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Extension Instruction Manual

Please read all instructions before proceeding

Standard building

Extension



12' Wide Evolution Extension Assembly Instructions

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Thank you for purchasing your new Alton greenhouse extension. We recommend you familiarise yourself with the instructions and read all safety information before you commence assembly. This instruction manual is also available online at <u>www.greenhousepeople.co.uk</u> in the technical help section should you need to reprint it. Should you require any additional advice you can always call us on 01782 385409.

Safety Warning

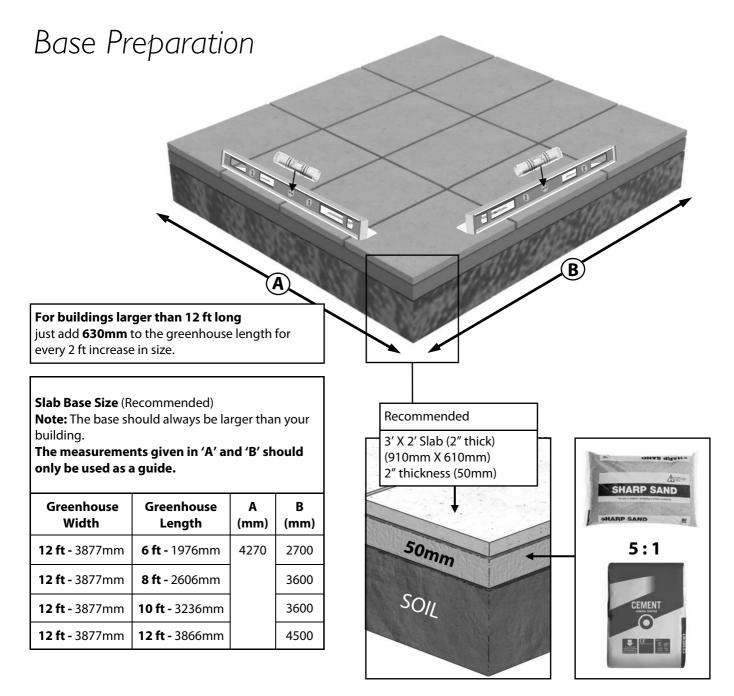
- Glass, aluminium and timber can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.
- Please remember that glass is fragile and should be handled with extreme care. Always clear up and dispose of any breakages 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.
- Once installed your greenhouse requires little maintenance, but to maintain the smooth running of your door(s) WD40 or similar can be applied to the door wheels and lower door guides.
- Remember this is a natural un-treated product, the wood will soak up some water to start with and some staining may occur. This will settle down over time and the greenhouse will really blend with its surroundings. If you want to avoid this and give your greenhouse a more permanent finish you could apply an oil or spirit based product (it would be best to do this before glazing!).



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 space of 2ft/610mm around 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.

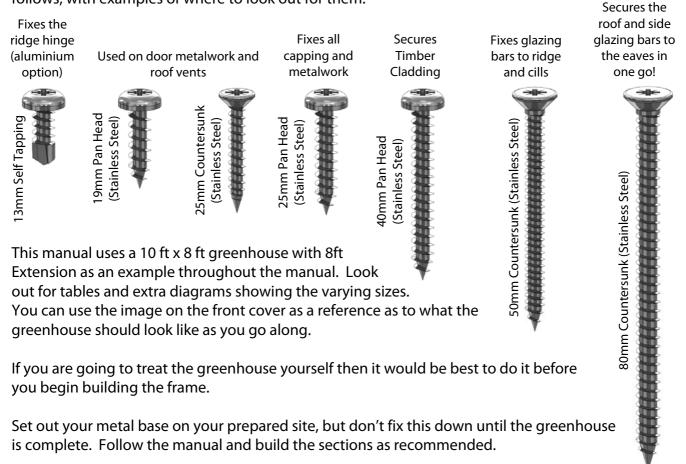
Finally, and most importantly, choose a site where your Alton Greenhouse will look right so that it will complement your garden.

Overview

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

Spirit LevelPencilPZ2 Screwdriver BitCordless Screwdriver (2 would be ideal, 1 to drill and 1 to screw)4mm Drill Bit7mm Masonry BitHammer DrillHammerStep laddersStep ladders

There are 7 different types of screws used in the construction of the greenhouse. These are as follows, with examples of where to look out for them:



When screwing through one piece of timber into another it is always recommended to predrill the first piece. This will prevent the timber from splitting which could weaken the structure.

You can build the sides of the main building and the extension flat on the ground and then with help or using a prop position the first standard side ready for installation. You then work your way around the greenhouse connecting each section. The front gable is the next section to install, followed by the other standard side and then the extension sides. You then attach the rear gable. Once you have completed the gables and sides you can install the ridge and the roof.

If for some reason you want the extension section at the front (maybe the location of a partition would cause this) simply turn the extension 180 degrees and fit the right side on the left and vice versa.



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 when handling the glass (this also helps to keep it clean). It is good practice to preload the 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 vent. This is done from the inside, gain access through the opening on a set of steps.

