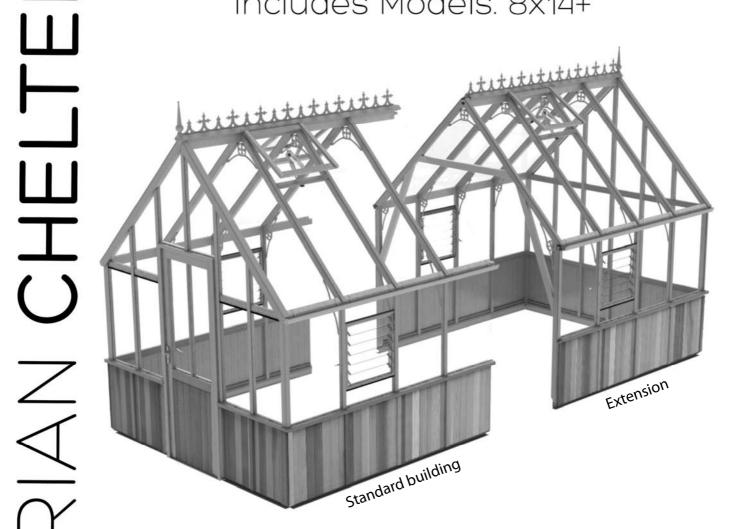


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Half Board Extension Instruction Manual

Includes Models: 8x14+





8' Wide Victorian Cedar Greenhouse Extension Assembly Instructions

Contents:	Section	Page
Introduction	-	3
Base Preparation	1	4
Overview	2	5-6
Base Assembly	3	7
Side Assembly	4	8-9
Frame Assembly	5	10-13
Door Installation	6	14-17
Extension Assembly	7	18-20
A-frame Assembly	8	21-24
Roof Assembly	9	25-28
Mid Rail Assembly	10	29
Parts List		30

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. 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

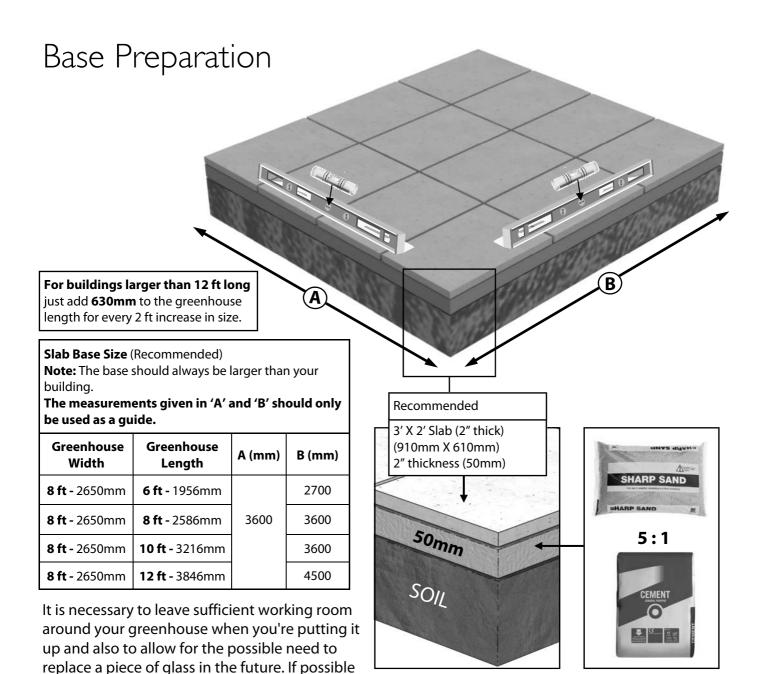
- Glass, aluminium and timber can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.
- Please remember that glass is fragile and should be handled with extreme care. Always clear up and dispose of any breakages 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.
- 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).



try and leave a 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.

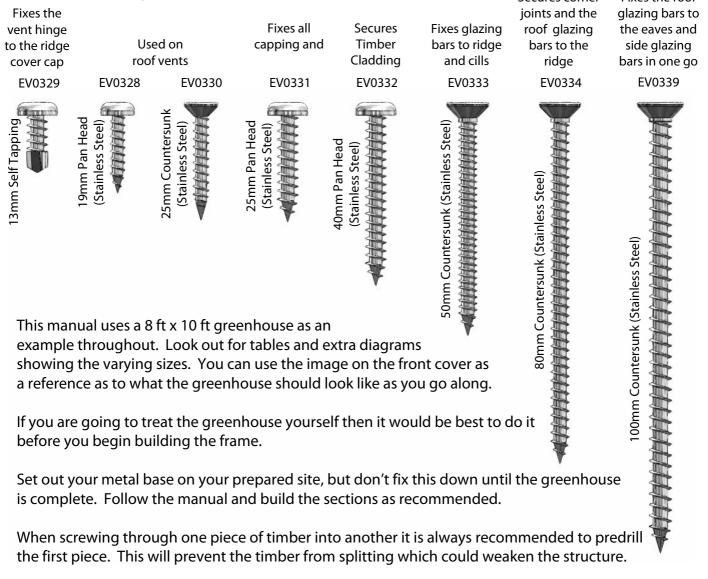
Finally, and most importantly, choose a site where your Alton Greenhouse will look right so that it will complement your garden.

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 asfollows, with examples of where to look out for them:Secures cornerSecures cornerFixes 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.



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.

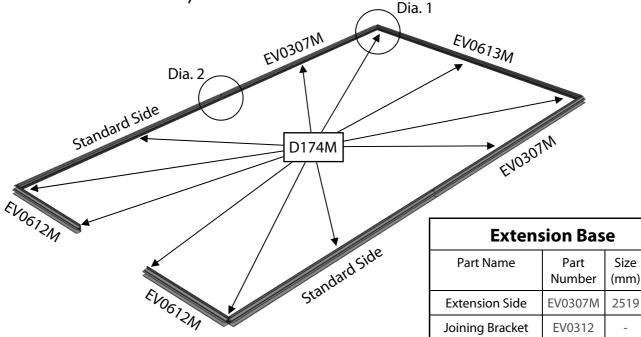
Then fit the roof vents. This is done from the inside, gain access through the opening on a set of steps.

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.

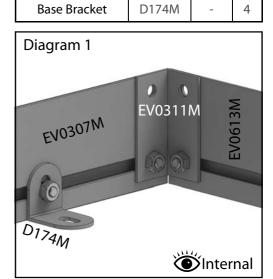
Read through the rest of this manual before starting, you are less likely to miss something doing this and you will have a better understanding of how it all works.

