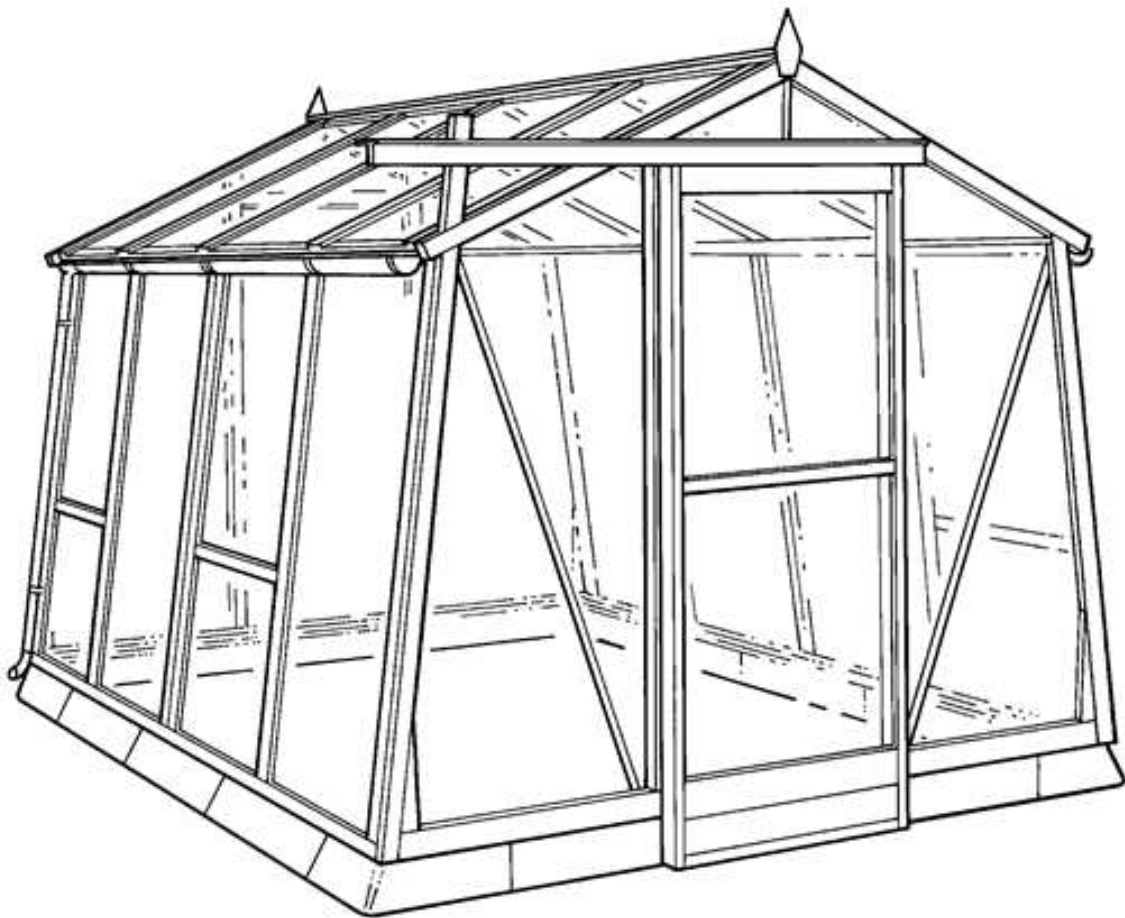




8' Wide AMATEUR CEDAR GREENHOUSE



ASSEMBLY INSTRUCTIONS

Our Help Line provides support and advice to customers of Summer Greenhouses after ordering. For advice before you buy phone us free 7 days a week on 0800 9777 828 or visit www.SummerGreenhouses.com

PLEASE READ ALL INSTRUCTIONS BEFORE PROCEEDING

03/04

8' WIDE AMATEUR CEDAR GREENHOUSE

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YOUR NEW CEDAR GREENHOUSE

Introduction

Thank you for buying an Alton Cedar Greenhouse. Please read carefully through these instructions before beginning to put your greenhouse up.

Optional Extras

It is extremely important that you assemble your optional extras in the correct position. Throughout these instruction references will be made to each optional extra. Please refer to the appropriate page or leaflet for full details.

Safety advice

It is advisable that the greenhouse should be assembled by two people. Particular care should be taken when handling glass and the wearing of gloves is strongly recommended. Favourable weather conditions should be chosen. Do not try to erect the building in windy conditions - the panels are difficult to handle in high winds.

All side frames should be suitably propped until the roof frames are secured.

Keep children and pets away until the work is finished.

Take your time - rushing causes accidents.

Fitting service

Please call your local dealer if you would like to have a quote for the erection of your greenhouse by an installer.

Tools required to erect the greenhouse

Drill & bits (for pilot holes), screwdrivers (for slot and posi-drive), spanners 10mm & 17mm, small hammer, pliers, spirit level, step ladder, tape measure, bradawl, mastic gun, saw & props.

Planning and preparation

All of the illustrations relate to a 10'6"/3.20m long Amateur Greenhouse. For other models you will have a greater or smaller number of Side and Roof Sections for your chosen model.

Before you commence assembly of the frame it is advisable to pre-determine the layout of individual sections to ensure the roof vents are in the position you require. Double roof sections must be positioned above double side sections, and single roof sections above single side sections.

If you do not want to cut one of the roof cover strips please avoid positioning a roof vent at either end of the greenhouse.

A bradawl or drill should be used to pilot all screw holes, especially on the shelving and staging, to help prevent the timber from splitting. Sometimes the pre-drilled holes in the frames can be blocked - simply insert a screwdriver to clear them.

Unpacking the greenhouse

Before removing all the packaging please note the individual named pieces of greenhouse. This is not only a convenient way to check you have all the correct sections, but also to help you when determining the layout and assembly of your greenhouse. You will also notice all fixtures, nails, screws, bolts etc., come pre-packed and labelled for your convenience. Keep these in their bags which will make identification easier.

If using a knife be careful not to cut into the cedar wood.

Future Reference

Please keep these assembly instruction safe as you may need them for reference in the future.



OPTIONAL ACCESSORIES

Get even more out of greenhouse

Alton have a range of accessories which will add extra benefits to your new Amateur greenhouse.

Many of the accessories can be brought when ordering your greenhouse - but may also be added at a later date.

If it is a possibility that any of the accessories will be added at a later date, due care and attention should be given at this stage to where the greenhouse is situated. eg space for extension to either end!

Louvre Vents

Extra side ventilation at staging height. Use in conjunction with roof and vent access promotes healthy air circulation. Can be used manually or with automatic openers. To fix at a later date accessibility to both sides of the greenhouse is essential.

Extension Modules & Partitions

Simply extend your greenhouse - either or both ends - using a pre-treated extension module(s). You remove an end gable, bolt in the new extension, then replace the end panel. You may also consider a partition with your extension, giving an extra 'room' for your greenhouse. When siting the original greenhouse, consider the space available for an extension at a later date.

Further Information

If you require further information on any of these accessories please contact Summer Greenhouses.

Cladding

Alton Cladding is an 'instant fit' cedar wood cladding which simply clips over the outside of the greenhouse. Cladding to staging height gives maximum heat retention in winter and extra shade in the summer.



Accessibility all around the greenhouse is essential, to be able to fit and remove the cladding. Cladding can be bought and fitted to any side or end you wish.

Rainwater Adaptor Kit

An easy to fit adaptor kit to connect both sides of the guttering and to take the rainwater to one single point. Ideal for collecting rainwater - and within easy reach to water the greenhouse plants!

Automatic Vent Openers

Just set and forget. These units automatically open and close in response to climatic conditions. Can be used on roof or side louvre vents to give optimum ventilation.

You can phone us free on 0800 9777 828 seven days a week or visit www.SummerGreenhouses.com



SITING YOUR GREENHOUSE

Siting your greenhouse

You may have already considered the position of your new greenhouse and be aware of the general guidance given. But it may be advisable to consider the following advice.

A flat level site is essential and further information on the preparation of the ground is given opposite.

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.

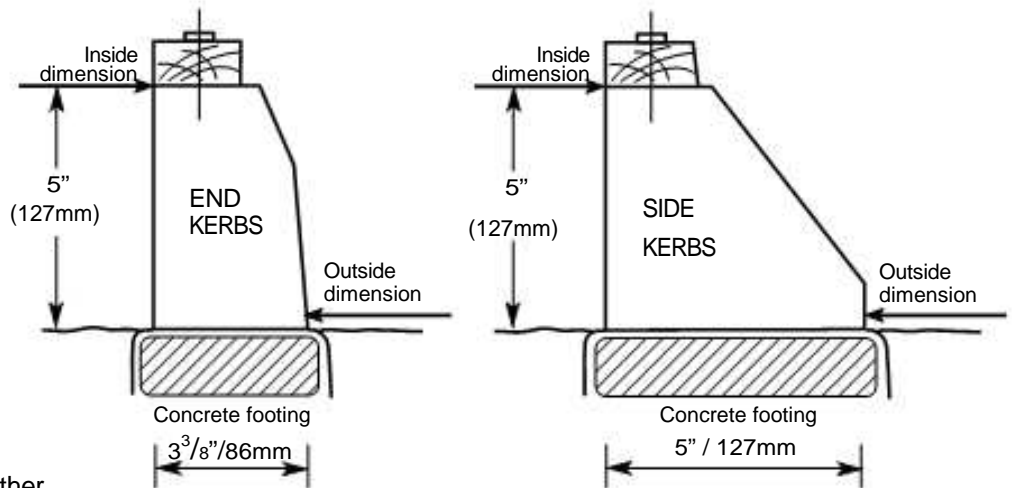
Locate the greenhouse where there is maximum amount of sunlight and avoid if possible any shade from trees, fences or other buildings. Over-hanging branches can be a particular nuisance and should be avoided.

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 to your garden.

Site Preparation

It is essential that the concrete base kerbs are laid on firm level ground that is unlikely to let the greenhouse sink into it after a number of years. If the site for the greenhouse is not firm, level or well drained, it is advisable to lay concrete footings as illustrated, or lay a perimeter row of paving slabs. The depth of footings will depend on the nature of the ground on your site. For practical purposes a spade's width and depth may be preferred.





CONCRETE BASE KERBS

Base kerb dimensions

Alton Amateur from Summer Greenhouses

Model	INTERNAL DIMENSIONS			EXTERNAL DIMENSIONS		
	Width	Length	Diagonal	Width	Length	Diagonal
8'0" x 5'6"	7'5" (2261mm)	4'9" (1448mm)	8' 9 ³ / ₄ " (2685mm)	8'3" (2515mm)	5'3 ³ / ₄ " (1619mm)	9'9 ³ / ₄ " (2991mm)
8'0" x 8'0"	7'5" (2261mm)	7'3 ⁵ / ₈ " (2226mm)	10'4 ⁷ / ₈ " (3173mm)	8'3" (2515mm)	7'10 ³ / ₈ " (2397mm)	11'4 ³ / ₄ " (3474mm)
8'0" x 10'6"	7'5" (2261mm)	9'9 ¹ / ₂ " (2984mm)	12'3 ³ / ₈ " (3744mm)	8'3" (2515mm)	10'4 ¹ / ₄ " (3156mm)	13'2 ⁷ / ₈ " (4036mm)
8'0" x 13'0"	7'5" (2261mm)	12'4 ¹ / ₈ " (3762mm)	14'4 ³ / ₄ " (4389mm)	8'3" (2515mm)	12'10 ⁷ / ₈ " (3934mm)	15'3 ⁷ / ₈ " (4669mm)
8'0" x 15'7"	7'5" (2261mm)	14'10" (4521mm)	16'7" (5055mm)	8'3" (2515mm)	15'4 ³ / ₄ " (4693mm)	17'5 ⁵ / ₈ " (5324mm)
8'0" x 18'0"	7'5" (2261mm)	17'4 ⁵ / ₈ " (5299mm)	18'10 ⁷ / ₈ " (5761mm)	8'3" (2515mm)	17'11 ³ / ₈ " (5471mm)	19'9" (6021mm)
8'0" x 20'7"	7'5" (2261mm)	19'10 ¹ / ₂ " (6058mm)	21'2 ¹ / ₂ " (6466mm)	8'3" (2515mm)	20'5 ¹ / ₄ " (6229mm)	22'0 ¹ / ₂ " (6718mm)

Setting out the Concrete Kerbs

The kerbs should be laid out according to the internal dimensions for your particular model. The dimensions are given above. Check the diagonal measurements both ways to ensure squareness.

As a result of the manufacturing process the kerbs can in some cases be uneven on the underside and may need to be bedded on a dry sand/cement mix to correct any inaccuracy.

Each kerb has a number stamped on it to help you identify it and relates to the plan below. The plan shows the position of each kerb.

The ends are the same for all models but the quantity of kerbs (Ref 756) for the sides varies with the particular length of model. The example layout below is for a 8' x 10'6"/2.43m x 3.20m model.

The corner kerbs should be positioned with the sloping side at the side of the the greenhouse and the vertical side to the front or back.

Please note that gaps between the concrete kerbs are normal and these should be grouted after erection of the greenhouse has been completed.