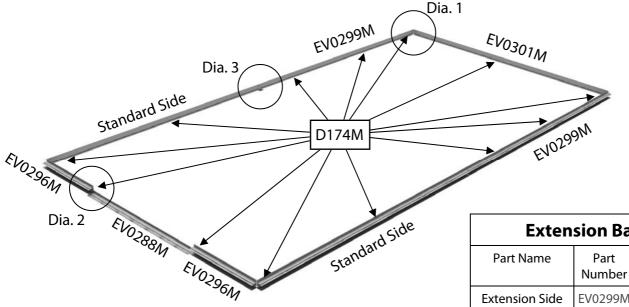
All you have left to do now is fit the gutter and downpipes, think about where you might site a waterbutt when doing this.

You can always add a Partition or another Extension at a later date so consider this when you are siting your greenhouse.

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.

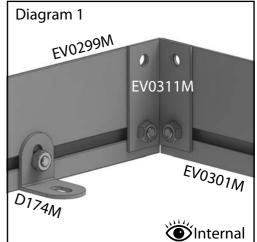
Base Assembly

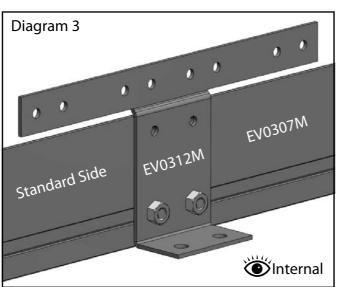


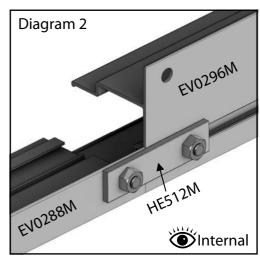
Lay out your aluminium base sections as the diagram shows. Insert bolts in the bolt channels for attaching the base brackets (D174M), diagram 1. The base brackets should always be positioned either side of the door, in the corners, in the middle of the rear and equally spaced down the sides. Use the joining bracket in each corner to join the sections (diagram 1). The top holes will take a 25mm screw when the side cills are fixed to it. Also fit the front door cill with 2 plates (HE512M), diagram 2.

Use the larger plates at an extension point (EV0312M), diagram 3. Don't fix any of the base brackets to the ground until the building is complete.

Extension Base				
Part Name	Part Number	Size (mm)	Qty	
Extension Side	EV0299M	2519	2	
Joining Bracket	EV0312	-	2	
Base Bracket	D174M	-	4	