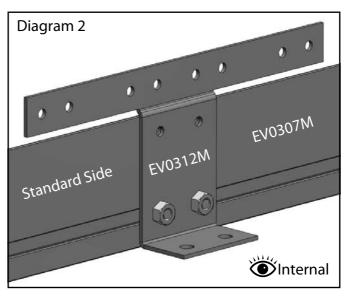
Base Assembly



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 cills are fixed to it.

Use the larger plates at an extension point (EV0312M), diagram 2. Don't fix any of the base brackets to the ground until the building is complete.





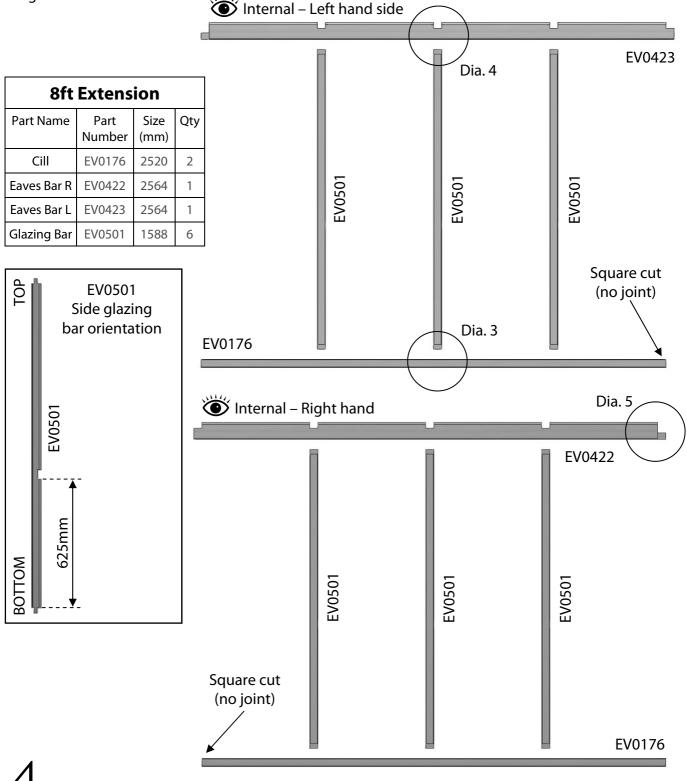
Qty

2

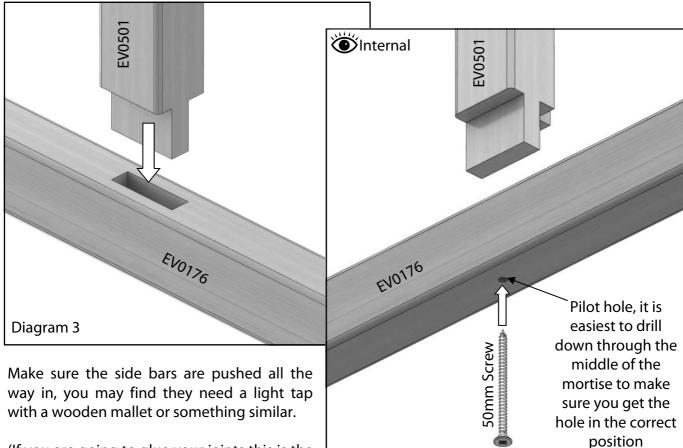
2

Side Assembly

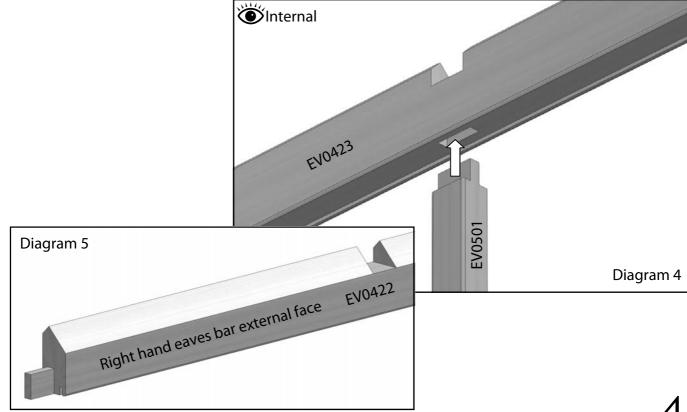
Begin by laying out the components for your 2 extension sides flat on the ground as the diagram below shows. Use the table below to help identify the components with the part numbers and sizes. First of all drill pilot holes through the bottom of each mortise on the cill section (diagram 4, page 9). 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.