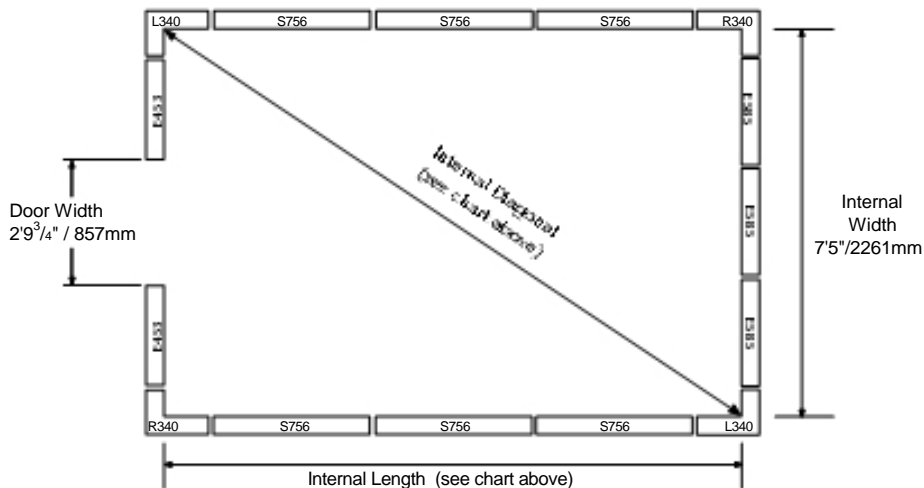


Diagram based on the 8'x10' model

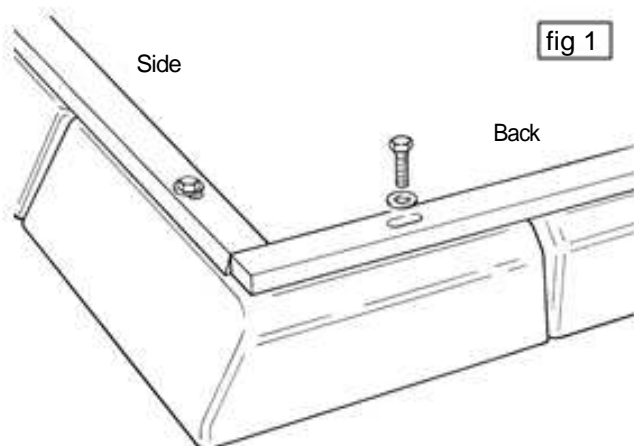
Fixing of cills to concrete kerbs

Layout the wooden cills in position making sure the side cills bevelled edge faces **outwards** from the building.

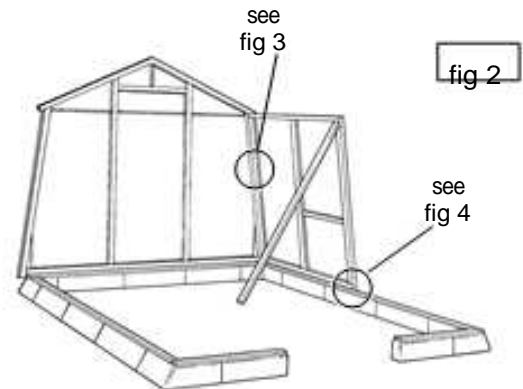
There is no bevel on the gable end cills. They should be positioned with the slots closest to the outside.

Loosely fix the cills with the M10 x 50 coach screws (50mm long) and washers. Use the slots for any adjustment. See fig 1. Ensure that the side cills are butted up to and are square to the end cills. It is worth checking again the diagonal measurements.

When all in position and square, tighten the bolts down with a 17mm spanner.



Fixing end Gable and the first side panel

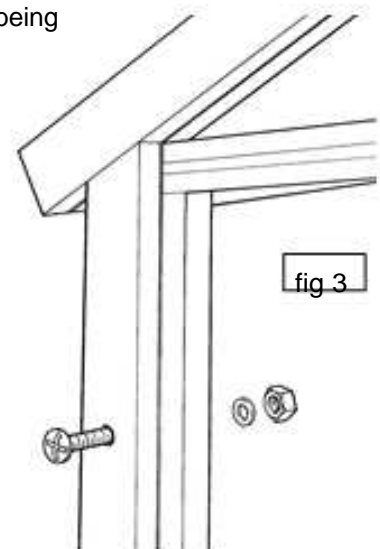


The bolts for fixing the frames are different lengths and are for specific locations. Washers should always be fitted before the nut is put on. Please note that, when a low level vent is fitted adjacent to the gable end, that the bolts have to be reversed and plastic caps are provided to cover the exposed nuts on the outside of the gable end.

Prior to commencing the assembly of the sides gather together all the necessary bolts, washers, nuts, brackets & screws that you see identified. The quantity will vary depending on the length of the model.

It's best to start with the plain gable end and side panel as shown in fig 2. Offer the end and side section to the cill being

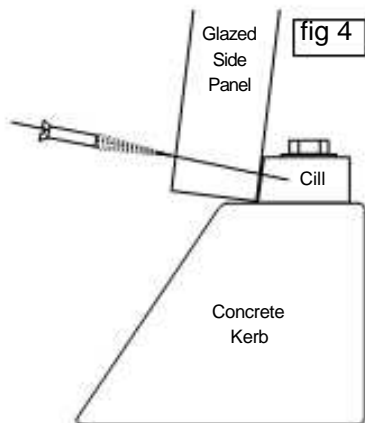
sure to rest both sections on the top edge of the concrete and against the outside edge of the cill. See fig 4 on page 8.



Fixing plain gable end and side panels

Alton Amateur from Summer Greenhouses

Fix the sections together with 3 off $3\frac{3}{8}$ " (85mm) bolts, washers and nuts as shown in fig 5. It's a good idea to prop the side section safely. See fig 2.



Secure each section to the cill with a 2" (50mm) screw through each pre-drilled hole at the bottom of the section. See fig 4 and fig 8 on page 9.

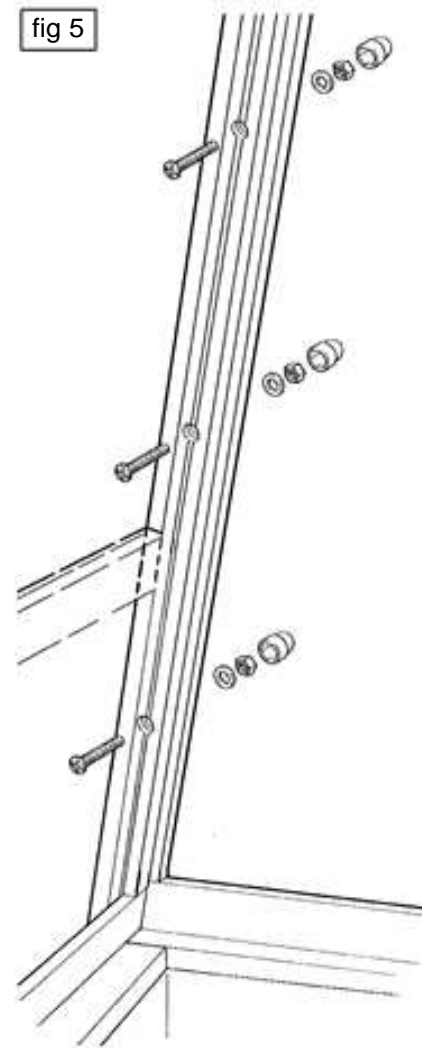
Next fix a side section to the other side of the gable.

If in fixing a side section to the gable end the side vent is adjacent to the gable, the bolts must be reversed so it's head is inside the channel of the lift up vent.

See fig 5. Use 3 off $2\frac{3}{4}$ "/70mm bolts, washers and nuts plus 3 plastic nut covers.

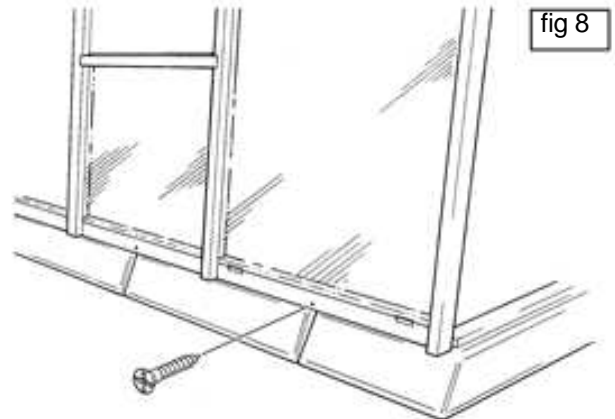
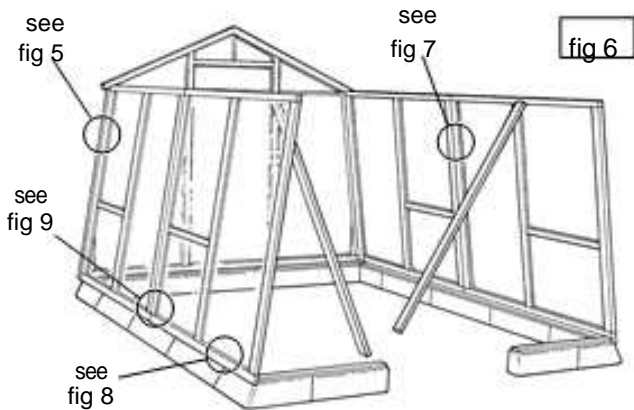
The lift up vents will require the transit blocks to be removed to give access to all the fixing holes. Check the glass slides up and down without hitting the bolt heads.

Note: It is correct that the end of the side section does not line up flush with the gable end.



Fixing the remaining side panels

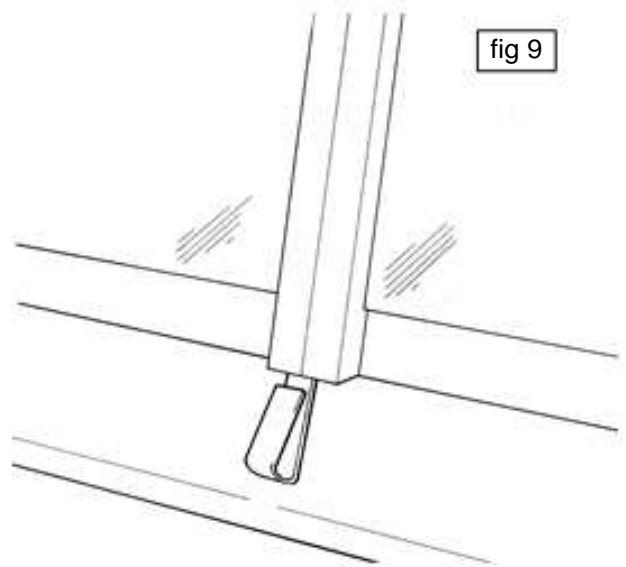
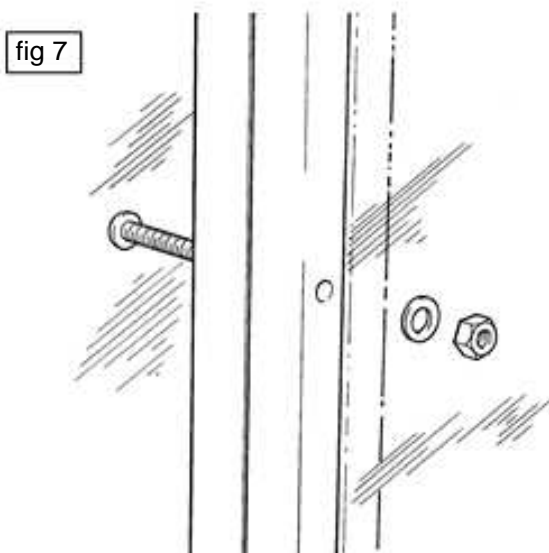
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Repeat the same procedures for fitting the remaining side sections in place. Where side sections meet each other use the shorter $2\frac{3}{8}$ " / 60mm bolts and fix with a washer and nut, as shown in fig 7. Remember to ensure the bolt head is inside the channel of the lift up vent.

Fix the plastic tongue in the slot between the side panels. This may be done from either the top or bottom. See fig 9. Bend the plastic tongue over on itself when you push the end into the slot. This will prevent it from sliding back out. You may find it easier to accomplish this by gripping the folded end with a pair of pliers.

Continue to prop the sides as you progress.



Remember to fix the panels to the cills as before with a 2" / 50mm countersunk screw through each pre-drilled hole, as shown in fig 8.

Note: OPTION

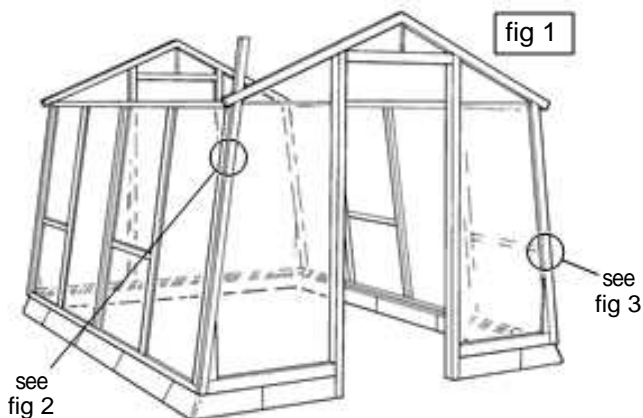
If required, it is at this point that the partition needs to be positioned. Please refer to page 12 for full instructions.



FIXING DOOR END GABLE

Fixing Door End Gable

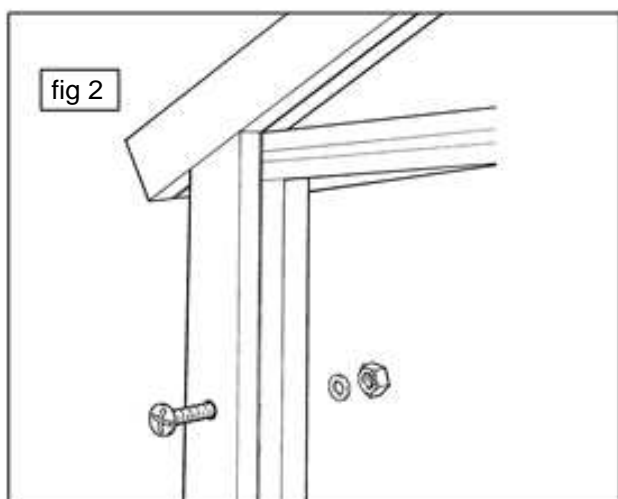
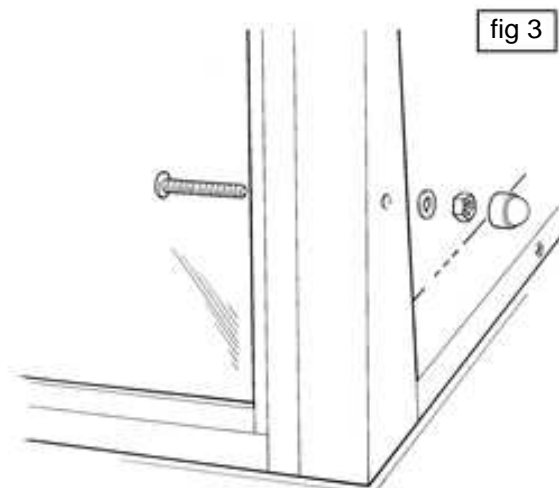
Alton Amateur from Summer Greenhouses



Fix door gable end to the cills with 2" / 50mm countersunk screws through each pre-drilled hole.