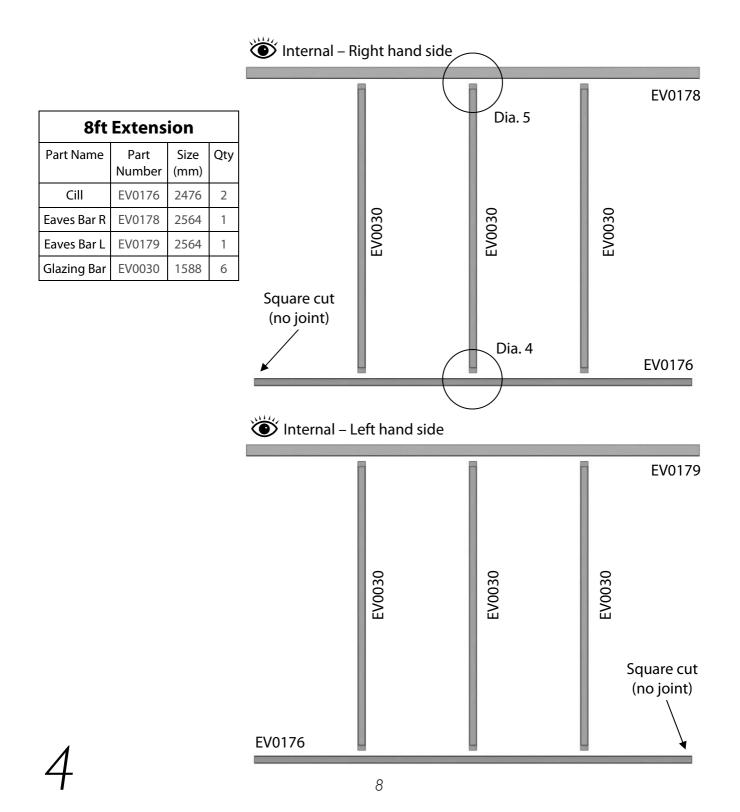




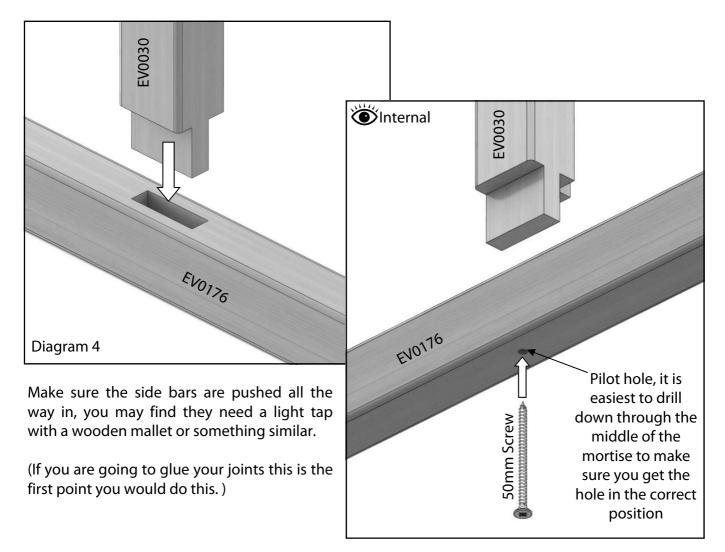


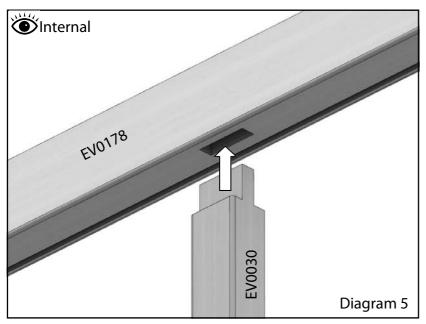
Extension Side Assembly

Begin by laying out the components for your 2 extension sides flat on the ground as the diagram below shows. Use the table below to help identify 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 4, page 9). 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. There is no need to fix this yet as it is done at a later stage.

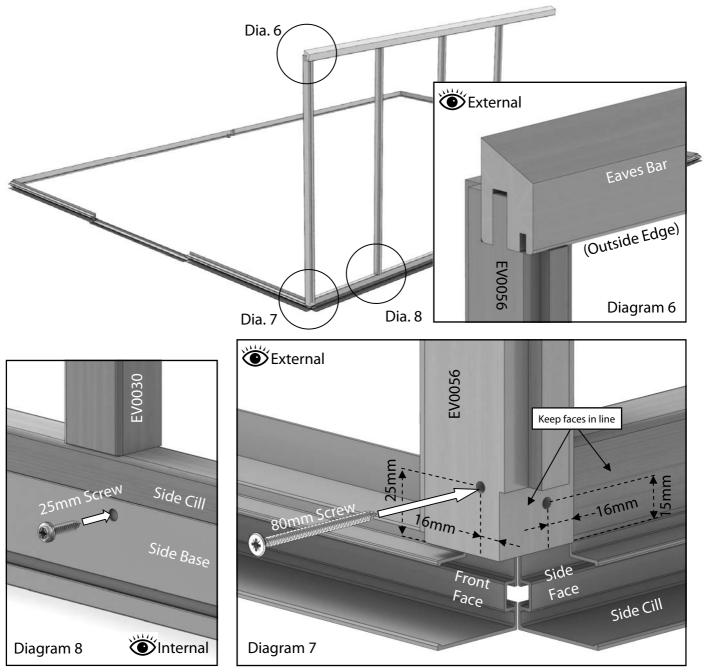


Extension Side Assembly





Front Assembly

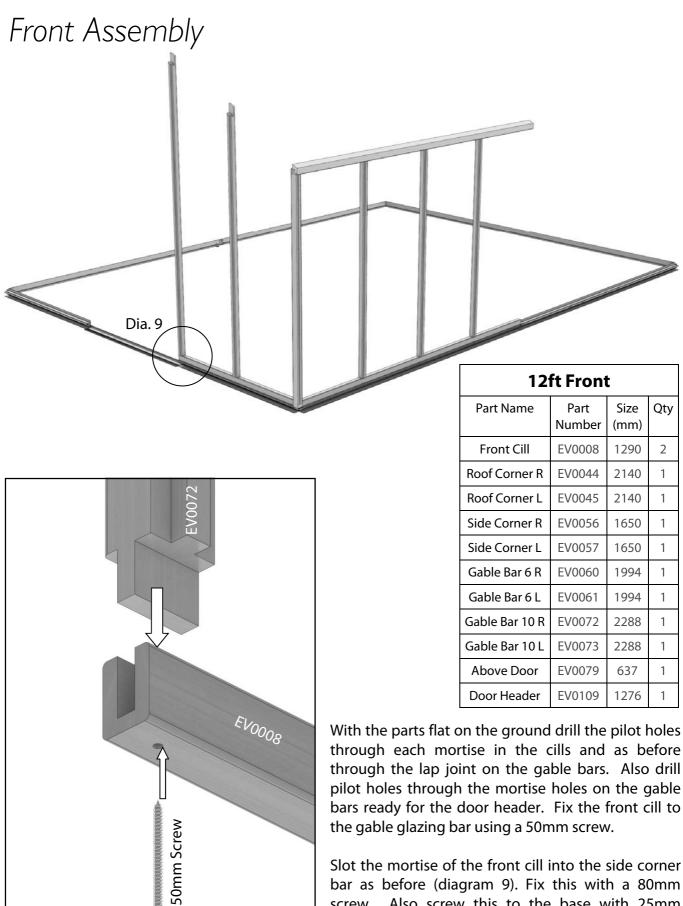


To install this section you will need a helper to hold the side in position or strap it to a set of steps. Drill two pilot holes in the bottom of the side corner bar as in diagram 6. The height of these holes should be about 15mm on the side face and 25mm on the rear face measured from the end of the bar, try to keep these at different heights to each other so the screws don't intersect each other.