Side Assembly

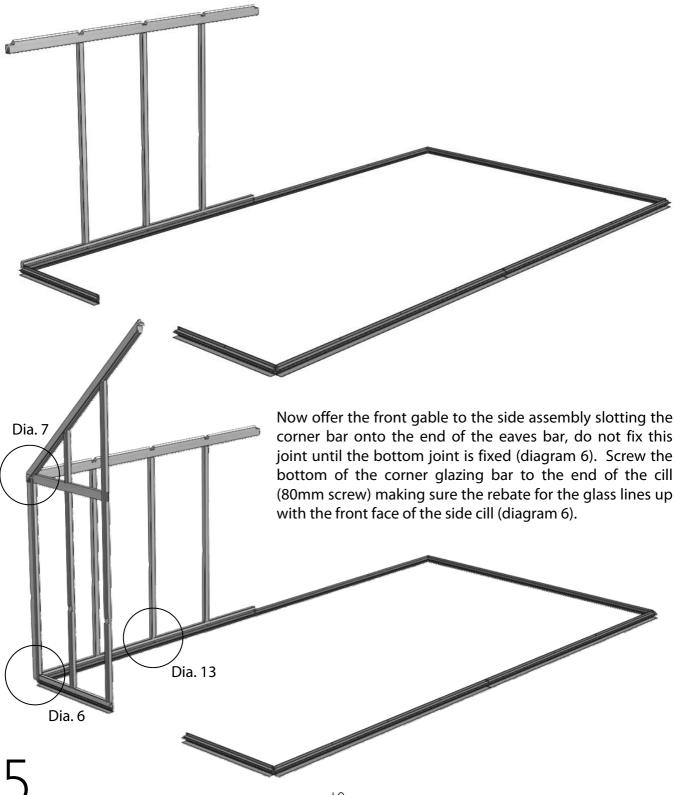


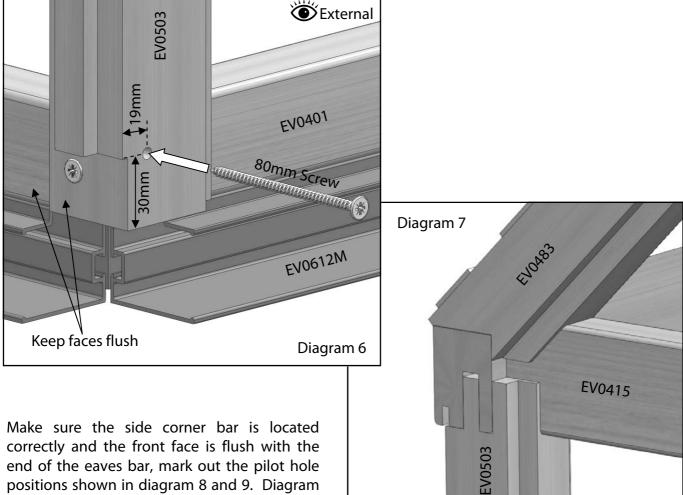
(If you are going to glue your joints this is the first point you would do this.)



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 6. The position of this hole should be about 19mm from the side face and 30mm measured from the bottom of the bar.

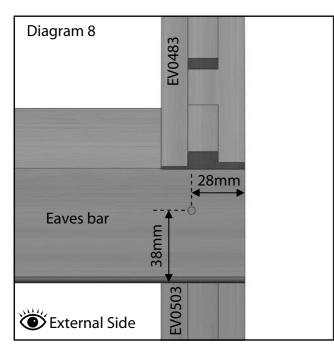
You can now position the side section on the aluminium base, you will need a helper to hold this in place or simply strap it to a set of steps.

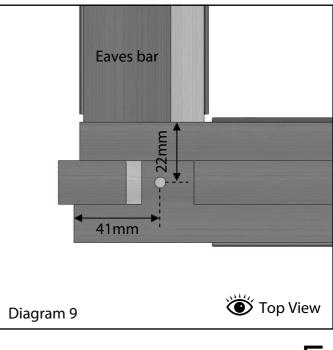




External Front

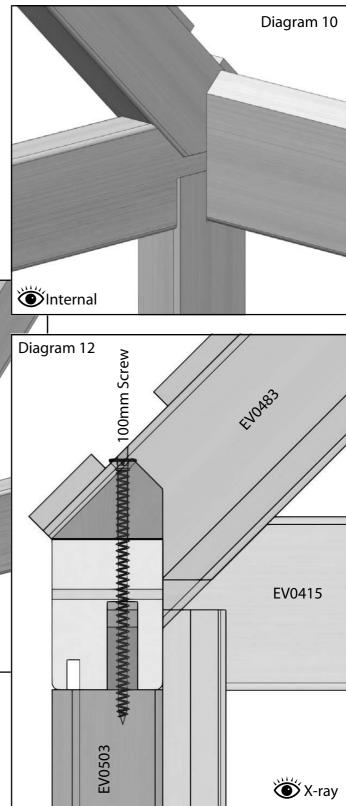
positions shown in diagram 8 and 9. Diagram 11 and 12 on the next page show the direction the holes should be drilled in.

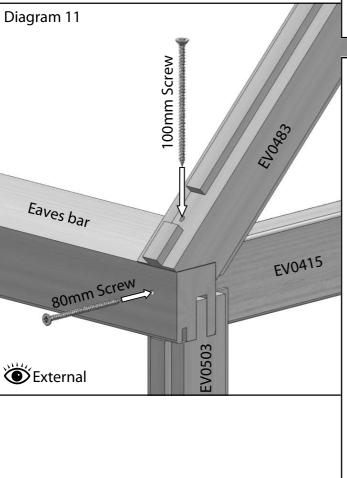


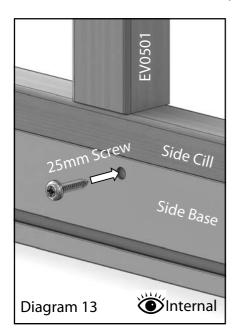


Before fixing this corner make sure the inside faces are all flush (diagram 10). When you are happy that the purling is located correctly (it is normal that the purling is set back slightly from the glass rebate on the front of the building) start by inserting the 80mm screw through the side of the eaves bar into the tenon on the end of the purling.

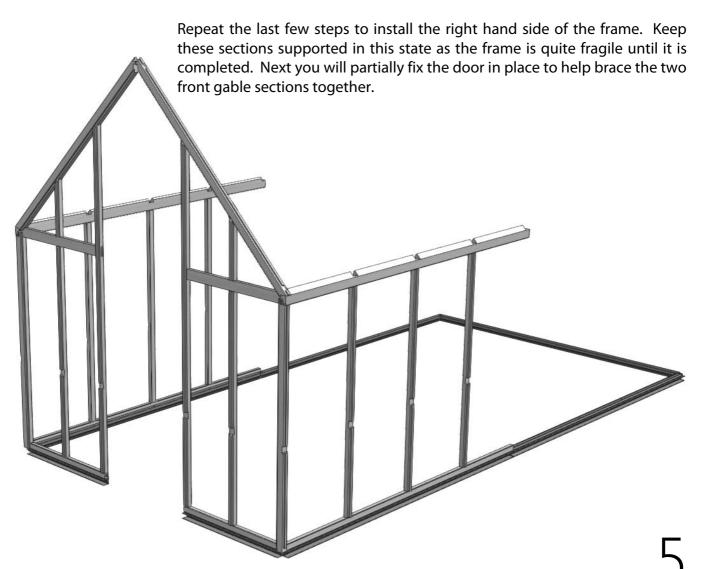
Next insert the 100mm screw vertically down through the roof corner bar into the eaves bar and finally securing the side corner bar (diagram 12).

