

Robinsons
GROWING BETTER THROUGH DESIGN



**BEFORE OPENING ANY
OF THE BOXES PLEASE READ
THESE INSTRUCTIONS**

Riviera

Assembly Instructions

GREENHOUSE

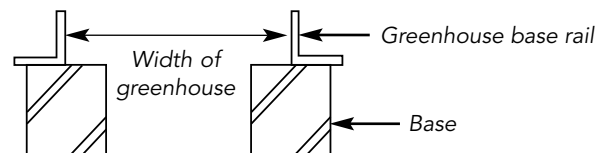
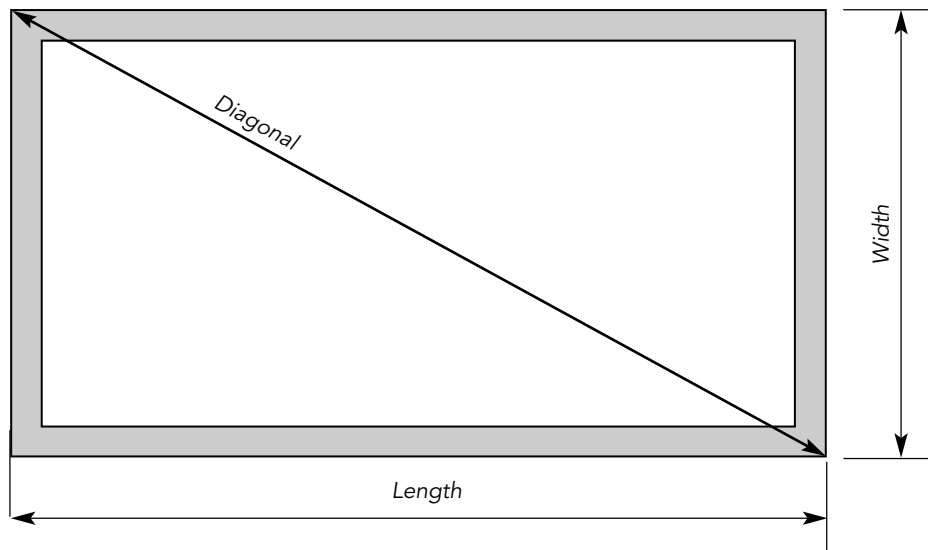
Greenhouse Base Plan

You may have already considered the position of your new Robinsons Greenhouse and be aware of the importance of a square and level base.

We cannot emphasise how important it is to have a proper base. It is essential that the base is flat, level and square as well as being substantial, enough to take the weight of the greenhouse including 4mm toughened glass.

If not already completed the base should ideally be a concrete perimeter footing a spade's width and of sufficient depth for your local ground conditions. A brick perimeter base is equally suitable (and more attractive) providing there is a suitable concrete foundation beneath it. A quality stock brick or semi-engineering brick is recommended.

The dimensions given for the greenhouse base plan allow the building to overhang the base in order to help prevent water running back into the building. If the prepared base is larger than these sizes then water may run underneath.



EXTERNAL DIMENSIONS (mm)

MODEL	Width	Length	Diagonal
8 x 10	2584	3252	4154
8 x 12	2584	3872	4655

Safety Advice

It is advisable that two people should assemble the greenhouse and at one stage a third person is required. 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.

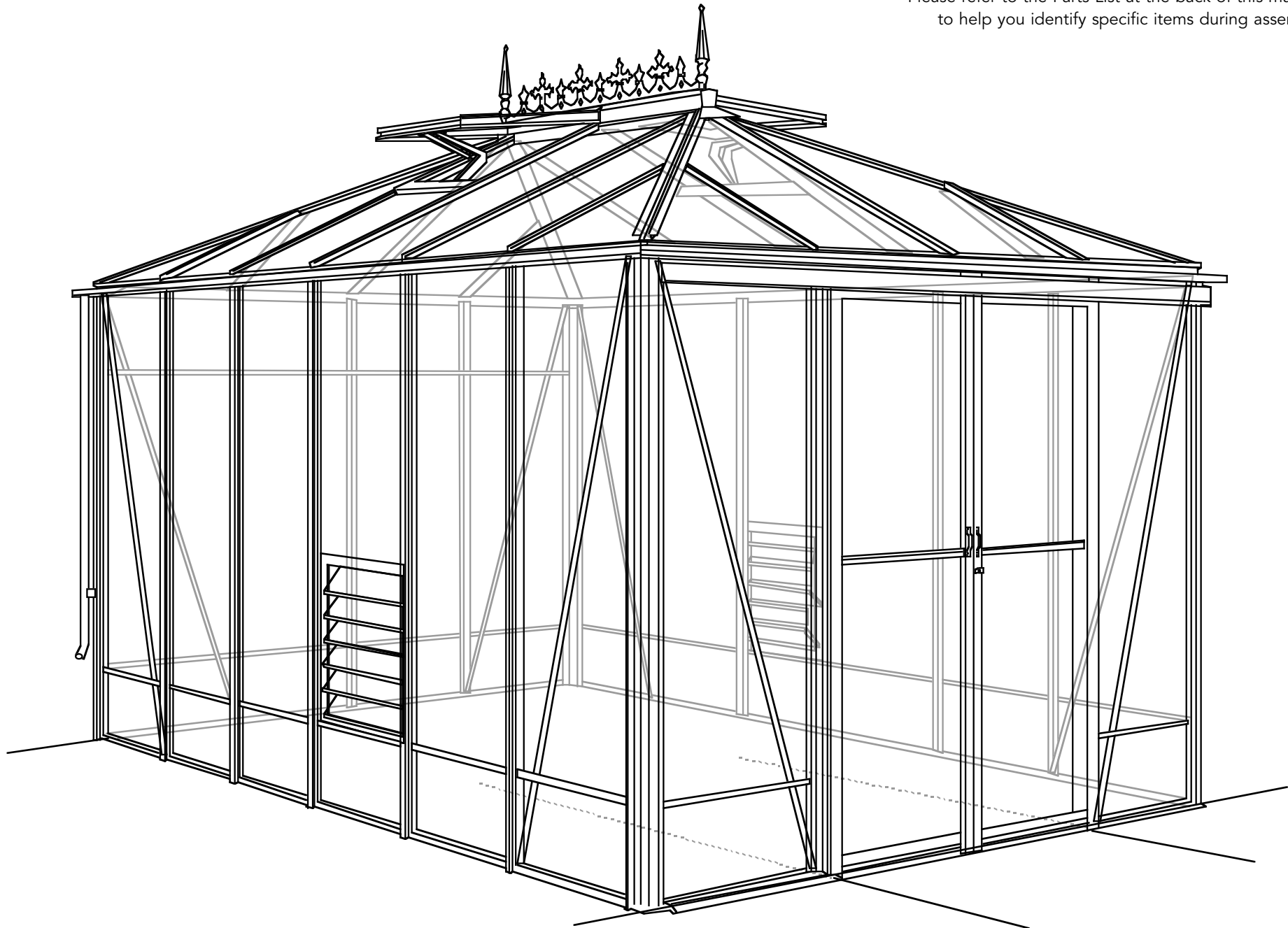
Keep children and pets away until the work is finished.

Take your time - rushing causes accidents.

Tools required

- Step ladders 2m high (*two if possible*)
- Spanners or 10mm socket
- Drill + bits including 7mm masonry
- Spirit Level
- Screwdriver, manual or power with attachments
- Sharp scissors or knife
- Gloves

Please refer to the Parts List at the back of this manual to help you identify specific items during assembly



RIVIERA – SIDE ASSEMBLY

Open box labelled "House Pack" and find the "Hip Length Smalls Pack" with all the nuts and bolts in it. You need the square headed 15mm and 10mm bolts plus the nuts.

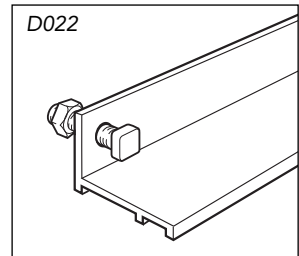
Open box labelled "C/L Pack" and locate two Corner and four (10' model) or five (12' model) Side Glazing Bars, 1930mm in length, plus the roll of Glazing PVC.

Thread the PVC glazing strip into both grooves in all the side glazing bars. Only fit the PVC strip to the inside grooves of the corner glazing bars. (See diagram). In all cases cut to full length taking care not to stretch the PVC strip. Water or washing up liquid used as a lubricant may help - especially in winter months.

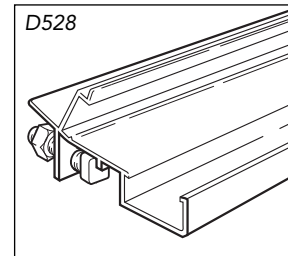
Locate a side Base Angle from the "C/L Pack" and loosely fix a 15mm long bolt and nut in each hole.

Lay these parts on the ground, as if viewed from inside the greenhouse, per the plan. Ensure suitable protection is put down if the surface is likely to scratch the paint.

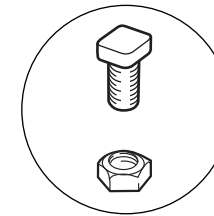
Locate a Hip Gutter from the same box and loosely fix a 15mm bolt and nut at each end and then a 10mm bolt and nut in every other hole. See diagram.



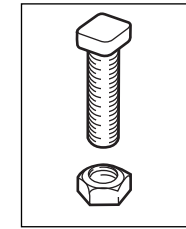
Base Angle



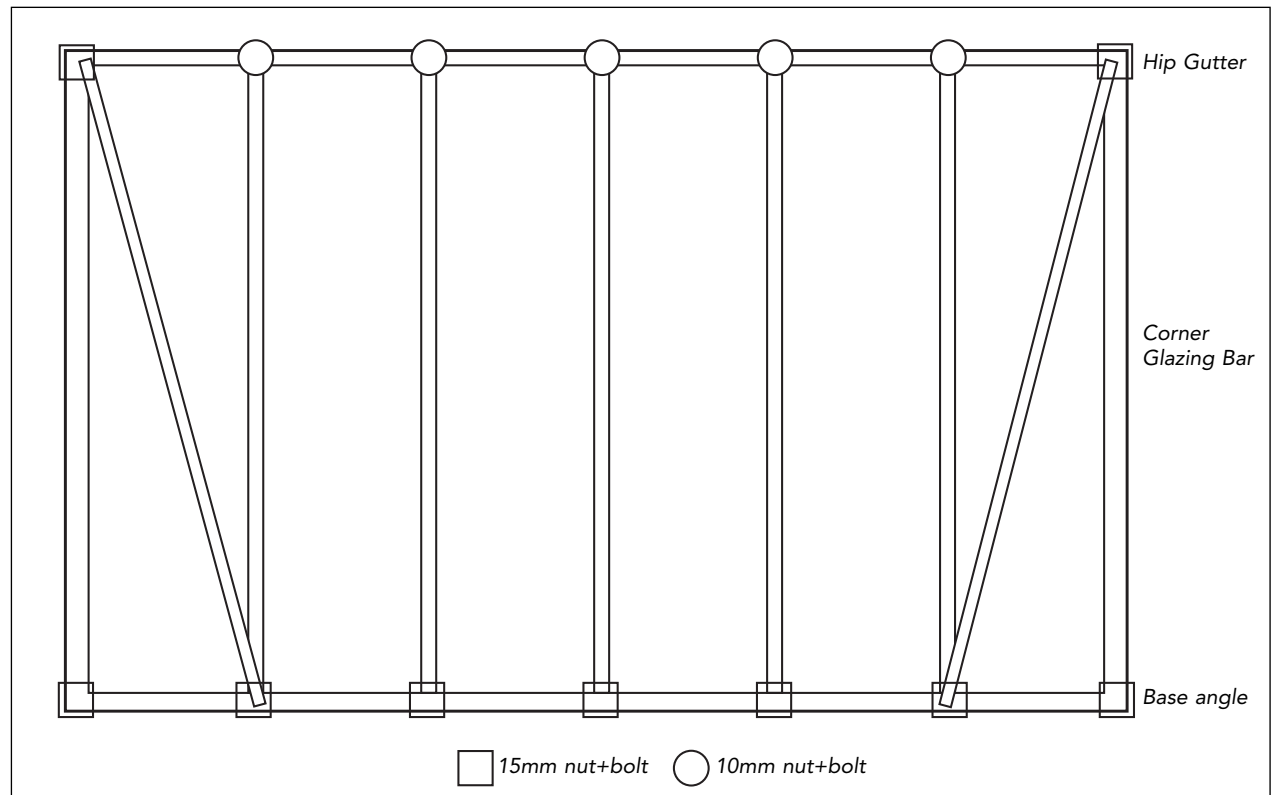
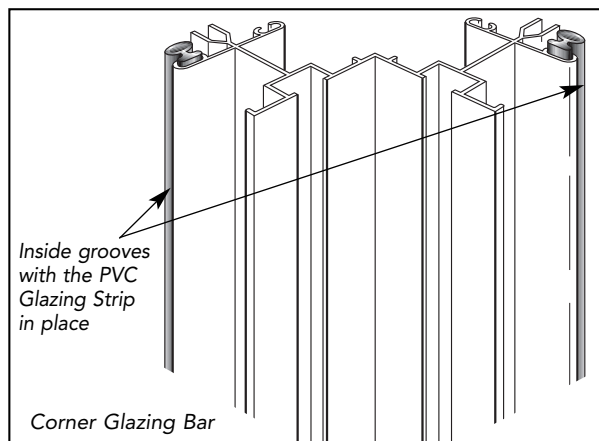
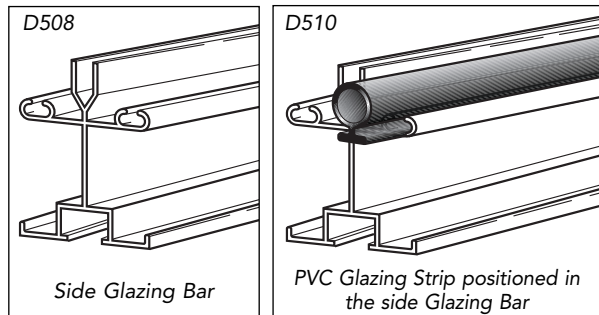
Hip Gutter