If the side vent is next to the door gable the bolts must be reversed as shown in fig 3. Use 3 off 2³/₄" / 70mm bolts, washers and nuts plus the plastic covers.

Having fixed all the side sections offer the door gable end section to the assembly, having first removed the transit strap at bottom of door way. Fasten door gable end with 6 off 3³/₈" / 85 mm bolts, washers and nuts through the pre-drilled holes. See fig 2.



Partition assembly

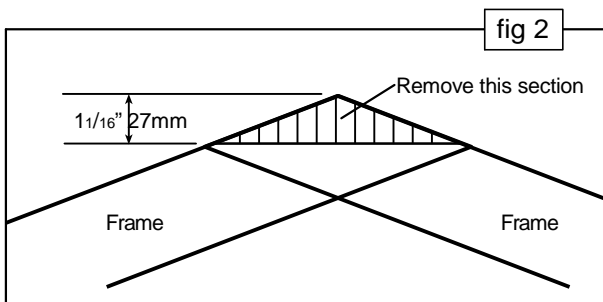
It is important that the partition assembly is completed at this stage - before the remaining end panels and roof panels are fixed.

Gather all parts required for the partition assembly.

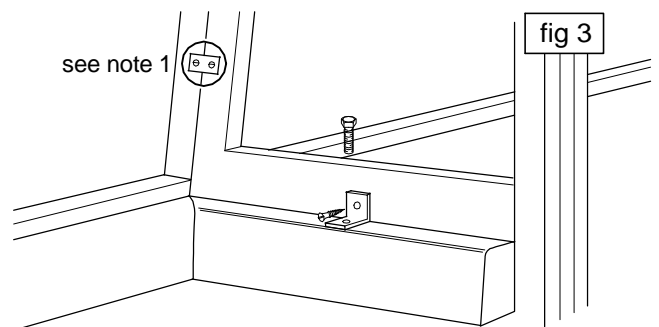
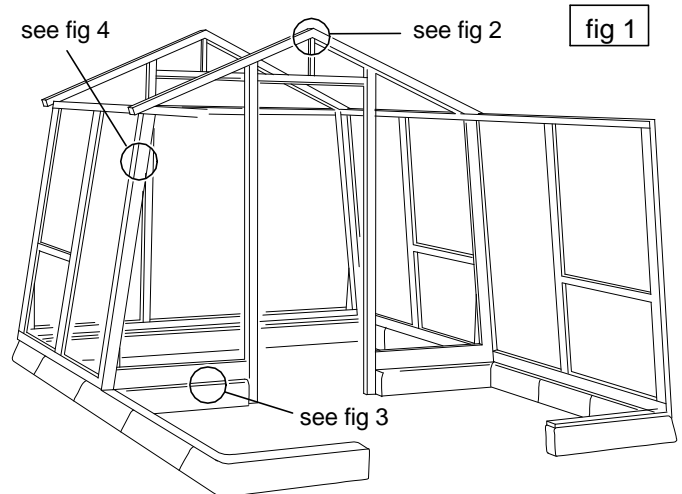
If you have not already done so, position the partition concrete kerbs (same shape as end kerbs. 2 x E689) so that they are on a joint between two side frames. This should be (dependent on position of partition) 4'10³/₄"/1493mm from the inside of the end kerb to the centre of the partition footings. Giving an approximately 5'/1.25 deep.

Remove and discard the coach screw from the main building cill adjacent to the partition kerbs, this will allow the partition to fit properly

It is necessary to cut away the top point of the partition frame to allow it to fit under the ridge bar. Mark cut line as indicated in fig 2 and saw off.

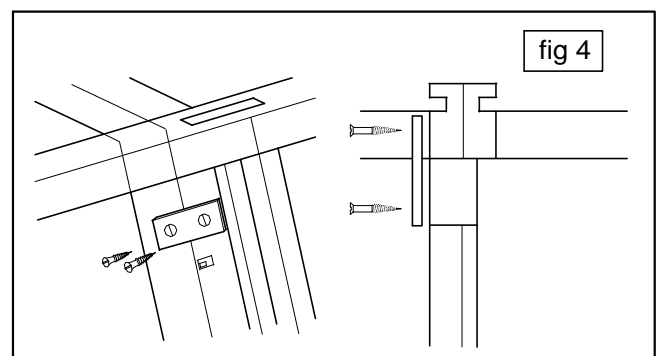


Offer up the partition section and check for fit and square, secure to base kerbs with angle brackets, using bolts and 3/4"/19mm screws. See fig 3



Secure the partition to the side panels with two plates per side and 1 1/2"/25mm countersunk screws. Repeat the instructions on the roof sections. See fig 4.

NOTE 1: If the partition is next to a ventaccess



Partition assembly

Alton Amateur from Summer Greenhouses

DO NOT fix a plate any lower than 333mm from the eaves as this will impair the ventaccess operation.

NOTE 2: Be sure that the bracket which secures the partition to the roof sections will NOT interfere with the high level shelving fixtures. (See page 28). We suggest that the bracket is fixed approximately 10" / 254mm from the side panel.

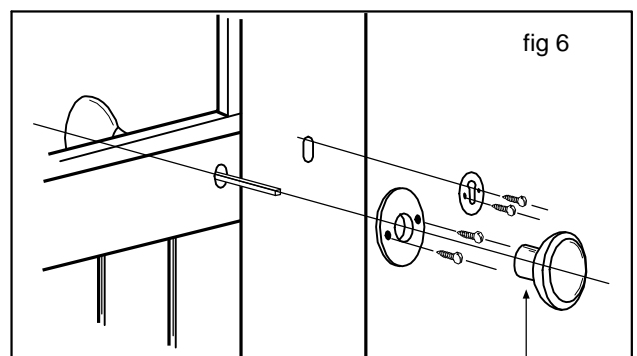
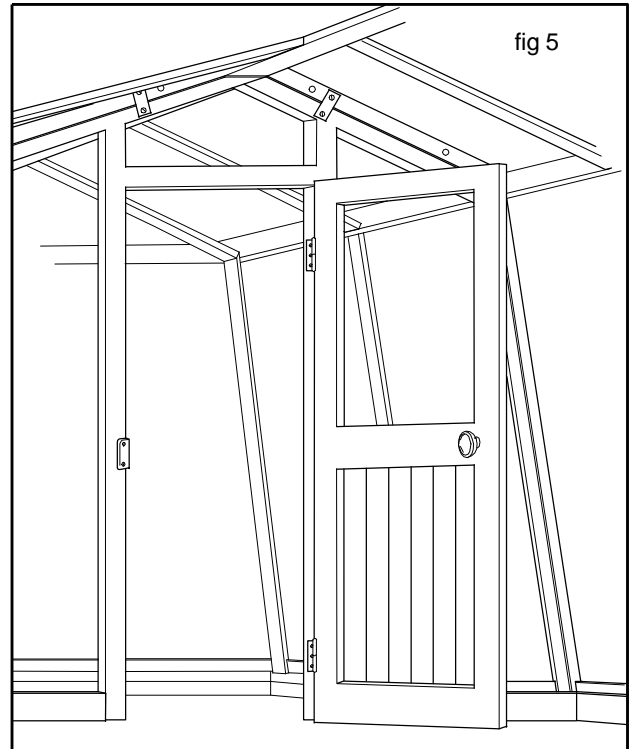
NOTE 3: Remove eave bracket. When partition is in final position refix the bracket

Fix the door by holding the door in position - so that the door fits comfortably at the top and sides - and mark screw holes.

Fix one 1¹/₄" / 32mm csk screw in each hinge and test fit. Adjust if necessary. Once door is to your satisfaction secure with all screws.

Nail the angled cut door surround to top of door frame. The side surrounds are already fitted.

Position and mark door lock and handle. Drill suitable sized hole for the door spindle. Place and fix using 6 black round headed screws. See fig 6



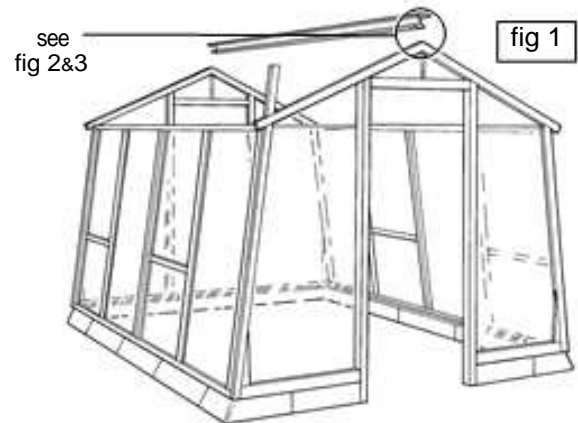
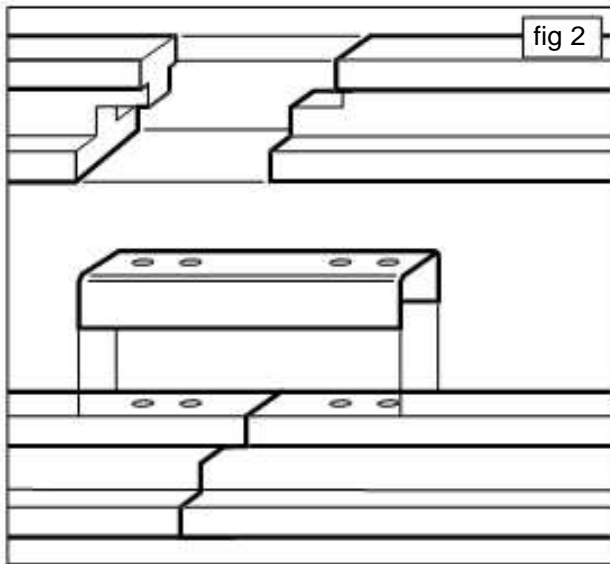


RIDGE BAR

Preparation and Fixing of Ridge Bar

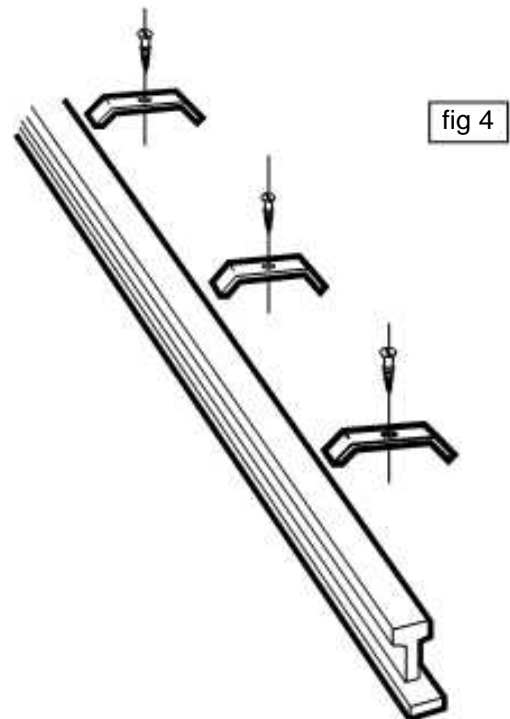
Alton Amateur from Summer Greenhouses

On models over 13'3.96m the ridge may be supplied in sections. Lay them upside down on level ground and join them by overlapping the cut ends and securing them with the metal channel which is fixed with 4 off 1 1/4"/32mm countersunk screws. See fig 2.



On all models mark the positions of the "U" shaped ridge brackets on the underside of the ridge bar. Position the brackets, with even spaces between them, so they coincide with the centre of each glazed roof section, half way between glazing bars.

Drill pilot holes **and fix the brackets loosely** with 1 1/4"/32mm screws. The number of brackets varies with the length of greenhouse. See fig 4. Once the ridge bar and roof panels are in the final positions - then you will be required to tighten the ridge brackets. See page15.



Preparation and Fixing of Ridge Bar

Apply the sealing mastic to the ridge, either when its fixed in position or now while it's still on the ground. A Mastic Gun is required and the nozzle should be cut to provide a $\frac{5}{8}$ "/15mm bead which is applied to the inside top edge of the ridge bar. See fig 5.

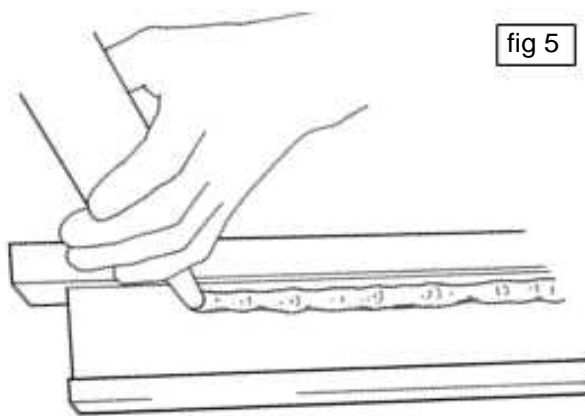


fig 5

With assistance, offer the ridge bar to the assembly and fix with a $2\frac{1}{2}$ "/64mm counter-sunk screw at each end. See fig 6.

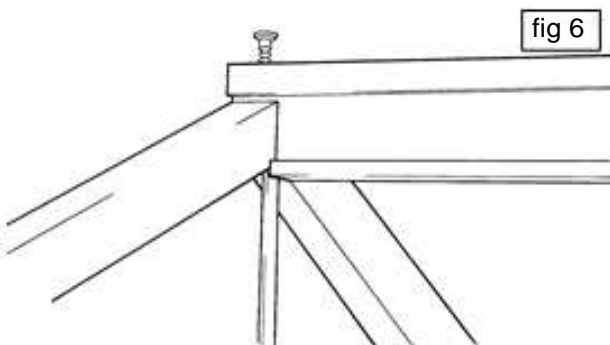


fig 6

On any ridge board longer than 8'0" it is essential to prop it at the centre for the duration of the assembly.

It is beneficial on the longer buildings to prop the ridge to the extent that it has a small upward curve in it.