Now offer the side corner to the eaves bar slotting the tennon into the mortise shown in diagram 5, do not fix this joint as it will be done at a later stage. Screw the bottom of the corner glazing bar to the end of the cill (80mm screw) making sure the rebate for the glass lines up with the front face of the side cill (diagram 6).

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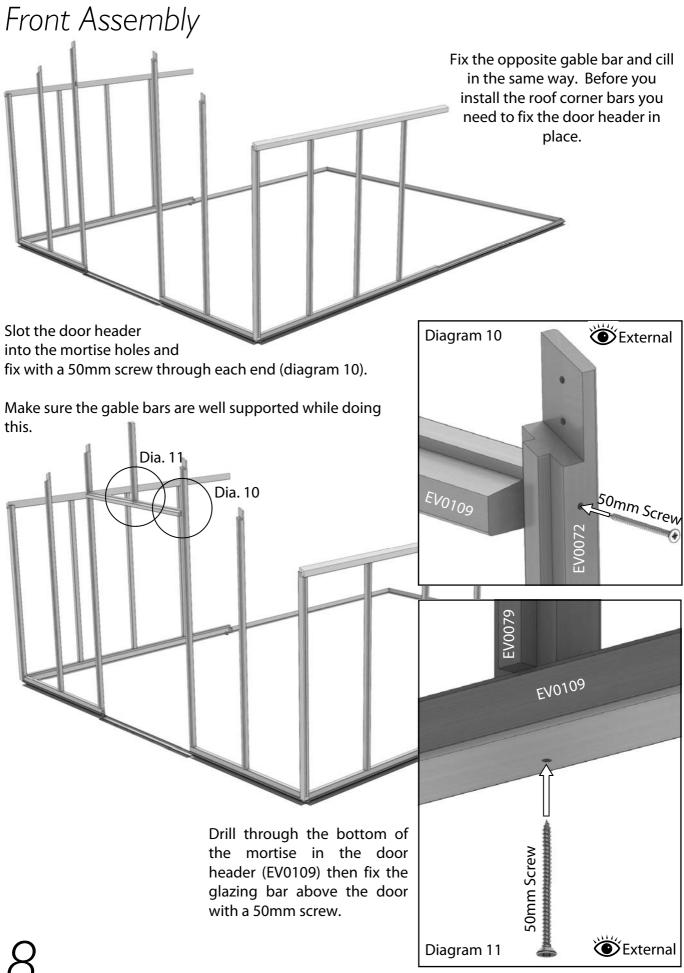
Once the side corner bar is in place this will give you the correct position on the aluminium base and you can fix the base to the side cill with 25mm screws (diagram 7).



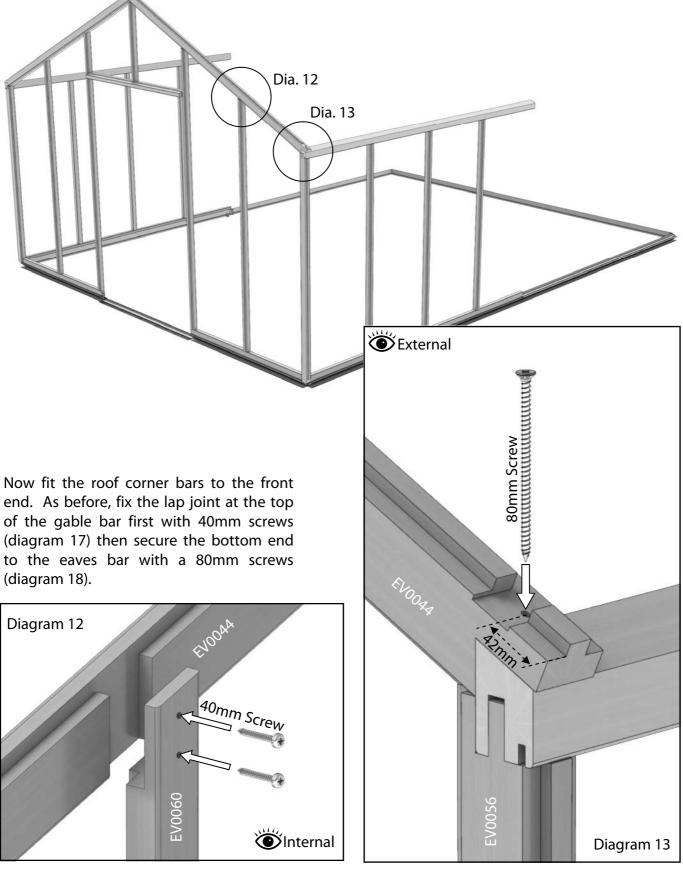
bar as before (diagram 9). Fix this with a 80mm screw. Also screw this to the base with 25mm screws. Keep the gable glazing bar supported while you get the next parts ready.