10mm Bolt + nut



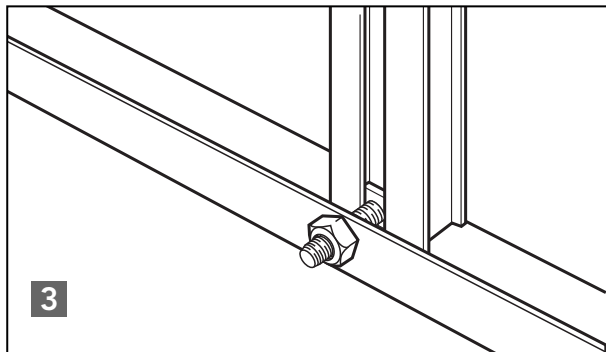
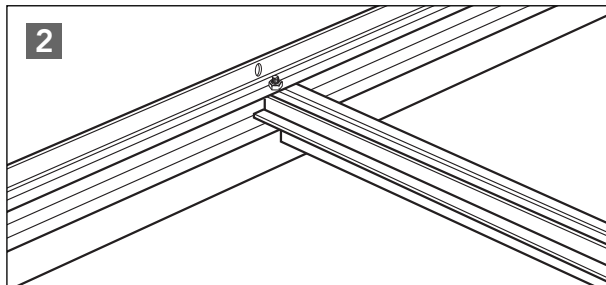
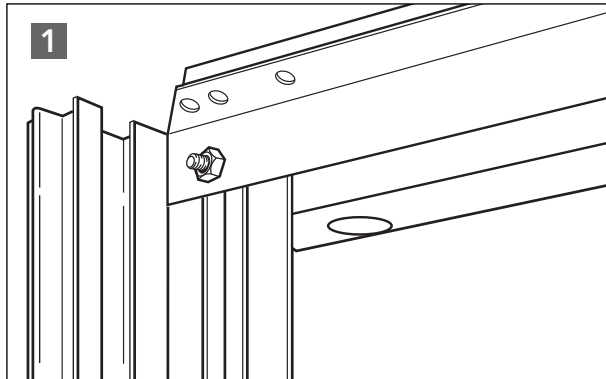
15mm Bolt + nut



RIVIERA – SIDE ASSEMBLY (CONT.)

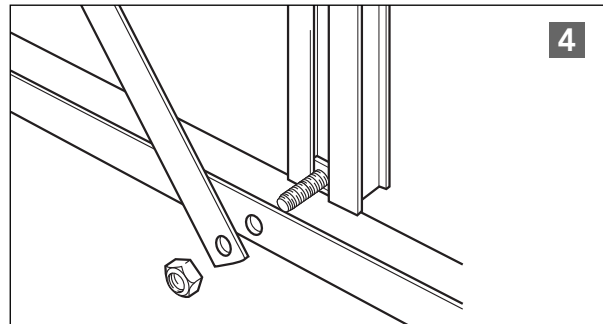
Lay the Hip Gutter and Side Base Angle in position on the ground.

Fix a Corner Glazing Bar to the end of the Hip Gutter by slipping the head of the bolt into the groove of the Corner Glazing Bar and tighten the bolt. (See diagram 1). Working along the Hip Gutter fix the side Glazing Bars in a similar manner (See diagram 2) and the other Corner Glazing Bar to the end.



Repeat the process with the Base Angle at the other end of the glazing bars. (See diagram 3).

Find two Diagonal Wind Braces from the "C/L Pack". Undo the top corner nut on the Hip Gutter and fix one end of the brace over the bolt and refit the nut. Undo the appropriate nut and fix the other end to the base angle. (See diagram 4).



Check all nuts are tight but be careful not to overtighten.

Now repeat the same process to construct the other side.

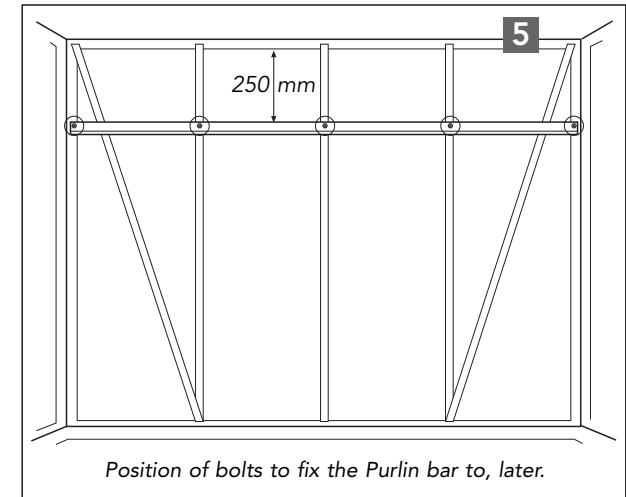
END ASSEMBLY

From the box labelled "House Pack" identify and locate five Side Glazing Bars, four Diagonal Wind Braces, two Hip Gutters, two Gable End Base Rails and the Gable Purlin. (See Parts List on pages 21/22/23).

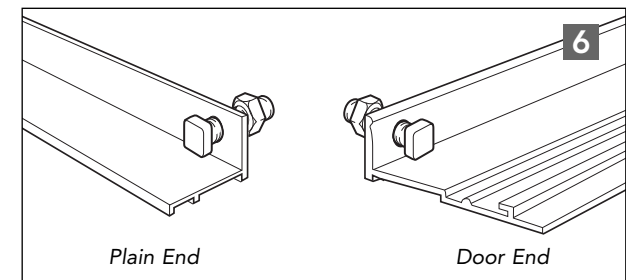
Thread PVC strip into the grooves on both sides of three side Glazing Bars for use in the plain end. The two bars that go either side of the door only require one side to be done.

Now pre-position five 10mm bolts for the fixing (a little later) of the Gable Purlin. On the three glazing bars to go at the plain end slide a bolt into the groove of each

and secure with a nut so they don't slide out. Also do the same in the groove of the relevant plain end Corner Glazing Bars.



On both Gable End Base Rails and loosely fix a 15mm bolt and nut in the end holes only.

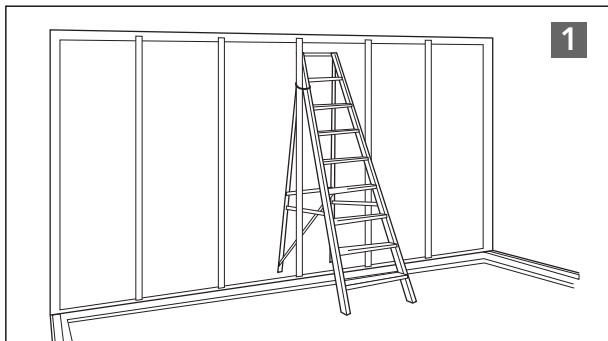


On the Hip Gutter to go at the plain end loosely fix a 15mm bolt and nut in each end hole and a 10mm bolt and nut in the remaining three holes. On the hip gutter, to go at the door end, do the same but leave the middle hole above the doorway empty.

Once this is complete place the Base Rails in their correct position, on the concrete base.

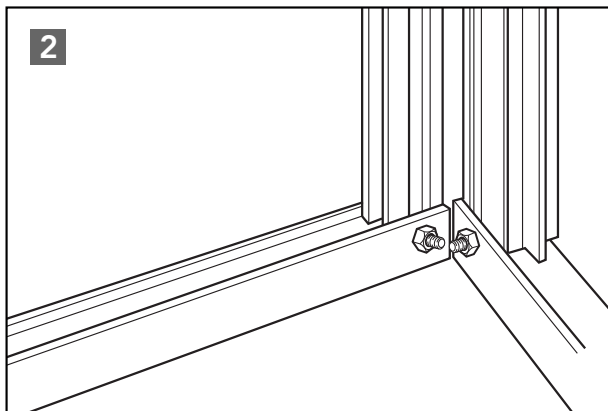
RIVIERA – CONNECTING THE SIDES

IMPORTANT You will require two strong step ladders for this part of the assembly. If this is not possible then extra people to hold sections in place is essential.



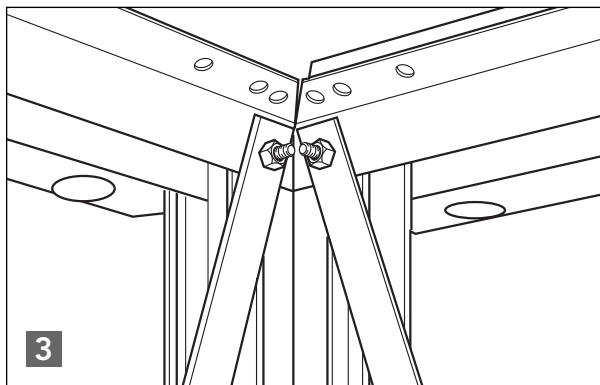
Put one side section in its correct position and support by tying to the step ladder(s) or hold it in place.

Once supported attach the gable end base rails to both sides. This is done by lowering the side section down to allow the head of the bolt to slide into the groove, tighten and repeat this operation on the other corner.



Fix the plain end hip gutter to the top of the side sections by sliding the pre-fitted bolt head at each end into the groove of the corner glazing bar.

Complete the plain end by fixing each of the three glazing bars to the hip gutter by sliding the groove of the glazing bar onto the bolt head already in situ and then fixing the other end to the hole in the base rail with a 15mm bolt and nut. (See diagram 3, page 5).



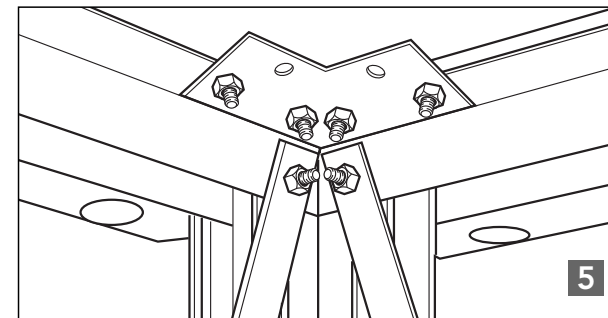
The diagonal wind braces may now be fitted in a similar way to those already done for the sides.

Ensure all nuts are tightened.