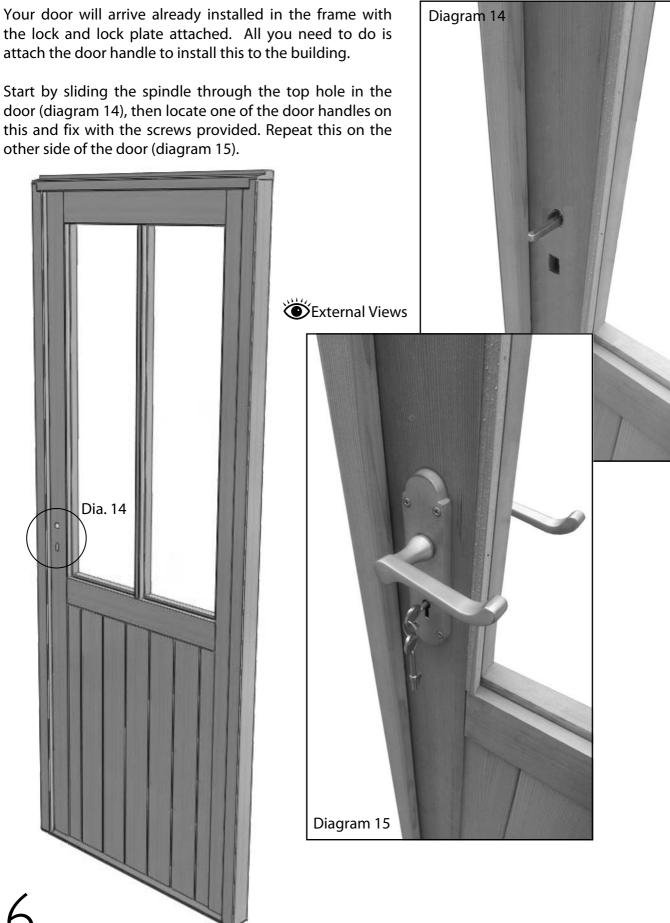






Once the side corner bar is in place this will give you the correct position on the aluminium base and you can fix the base to the side cill with 25mm screws (diagram 13).





Door Installation

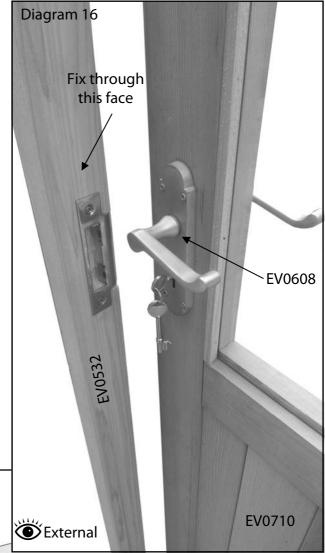
Take the door to the greenhouse frame assembly and slide it into place. Unlock and open the door so that it is 90 degrees to the frame as shown in the illustration on the opposite page.

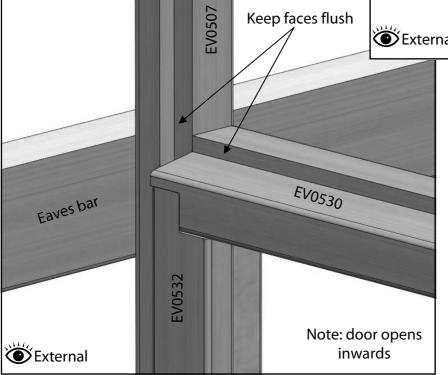
You will need to pack the outside edge of the open door, ideally with a wedge so you have some adjustment or simply with some scrap cardboard from the packaging. This will help you get the frame in the correct position for fixing.

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 17).

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.

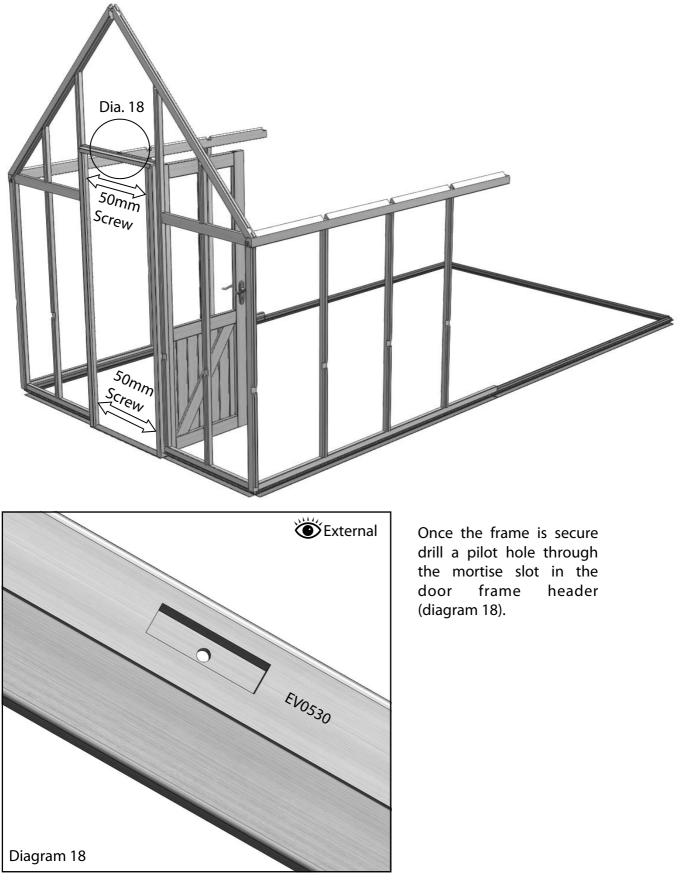
Diagram 17



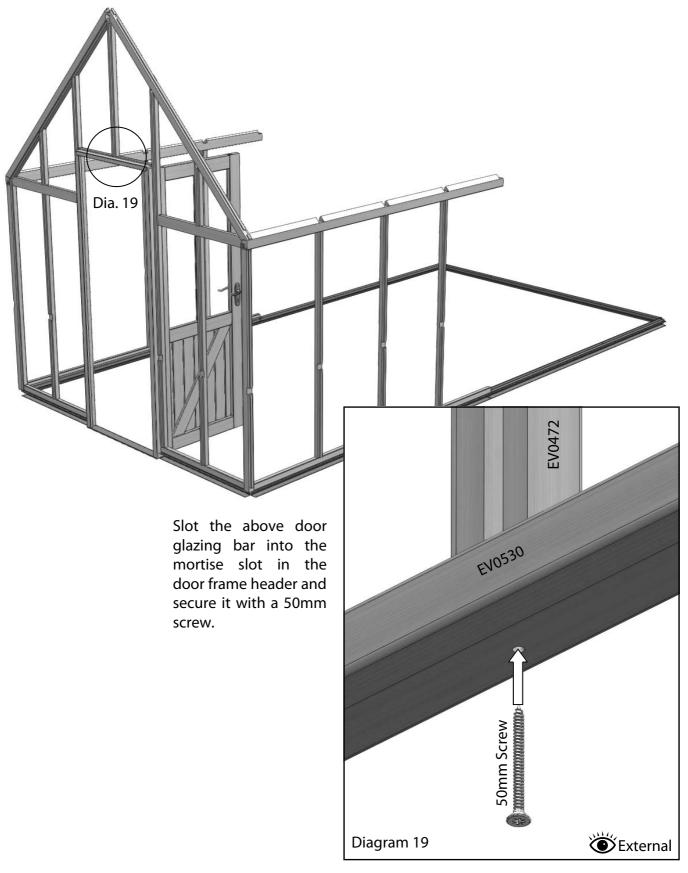


Door Parts				
Part Name	Part Number	Qty		
Door Lock	EV0606	1		
4" Hinges	EV0607	3		
Door Handle Set	EV0608	1		
Single Door	EV0710	1		