Diagram 9

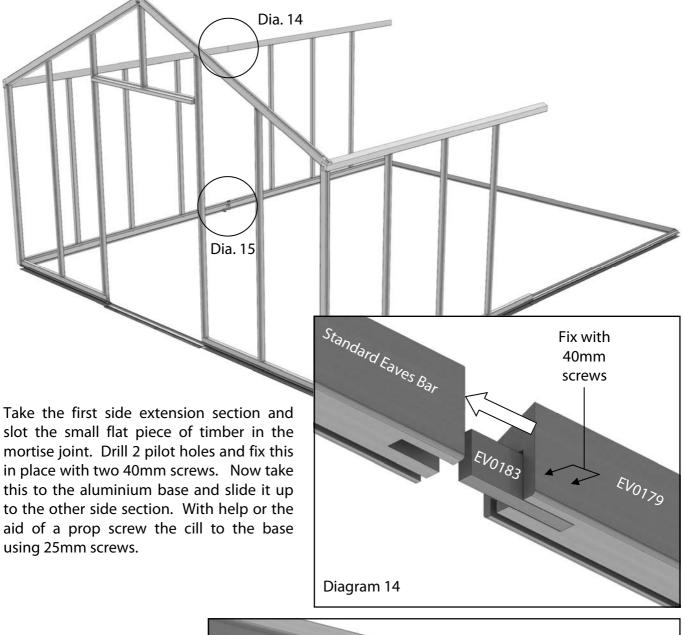
External

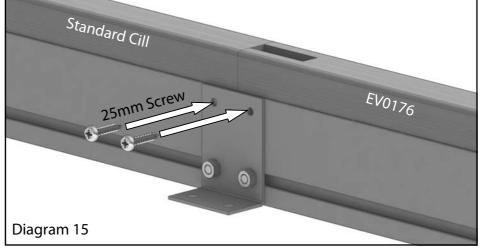


Front Assembly

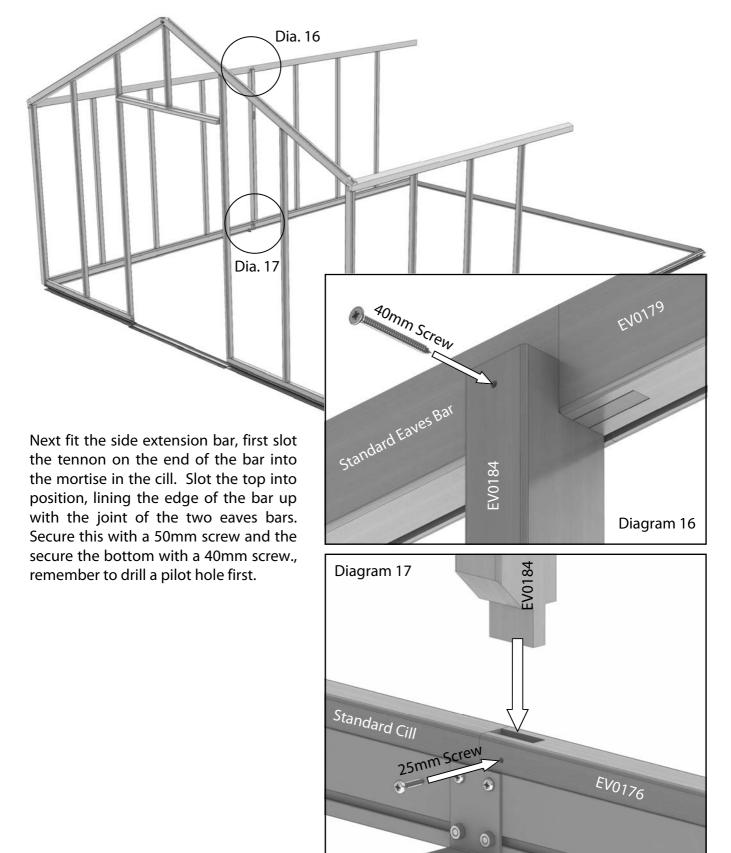


Extension Installation

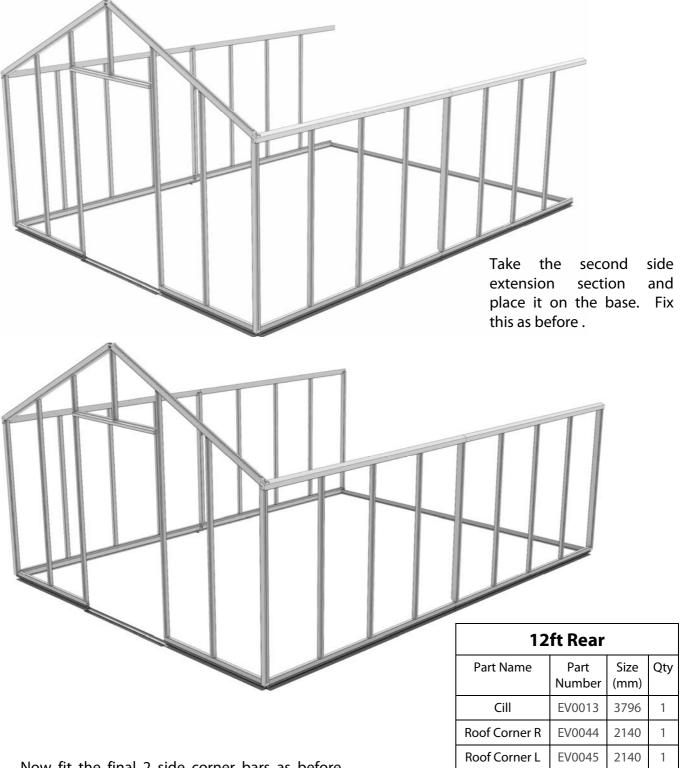




Extension Installation



Rear Assembly



Now fit the final 2 side corner bars as before. See diagram 7 for the position of the holes. Don't fix the top of the bar until the roof corner bars have been fitted.

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Side Corner R

Side Corner L