Repeat this operation on the door end, remembering

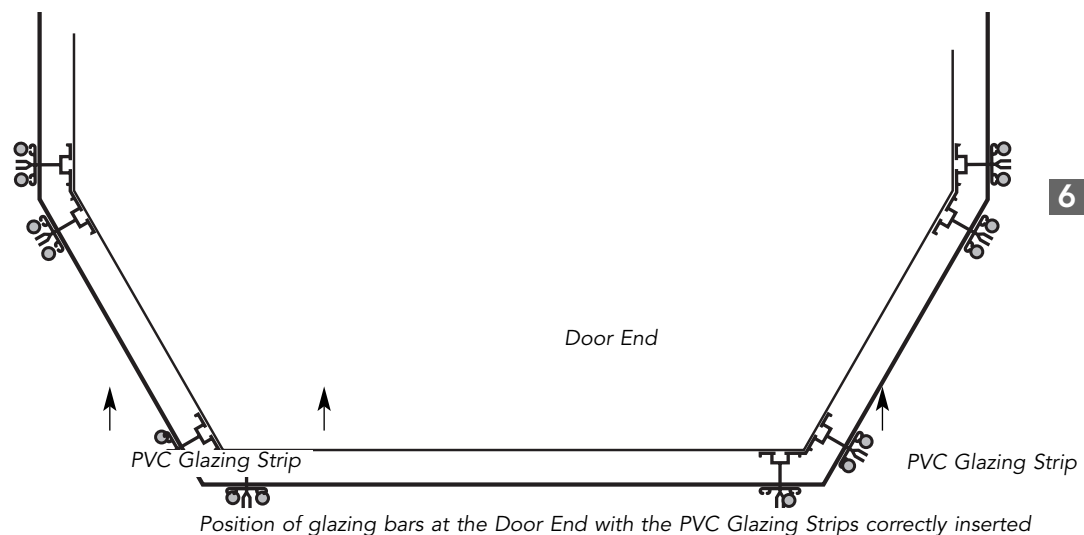
there is no centre glazing bar - this will be the door opening. (Please refer to diagram 5).

Next fit and secure the plain end purlin bar onto the previously fitted bolts, about 250mm down from the eaves. Check the bar is horizontal and tighten nuts (Please refer to diagram 5 on page 5).



With the four sides secure, it is safe to remove the supports holding the sides.

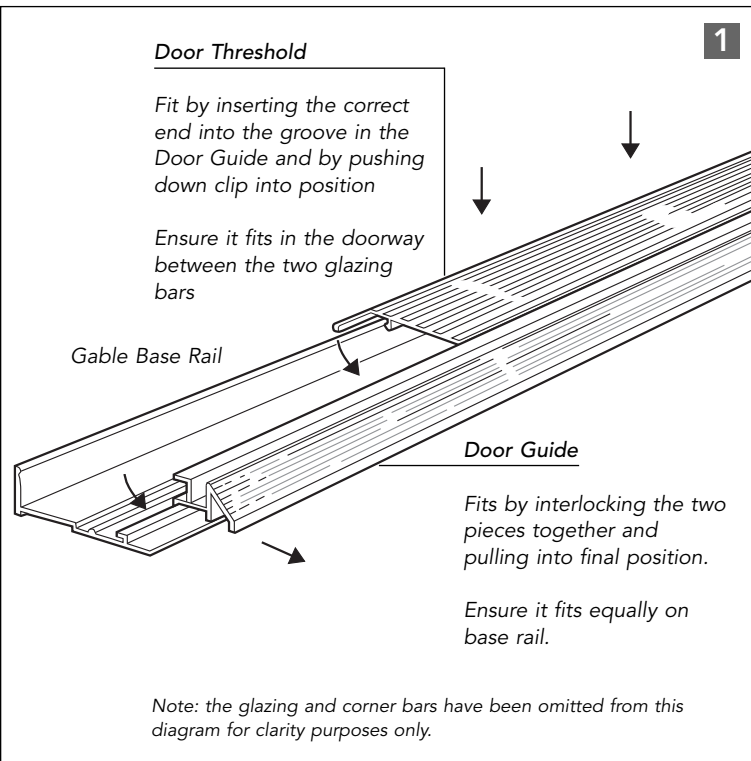
Locate and position the four Hip Gutter Brackets into each corner, secure by using four 10mm bolts and nuts in each bracket.



RIVIERA

DOUBLE DOOR GUIDE & THRESHOLD

From the double door kit locate the door guide and the door threshold



Position the Door Guide onto the Gable Base Rail to fit with an equal gap at either end. The door guide should 'sit in' comfortably onto the gable base rail groove. (Please refer to diagram 1).

Now fit the Door Threshold in the doorway, by placing the short angle end into the door guide. With downward pressure clip the threshold until it locks into position. (Please refer to diagram 1).

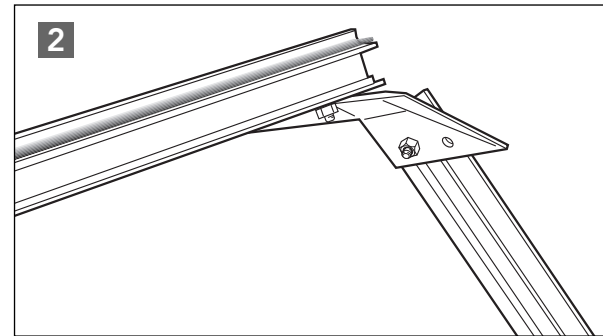
ROOF ASSEMBLY

Please refer to the appropriate section that relates to the model you are erecting.

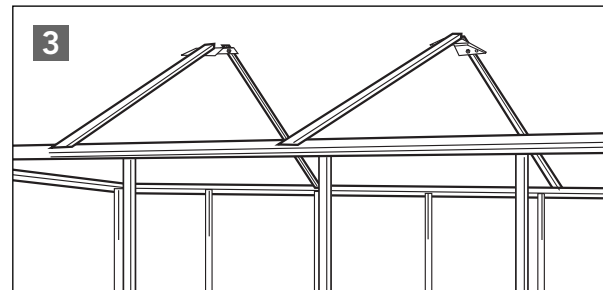
ROOF ASSEMBLY - 8x10 MODEL ONLY

The first part of the assembly can be done at ground level, and lifted into position to complete.

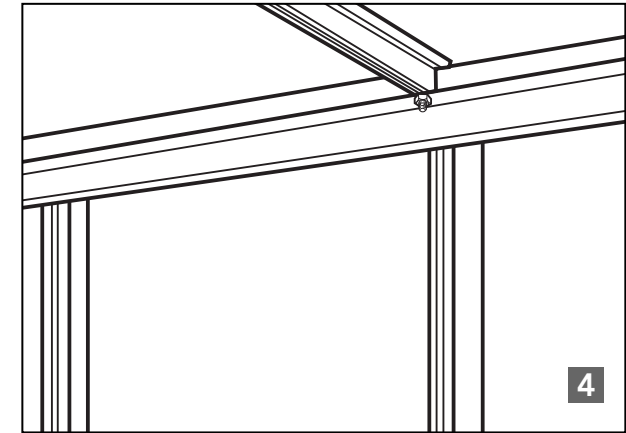
Locate the Ridge Bar, two Hip Ridge Brackets and four Hip Glazing Bars. Thread the PVC glazing strip into the glazing bars as described previously. Fix the glazing bars to the brackets with 10mm bolts and nuts inserted in the groove of the glazing bar. (See diagram 2).



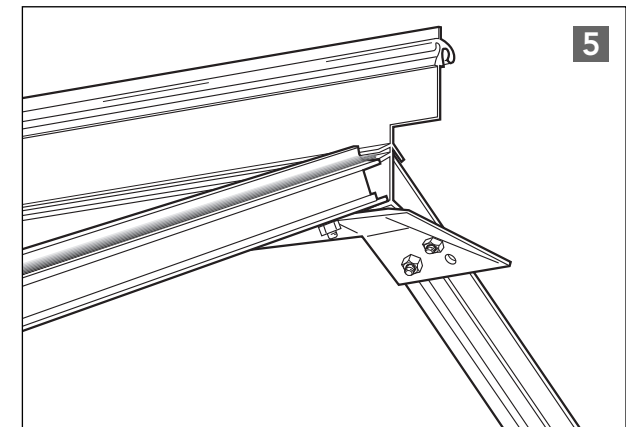
Tighten the bolts but leave a gap between the ends of the two glazing bars so that the ridge will fit between them.



With a helper you can now lift the bars and brackets into position and secure them to the hip gutter with a 10mm bolt and nut.



Using steps inside the building position the centre ridge bar and carefully loosen the bolts securing the glazing bars to the bracket and allow them to slide up tight against the ridge. Ensure the ridge is centrally positioned and tighten the bolts up.

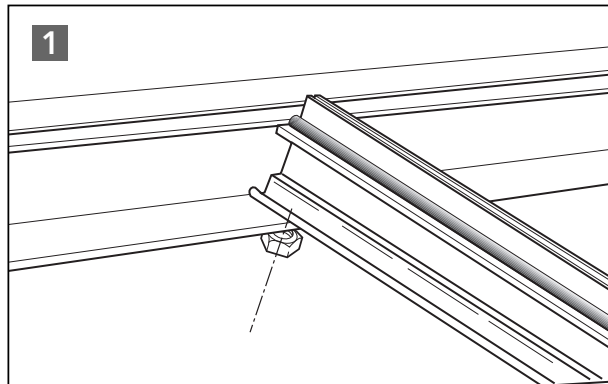


ROOF ASSEMBLY - 8x12 MODEL ONLY

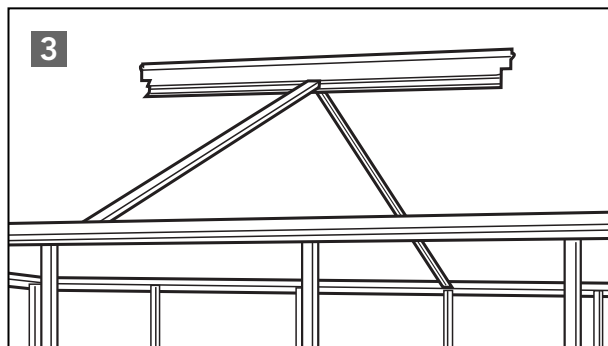
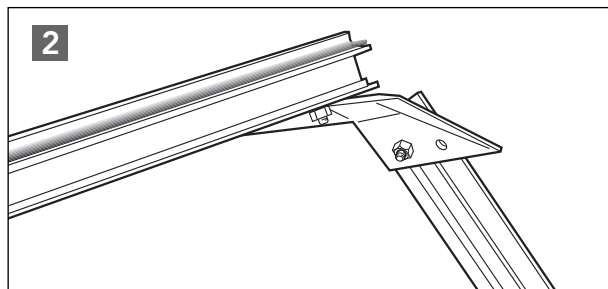
Locate the Ridge Bar six Centre Glazing Bars and two Ridge Brackets. Thread the PVC glazing strip as previously stated to both sides of all the glazing bars. This operation can be completed at ground level, ensuring the surface will not scratch the frame.

RIVIERA – ROOF ASSEMBLY

First fix two glazing bars to the centre of ridge by means of placing a 10mm bolt into the ridge bar and loosely secure.



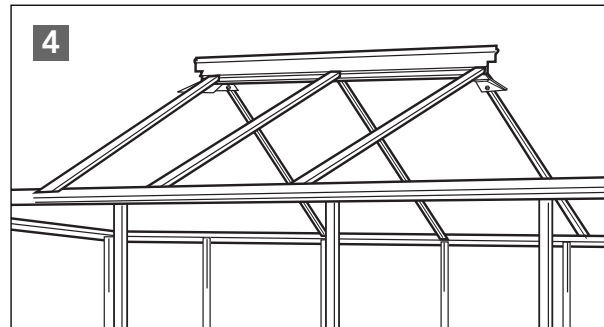
Next fix two of the glazing bars to each the ridge brackets with 10mm bolts and nuts inserted in the groove of the glazing bar. (See diagram 2).



Tighten the bolts but leave a gap between the ends of the two glazing bars so that the ridge will fit between them.

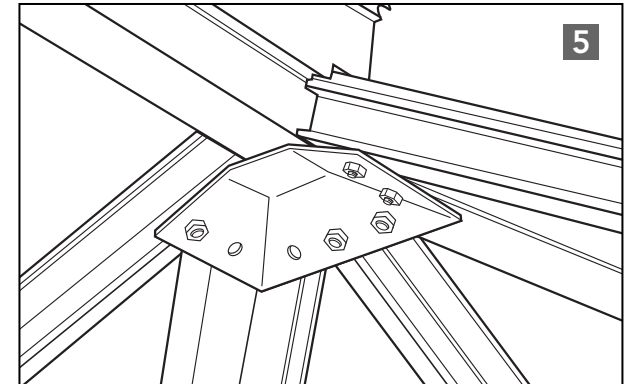
Lift the ridge bar with the two glazing bars attached into position and secure the glazing bars to the hip gutter with 10mm bolts and nuts. (See diagram 3).