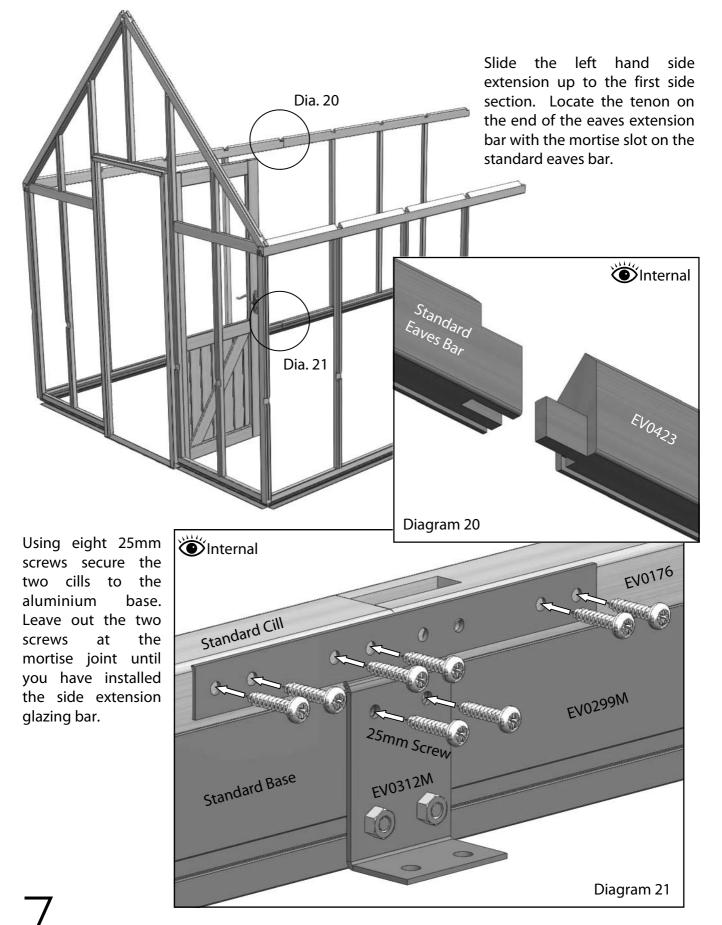
Door Installation



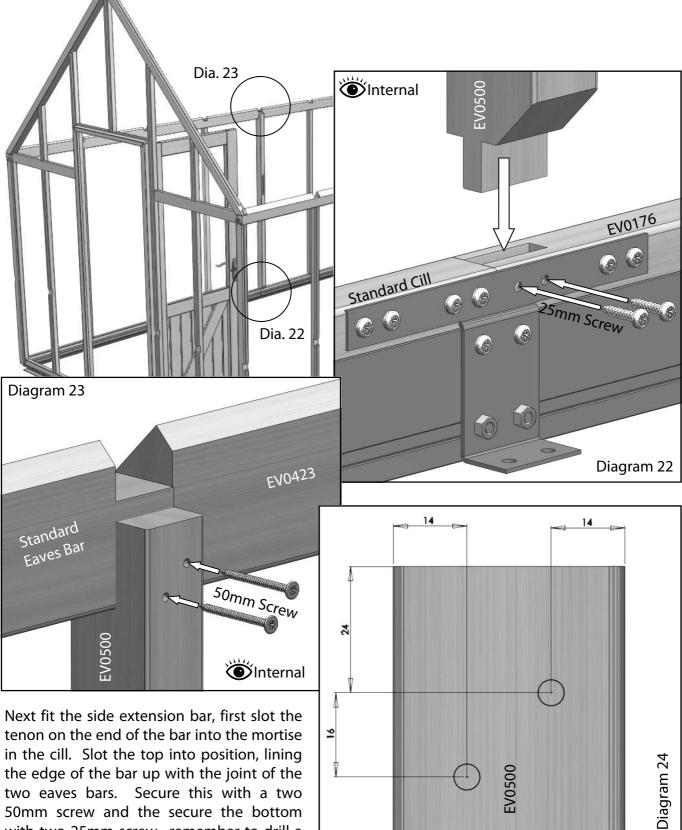
Door Installation



Extension Assembly



Extension Assembly

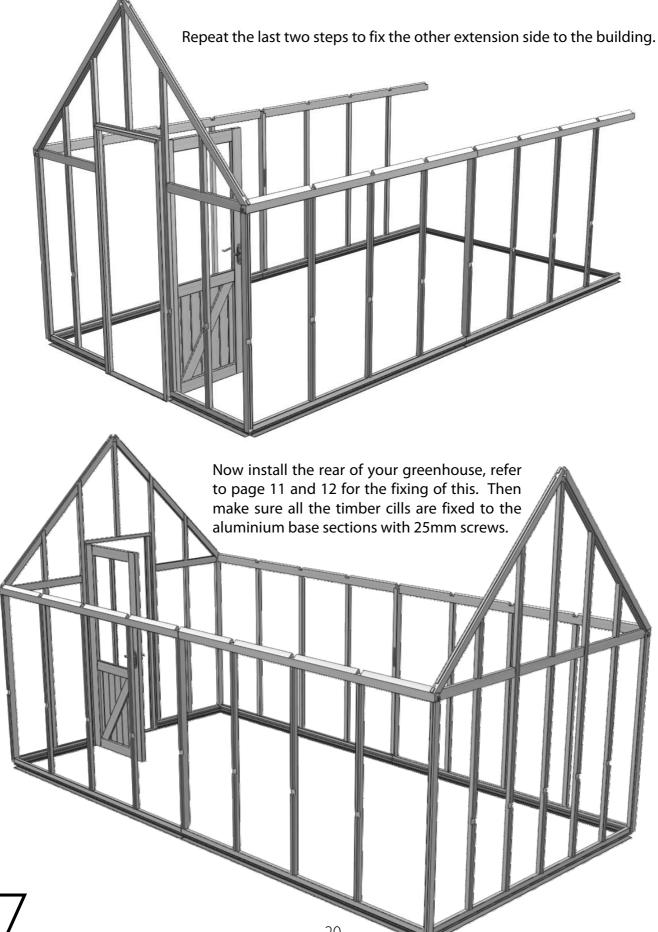


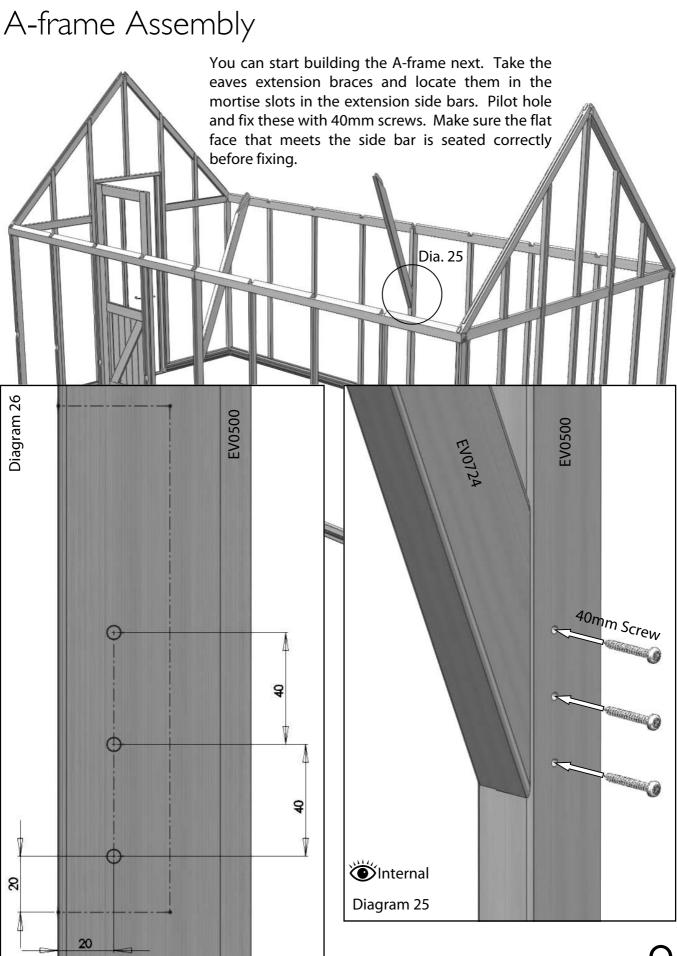
in the cill. Slot the top into position, lining the edge of the bar up with the joint of the two eaves bars. Secure this with a two 50mm screw and the secure the bottom with two 25mm screw., remember to drill a pilot hole first.

