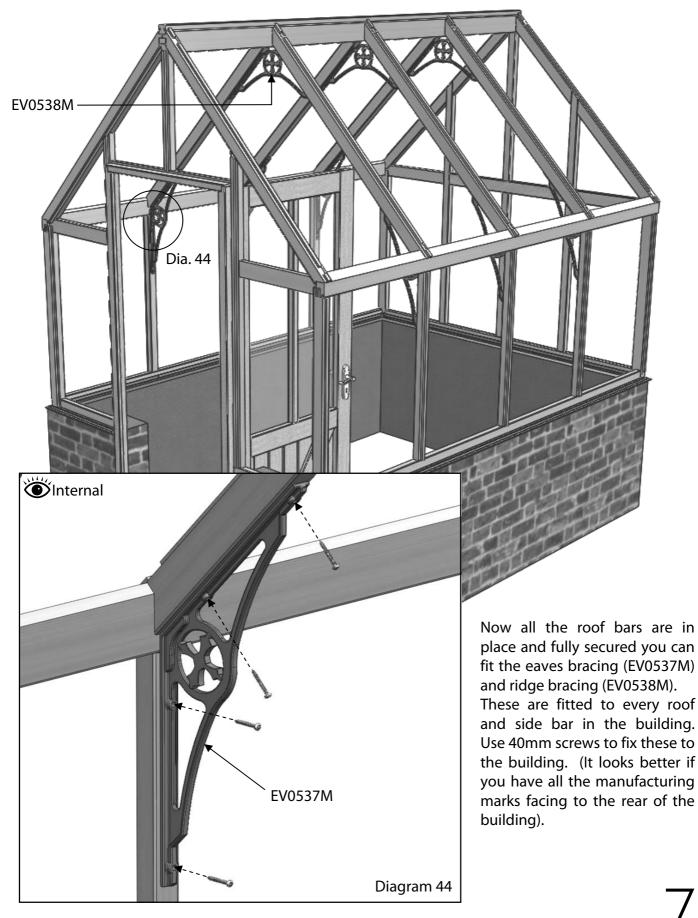


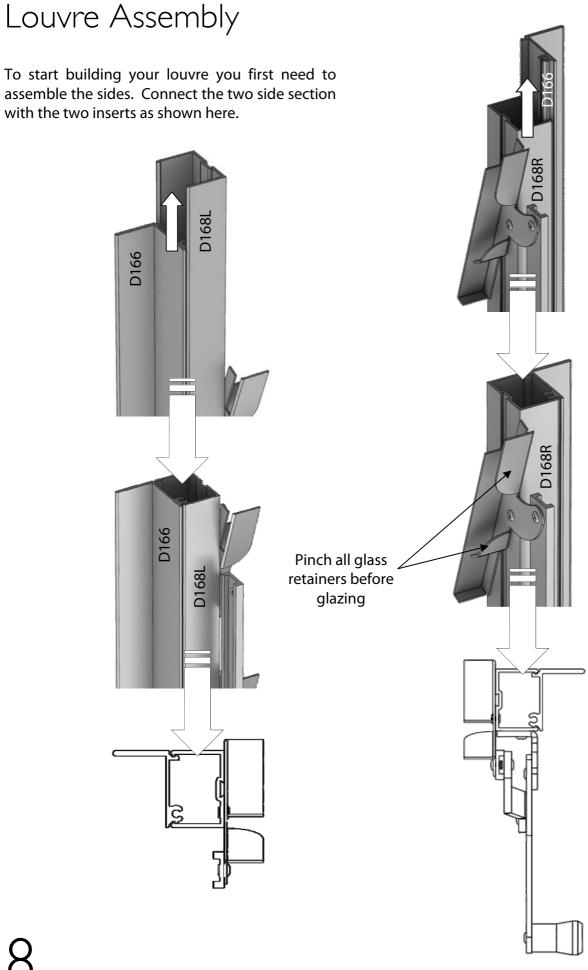
Now the ridge is in place you can install the roof bars. Slot the bar into the ridge first, the tenon may be a little tight so this might require a tap with a wood or rubber mallet. Once this has located correctly, locate the bottom of the bar with the trench in the eaves bar. This again may require some persuasion to get this to drop into place. Once the bar is fitted at both ends drill a pilot hole at the top of the bar as shown in diagram 41. This again should be drilled off centre as the roof corner bars were in diagram 37. Now fix with an 80mm screw. Don't fix the bottom until all the roof bars are in place.



With all the roof bars in place drill pilot holes vertically down through the roof bars, refer to diagram 27 (page 21) for the location of this hole. Make sure the roof bars are tight in to the eaves bar on the inside of the building and fix with 100mm screws (diagram 42).

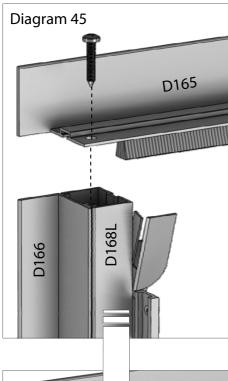




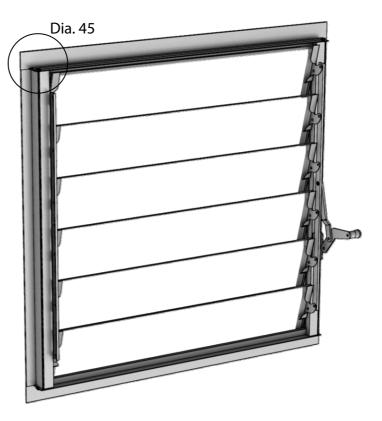


Louvre Assembly

| Louvre | | | | |
|----------------------|----------------|-----------|-----|--|
| Part Name | Part Number | Size (mm) | Qty | |
| Louvre Top/Bottom | D165 | 612 | 2 | |
| Louvre Side Insert | D166 | 552 | 2 | |
| Louvre Side | D168L | 552 | 1 | |
| Louvre Side (handle) | D168R | 552 | 1 | |
| Assembly Screw | FS6013 | 12 | 4 | |
| Louvre Glass | D729TG | 100 x 525 | 6 | |







Now you have assembled the side, trim the rubber seal flush with the ends. Attach the top and bottom of the louvre with the 12mm assembly screws. In each end. This locates with a screw channel in the side sections. Makes sure you pinch the glass retainers as this helps secure the glass when in place. You will find your louvre glass in the box with the louvre, you can install this now but it is easier to do so when the louvre is in the frame of the greenhouse.

Glazing Standard cedar capping or the upgrade aluminium capping?