Next fix the two ridge brackets and their glazing bars to the hip gutter. The ridge bar will slide between the glazing bar and the ridge bracket. You may have to loosen the nuts for this operation. Ensure the glazing bar is tight up against the ridge bar. Once in position tighten all nuts. The ridge bar should sit centrally and it is at this stage that minor adjustments can be made, if required.

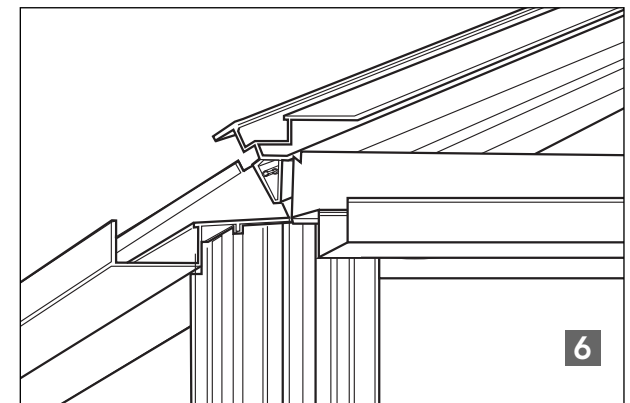


The following roof instructions apply to both models, and should be read in conjunction with the appropriate section on the previous page.

Next fit the two end ridge glazing bars, not forgetting to thread the PVC glazing strip into both sides of the bars. The angle cut end fixes to the hip ridge bracket with a 10mm bolt and nut in the groove and the square cut end in a similar manner to the middle of the hip gutter at the door end and the plain end of the greenhouse.



Identify the 4 hip roof corner bars. These roof corner bars do not require the PVC glazing strips. The end which has the largest rebate fits to the corner bracket, allowing the hip roof corner bar to overlap the gutter bar slightly. (See diagram 6).



Secure each in turn with 10mm bolts and nuts to the hip corner brackets and the ridge brackets making any minor adjustments to ensure a 'good' square fit in each corner. Adjust accordingly and re-tighten. The remaining eight 'short' glazing bars, with the PVC glazing strips in place can now be fitted with 10mm bolts and nuts.

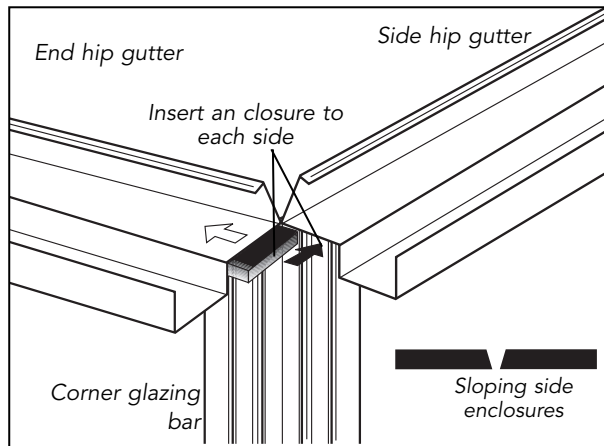
The tubular roof tie bars should be left until the glazing is completed

RIVIERA – ROOF VENTS & GLAZING

With the basic framework complete the next stage is to check with a spirit level that the structure is plumb, level and square in all planes before glazing.

FITTING THE GUTTER CLOSURES

Prior to glazing, fit the gutter closures to each corner, see diagram below.

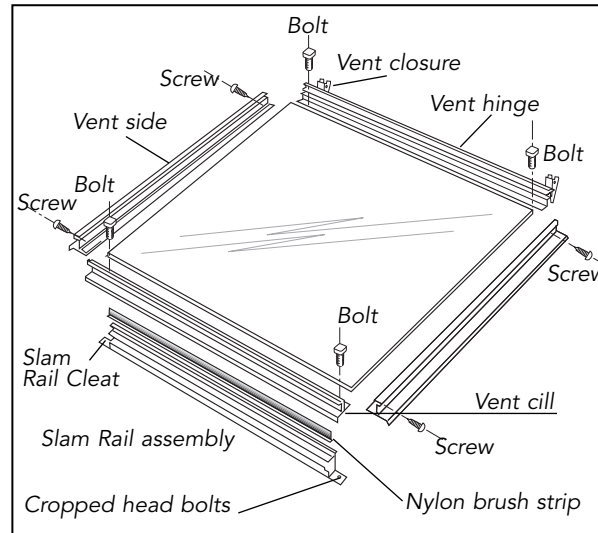


The rubber closures are supplied in pairs and must be separated by cutting with scissors or a knife before being inserted. It may also help to further trim small amounts off to get an easier fit. Insert closures as shown and push fully home, a small amount of water or washing up liquid may help.

ASSEMBLING THE ROOF VENTS

Identify the vent kits, fittings packs, two pieces of glass 610 x 610 mm and the boxes containing the automatic openers.

The slam rail first needs to have the nylon brush strip slid into the appropriate channel, protruding by approximately 5mm each end. Get two 15 mm bolts and nuts (from the supply of fittings in the Automatic



Opener Box, not the Vent Smalls Pack) and temporarily fix them in the centre of the groove of the slam rail. These will be used later for fixing the openers.

From the Smalls Pack slide a 10mm square headed bolt into each end the same groove and fix one end of the cleat to it. Fix a cropped head nut and bolt into the other hole in the cleat and put these and the openers out of the way for use later.

Now assemble the vent (see illustration). First fit the two side members to the vent hinge with 10mm bolts and slide the glass into position. Now fix the vent cill with 10mm bolts. Use the self-tapping screws to fix through the holes at each corner, not forgetting to fix the vent hinge closures at the same time.

Check the vent is square, all fixings tight, and then run a bead of silicone (supplied), on the outside, around the perimeter of the glass and the edge of the frame to seal any gaps.

Loosely fit the screws into the Vent Hinge Stops, and being careful not to lose them, put these and the vents to one side for later.

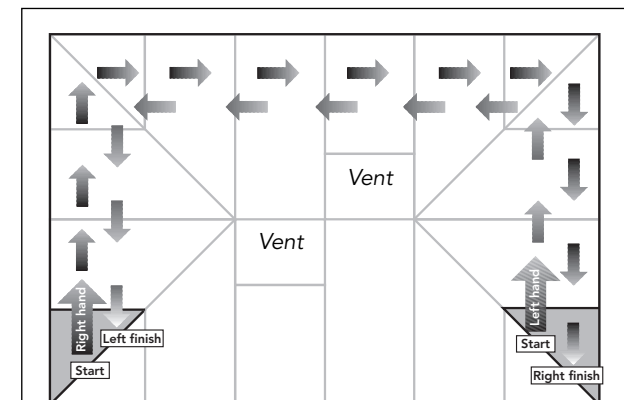
GLAZING THE ROOF

NOTE: Before glazing it is advisable to separate the various bar caps and covers, required for the roof plus the self-tapping screws.

Please use protective gloves when handling all glass and take care when lifting into position.

The plan in this section is to glaze a roof end, a roof side and the other roof end of the greenhouse. Then to stop glazing in order to fit the first roof vent, the finials and cresting and to seal the ridge ends before glazing the rest of the roof.

The starting point should be at a front or back corner with the smallest triangular piece of glass and then work around the house in one direction. We suggest right handers work in a clockwise direction and left handers anticlockwise.



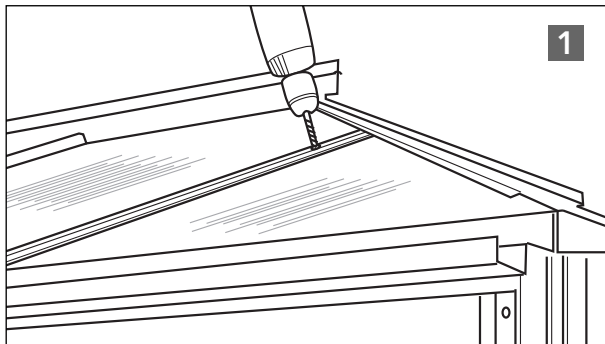
This is an example of how to proceed with the glazing of your greenhouse. Right hand clockwise, left hand anti-clockwise.

The sample shown is a 12' model, use the same principle on the 10' model.

RIVIERA – GLAZING THE ROOF & FINIALS

The glazing plans on page 16/17 identifies the glass sizes you require.

Offer the first piece into position and check it sits correctly before positioning the next piece. Secure the appropriate piece of bar capping between the two panes with a self-tapping screw in each hole and screw down firmly into the glazing bar. Once tightened, place and fix the bar cap cover by pressing down firmly to clip it into position.



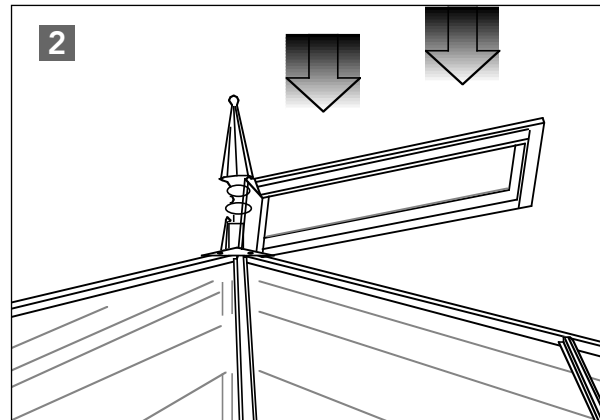
Work your way round the greenhouse in a similar manner until you get to the section where you intend to fit the first roof vent. A shorter piece of glass is placed in the bottom half of the vent section and a full length bar cap and cover fixed over the glass and the open aperture for the roof vent. Do not try and fix the roof vent at this stage.

Continue glazing the roof until the three sections of the roof are completed.

FIXING THE FIRST ROOF VENT

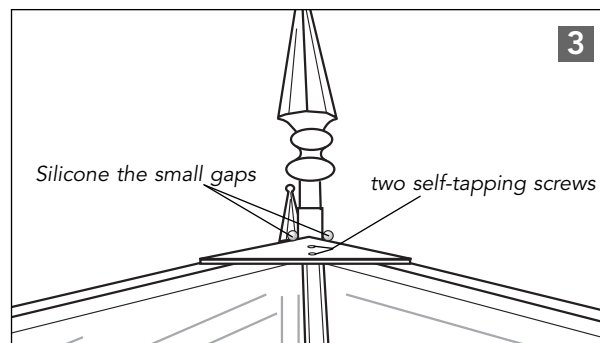
Fix the vent slam rail in position above the small piece of glass already fitted. From inside the greenhouse slide the cropped head bolts into the grooves of the glazing bars either side of the vent opening and slide rail down onto the edge of the glass to ensure a good tight fit before tightening the nuts to secure.

Next the roof vent and vent stops need to be fitted by sliding them into the groove provided in the ridge (See diagram). A vent stop goes either side of the vent and when the vent is centrally positioned over the aperture the screws on the stops should be tightened to stop the vent moving sideways.



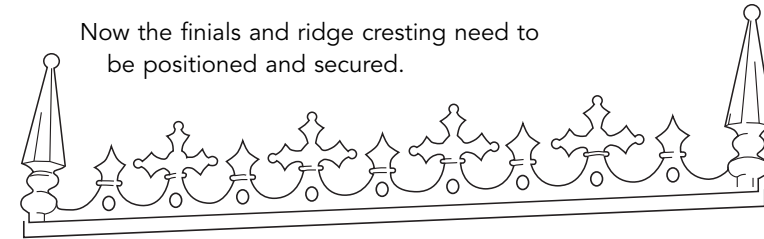
SEALING THE RIDGE ENDS & FIXING THE RIDGE CAPS

While you can still get to the ridge ends quite easily from steps inside the greenhouse, you need to silicone the small gaps between the ends of the ridge glazing bars and end of the ridge. Then fit the ridge cap. (See diagram 3). Before fitting with two self-tapping screws through into the bar cap cover, **ensure the pointed end of the cap is tight up against the end of the ridge.**



FINIALS AND CRESTING

Now the finials and ridge cresting need to be positioned and secured.