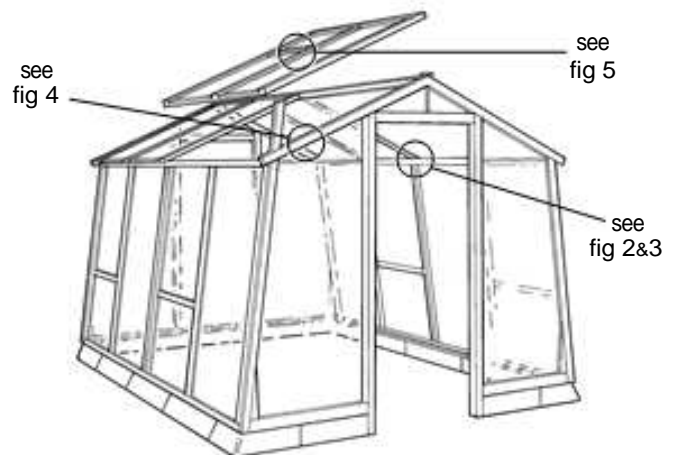
Fixing Roof Panels

Prior to commencing the assembly of the roof gather together all the necessary bolts, washers, nuts, brackets and screws that you require for this part of the assembly.

- 1"/25mm Round head screws
- $3\frac{3}{8}$ "/85mm Bolts, washers and nuts
- $1\frac{1}{4}$ "/32mm Countersunk screws
- 2"/50mm Countersunk screws
- $2\frac{3}{4}$ "/70mm Bolts, washers and nuts
- Galvanised Roof vent nails
- Plastic tongue-Eaves brackets

The quantity will vary dependent on the length of the model.

Double roof sections must be positioned above double side sections, and single roof sections above single side sections.



see fig 4

see fig 5

see fig 2&3

First fix the eaves brackets to the roof sections. They are required on each roof section except where adjacent to the gable ends. See figs 2/3.

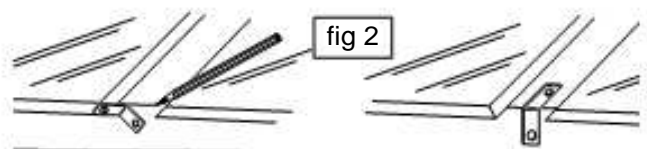
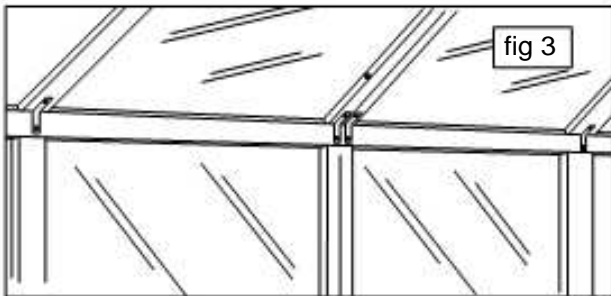


fig 2

Fixing Roof Panels

Alton Amateur from Summer Greenhouses

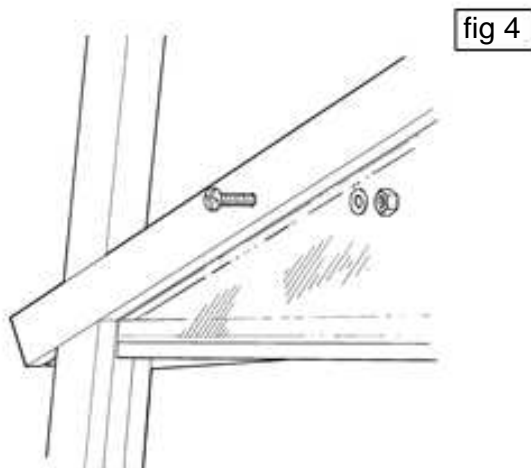


Refer to fig 2 (on page 14) and position the bracket so it's lined up with the inside edge of the eaves rail of the roof section and mark along the upper edge of the bracket. Position the bracket in the centre of the style and line up the bend with the mark.

Secure each bracket to the roof section with a 1"/25mm round head screw.

Offer up the first roof panel. Align with holes in the gable end by inserting a screwdriver through the holes. Fix the gable end to the roof panel by inserting 3³/₈"/85mm bolts from the outside through each hole. Fit washer and nut on the inside. See fig 4.

Fix the other end of the eaves bracket with a 1"/25mm round head screw into the top of the side panel. See fig 3.

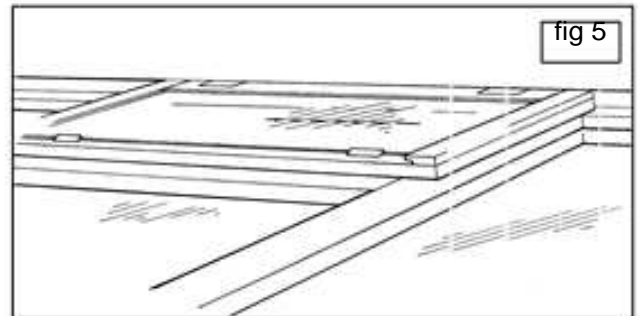


Now repeat the above with the roof panel on the opposite side of the greenhouse.

When they are both in place with all bolts and screws fitted you can tighten the screws holding the ridge bracket to the ridge. **Before fully tightening ensure the roof panels are pushed tight up against the ridge.**

If either of these roof sections contain an opening for a roof vent it must now be fitted.

Position the roof vent centrally and secure with 3 off 2"/50mm countersunk screws through the pre-drilled holes. See Fig 5.



Now fit the roof vent cap above the vent.

Fit the vent cap with the drip rail side above the vent and the other side flush to the edge of the ridge. See figs 6 and 9 for reference and secure with nails from the roof vent kit.

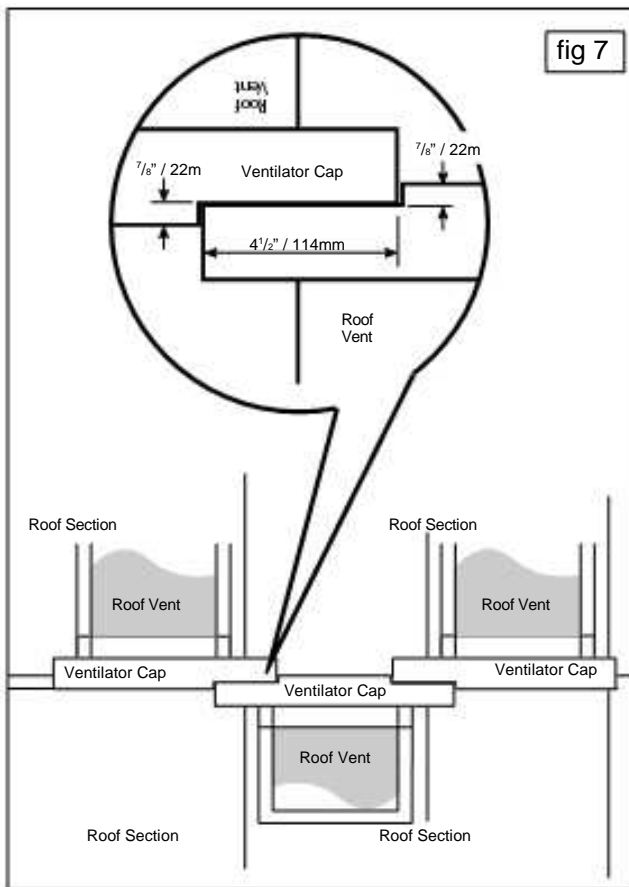
Important - see next page if you have adjacent roof vents.



Fixing roof Vents and Caps

Alton Amateur from Summer Greenhouses

If you have roof vents adjacent (either side) to each other you will have to trim the vent caps as detailed in fig 7. Note: if you have more than one set of adjacent roof vents, these will require cutting at both ends



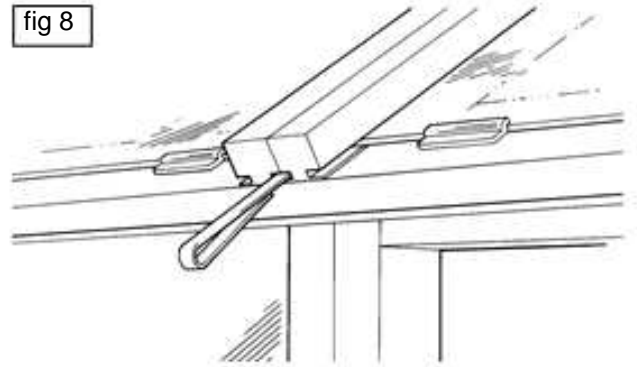
Leave the casement fittings or automatic openers until later.

Follow the same procedures for fitting the remaining roof sections in place.

Where roof sections meet each other use the shorter $2\frac{3}{4}$ "/70mm bolts and fix with a washer and nut.

Fit any other roof vents and vent caps.

fig 8



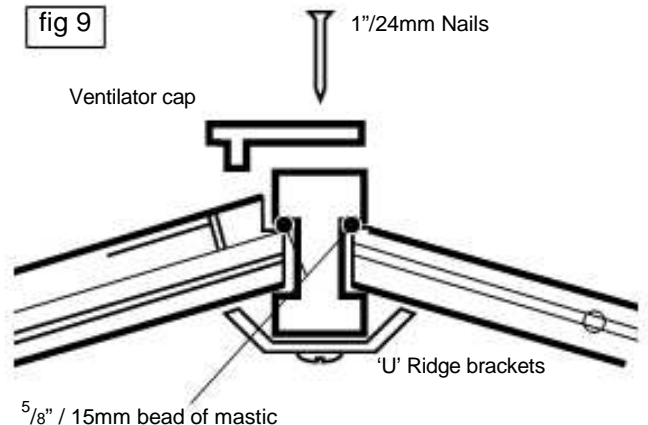
Fix the plastic tongue in the slot between the two roof panels. See fig 8.

Bend the plastic tongue over on itself when you push the end into the slot. This will prevent it from sliding back out and you may find it easier to accomplish this by gripping the folded end with a pair of pliers.

Note: It is correct that the end of the roof section does not line up flush with the gable end.

Finally check that all nuts and bolts are tightened before proceeding to the next instruction.

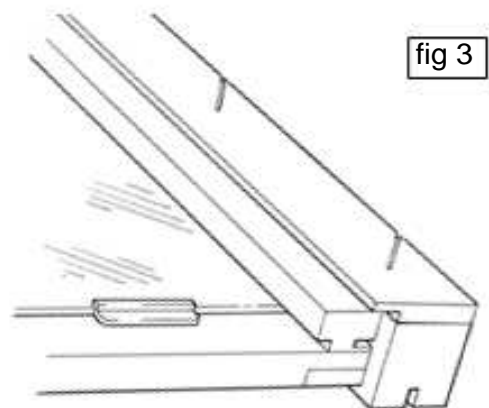
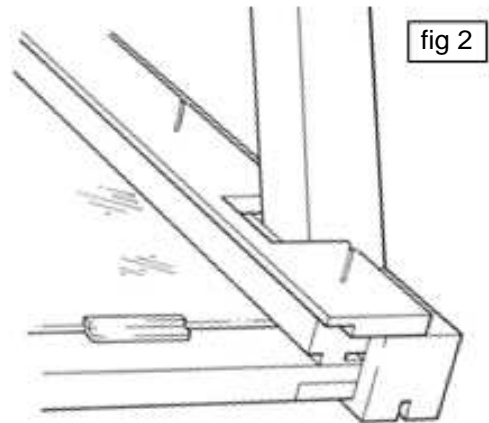
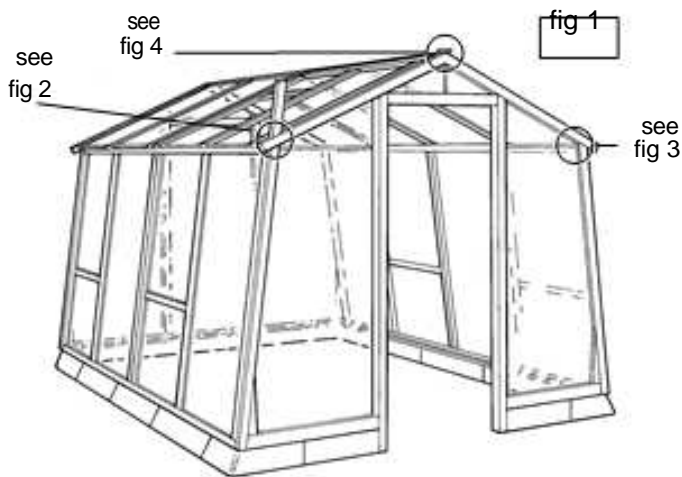
fig 9



Fixing the Roof Fascias and Finials

Alton Amateur from Summer Greenhouses

The gable roof cover strips (4) should be fitted next. At the door end you will need to cut out the necessary gap for the door post.



Offer up the strip to mark off the correct amount to be carefully cut out.

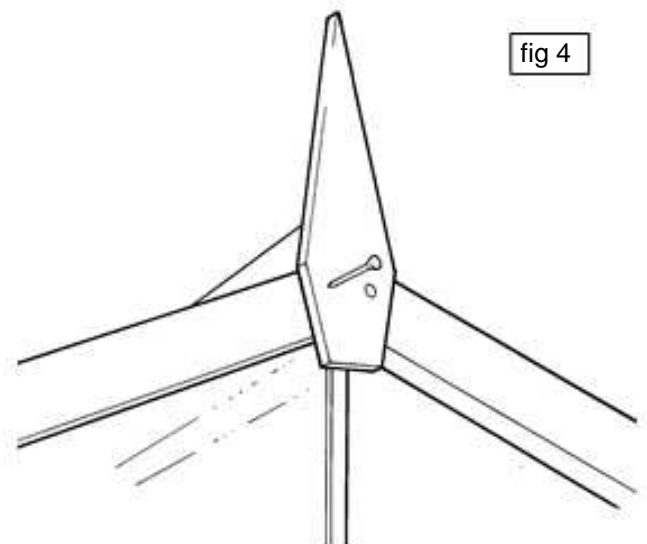
Then fix with 1" / 25mm nails, use 5 per strip. See fig 2.

Fix the remaining roof cover strips as shown opposite in fig 3.

If you have a roof vent adjacent to the gable you will have to cut away part of the strip to allow the vent to close. Take care when cutting not to split the cover strip. Again offer it up into position to establish the amount you need to remove.

Attach the finials to each gable end with 2 off 1" / 25mm nails each. See fig 4.