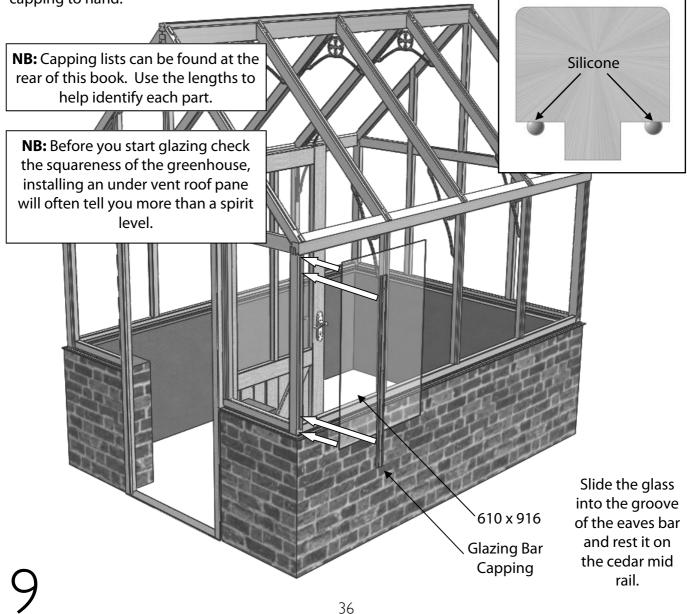
If you have the Aluminium capping you need to slide the glazing rubber into channels on the back of the capping. Use a Stanley knife or scissors to cut to length, it is best to use a complete length per side.

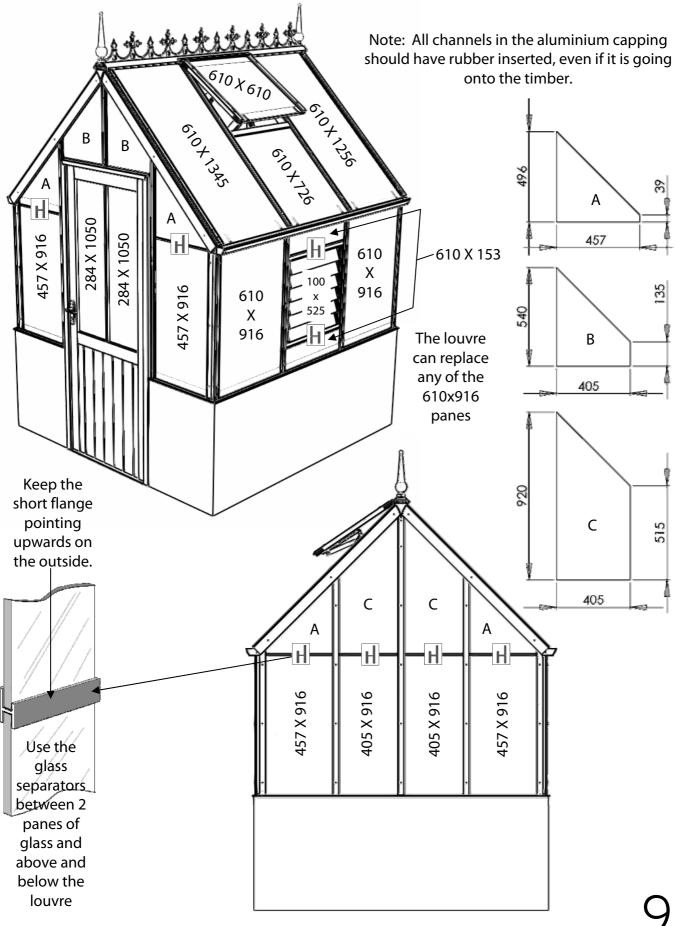


If you have the cedar capping you can pre load each strip with the 25mm screws. Also before you install each pane you need to run a thin bead of silicone up each glazing bar (no greater than 5mm is needed).

All of the capping is pre-cut to length, so sort through it placing the capping around the building close to were you can reach it. Start by glazing the first side section. Make sure you have the first piece of capping to hand.

| Glass Size | 66 | 68 | 610 | 612 |
|------------|----|----|-----|-----|
| Α | 4 | 4 | 4 | 4 |
| В | 2 | 2 | 2 | 2 |
| C | 2 | 2 | 2 | 2 |
| 457x916 | 4 | 4 | 4 | 4 |
| 610x916 | 7 | 8 | 10 | 12 |
| 610x153 | 2 | 4 | 4 | 4 |
| 525x100 | 6 | 12 | 12 | 12 |
| 610x610 | 1 | 2 | 3 | 4 |
| 610x1345 | 5 | 6 | 7 | 8 |
| 610x726 | 1 | 2 | 3 | 4 |
| 284x1050 | 2 | 2 | 2 | 2 |





🁾 X - Section

Separator

Glass

<u>ouvre Side</u>

Louvre Side

Separator

Diagram 46

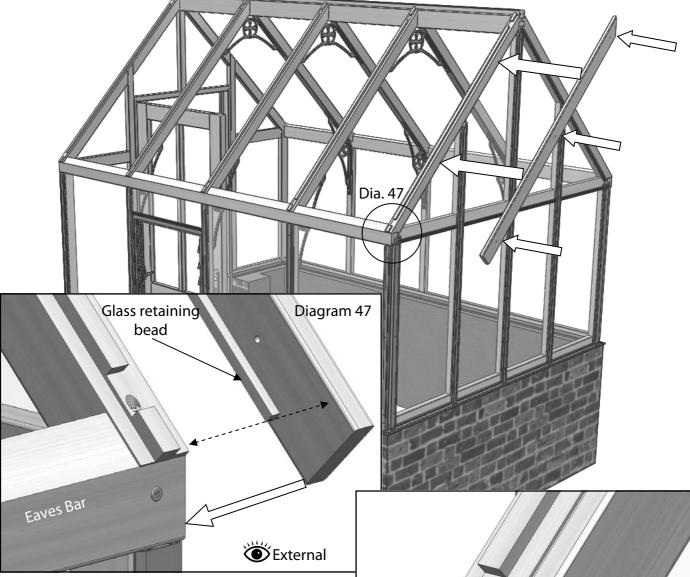
Glass.

610 x 153

Glazing Bar Capping

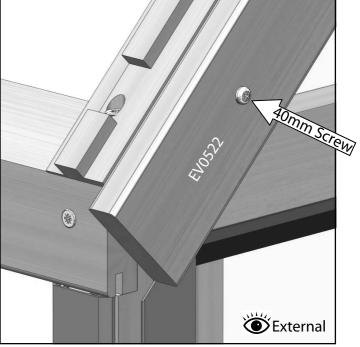
You need to decide where in the building you are having your louvre(s) Above is an example of how it might be fitted. The louvre can replace any of the 610×916 panes, but make sure the handle operates and that there is no interference with the glass in the location that you choose. Make sure you fit it the right way up (the handle is always on the right standing on the inside). Once in position fix the next piece of capping. This has now fully secured the previous pane and partially secured the current one.

Keep working round the building in the same direction, fitting louvres when needed. If you are right handed it is easiest to work left to right and vice versa!