19

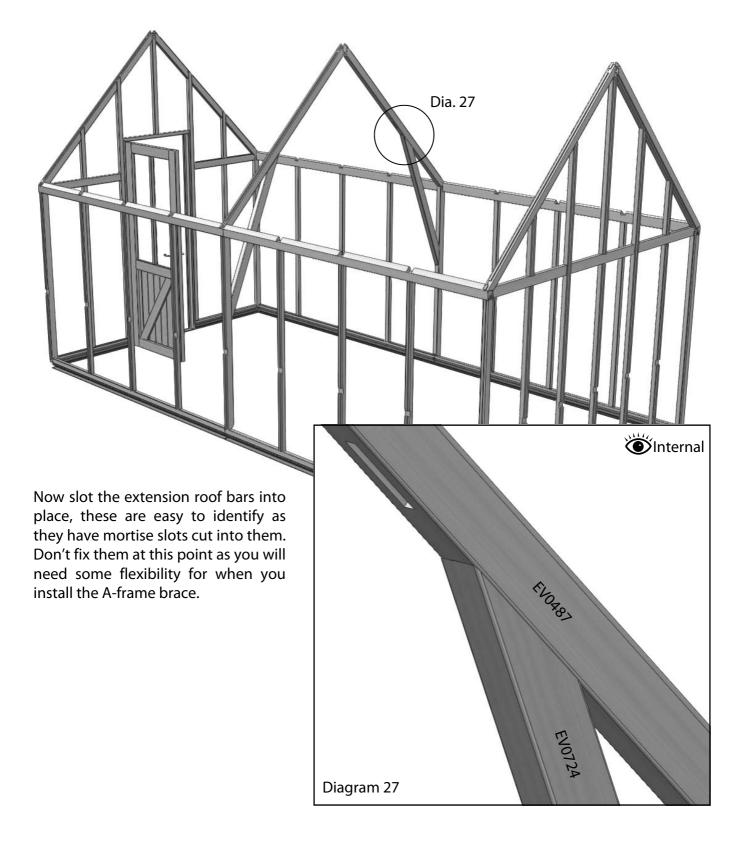
EV0500

Extension Assembly

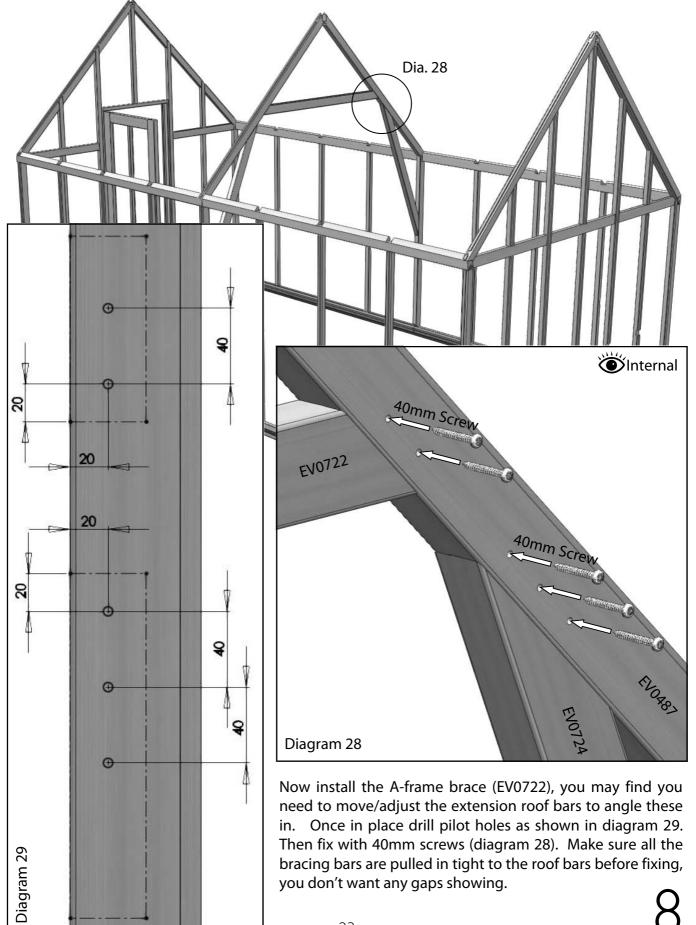




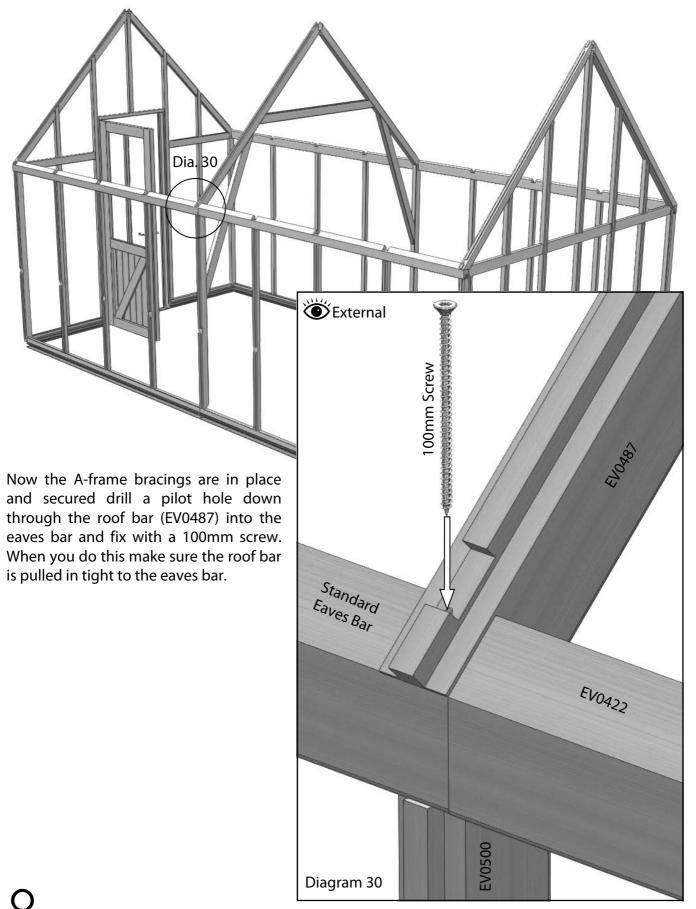
A-frame Assembly



A-frame Assembly



A-frame Assembly



24

You will need two sets of step ladders at this point and a helper. Slot the ridge bar onto the tenons of the roof corner bars at both ends of the ridge. The central glazing bar on the front gable should locate with the ridge bar below the joint with the roof bars (diagram 35). Once in place still with your helper securing one end drill the roof corner glazing bars