NOW remove the transit bars from both gable ends

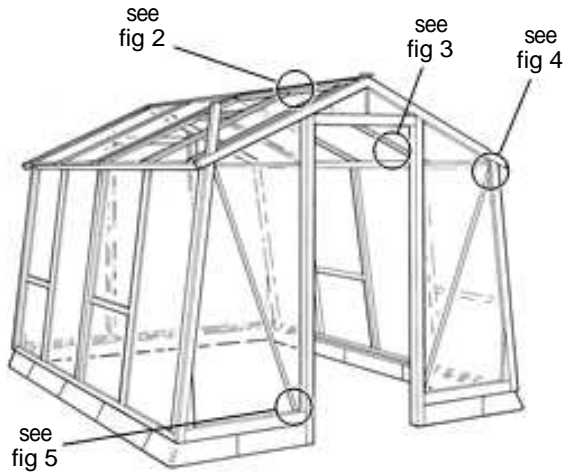




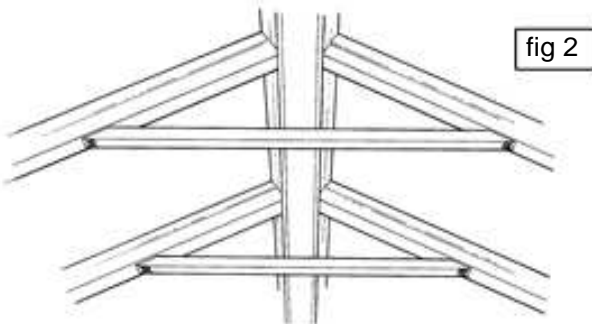
BRACING & SUPPORTS

DIFFERENT BRACING AND SUPPORT METHODS ARE REQUIRE FOR DIFFERENT LENGTHS OF GREENHOUSE, PLEASE READ CAREFULLY BEFORE PROCEEDING

Bracing and Supports



Fix the RIDGE braces to every glazing bar except at the gable ends. These are 2'/610mm in length and should be positioned centrally and secured with 4 off 1 1/4"/32mm countersunk screws for each. See fig 2.

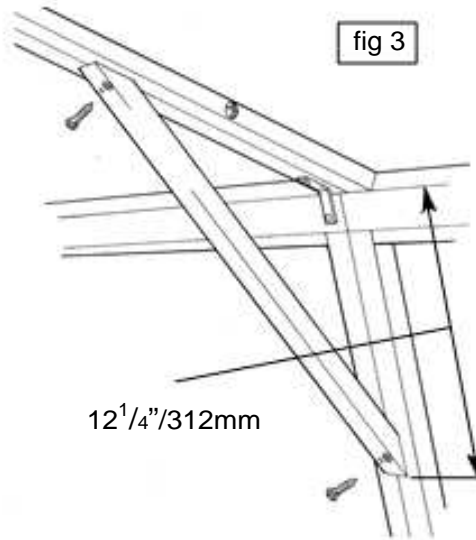


ON MODELS 13'/3.96m OR SHORTER fit the EAVES braces on every glazing bar except at the gable ends as shown in fig 3. These braces are 1'10" / 560mm in length and are secured by 4 off 1 1/4"/32mm countersunk screws.

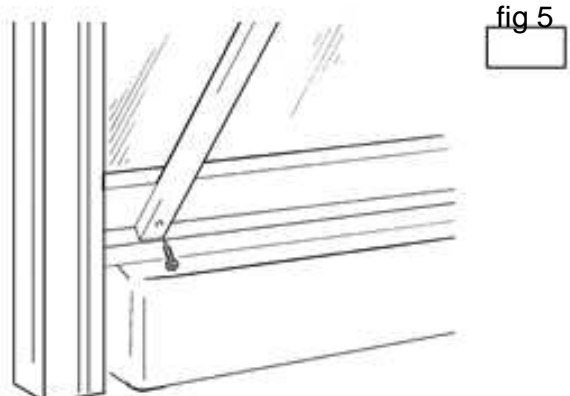
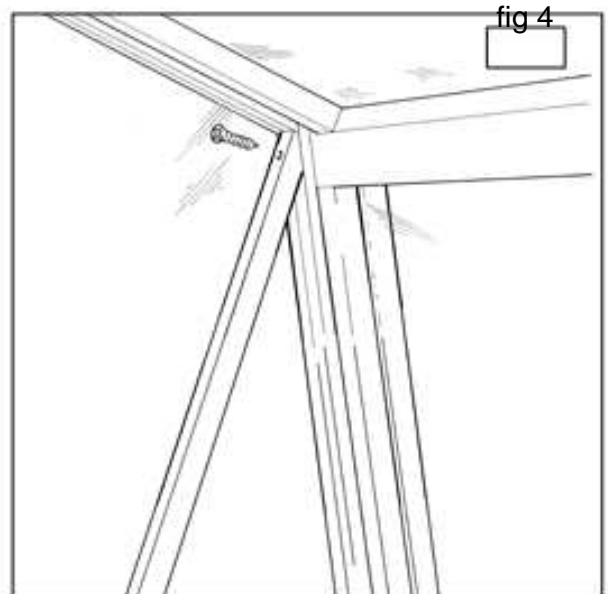
Measure a distance of 12 1/4"/312mm down from the top of the side section to get the correct position of the end of each brace.

IF YOUR GREENHOUSE IS LONGER THAN 13'/3.96M please also refer to the instructions on page 19 - regarding Middle Braces and Double Braces.

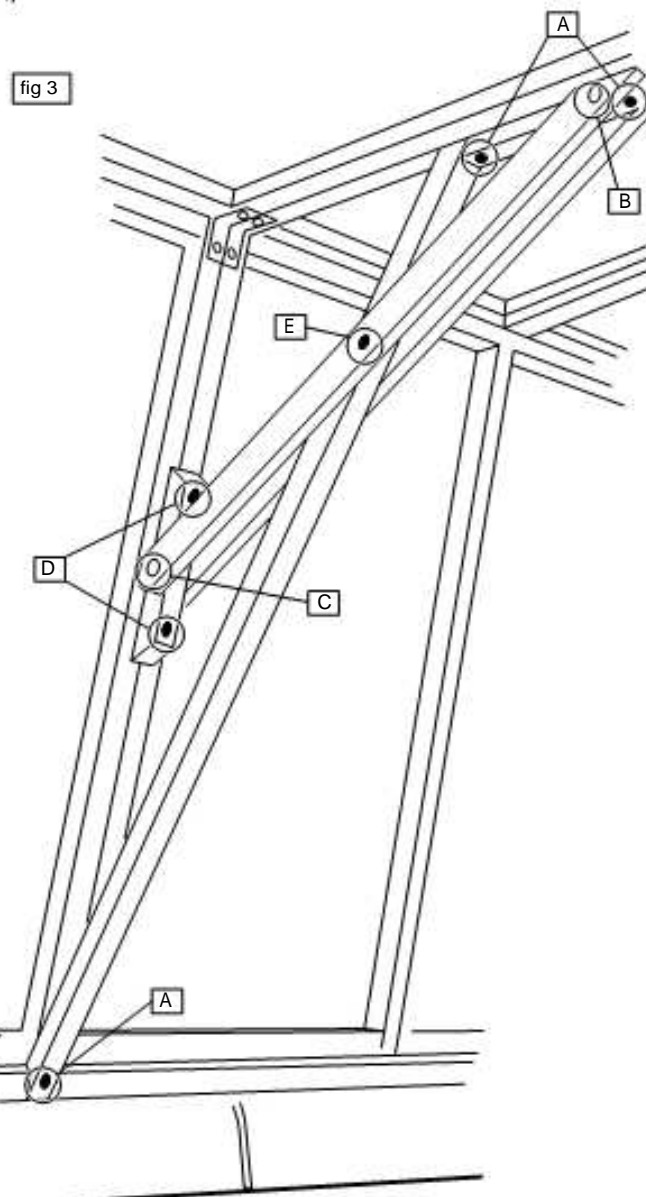
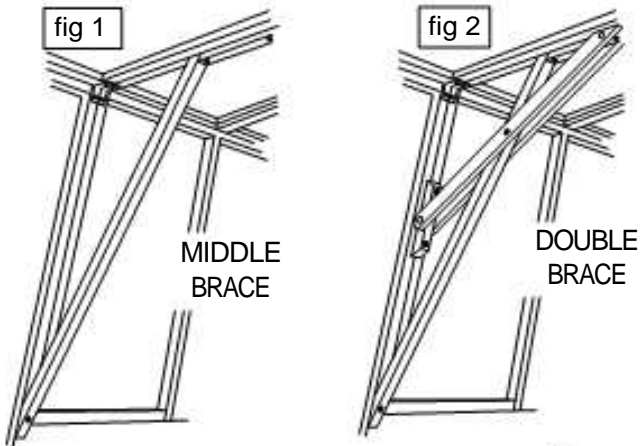
page 18



Gable end braces are fixed as shown in fig 4 & 5. Double check the verticals before securing with 1 1/4" / 32mm countersunk screws as shown.



Bracing the Greenhouse on models exceeding 13' / 3.96m



On all models 15' 7" / 4.75m a MIDDLE BRACE is fitted instead of a standard brace at every roof/side section join. See fig 1. Standard eave braces are fitted (on all models) to all other glazing bars except at the gable ends.

Fix middle brace at the top and bottom with 1 1/2" / 38mm countersunk screws to the roof and side cill, in the pre-drilled holes. The base of the middle brace is shaped to partially fit over the top of the cill.

Next move the short double bevelled block up to the top of the middle brace and the rafter. Holding it tightly in position secure with two 1 1/2" / 38mm countersunk screws. See fig 3A.

If your model is 18' / 5.48m or longer a DOUBLE BRACE is supplied for fitting at approximately 10' / 3.04m intervals in addition to the Middle Brace described above. See fig 2.

Loosely bolt the double brace ties to the long bevelled block at the top. See fig 3B.

(NOTE: *The bevelled end of the double brace ties should be at the bottom and nearest the side of the greenhouse.*)

With a double brace tie crossing the middle brace on either side, loosely bolt them to the short bevelled side block. See fig 3C.

Move the short bevelled side block up to the side glazing bar and fix with 1 1/2" / 38mm countersunk screws. See fig 3D.

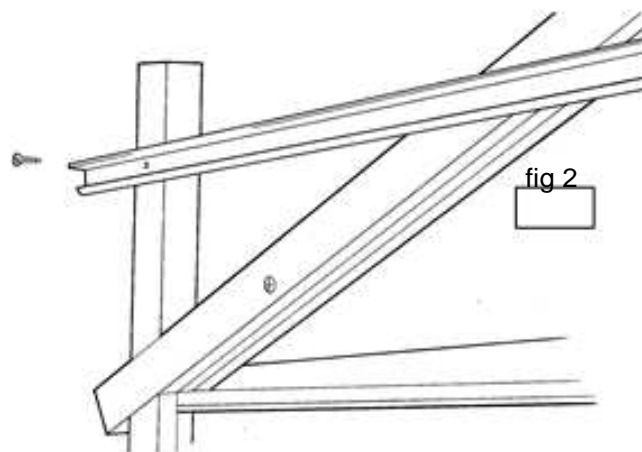
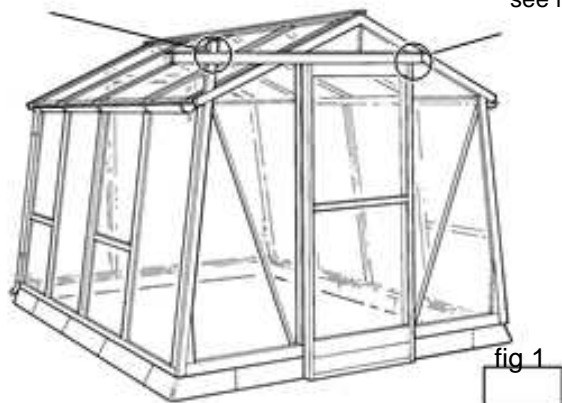
Tighten the bolts holding the double brace ties, top and bottom, and lock ties to middle brace with a 1 1/2" / 38mm countersunk screw on either side. See fig 3E.

Fixing the Single Door

Alton Amateur from Summer Greenhouses

see fig 2

see fig 3/4



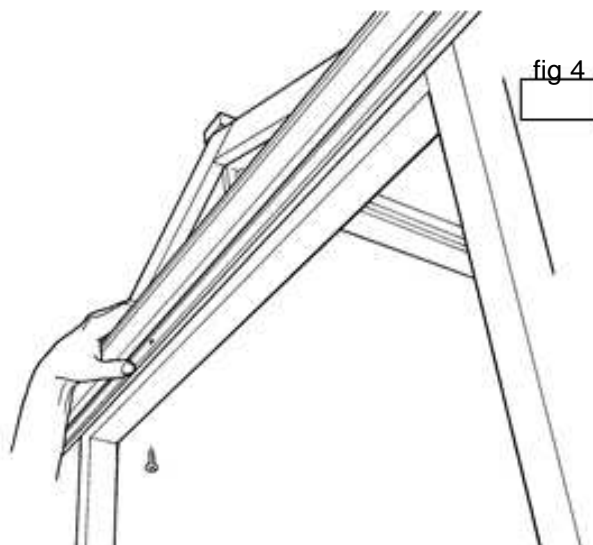
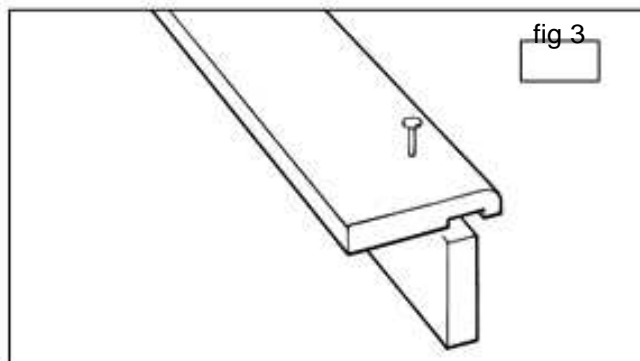
To help you get the correct clearance under the door it can help to lay the timber door stop (slamming strip) on level ground at the door entrance so the under side is level with the bottom of the kerbs. If you then stand the door on the strip this will give you clearance of about $\frac{3}{8}$ " / 10mm beneath the door.