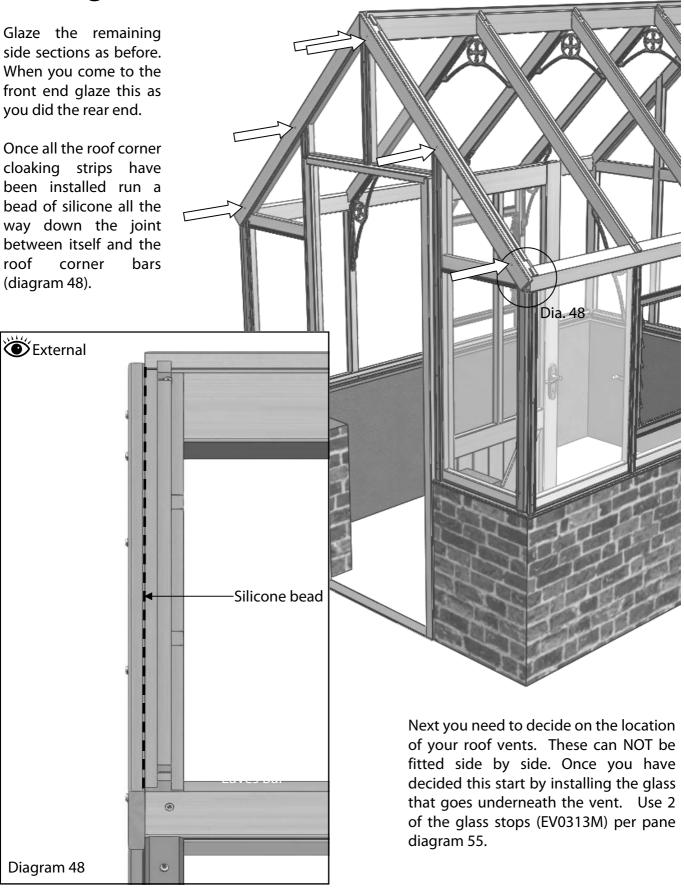


Install the rear glass in the same method as the side glass, the only difference is you have to stack the shaped panes on top using the glass separators. Make sure you have all the glass to hand when you are glazing this section. It is also a good idea to have an extra pair of hands to hold glass in place while you get the next section of glass in place. Always keep the glazing capping flush to the aluminium base level with the bottom of the glass.

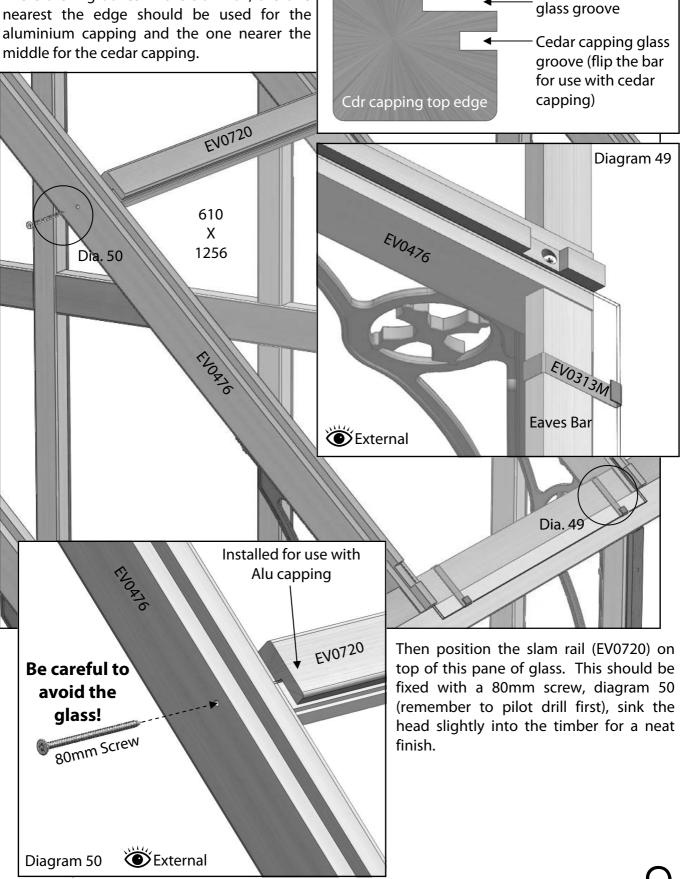
Once the vertical capping is on you can fit the roof corner cloaking strips. These are handed as they have glazing beads already attached to them to secure the shaped panes along the top edge, so make sure you have the correct one.