Gable Bar 6 R

Gable Bar 6 L

Gable Bar 12 R

Gable Bar 12 L

Mid Gable Bar

EV0056

EV0057

EV0060

EV0061

EV0064

EV0065

EV0076

1

1

1

1

1

1

1650

1650

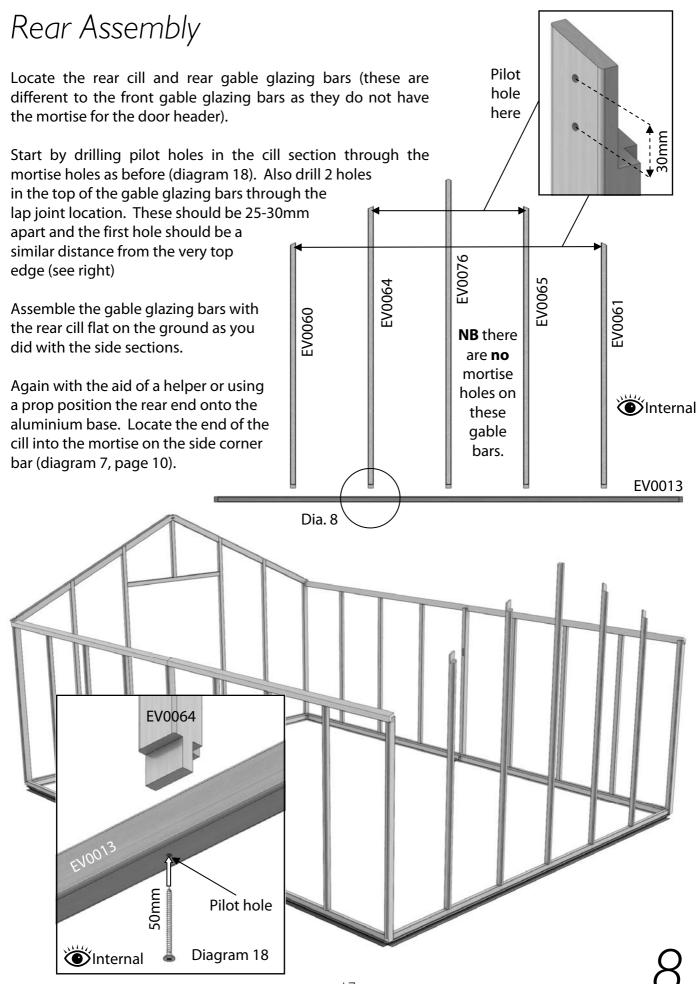
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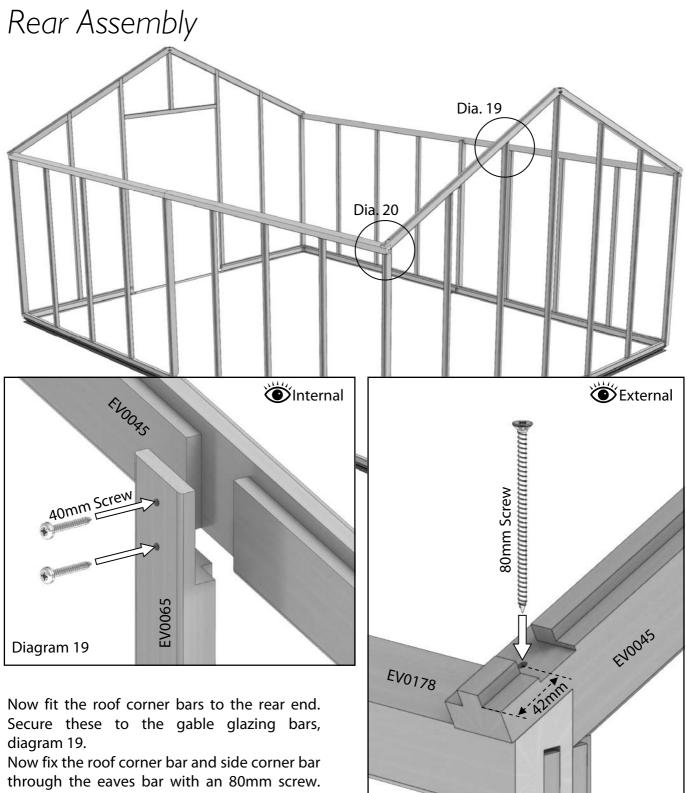
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2288

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2507





through the eaves bar with an 80mm screw. You can then screw the base to this section with a 25mm screw.