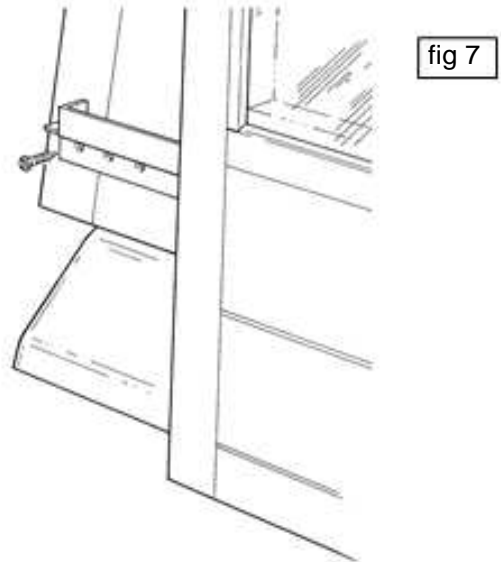
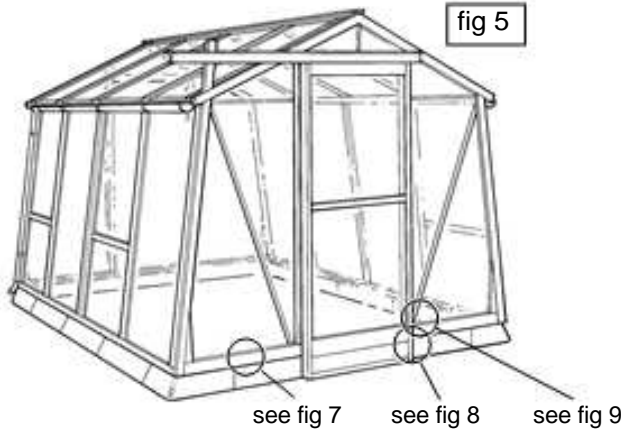
Check with a spirit level that the door is vertical and then hold the metal top door track in position and mark its location on the frame.

Take the door away and fit the metal top door track. Ensure the right hand end lines up with the outside edge of the door post and fix with 4 off $1\frac{1}{2}$ " / 25mm countersunk screws as shown in fig 2.

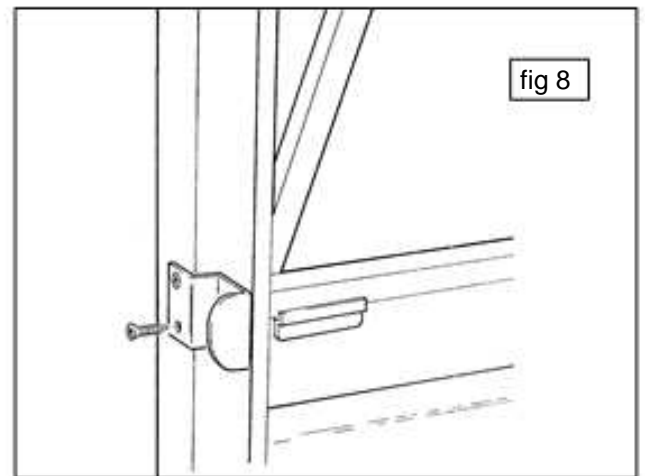
Assemble the door pelmet with 6 off $1\frac{1}{2}$ " / 25mm) nails as shown in fig 3 being careful not to split the timber. Secure the pelmet to the metal top door track using 4 off $\frac{1}{2}$ " / 12mm countersunk screws as in fig 4.

Slide the door into position on the door track.

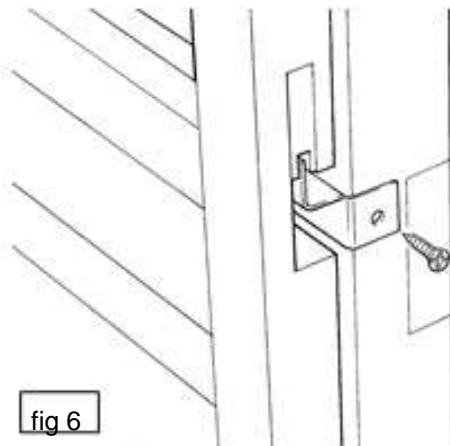




Positioning of the metal bottom door guide is important. The door must not rest on the guide, it must hang by the rollers in the top track and have a clearance between the door and the bottom guide rail. Fix into position with 2 off $\frac{3}{4}$ "/19mm countersunk screws. See fig 6 & 7.

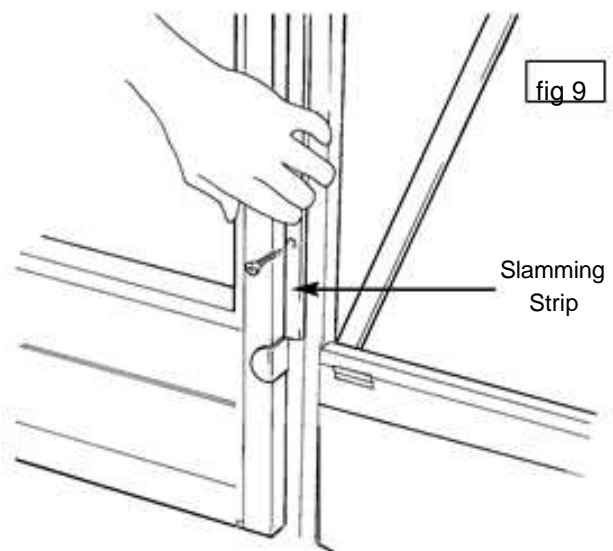


Position the metal door stay as shown in fig 8 so that when the door is closed it lines up with and covers the end of the channel cut into the door. Fix with 2 off



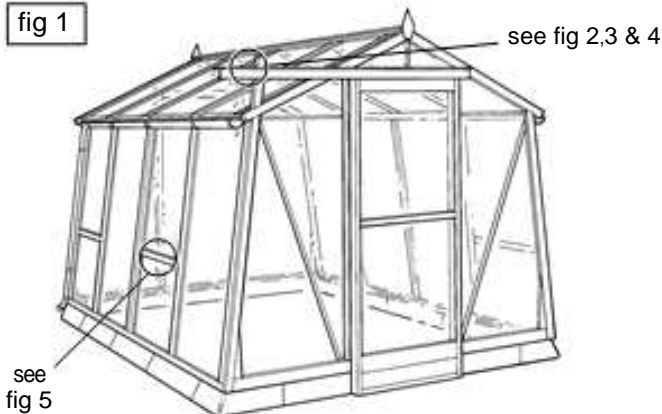
$\frac{3}{4}$ "/19mm countersunk screws.

Shut the door to the metal door stop and then hold into position the timber door stop (slamming strip) so that it is flush to the door edge. See fig 9. Secure with 3 off $1\frac{1}{4}$ "/32mm countersunk screws in the pre-drilled holes.



Ventilator Option

fig 1



If you have not ordered an Automatic Opener as an optional extra we supply a casement stay for each roof vent.

With the roof vent closed fix the casement stay centrally to the roof vent with 2 off $\frac{3}{4}$ " / 19mm countersunk screws as shown in fig 2.

Locate the positions of the two studs with reference to the casement stay. Note the position of the 'offset stud' and the 'central stud' from fig 3. When your happy they are in the correct position fix with $\frac{3}{4}$ " / 19mm countersunk screws.

We do not supply a casement stay when an Automatic Opener is supplied.

To fix an Automatic Opener refer to fig 4 plus the separate instructions supplied with the unit.

To be able to open the ventaccess, refer to fig 5 and fix a $1\frac{1}{4}$ " / 32mm round head screw centrally in the timber bar, so that about $\frac{1}{2}$ " / 12mm is left showing. (If the screw is put in too far it will not hold the handle, also it will come through the timber bar). Repeat above to each of the lift up side vents. Fit the spring to the vent handle and fit the handle to the clip.

fig 2

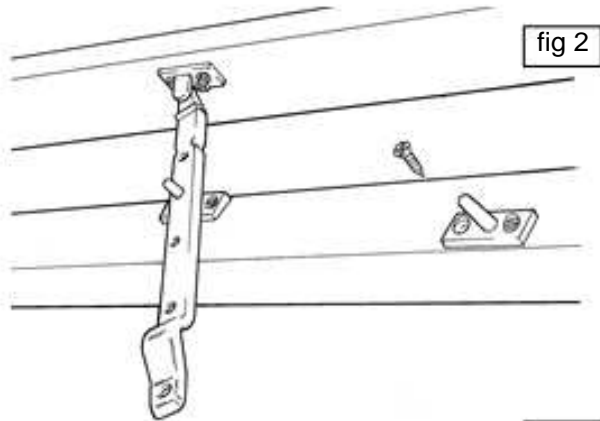


fig 3

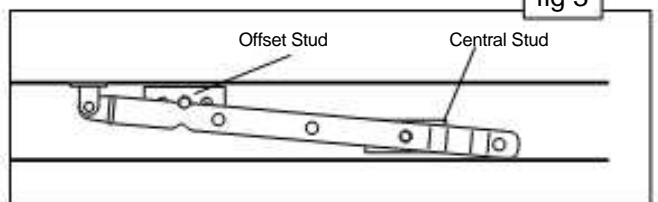


fig 4

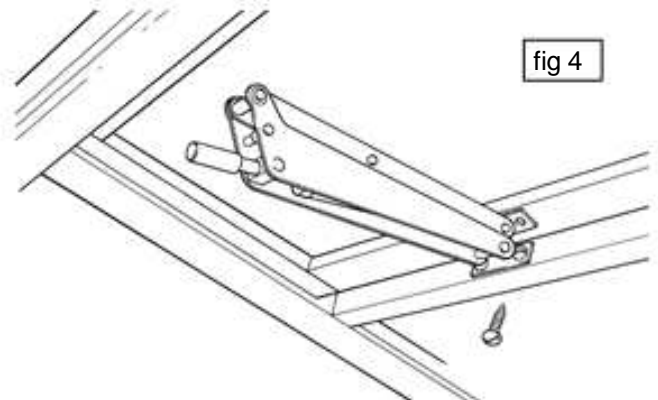
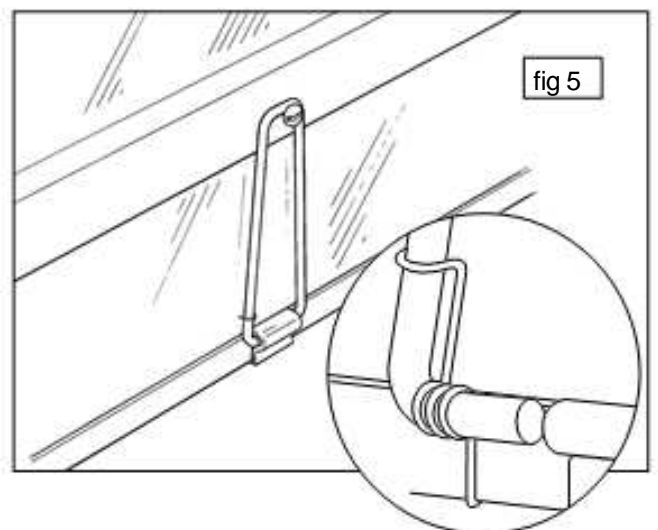


fig 5



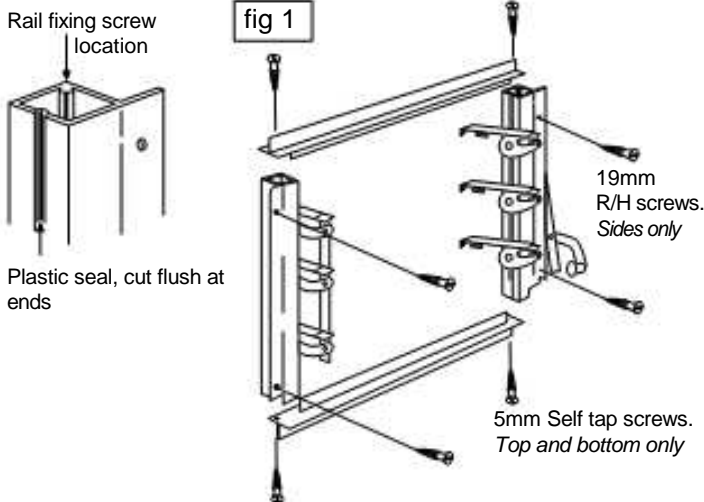
OPTIONAL

Louvre Vent Assembly and Fitting

Louvre vents are fitted at staging height and are positioned to complement other ventilation available: eg ventaccess and roof vents.

They can only be fitted where the glass you are replacing is 730 x 1422mm.

First, carefully remove existing sheet of glass from the chosen panel by removing the glazing beading and the two brown glass stops. Support the glass at the bottom, then gently remove the glass by initially moving to the left. Put safely to one side. Remove centre nut and bolt from side section.



Measure 21"/535mm for top of panel.

See fig 2.