External

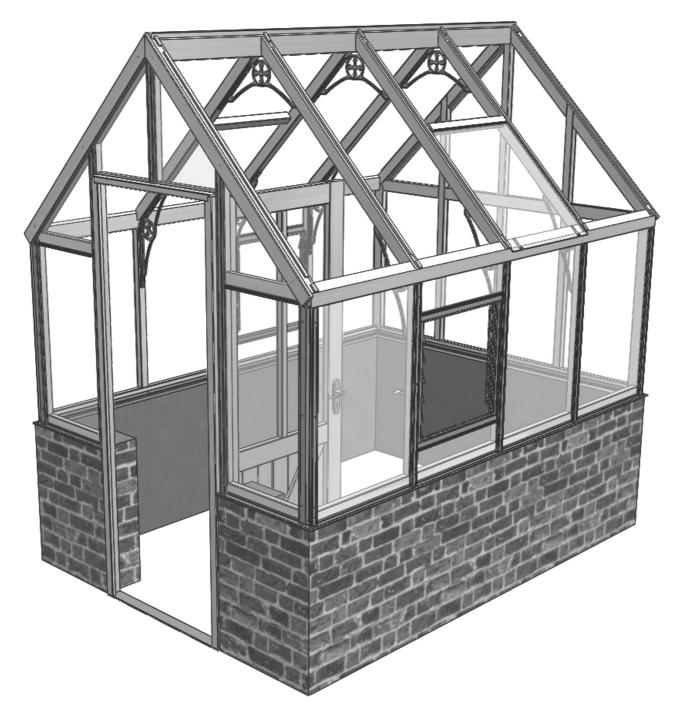


There are 2 grooves in the slam rail, the one

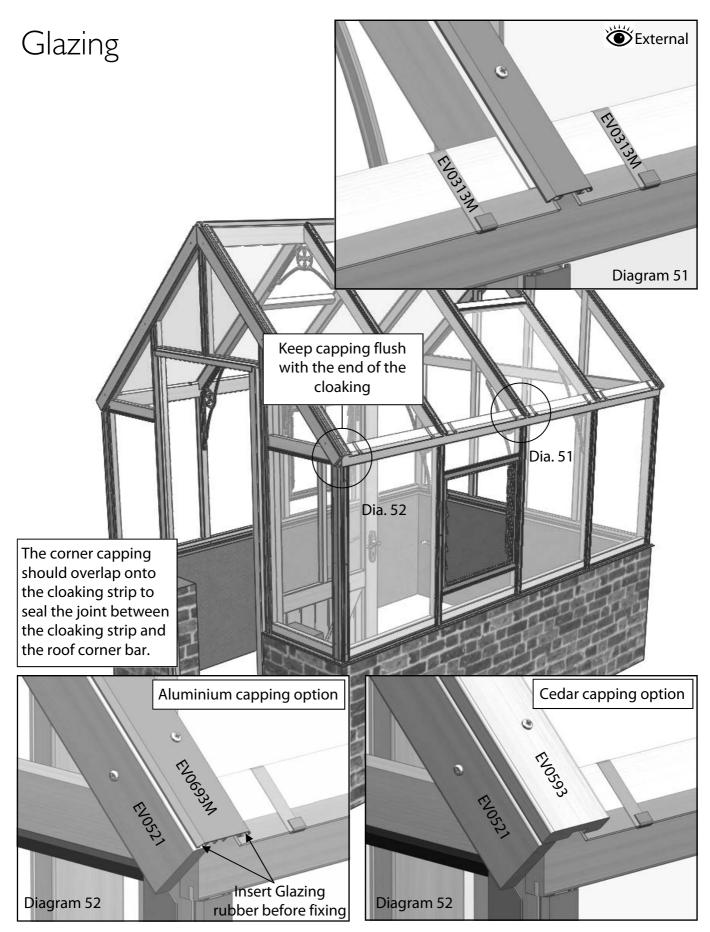


Alu capping top edge

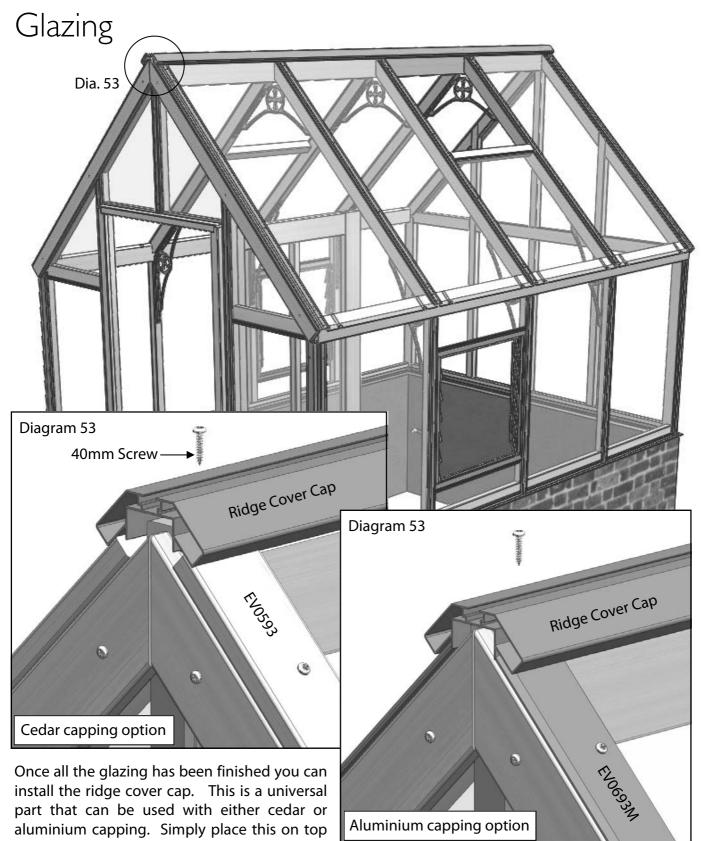
Aluminium capping



Now complete the glazing by fitting the roof panes. Slide these all the way up the glazing bars, making sure they tuck into the groove in the ridge. Slot 2 of the glass stops (diagram 49,51) on and lower the pane down onto the eaves bar. This will now support itself while you fix the capping in place. As with the sides work in a loop around the building. The capping for the roof corners is wider than normal to cover the join of the cover strip to



Note: Use countersunk screws where a vent is to be used so the head of the screw doesn't prevent the vent from closing properly.

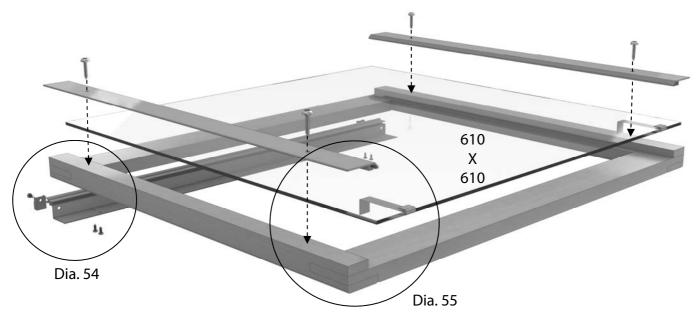


Aluminium capping option

aluminium capping. Simply place this on top of the ridge bar and fix in place using 25mm

screws though the pre-drilled holes.

Roof Vent Installation



Take the vent frame that is ready assembled and fix the vent hinge to one end through the 4 pre drilled holes using the 19mm screws, diagram 54. Once this is in place fix the plastic vent filler (EV0323) also with a 19mm screw, its is **important** to make a pilot hole before fixing the plastic filler to prevent splitting.

Now take a 610mm x 610mm pane of glass and locate this in the vent hinge. Before lowering this down completely slot the glass stops onto the open edge.

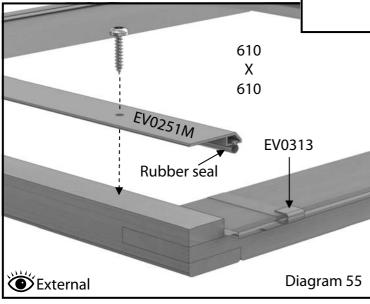


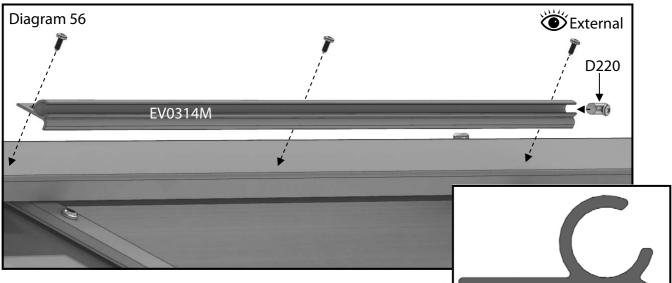
Diagram 54 EV0323 EV0323

> When in position you can fix the glass in place with the vent capping (either cedar or aluminium) using the 25mm screws, diagram 55. Remember if you are using the aluminium capping system you will need to insert the rubber seal before fixing it in place.

⁽Cedar capping part number: EV0151)

Roof Vent Installation

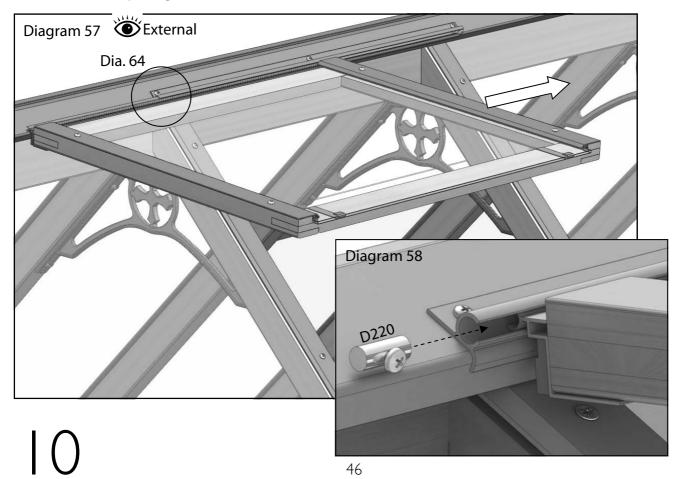
Once you have assembled the roof vents you can now install them to your building. Prepare the ridge hinge (EV0314M) by running a bead of silicone along the back edge.