as shown in diagram 32 to 35. The pilot holes should be drilled horizontally and off centre as shown so that the screw on the other side misses this screw. If you always drill the holes for the roof bars 18mm from the left hand side of the bar this will prevent any interference problems. Fix the roof bars with 80mm screws (diagram 35).

EVORES

External

Dia. 31

Roof Assembly

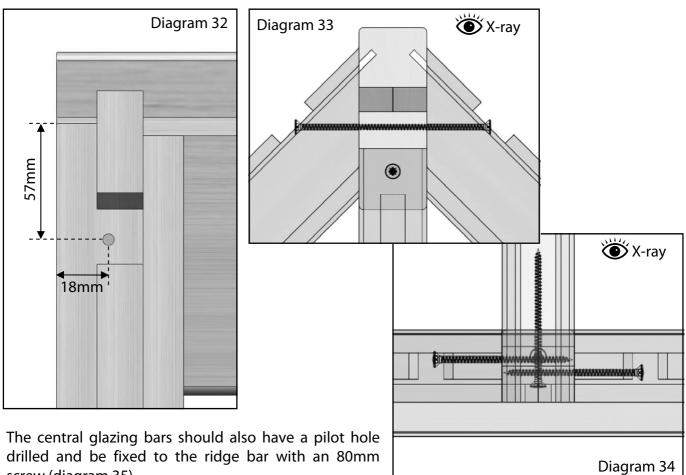
Dia. 32

Diagram 31

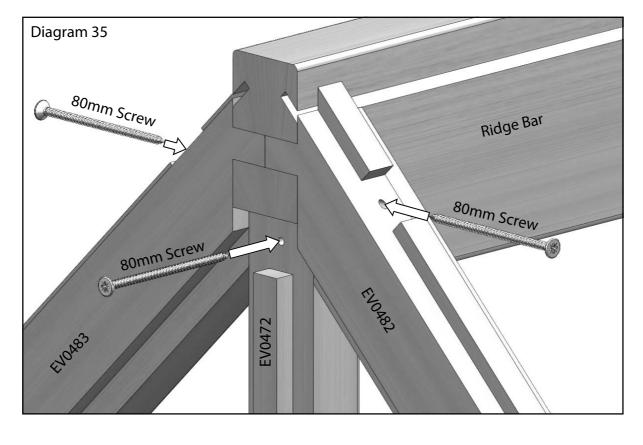
Standard Ridge Bar

£10402

Roof Assembly



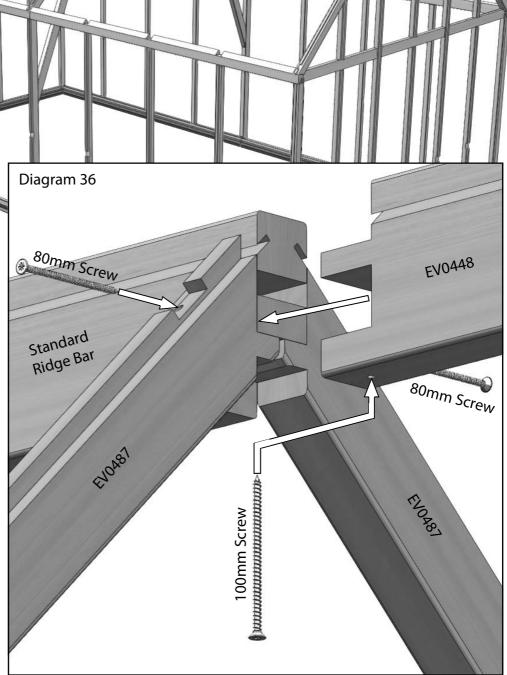
screw (diagram 35).