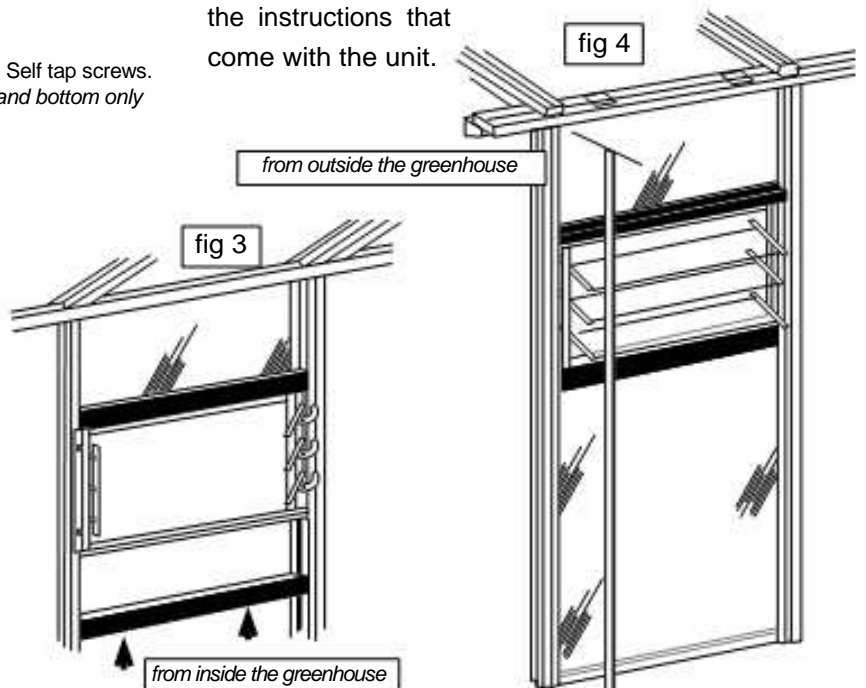
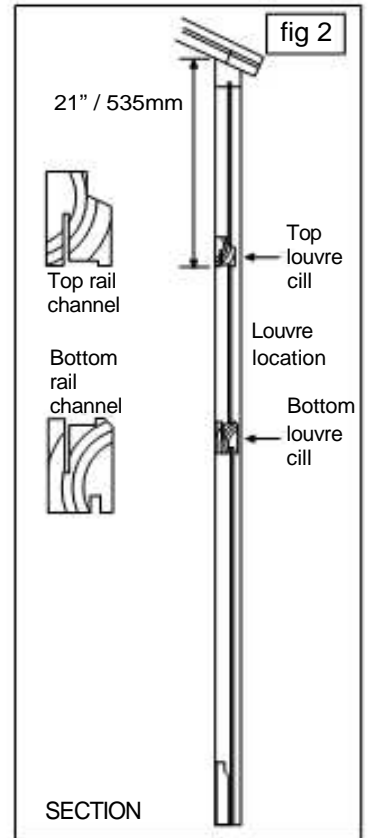
Insert the louvre top rail into the top cill channel until fully home. Together with the top sheet of glass (18¹/₂" x 28¹/₄" / 470 x 730mm) offer up to the section so that the bottom of the top louvre cill is at 21"/535mm. See fig 3. At this stage mark screw locations of vent, make pilot holes with bradawl/drill. Secure with ³/₄" / 19mm roundhead screws provided.

Fit bottom cill onto the louvre vent bottom rail. Place bottom sheet of glass in

position, pushing gently upwards to ensure a good fit and make secure with brown glass stops and replacing the glazing beading. See fig.4.

Finally open louvre to the horizontal position and insert glass blades, (4mm thick). Secure by bending lips up. (Use pliers if necessary).

The fitting of automatic openers can be done at this stage. Please follow the instructions that come with the unit.



replace beading once vent is fitted



GUTTERING

IF YOU HAVE A RAINWATER ADAPTOR KIT, PLEASE SEE SEPARATE INSTRUCTIONS SUPPLIED WITH THE KIT.

Gutter Assembly and Fitting

Decide at which end the downpipes will be located. Use a length of string to give a fall of $\frac{1}{2}$ "/12mm over every 10' / 3.04m.

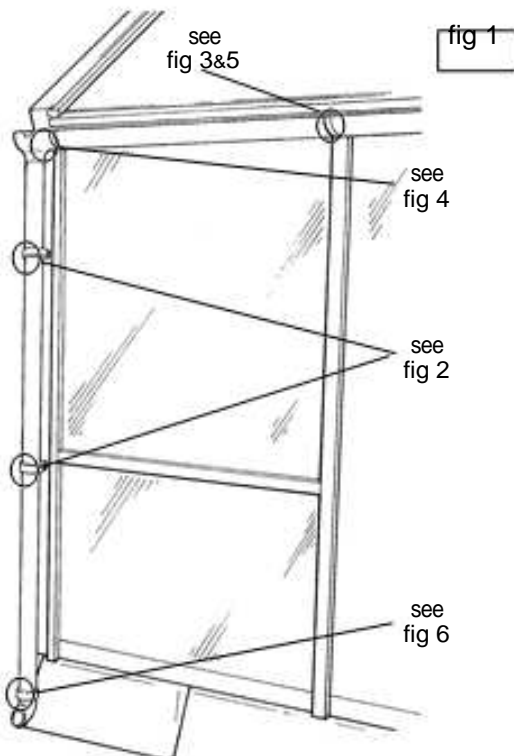
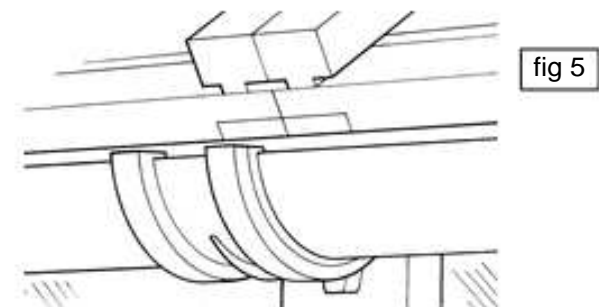
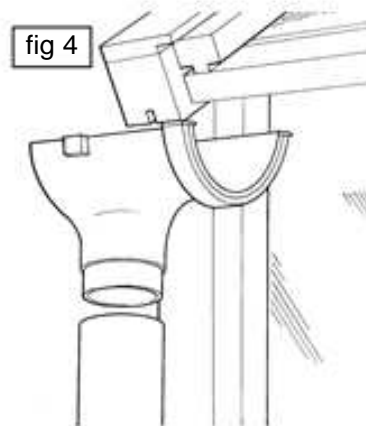
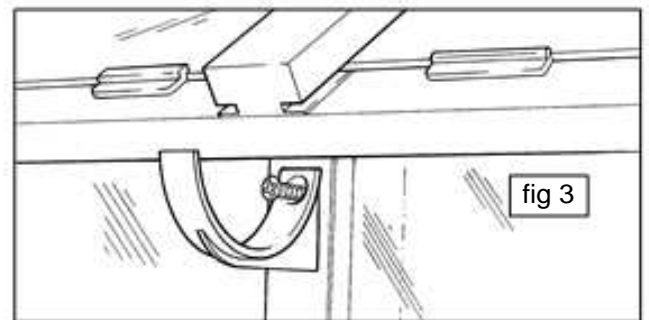
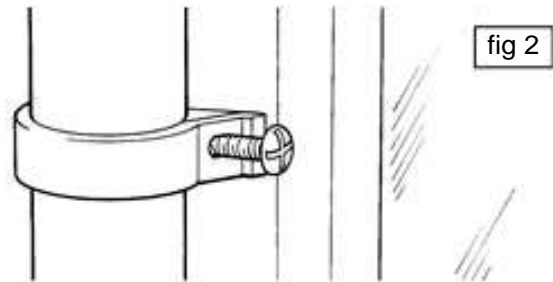
Fix the downpipe brackets into position with $\frac{3}{4}$ "/ 19mm countersunk screws and slide the downpipe into the brackets and fix loosely with the bolt & nut. See fig 2.

Drill a 5mm fixing hole in the stop end outlet, screw it into place with the downpipe connected. Using a $\frac{3}{4}$ "/ 19mm screw. See fig 4.

Fix the support brackets fig 3 and joint bracket/s fig 5 as required for the length of greenhouse. Use $\frac{3}{4}$ " (19mm) screws. Working from the downpipe end fix the guttering into the brackets having trimmed it to length if necessary with a fine saw. The stop end should finish level with the gable end of the greenhouse.

Tighten up the downpipe and fix the shoe at the bottom. See fig 6.

Repeat the process on the other side.



High Level Shelving

Alton Amateur from Summer Greenhouses

The high level shelving can be fitted to either side of the greenhouse.

To locate the brackets for the high level shelf measure $13\frac{1}{2}$ "/345mm down from the top of the side panel at each glazing bar and gable ends. See fig 2.

This is the location of the screw hole for each bracket. Fix the brackets with $\frac{3}{4}$ "/19mm round head No 10 screws. See fig 2. The double bracket is used where the lengths of shelving meet and are fixed to where side panels are joined. See fig3.

Place the shelf on the brackets and position the shelf strap. After drilling pilot holes fix the bottom of the strap flush to the shelf bearer and fix the top to the roof glazing bar making sure the shelf is level. See fig 4. Screws for fixing are $\frac{3}{4}$ "/19mm No.8 csk.

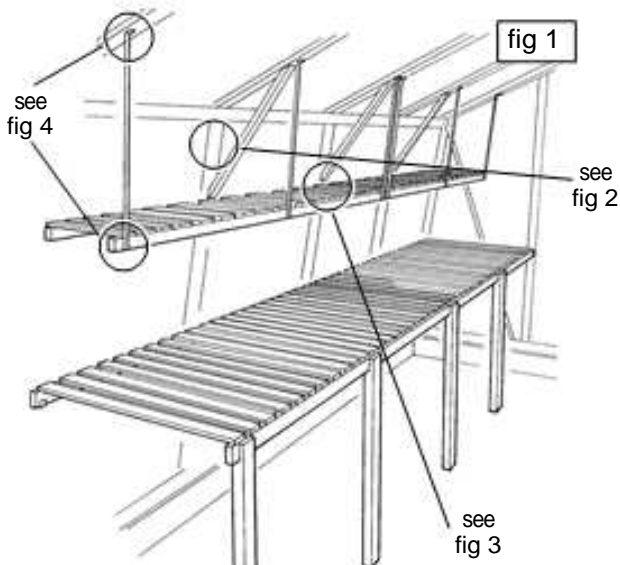
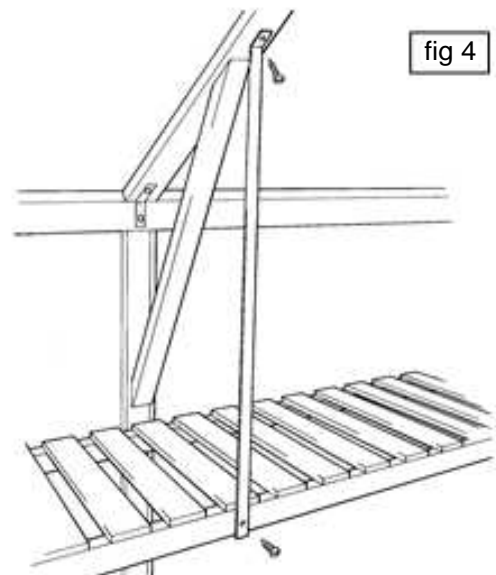
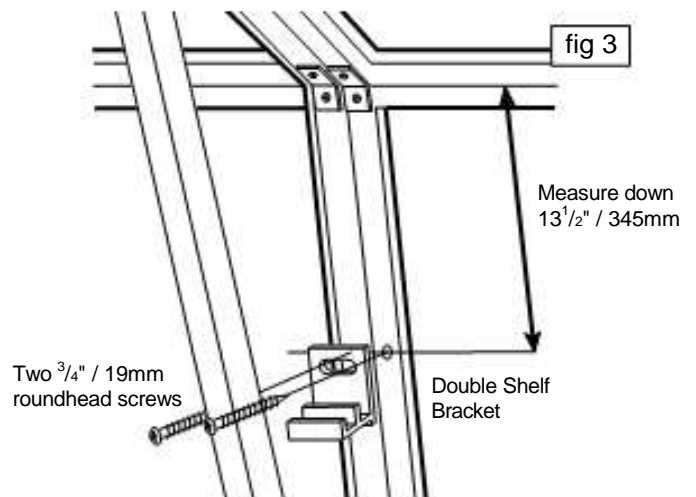
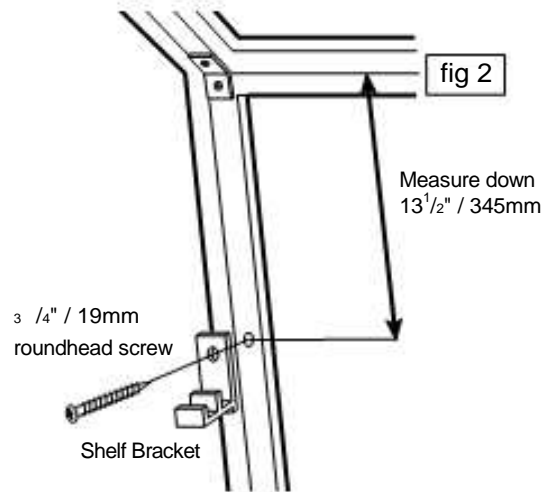
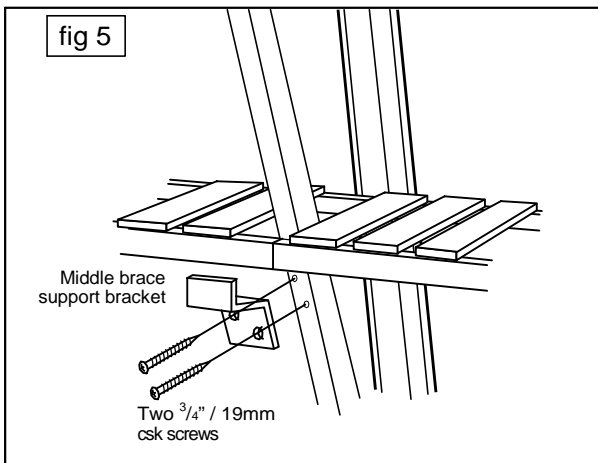


Diagram shows a greenhouse with no middle brace, eg: shorter than 13'7" in which case two metal support straps are used to hold the shelving.



High Level Shelving

If your greenhouse has a middle or double brace the high level shelving is required to fit around the brace. See fig 5.



A slat will have to be removed and the shelf will need cutting. Hold the shelf in position and mark the length- centre of both the brace and double bracket.

With a spirit level, ensure the shelf is level. Offer up the support bracket and secure with two $\frac{3}{4}$ " / 19mm No.8 csk. screws.

Hint: Replacing the removed slat 'finishes off' the overall good looks of the greenhouse. Measure the slat accordingly and cut to length at the same angle as the brace. Fix with two nails to the shelf support timber.