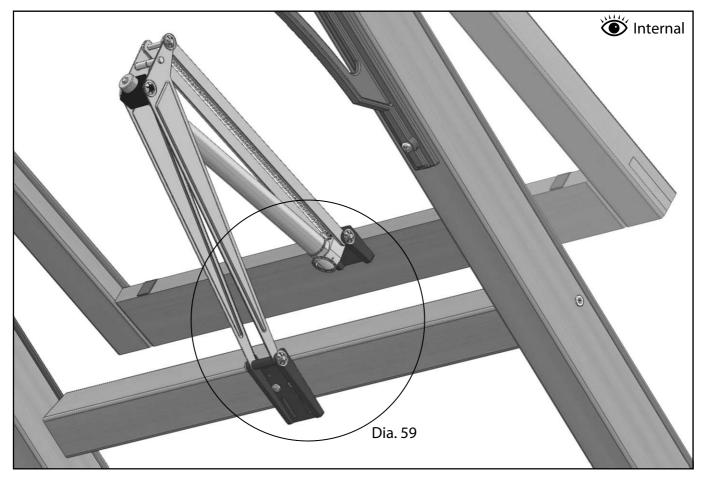
Then position this spaced equally over the opening in the roof. Use the 13mm self taping screws to fix the hinge section to the ridge cap, the screws will bore their own hole into the aluminium as you screw. Secure one of the vent stops (D220) at one end of the ridge hinge channel.

Next slide the roof vent along the channel of the ridge hinge from one end and secure with another vent stop, diagram 57 and 58. You can now lower the vent until it rests on the roof bars.

Silicone²



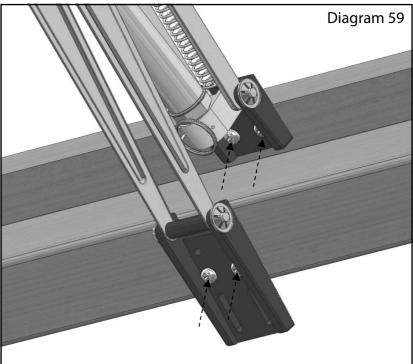
Roof Vent Installation



Now fit your autovents to the slam rail and to the bottom of the roof vents, diagram 59. Use 19mm screws to secure the top arm of the autovent to the roof vent, do this with the roof vent in the closed position so that you get the bracket in the correct position.

Adjust the position of the lower arm on the slam rail until the arms of the autovent are parallel with the roof as possible, then fix with 25mm screws.

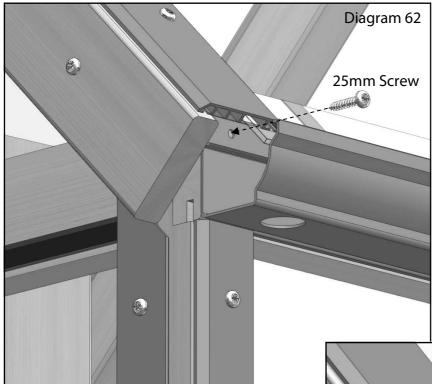
NB. Disregard any fitting instructions in the autovent box and any extra plates or screws as these are for other greenhouses. However you should keep the leaflet as the operating instructions are on there.



Louvre Glazing

If you haven't already done so you could now install the louvre glass. Make sure the tabs on the glass retainers are pinched slightly so they hold the glass tight. Standing on the inside of the building slot the first louvre slat in until it hits the bottom tab of the retainer. Repeat this until all are installed. **Internal** Dia. 61 Diagram 61 Diagram 60

Gutter and Downpipe Installation

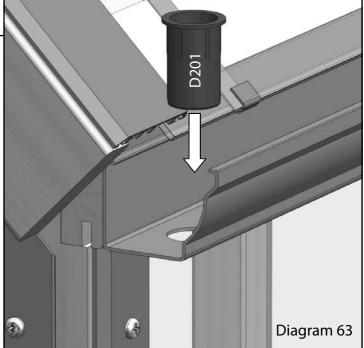


With help position your gutter on the side face of the eaves bars, this should be the same length as the eaves bar and fit between the ends of the roof corner bars. Fix it in place with 25mm screws, diagram 62.

Fit the plastic pipe insert in the end of the gutter you want your down pipe to run out of (diagram 63). Use a small amount of silicone to seal this in place.

Go to the next page to see how the downpipe can be installed.

| Gutter Parts | | | | | | |
|---------------------|----------------|-----|--|--|--|--|
| Part Name | Part Number | Qty | | | | |
| Gutter: | | 2 | | | | |
| 6ft long | EV0621M | | | | | |
| 8ft long | EV0622M | | | | | |
| 10ft long | EV0623M | | | | | |
| 12ft long | EV0624M | | | | | |
| Stop end RH | EV0535M | 2 | | | | |
| Stop end LH | EV0536M | 2 | | | | |
| Bracket | EV0740M | 4 | | | | |
| Downpipe Outlet | D201 | 2 | | | | |
| Downpipe Shoe | D207 | 6 | | | | |
| Rubber Blank | D214 | 2 | | | | |



Gutter and Downpipe Installation

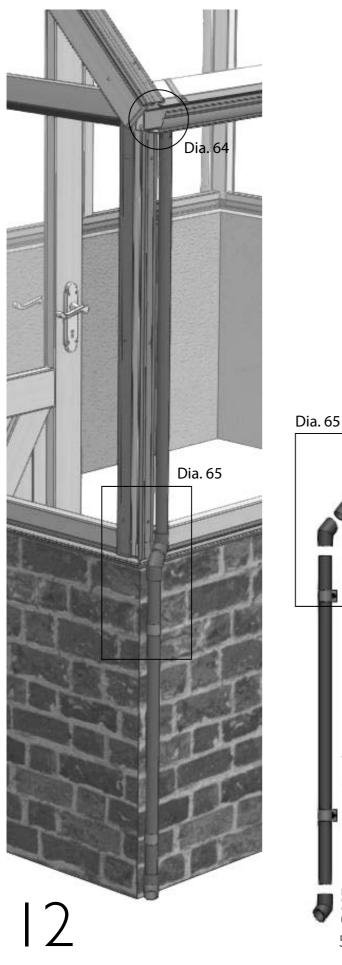
D201

Cut downpipe at 870mm

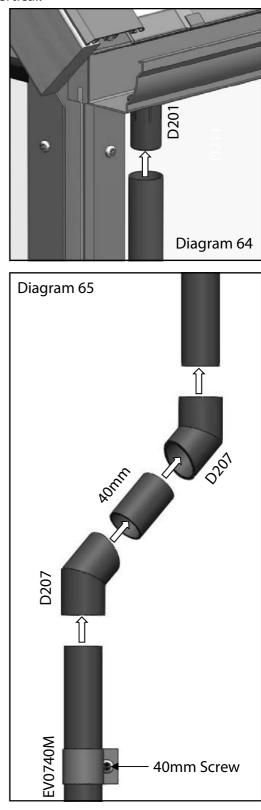
Cut downpipe at 700mm

D207

50



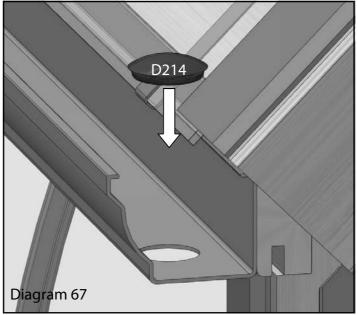
To install the downpipes straight to the floor cut the pipe as per the diagrams below. Use a small amount of silicone at each joint. The brackets can share the same hole as the capping for the panels. Use two M6 nuts as washers to space the brackets out so the pipe run vertical.