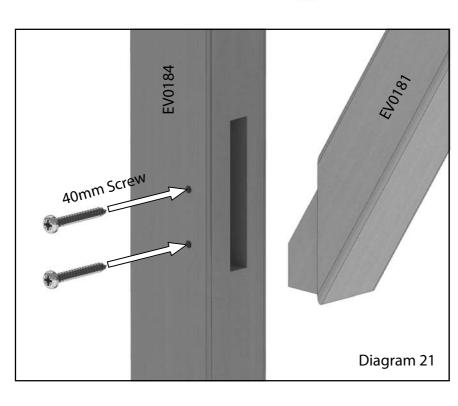
Diagram 20

EV0057

A-frame Assembly

Dia. 21

You can start building the A-frame next. Take the eaves extension braces and locate them in the mortise slots in the extension side bars. Pilot hole and fix these with 40mm screws. Make sure the flat face that meets the side bar is seated correctly before fixing.



A-frame Assembly

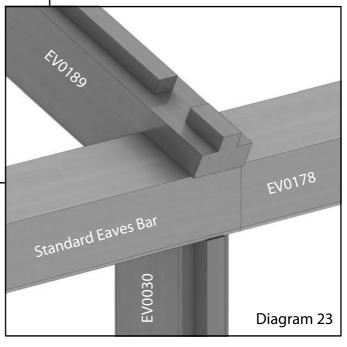
Diagram 22

EV0189

Dia. 22

Now slot the extension roof bars onto the eaves bars and eaves braces, again locating the mortise and tennon joints (diagram 22). Before fixing these it would be a good idea to fit the A-frame brace (diagram 24). Once these are all in place check they are all inserted correctly and fix them with 40mm screws.

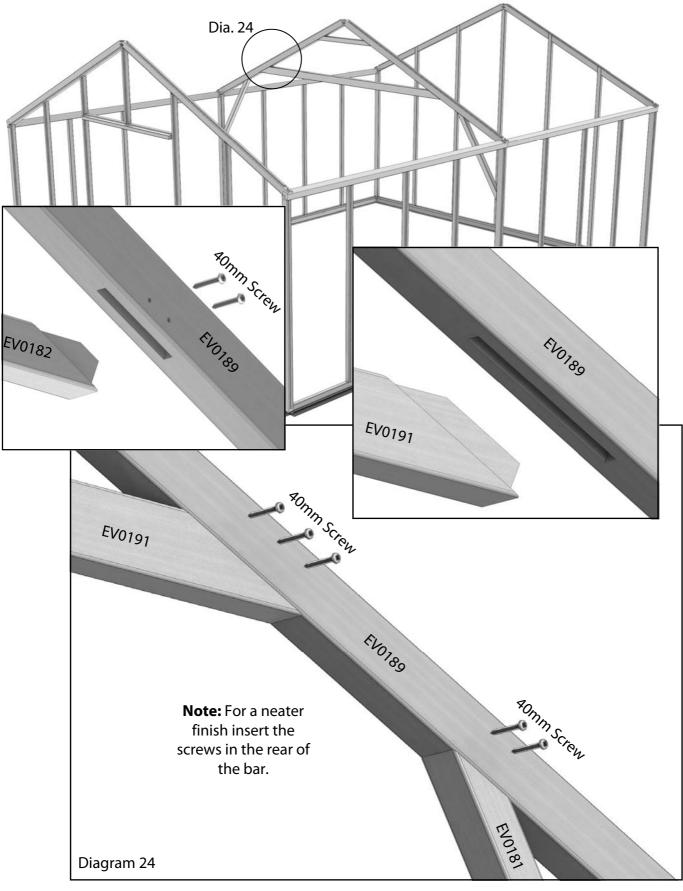
Dia. 23

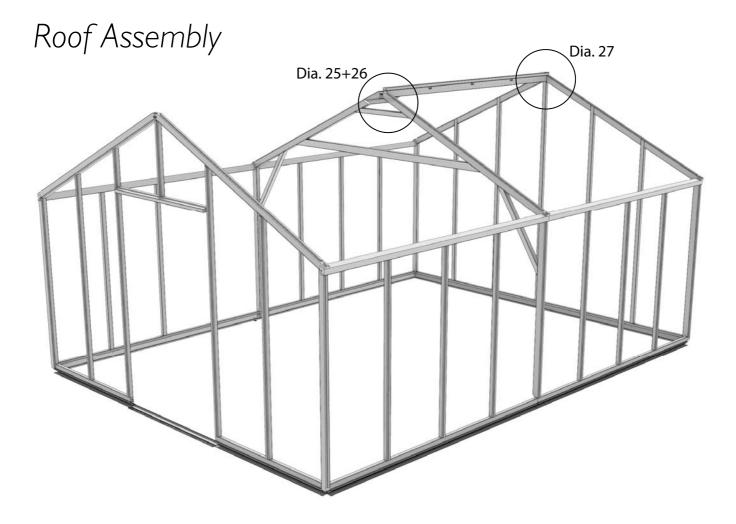


Don't fix the roof bars to the eaves at this stage as it is better to do this with the rest of the roof bars.