Before starting it is worth measuring the ridge bar and then laying out the finials and cresting to create the desired effect.

One of the 'male' finials requires the tongue removing and the last cresting will have to be trimmed in half to get the correct finished length. Centre the crestings on the ridge bar and secure the finials, in position, with the supplied silicone.

RIDGE FINIAL COVERS

Black Plastic "Robinsons"

It is probably easier to fit one of the ridge end covers to the end of the ridge that you won't be using to slide the other roof vent in from. It may need trimming to fit and silicone to help hold it in place.



RIVIERA – COMPLETING THE ROOF GLAZING & SIDE GLAZING

GLAZING THE REST OF THE ROOF

Work inwards from the corners and fix the glass as before. Stop before you position the small piece of glass that goes beneath the roof vent. Place the bar capping over the pieces of glass either side of the section which will have the roof vent in it and **ONLY FIX WITH SELF TAPPING SCREWS IN THE TOP TWO HOLES BELOW THE RIDGE.**

Leave the lower part unfixed and without the bar cap cover over it so the final piece of glass can be slide in later.

Now fix the other roof vent and when central secure the vent stops.

While you can still reach fit the other ridge finial cover (Robinsons black plastic).

Now slide in the piece of glass beneath the vent, screw down and then fix the bar cap cover. You will have to hold the roof vent open from inside to do this.

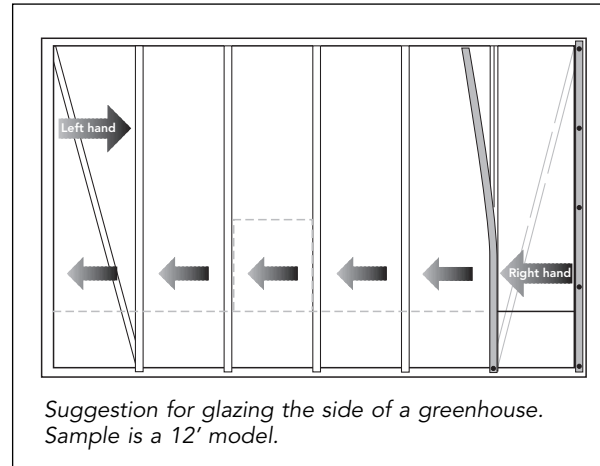
Finally fit the vent slam rail. Leave the fitting of the Automatic Openers until later.

GLAZING THE SIDES AND PLAIN GABLE END

Plan where you are going to locate the louvre/s and assemble these as per the instructions on page 20.

As with the roof you will find it easier to work clockwise if you're right-handed or anticlockwise if left-handed. Identify the glass from the glazing plan on page 16, as well as locating the corner bar capping and its specific covers plus the standard bar capping and covers. Bar capping will almost be the same length as the glazing bars.

You will also need the separator strips.



Suggestion for glazing the side of a greenhouse. Sample is a 12' model.

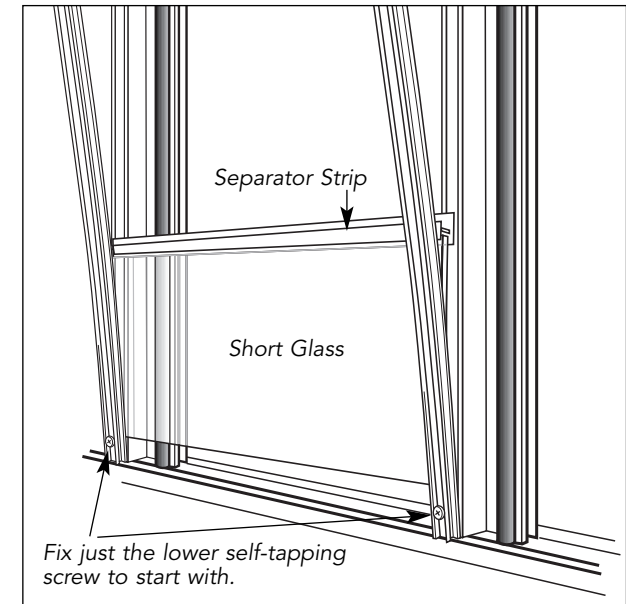
Starting from one corner select a corner bar capping and secure with **ONLY** one self tapping screw at the bottom only at this stage. Repeat this with a standard bar capping. Do not over tighten the screws.

Position the first 610 x 305 piece of glass, fitted with a 4mm separator strip, between the capping and the glazing bars. Next carefully place the large pane - 1628 x 610 - into the separator at a slight outward angle. The top of the glass can now be gently positioned under and into the hip gutter, in the same motion push the separator joint inwards until glass is in final position.

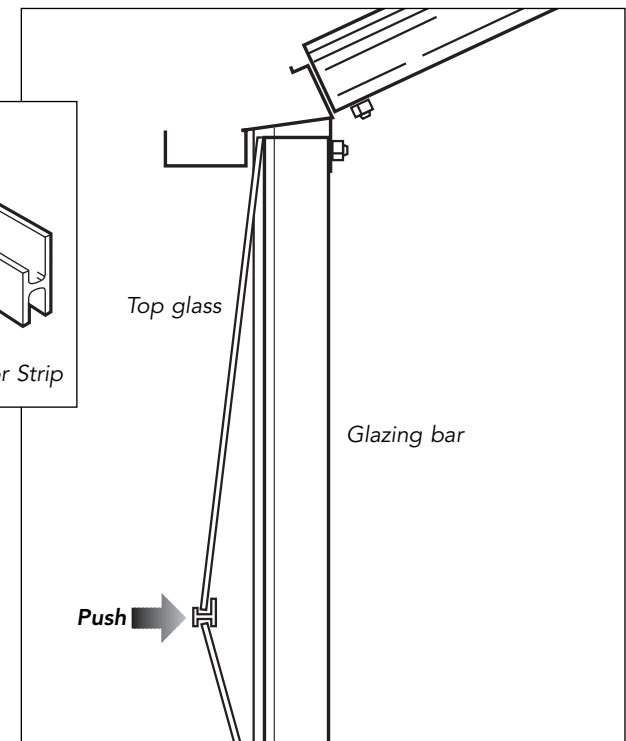
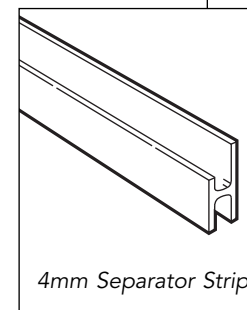
Next, secure the glass panels by fasten all the self tapping screws in the corner capping bar only.

Continue fitting the glass panels in this manner. Securing the standard bar capping which holds two pieces of glass in place, finishing the row with another corner bar capping.

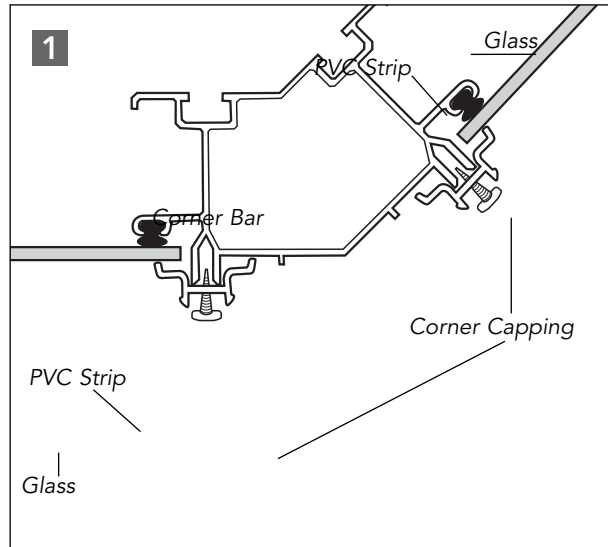
Complete the other side and the plain gable end.



Fix just the lower self-tapping screw to start with.

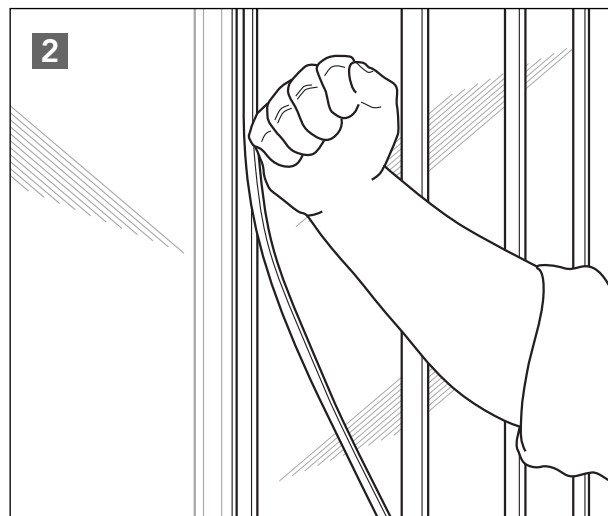


RIVIERA – DOOR TRACK



GLAZING THE DOOR END

You will need to get the bar capping and covers from the double door kit for the two glazing bars either side of the door opening (slightly shorter than others) as well as two sets of corner caps and covers.

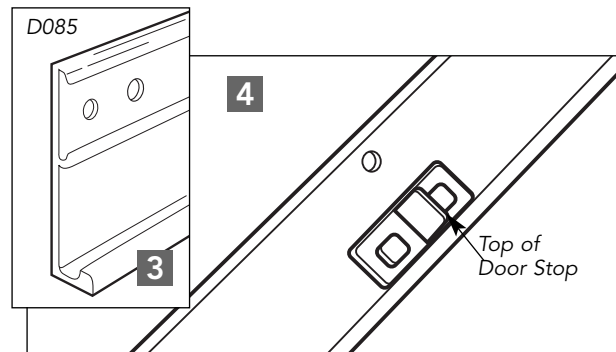


In the same manner as before fit the appropriate glass into the sections either side of the door opening.

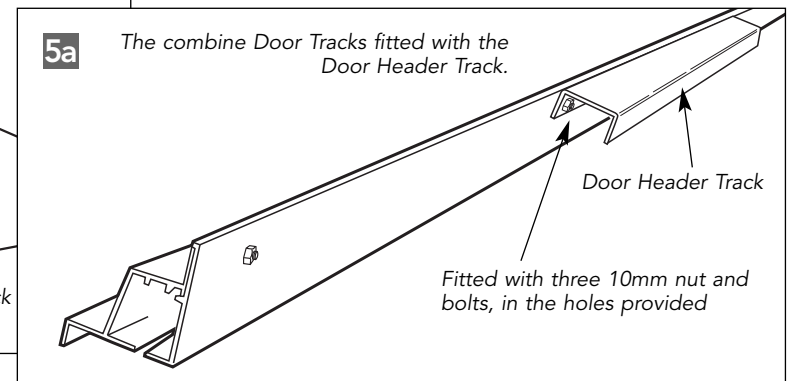
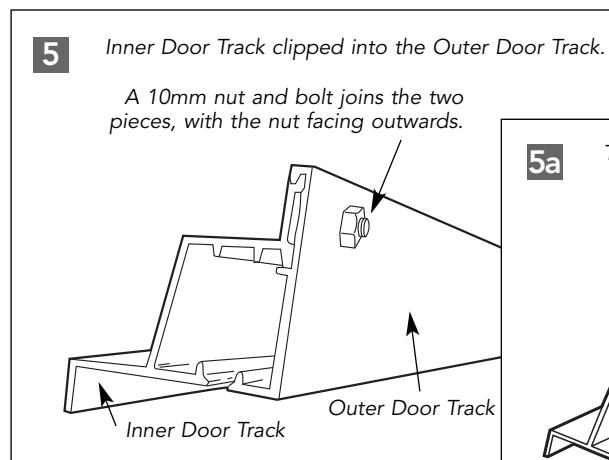
Now go around the whole building and fit all the bar cap covers. (See diagram 2).

FITTING THE DOOR TRACK

Locate the Inner Door Track, Outer Door Track and Centre Door Stop. (See diagram 3/4). Using short bolts secure the stop to the track using the holes provided.