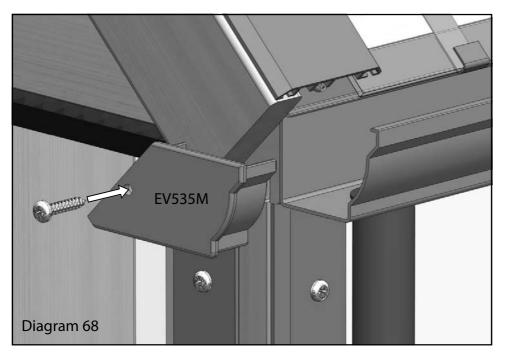
Gutter and Downpipe Installation



If you want to connect the pipe to a waterbutt cut the pipe appropriately and simply use the D207 joints to divert the pipe. Its likely you will need to fix the downpipe brackets higher up, again try to use a standard capping screw location. If you have the aluminium capping you may find you wish to use an M6 nut to space the bracket out so the pipe runs more inline with the greenhouse frame.

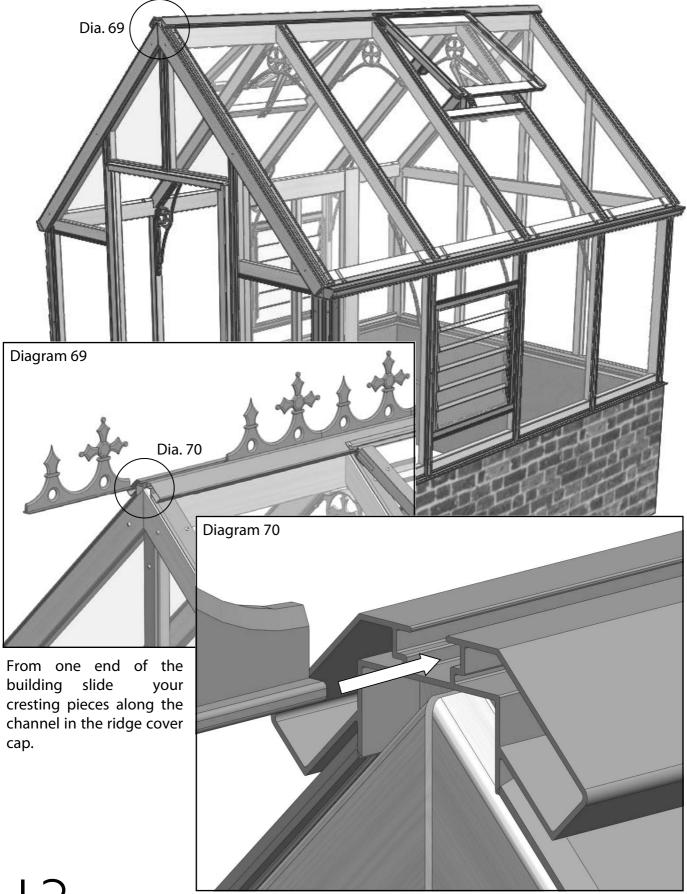


Pop the small rubber blank into the hole that is not required.

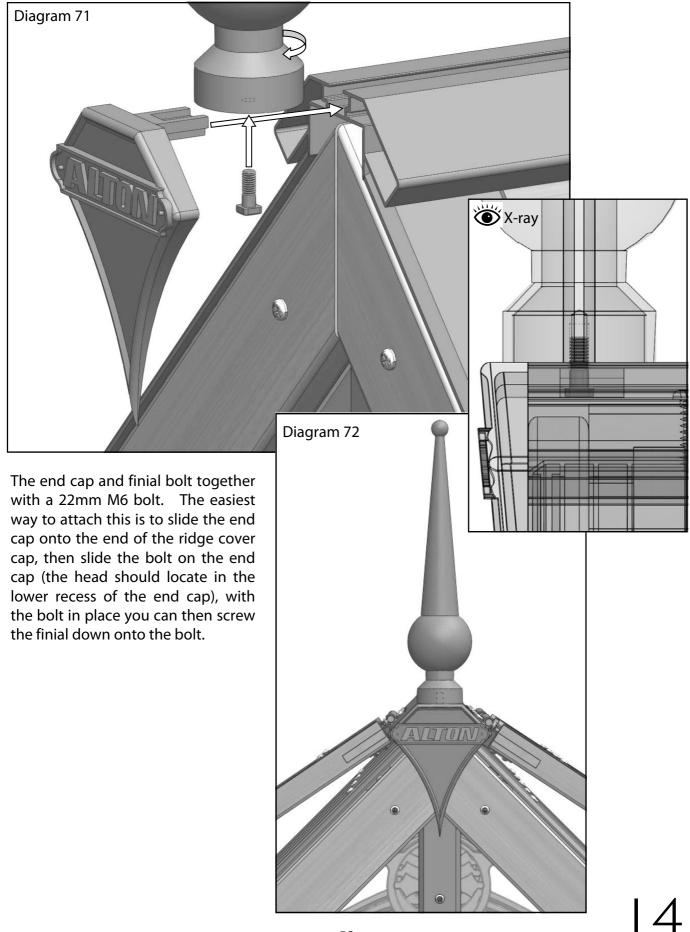


You can now fit the cast aluminium end stops. These will need a good amount of silicone applied to create the seal to the gutter, any excess should be removed once in place. Fix with one 25mm screw.