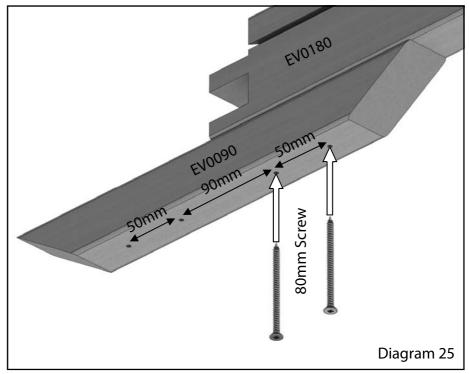
EV0181

A-frame Assembly

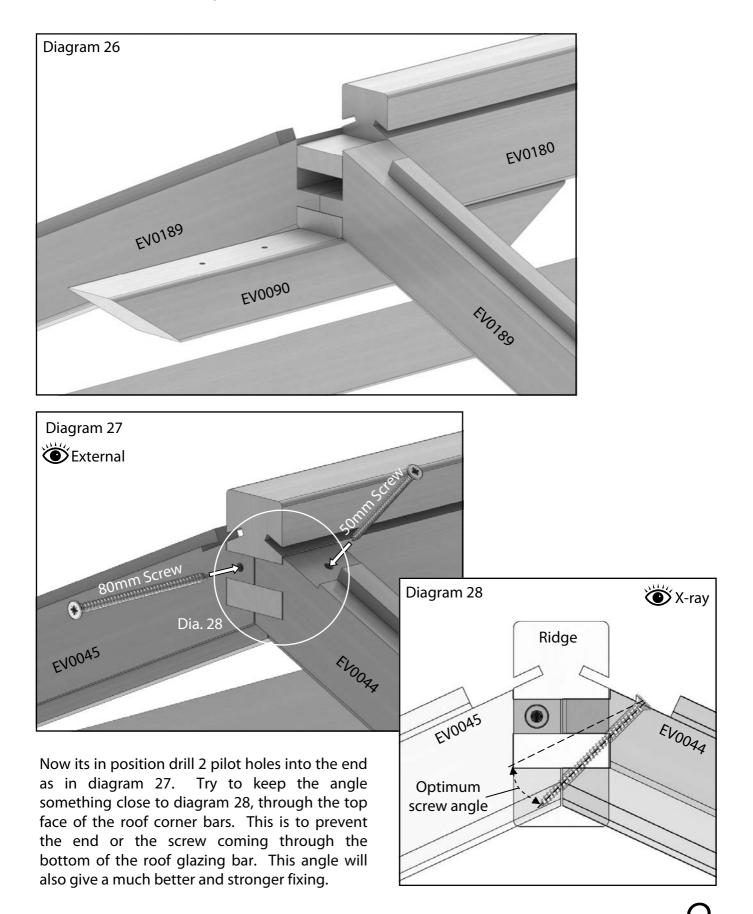




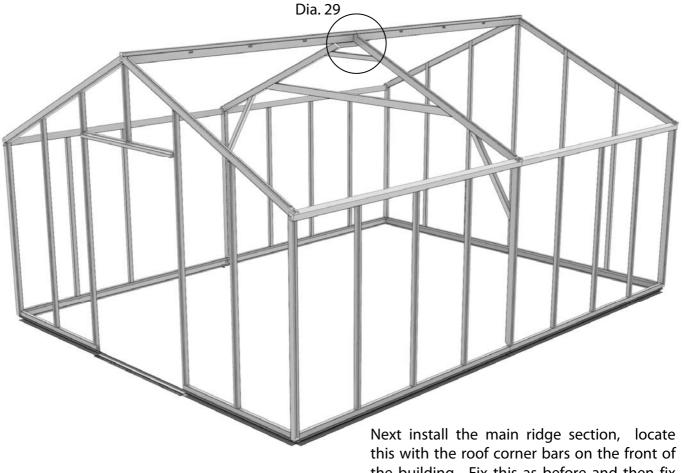
Now install the ridge sections. Firstly fit the ridge extension plate (this is the same part as the eaves braces). Drill 4 pilot holes as in diagram 25. Space these about 50-60mm apart with an 80-90mm gap in the middle so that the fixing screws don't interfere with the ridge joint. Fix this the extension ridge while on the ground. Lift it into position and slot one end into the rear of the greenhouse and rest the other end on top of the A-frame (diagram 26).



Roof Assembly



Roof Assembly



this with the roof corner bars on the front of the building. Fix this as before and then fix the ridge plate to the main ridge as shown in diagram 25 with 80mm screws.



8



Now the ridge bars are installed you can return to section 7 on page 19 of your main book to complete the assembly of the building.