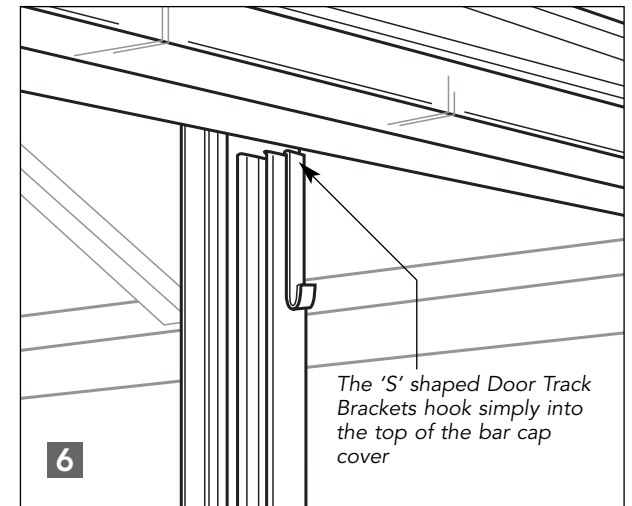
NOTE: The stop is slightly off set and the off set should face up towards the single hole.



Fix the outer and inner tracks by clipping them together. Put a 10mm bolt in each of the holes near the ends. (See diagram 5 and diagram 3 on page 13).

Identify Hip Double Door Header, two Doorway Header Plates, and Door Header Bracket.

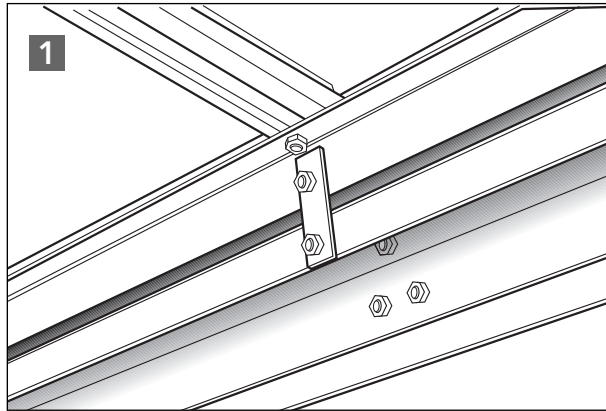
Fix the side of the door header with 3 holes in it to the door track. with 10mm bolts. (See diagram 5).



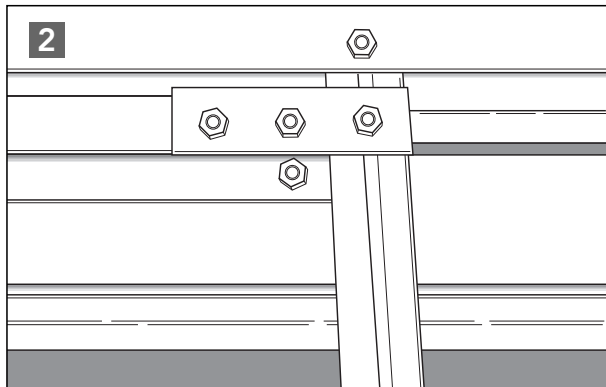
Identify the two Door Track Brackets ("S" Shape) and hook one end into the top of the bar cap covers either side of the door. (See diagram 6).

RIVIERA – ASSEMBLY OF DOORS

Fix the Door Header Bracket with a 10mm bolt in the hole in the gutter at the centre of the doorway. Note the bracket is not symmetrical and fits as shown. (Diagram 1).



Now with someone helping you offer the assembled door track up in position and secure it to the bracket with a 10mm bolt.

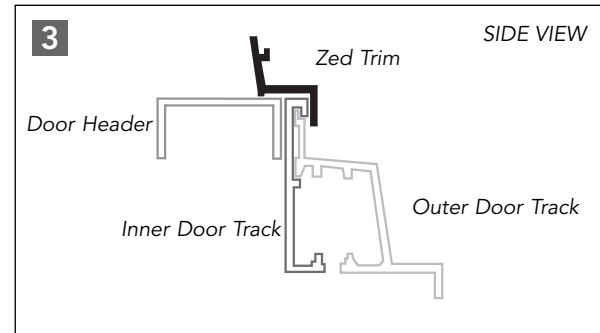


Fix the doorway header plates, using a cropped head bolt in the glazing bar and two 10mm bolts in the other two holes. (See diagram 2).

Ensure the underside of the track is sitting on the 'S' shaped brackets.

Check everything is square and double check all bolts are done up tight.

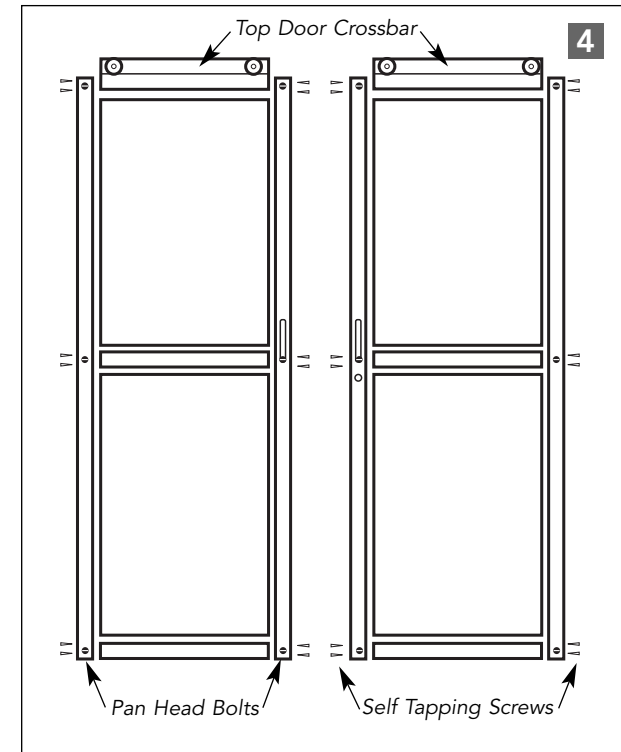
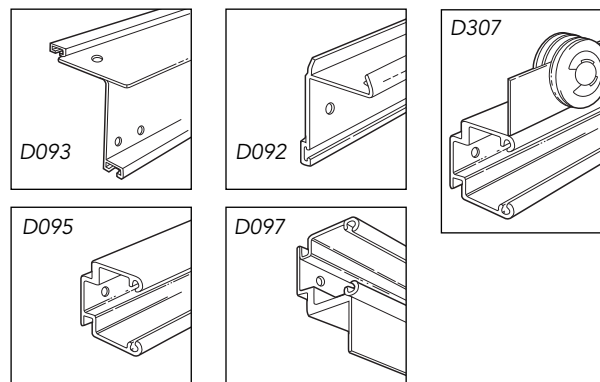
Screw through the very and holes of the door track with self tapping screws into the bar capping behind it.



The plastic Z Trim can now be pushed into place. (See diagram 3).

ASSEMBLY OF THE DOORS

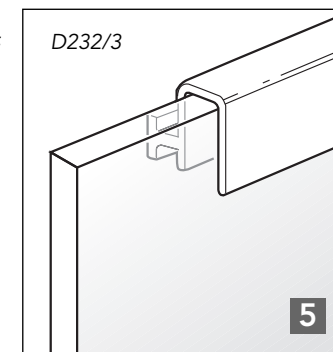
From the box labelled 'Door' locate the four Door Stiles, two plain plus plus one with lock pre-fitted and one with lock strike plate pre-fitted. REMOVE the key, attached to the stile, with the lock and keep safe. Also find the two Door Cross Bars, Door Bottom Bars and Door Top Assemblies, with pre-fitted rollers, plus the Smalls Pack.



Lay the parts out on a suitable flat surface as if viewed from inside the greenhouse. (See diagram 4).

Loosely fix the Door Cross Bar that goes in the middle of the door with Pan Head Bolts and nuts. Note the Cross Bar fits with the glass recess facing down.

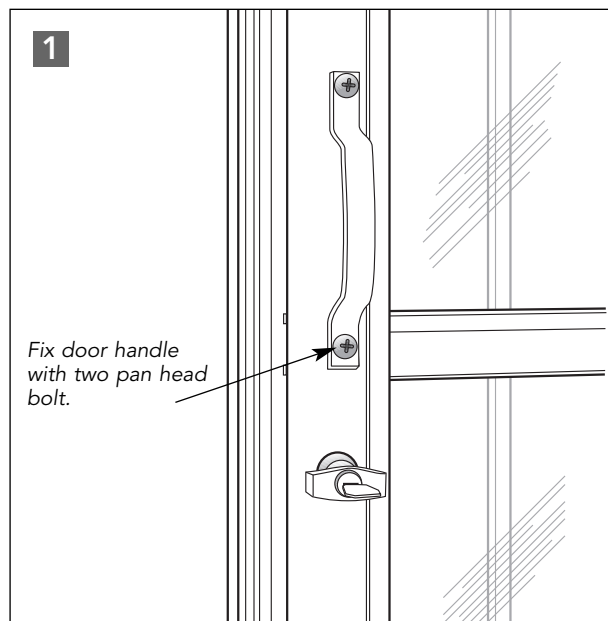
Locate the glass to go in the bottom section of the door (922 x 555mm) and the PVC Edge Strips (905mm long). Refer to diagram 5 - and fit the PVC Edge Strips onto the glass, allowing an even amount of glass to stick out at each end.



RIVIERA – FITTING THE DOOR

Now slide the edging strips into the grooves in the Door Stiles so the end of the glass fits into the recess of the Middle Cross Bar. Now fix the Bottom Door Cross Bar with Pan Head Bolts.

Fit the appropriate PVC Edge Strips to the piece of glass that goes in the top part of the door, again with an even amount of glass exposed at the top and bottom. Locate the PVC Edge Strips in the grooves of the Stiles and slide the glass into place. Now fix the Top Door Bar.



Check the pan head bolts are finger tight and lift the door onto its side and screw door stiles to the cross bars through the holes provided using self-tapping screws.

Fix the Door Handle through the pre-drilled holes after loosening of one of the bolts already occupying the lower hole. Now tighten up all the bolts.

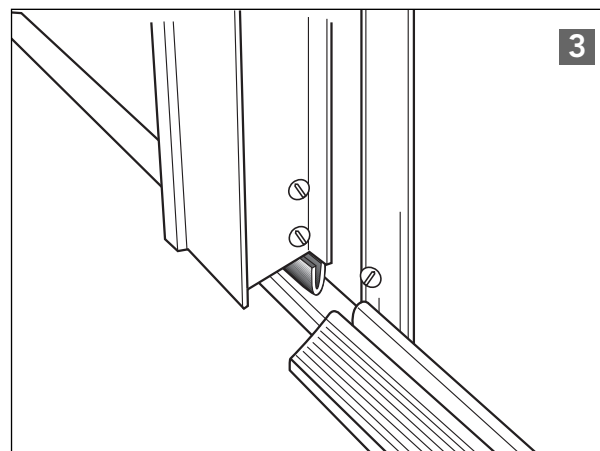
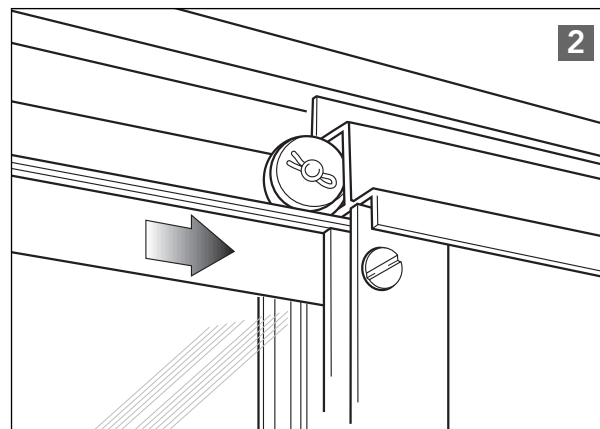
Repeat this procedure to complete the other door.

Fix the Nylon Door Guides centrally on the Bottom Cross Bar.

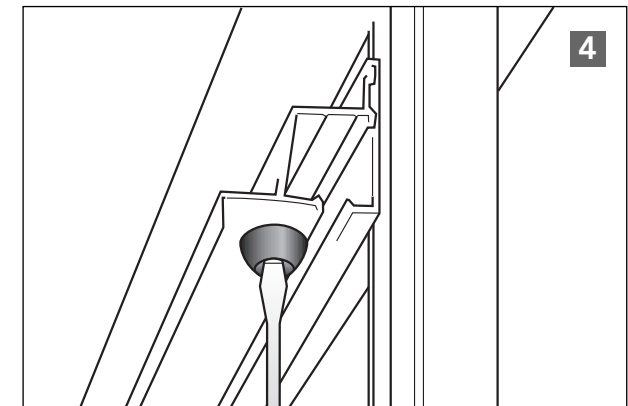
Slide the Nylon Brush Strip into the groove on the Door Style and cut to length. Crimp the bottom of the groove to prevent it slipping out. These will seal against the door posts when the doors are closed.