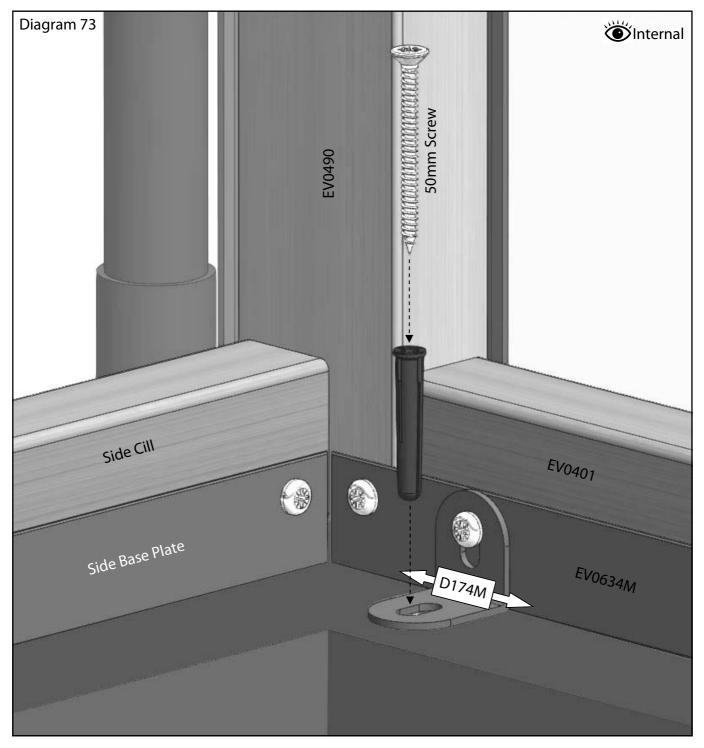
Optional Cresting



End cap and Finial

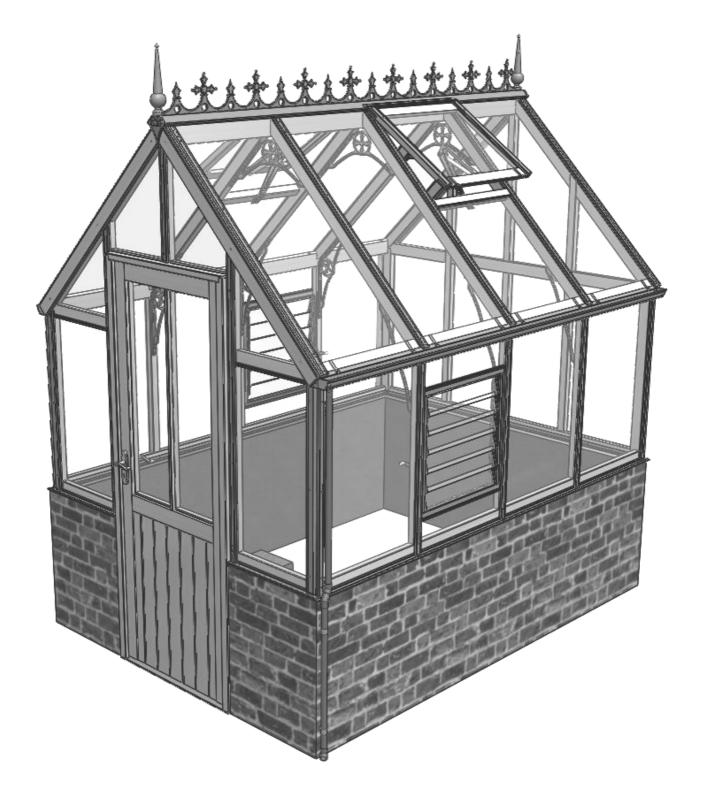


Finished installation



When you are happy with the final position of your greenhouse and all the sides are vertical and square you can fix the greenhouse to the brickwork using the small 'L' shaped brackets (D174M). You can either use the existing 25mm screws that join the aluminium base plate to the timber cills or simply drill new holes in the base plate to fix the bracket elsewhere (you may want to do this to avoid joints in the brickwork etc), diagram 73. Use brown rawl plugs, 50mm screws and a 7mm hammer drill to secure it through the base brackets.

Finished installation



Optional Auto Louvre Installation

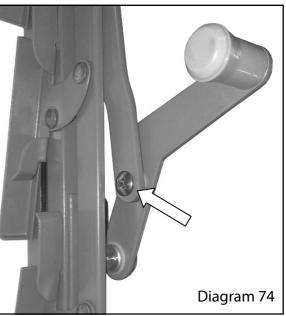
Once the louvre is installed in the greenhouse you can replace the manual handle with the automatic unit.

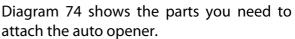
First of all remove the screw to release the arm (diagram 74).

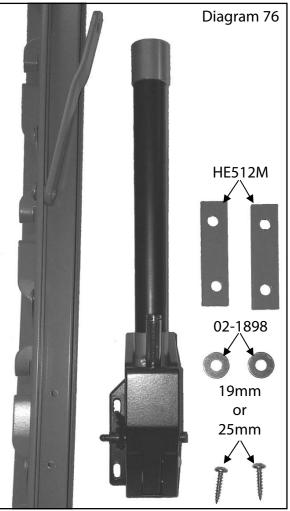
Next Remove the handle from the frame of the louvre (diagram 75).



16







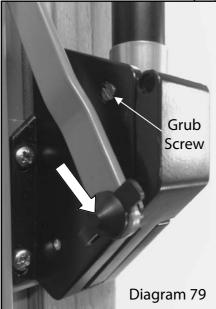
Optional Auto Louvre Installation

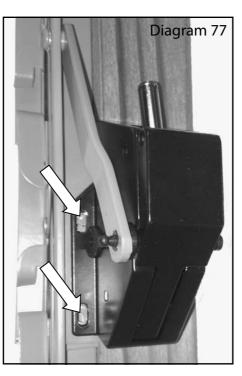
You now need to mark the frame to drill the 2 holes, use a 2.5mm drill bit for this.

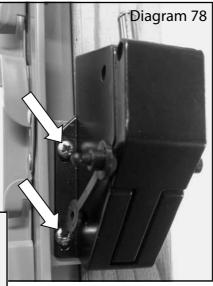
Offer the opener up to the frame with the plates and washers and slide the louvre arm into position. This now gives you the correct location for the opener (diagram 77). Once you have marked the frame remove the opener to drill the holes.

Now fix the opener to the frame using the 2 plates and 2 washers (diagram 78). You should have either 19mm or 25mm screws spare from the greenhouse frame for this.

Once fixed in place attached the louvre arm to the opener and hold in place with the plastic pop-on cap (diagram 79).







Now slide the cylinder onto the shaft attached to the body of the opener, secure this in place with 2 grub screws (diagram 79). Finally fit the thumb screw to the end of the cylinder, adjust this to get the desired amount of ventilation (diagram 80).



| Description: | Vic 6ft wide Gable box - Dwarf Wall | |
|---------------|-------------------------------------|----------|
| Product Code: | EVETOGAB | |
| | | |
| Product Code | Description | Quantity |
| | | |
| EV0005 | Cill Front Gable 6ft wide | 2 |
| EV0489 | Glazing Bar Side | 1 |
| EV0490 | Glazing Bar Side Corner R | 2 |
| EV0491 | Glazing Bar Side Corner L | 2 |
| EV0404 | Cill Rear Gable 6ft wide | 1 |
| EV0408 | Purling Gable 6ft wide R | 2 |
| EV0413 | Purling Rear Gable | 1 |
| EV0414 | Purling Gable 6ft wide L | 2 |
| EV0492 | Glazing Bar Gable 6ft wide R | 2 |
| EV0493 | Glazing Bar Gable 6ft wide L | 2 |
| EV0460 | Glazing Bar Above Middle Purling | 1 |
| EV0471 | Glazing Bar Above Door 6ft wide | 1 |
| EV0480 | Glazing Bar Roof Corner R 6ft wide | 2 |
| EV0481 | Glazing Bar Roof Corner L 6ft wide | 2 |
| EV0521 | Roof Corner Cloaking R 6ft wide | 2 |
| EV0522 | Roof Corner Cloaking L 6ft wide | |
| EV0632M | ALU Vic base plate front 6ft wide R | 1 |
| EV0633M | ALU Vic base plate front 6ft wide L | 1 |
| EV0638M | ALU Vic base plate rear 6ft wide | 1 |