HIGH LEVEL SHELVING WITH A PARTITION

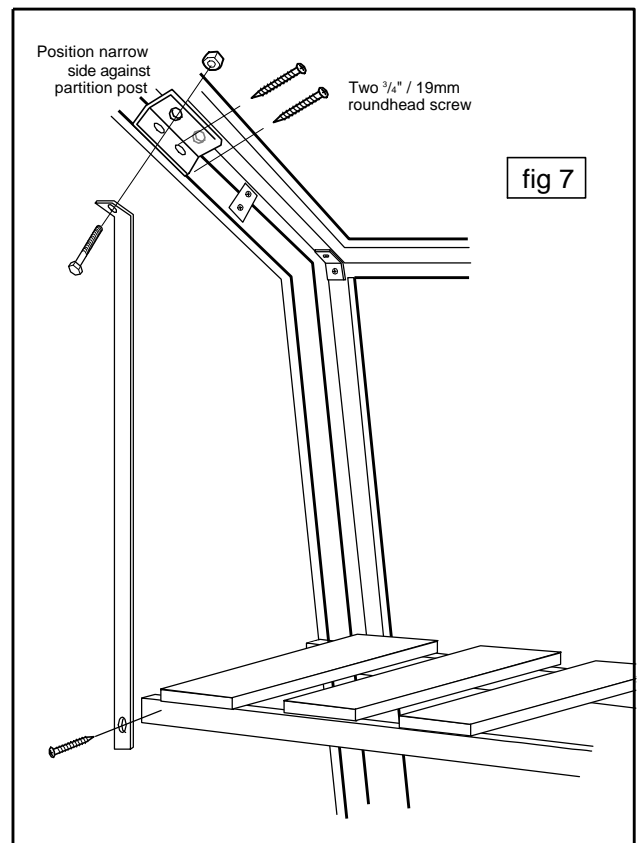
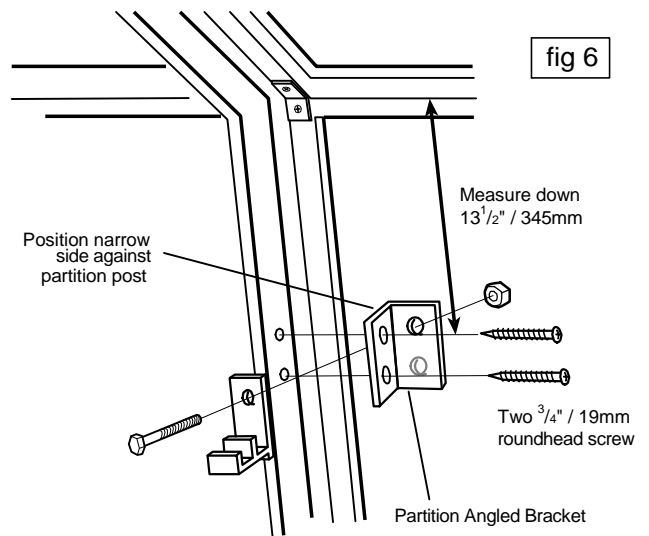
Follow the above basic instructions with the exception of fixing to the end gable.

Where the shelving is fixed to the partition two angle brackets are required. See figs 6 and 7.

Bolt the shelving bracket to the angle bracket and tighten with nut. Secure to the partition post with two roundhead $\frac{3}{4}$ " / 19mm screws. See fig 6.

Fit the roof brackets in a similar manner. See fig 7.

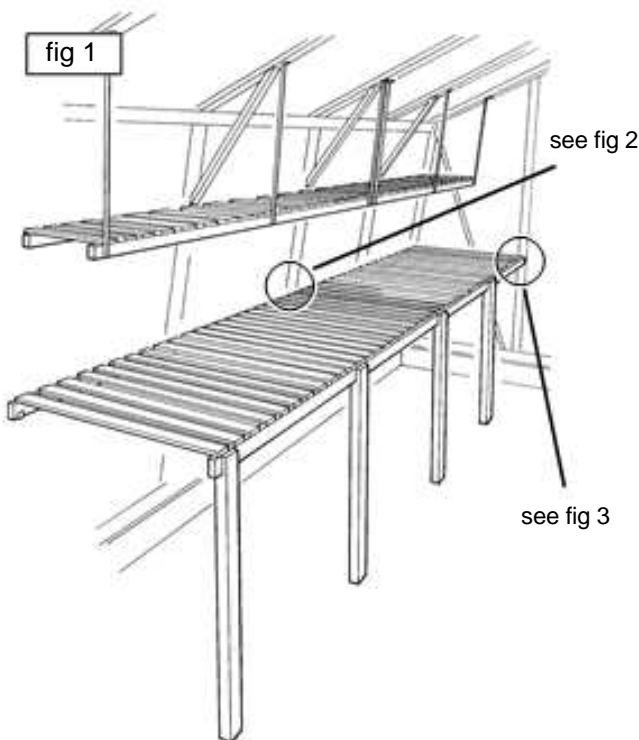
On both occasions ensure the narrow side of the angle bracket is fixed to the partition post.



Staging Assembly

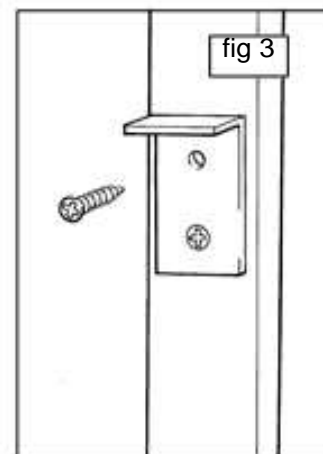
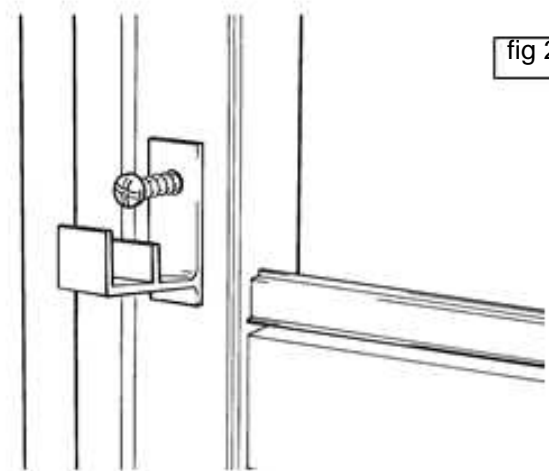
Alton Amateur from Summer Greenhouses

The staging can be supplied in different widths and can be fitted to either side of the greenhouse. The general instructions apply to all sizes.



To get the staging support brackets at the correct height hold one of the staging legs next to each side glazing bar, with the bottom of the leg level with the underside of the concrete base kerb. Mark on the glazing bars (not end gables or partitions) the level of the rebate at the top of the leg.

This is the correct height for the horizontal part of the support brackets on which the long side of the staging will rest. Fix the brackets with $\frac{3}{4}$ "/19mm round head screws. See fig 2. Double brackets are used for where lengths of staging meet.



Position the end bracket at the plain gable end by the same means and fix with $1\frac{1}{2}$ "/25mm counter sunk screws.

See fig 3

Position the staging legs as shown in fig 1, which is basically opposite the side panel uprights. And after drilling pilot holes fix in place with $1\frac{1}{2}$ "/25mm countersunk screws.

ALTON STAGING

Staging Assembly

Alton Amateur from Summer Greenhouses



Diagram shows a greenhouse with no middle brace, eg; shorter than 13'7". If your greenhouse is longer and has middle or double braces you will need to remove one slat from each length of staging to accommodate these braces. It may also be necessary to trim one of the staging sections to get a correct fit if a partition is installed.

Always check for levels before fixing. Check that the staging will not interfere with the opening of doors and louvre vents, if fitted.



8' wide Amateur Cedar Greenhouse

Glass Details

In the event that any glass is broken upon delivery we ask that you purchase the glass locally and forward us the bill for repayment. This will be the quickest way to rectify matters and get your greenhouse completed. The details give the sizes and method of fitting.

If you are not happy to do this or have any other difficulties please contact our After Sales Department on 01295 770291 during office hours. Please refer to the brown envelope attached to the delivery notes.

Replacing Glass

When handling glass please ensure you wear gloves.

Roof glass

All roof glass slides into glazing grooves and is held in place at the eaves with plastic glass stops which are fixed with screws.

Side and End glass

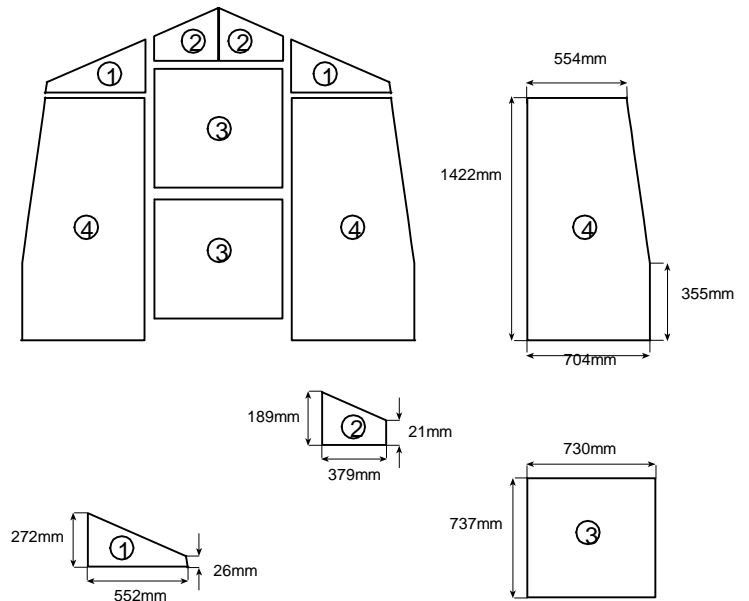
All glass is held in on one side by a glazing groove and on the other by a timber beading and plastic glass stops at the bottom. The timber beading can be prised off carefully with a wide putty knife and the plastic glass stops are fixed with screws.

Replacement glass should be slid into the glazing groove, and with the other side in the rebate it should be pushed upwards into the top glazing groove. The glass stops and beading should then be re-fixed.

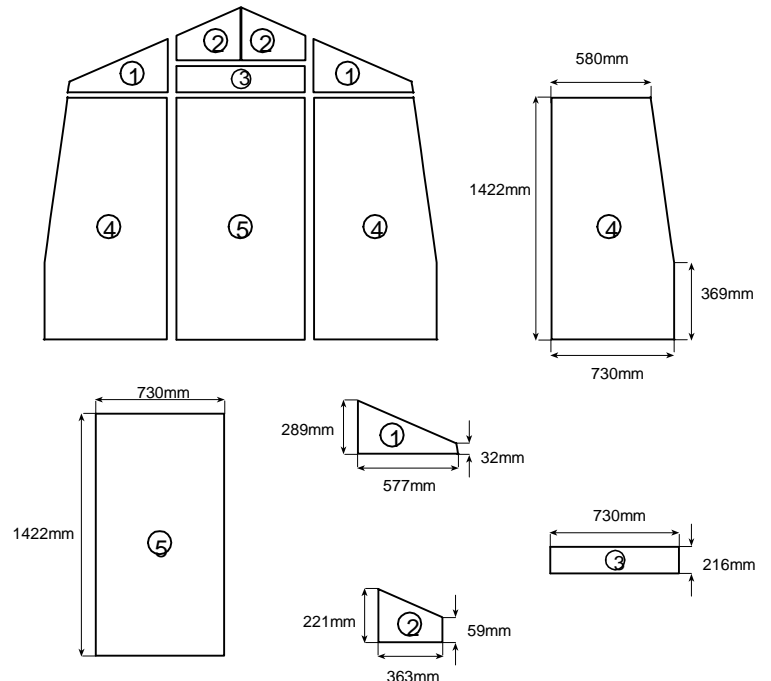
Glass Sizes

We use 3mm horticultural glass as standard, 4mm Toughened glass as an optional extra.

Door End Gable Glass



Plain End Gable Glass

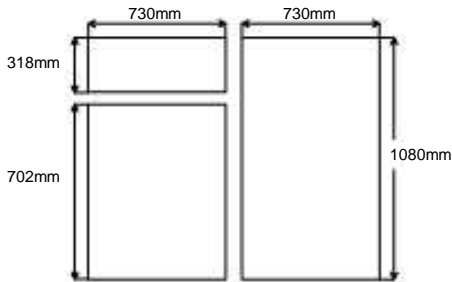




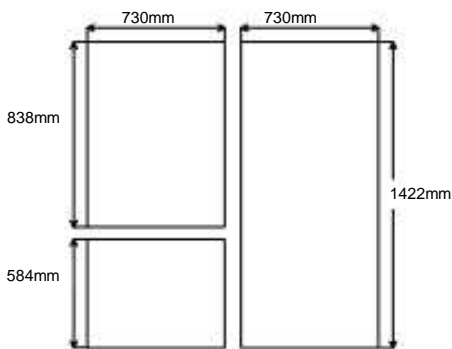
GLASS DETAILS

Roof & Side glazing

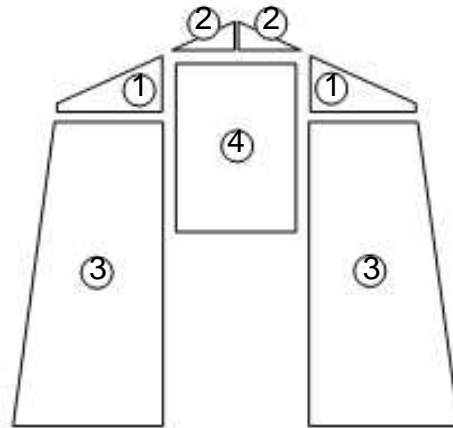
Roof Panel glass



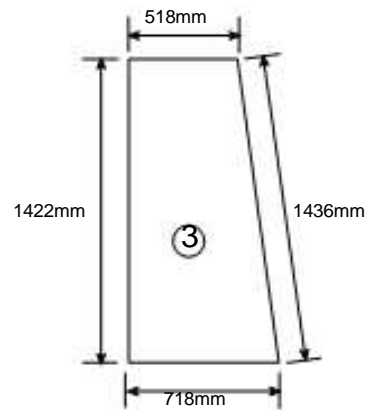
Side Panel glass



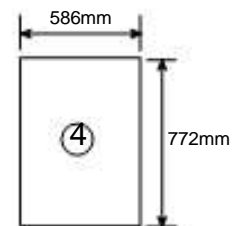
Partition glazing



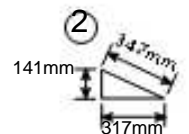
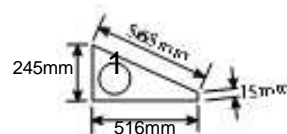
Side Panel



Door Panel



Top Panels



Glass details for left hand partition section.
The right hand glass are exactly the same sizes.



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