FITTING THE DOOR

Slide door wheels into the top track, at the same time ensuring the nylon door glide engages in the door guide.



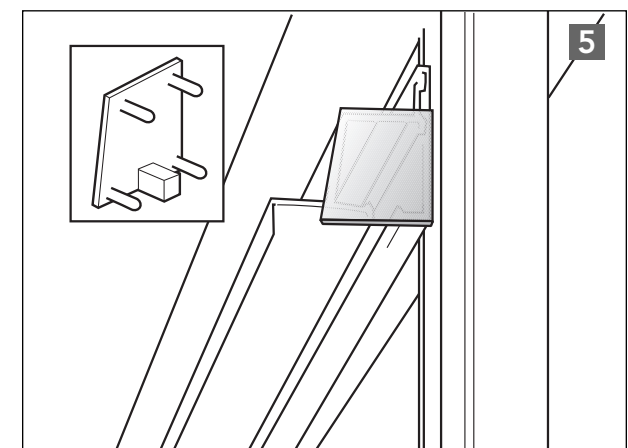
Slide on completely and repeat process for other door. Check that both doors run freely, if not then check that the outer track is sitting squarely on the inner track.



Check that door track is parallel to door guide.

When the doors are running to your satisfaction, fit a rubber door stop to each end of the track in the holes provided using M4 x 10mm stainless steel nut, bolt and washer.

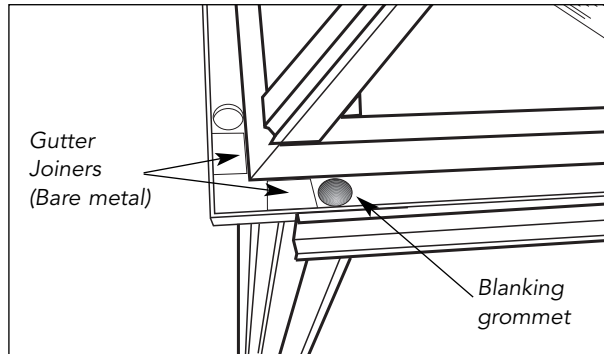
Finally push the two plastic door track covers onto the ends of the door tracks.



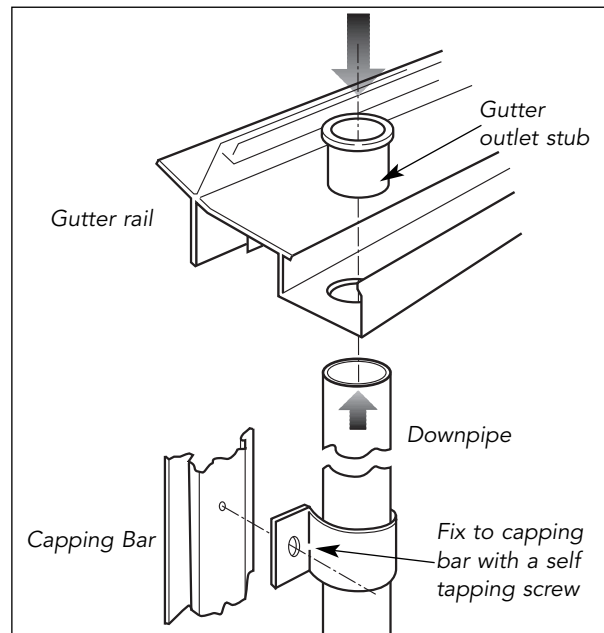
RIVIERA – GUTTERING, BASE BRACKETS + FINISHING

COMPLETING THE GUTTERING

The four Gutter Corners (painted) and eight Gutter Joiners (bare metal) need to be located. The joiners can be sharp so be careful when handling them.

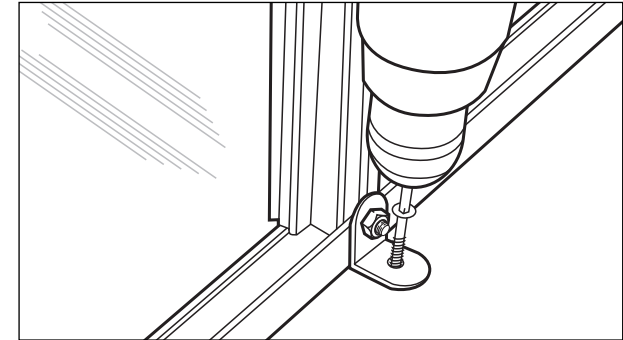


Fix the corners by pushing the joiners down into the gutter and corner until they click home and secure the corner in position. Then run a bead of silicone on the inside of the gutter at each end of the joiner.



Fit a blanking grommet in the holes in the gutter at the door end. The two down pipes can be fitted in any of the other locations you wish. Fit the gutter outlet stubs from above at your chosen locations and grommets in all the other holes.

Fit the angled rain water pipe outlet onto the end of the down pipe and push the other end onto the gutter stub (see diagram 2). Finish by drilling a small hole through the bar capping and using a self tapping screw to fix the pipe bracket at the appropriate height.

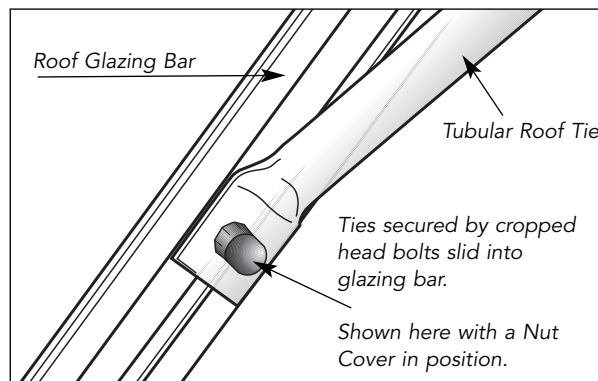


FITTING THE AUTOMATIC OPENERS

Remove the opener/s from their box and follow the manufacturer's instructions.

TUBULAR ROOF TIES

The 10' model has two, the 12' has three, which go in the apex of the roof. Fit cropped head bolts to each hole and fix them to the roof glazing bars. Ensure they are horizontal and then tighten up the bolts. (See diagram 1).



BASE BRACKETS

When the greenhouse is in its final position, check that it is square, diagonals are equal and the base rail overhangs evenly all around.

Position the base brackets at the base of each glazing bar. Please note that NO bracket is required at any corner.

Secure the base bracket to the glazing bar (as shown) through slotted hole in bracket, push the bracket down to touch the concrete and tighten nut.

Drill through hole in bracket with a 7mm masonry drill to a depth of 50mm.

Insert a rawlplug and secure the bracket with the supplied 2" woodscrew. (See diagram 4).

NOW FIT THE STAGING AND/OR SHELVING by following the relevant instructions on pages 18 and 19.

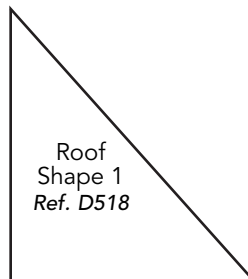
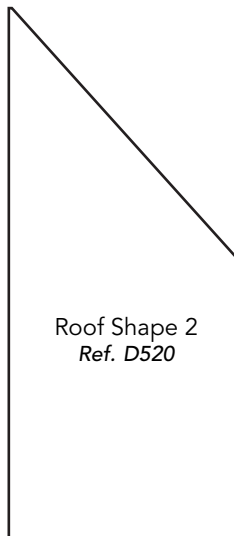
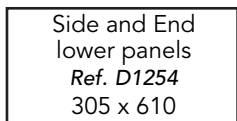
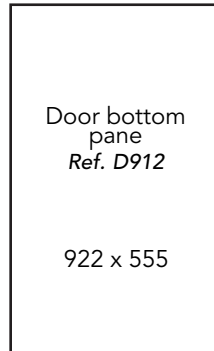
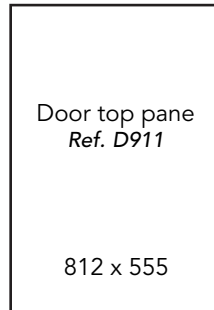
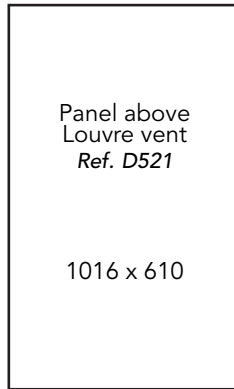
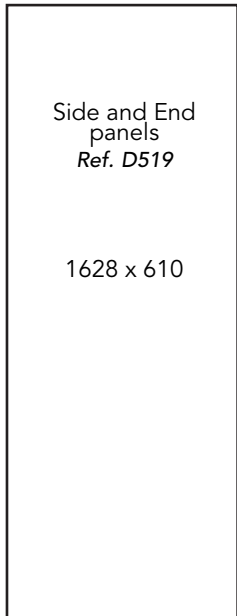
NUT COVERS + BADGE

The greenhouse is all but complete, with just two jobs left to do. Go all round the building and fit the covers over every nut that is visible in order to produce a tidier finish. Finally fix the name badge centrally above the doors.

Congratulations, a job well done and thank you for purchasing a Robinsons Greenhouse, which we hope, will give you many years of gardening pleasure.

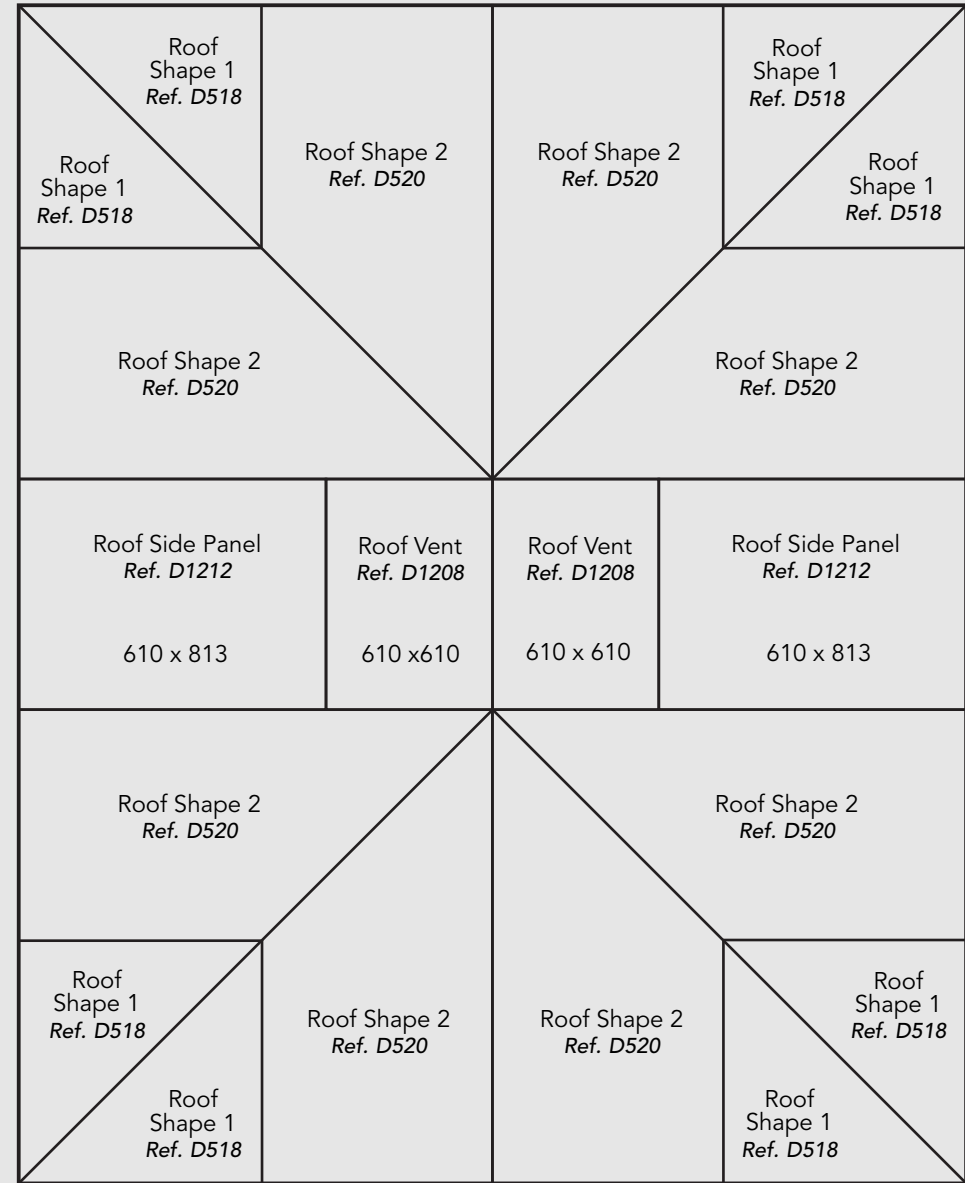
If you have any comments on these instructions please advise our Technical Department at the address on the back cover.