Description: Victorian 6ft wide House box

| Product Code | | EVVIC64 | EVVIC66 | EVVIC68 | EVVIC610 | EVVIC612 |
|--------------|--|----------|----------|----------|-----------|-----------|
| | Description | 4ft long | 6ft long | 8ft long | 10ft long | 12ft long |
| | | | | | | |
| EVPACVIC | Victorian Component Pack | 1 | 1 | 1 | 1 | 1 |
| EV0313M | Glass Stop EV0313 **MOSS** | 8 | 12 | 16 | 20 | 24 |
| EV0537M | Alton Eaves Bracing EV0537 **MOSS** | 2 | 4 | 6 | 8 | 10 |
| EV0538M | Alton Ridge Bracing EV0538 **MOSS** | 1 | 2 | 3 | 4 | 5 |
| EVPACVENT | Vent pack bundle for Evo | 1 | 1 | 2 | 3 | 4 |
| BAXLAU | Bayliss Auto-vent | 1 | 1 | 2 | 3 | 4 |
| EVSMA01 | Smalls Pack No 01 for Evolution | 1 | 1 | 1 | 1 | 1 |
| EVSMAVIC01 | Smalls Pack No 01 for Victorian | 1 | 1 | 1 | 1 | 1 |
| ROSEPS | Glass separators 4mm black | 6 | 6 | 6 | 6 | 6 |
| EV0476 | Glazing Bar Roof 6ft wide EV0476 1324mm | 2 | 4 | 6 | 8 | 10 |

| Description: | n: Vic Common Length box - Dwarf Wall | | | | | |
|--------------|---------------------------------------|----------|----------|----------|-----------|-----------|
| Product Code | | EVCLDW4 | EVCLDW6 | EVCLDW8 | EVCLDW10 | EVCLDW12 |
| | Description | 4ft long | 6ft long | 8ft long | 10ft long | 12ft long |
| | | | | | | |
| EV0014 | Side Cill | 2 | | | | |
| EV0015 | | | 2 | | | |
| EV0016 | | | | 2 | | |
| EV0017 | | | | | 2 | |
| EV0018 | | | | | | 2 |
| EV0489 | Glazing Bar Side | 2 | 4 | 6 | 8 | 10 |
| EV0417 | Eaves Bar | 2 | | | | |
| EV0418 | | | 2 | | | |
| EV0419 | | | | 2 | | |
| EV0420 | | | | | 2 | |
| EV0421 | | | | | | 2 |
| EV0443 | Ridge Bar | 1 | | | | |
| EV0444 | | | 1 | | | |
| EV0445 | | | | 1 | | |
| EV0446 | | | | | 1 | |
| EV0447 | | | | | | 1 |
| EV0620M | ALU Vic Gutter | 2 | | | | |
| EV0621M | | | 2 | | | |
| EV0622M | | | | 2 | | |
| EV0623M | | | | | 2 | |
| EV0624M | | | | | | 2 |
| EV0626M | ALU Vic Ridge Cap | 1 | | | | |
| EV0627M | | - | 1 | | | |
| EV0628M | | | | 1 | | |
| EV0629M | | | | | 1 | |
| EV0630M | | | | | | 1 |
| EV0642M | Vic base plate side | 2 | | | | |
| EV0643M | | | 2 | | | |
| EV0644M | | | | 2 | | |
| EV0645M | | | | | 2 | |
| EV0646M | | | | | - | 2 |
| EV0325 | Evolution complete louvre kit | 1 | 1 | 2 | 2 | 2 |
| D211 | Grey Downpipe Length 1625mm | 2 | | | | |

| Description: | Cedar Capping for Vic 6ft wide - Dwarf wall | | | | | | | |
|--------------|---|----------|----------|----------|-----------|-----------|--|--|
| | | | | | | | | |
| | | EVETO- | EVETO- | EVETO- | EVETO- | EVETO- | | |
| Product Code | | CAPC64 | CAPC66 | CAPC68 | CAPC610 | CAPC612 | | |
| | Description | 4ft long | 6ft long | 8ft long | 10ft long | 12ft long | | |
| EV0556 | Cedar Capping Side Corner R | 2 | 2 | 2 | 2 | 2 | | |
| EV0557 | Cedar Capping Side Corner L | 2 | 2 | 2 | 2 | 2 | | |
| EV0564 | Cedar Capping Gable 6ft wide R | 2 | 2 | 2 | 2 | 2 | | |
| EV0565 | Cedar Capping Gable 6ft wide L | 2 | 2 | 2 | 2 | 2 | | |
| EV0566 | Cedar Capping Mid 6ft wide | 1 | 1 | 1 | 1 | 1 | | |
| EV0569 | Cedar Capping Above Door | 1 | 1 | 1 | 1 | 1 | | |
| EV0555 | Cedar Capping Side | 6 | 8 | 10 | 12 | 14 | | |
| | | | | | | | | |
| EV0151 | Cedar Capping Roof Vent | 2 | 2 | 4 | 6 | 8 | | |
| EV0588 | Cedar Capping Roof | 2 | 4 | 6 | 8 | 10 | | |
| EV0593 | Cedar Capping Roof Corner | 4 | 4 | 4 | 4 | 4 | | |
| 02-1356 | Clear Silicone | 1 | 3 | 3 | 3 | 4 | | |

| Description: | Alu Capping for Vic 6ft wide - Dwarf wall (Optional) | | | | | |
|--------------|--|------------------|------------------|------------------|-------------------|-------------------|
| Product Code | | EVETOCA- PA64 | EVETOCA- PA66 | EVETOCA- PA68 | EVETOCA- PA610 | EVETOCA- PA612 |
| | Description | 4ft long | 6ft long | 8ft long | 10ft long | 12ft long |
| EV0656M | ALU Vic Capping Side Corner R | 2 | 2 | 2 | 2 | 2 |
| EV0657M | ALU Vic Capping Side Corner L | 2 | 2 | 2 | 2 | 2 |
| EV0664M | ALU Vic Capping Gable 6ft wide R | 2 | 2 | 2 | 2 | 2 |
| EV0665M | ALU Vic Capping Gable 6ft wide L | 2 | 2 | 2 | 2 | 2 |
| EV0666M | ALU Vic Capping Mid 6ft wide | 1 | 1 | 1 | 1 | 1 |
| EV0669M | ALU Vic Capping Above Door 6ft wide | 1 | 1 | 1 | 1 | 1 |
| EV0655M | ALU Vic Capping Side | 6 | 8 | 10 | 12 | 14 |
| EV0251M | ALU Roof Vent Capping | 2 | 2 | 4 | 6 | 8 |
| EV0688M | ALU Vic Capping Roof 6ft wide | 2 | 4 | 6 | 8 | 10 |
| EV0693M | ALU Vic Capping Roof Corner 6ft wide | 4 | 4 | 4 | 4 | 4 |
| EV0227 | Glazing PVC 10m (m700) 1729D10GP coil | 5 | 6 | 7 | 8 | 9 |

Notes...

Notes...



Alton Greenhouses, TGP Ltd, Blythe Park, Cresswell, Stoke-on-Trent, ST11 9RD