Roof Assembly

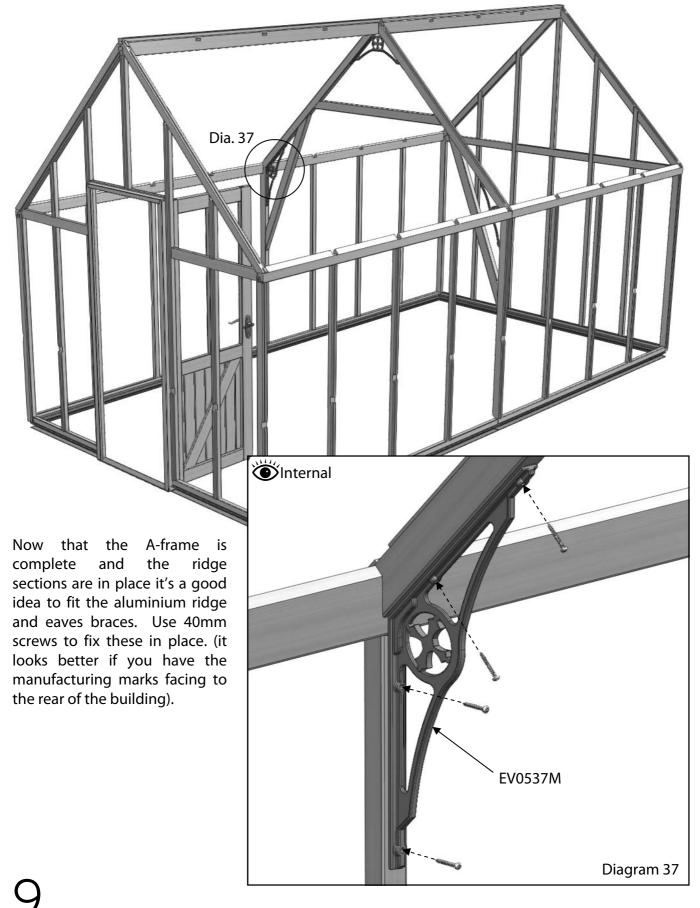
Again with a helper supporting the other end of the ridge, locate the extension end of the ridge to the end of the first ridge, then do the same at the other end with the rear gable.

Drill а pilot hole through the bottom tenon of the extension ridge and through the roof bars. Fix the roof bars first with 80mm screws, pulling them in tight to the ridge. Then fix the ridge joint with a 100mm screw, this will go all the way through to the top of the first ridge section making sure this can't be pulled out.



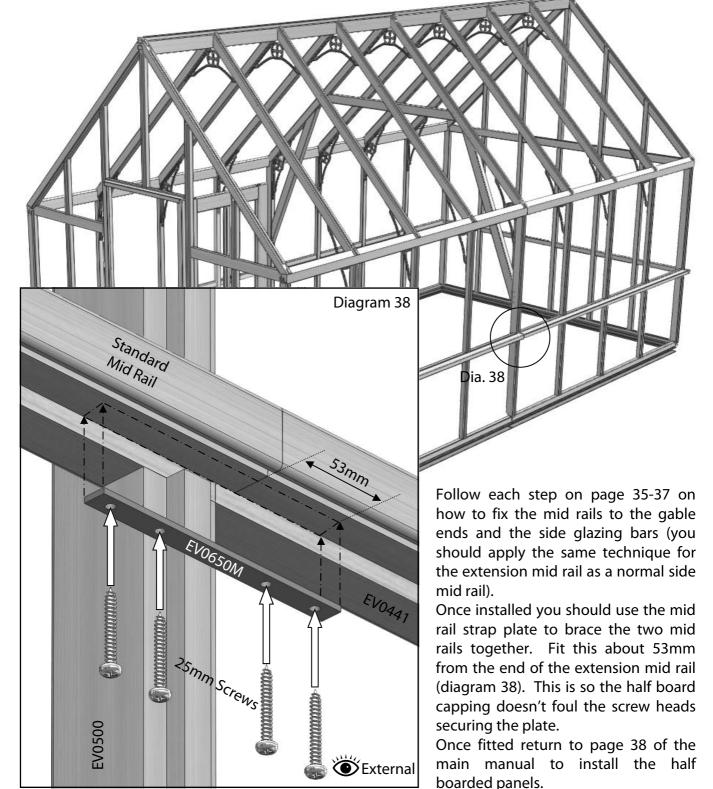
Dia. 36

Roof Assembly



Mid Rail Assembly

You can now return to page 31 of your main manual to finish off the roof assembly. However when you get to section 10 (page 34) Half Board Installation you will need to refer to the diagram below for the joint between the standard half board side mid rail and the extension half board mid rail.



Parts List

Part Code	Description	Quantity
EV0313M	Glass Stop EV0313 **MOSS**	16
EV0537M	ALU Bracing Eaves EV0537 675mm **MOSS**	8
EV0538M	ALU Bracing Ridge EV0538 751mm **MOSS**	4
EV0325	Evolution louvre kit incl glass ***MOSS*** EV0325	2
EVVICPACVENT	Victorian Vent bundle	2
BAXLAU	BAYLISS XL AUTO VENT	2
EVSMA03X	Evolutions smalls bag for extension No 3	1
EV0501	Glazing Bar Side EV0501 1588mm *HB*	6
EV0176	Cill Side Extension R EV0176 2520mm	2
EV0422	Eaves Bar 8ft long Extension R EV0422 2564mm	1
EV0423	Eaves Bar 8ft long Extension L EV0423 2564mm	1
EV0441	Mid Rail Side 8ft long Extension R EV0441 2520mm *HB*	1
EV0442	Mid Rail Side 8ft long Extension L EV0442 2520mm *HB*	1
EV0448	Vic Ridge Bar 8ft long Extension EV0448 2564mm	1
EV0500	Glazing Bar Side Extension EV0500 1648mm *HB*	2
EV0477	Glazing Bar Roof 8ft wide EV0477 1853mm	6
EV0487	Glazing Bar Roof 8ft wide Extension EV0487 1853mm	2
EV0722	A-frame brace 8ft wide EV0722 1410mm	1
EV0724	A-frame Eaves Brace EV0724 1393mm	2
EV0299M	ALU Rear/Ext Base 8ft wide EV0299 2519mm **MOSS**	2
EV0625M	ALU Vic Gutter 8ft long Extension EV0625 2520mm **MOSS**	2
EV0631M	ALU Vic Ridge Cap 8ft long Extension EV0631M 2520mm **MOSS**	1
EV0741	Gutter Extension Joint EV0741 45mm	2
EV0650M	HB Mid Rail Strap Plate	2
ROSEPS	Glass separators 4mm black	2

Notes...