Measurements in mm.



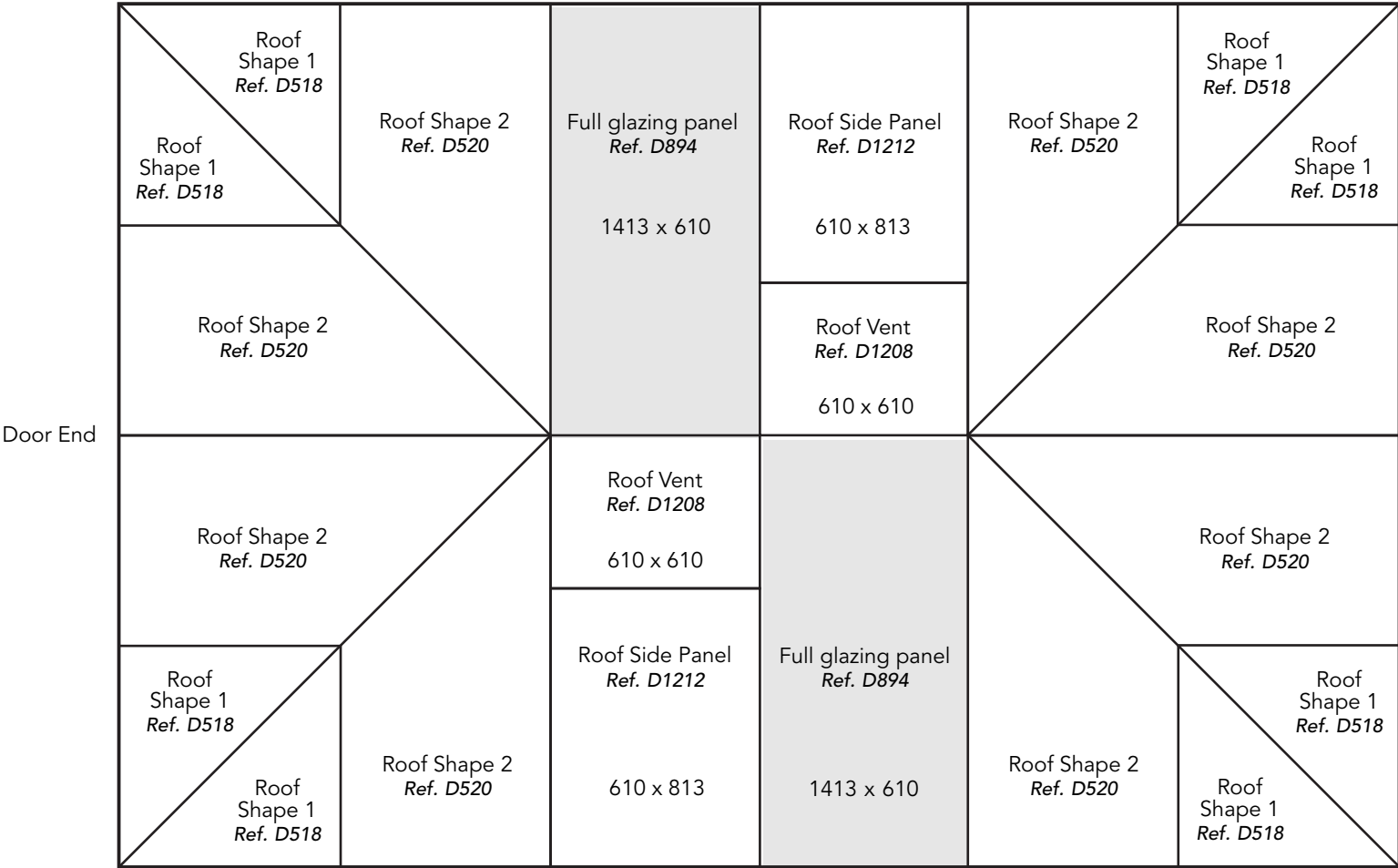
These sizes and reference numbers are common to both the 10' and 12' models.

The 12' roof glazing plan is on the next page.



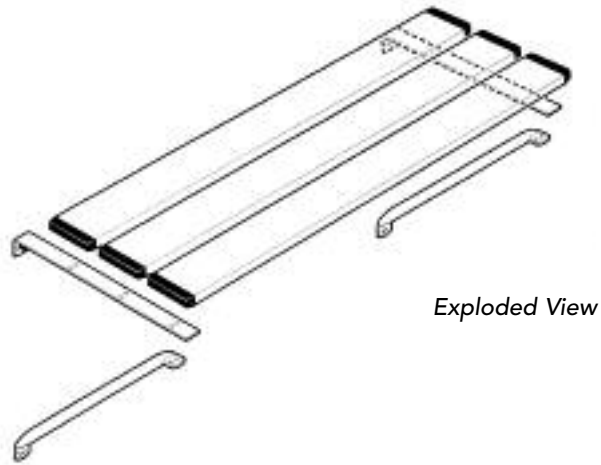
Door End

Measurements in mm.



RIVIERA – HIGH LEVEL SHELVING ASSEMBLY

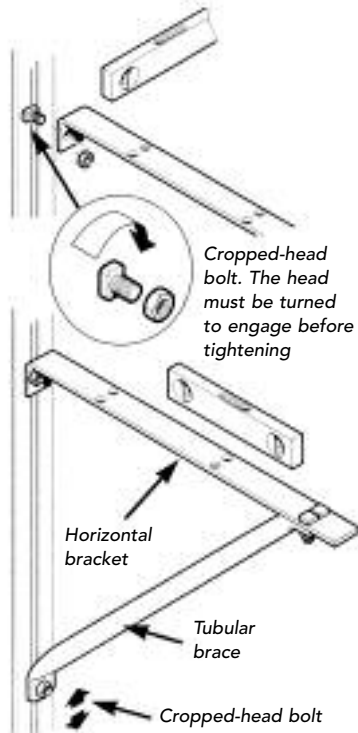
3-Slat - 11" · 28cm Deep Shelf



ONE

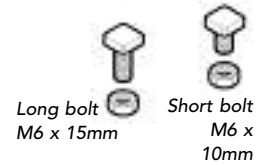
Fix the horizontal brackets to aluminium greenhouse glazing bars spaced at approx. 2ft (60cm) centres using cropped-head bolts. Ensure these are correctly engaged in the nut groove before tightening. Ensure adjacent brackets are level.

Temporarily secure the top of each tubular brace to the end of the horizontal bracket. Position and fix the lower end of each brace so that the bracket is level.



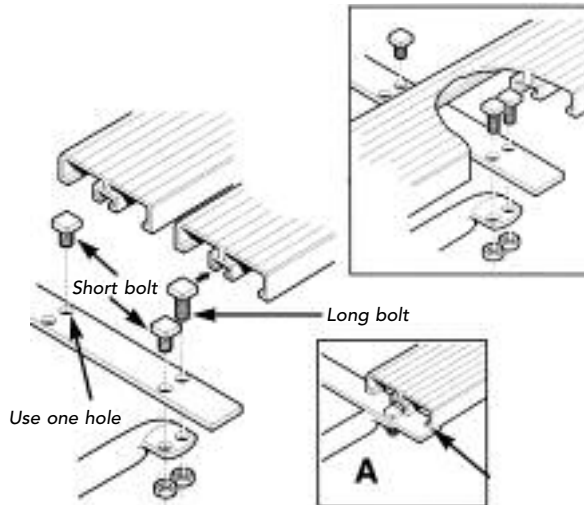
TWO

Feed bolts as required into central groove on underside of slat.



Bolt requirement:
Front slat - 1 long bolt each end, plus 2 long bolts for each mid-bracket.
Other slats - 1 short bolt for each bracket.

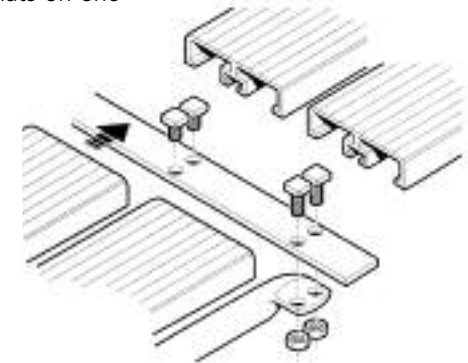
Secure each slat in turn starting from one end (see detail A). On front slat ensure that the long bolts go through the tubular braces.
A short bolt (beyond end of slat) completes fixing of outer braces.



THREE

Joining two sections

The shelf may be easily extended as required by joining slats on one bracket.

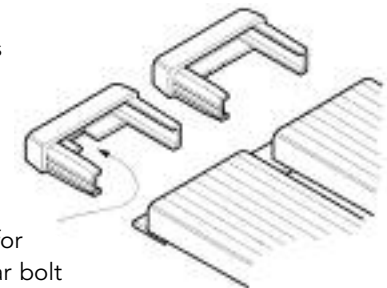


FOUR

At ends of runs

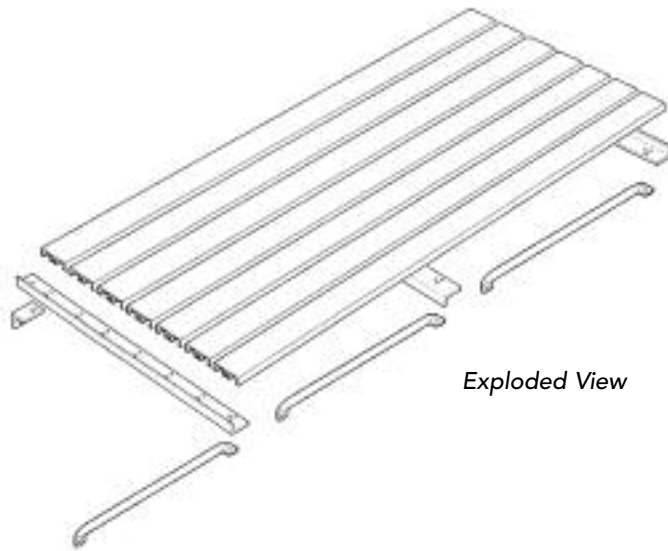
Push end bungs into slat to finish.

Remove cut out, with sharp knife, on bung for front slat to clear bolt head.



RIVIERA – STAGING ASSEMBLY

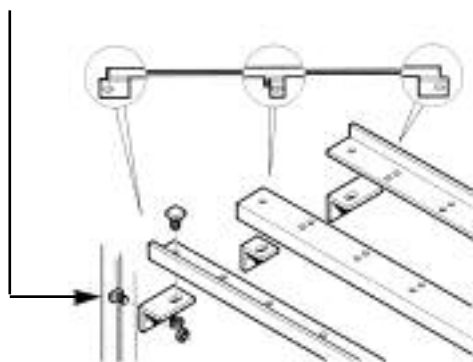
7-Slat - 25" · 63.5cm Deep Shel



Exploded View

Greenhouse Fixing

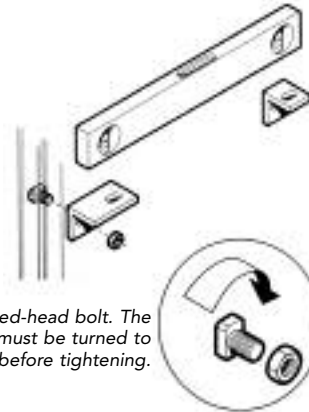
Using the nut groove in aluminium glazing bars at approx. 2ft (60cm) centres. Use the appropriate cleat as indicated.



ONE

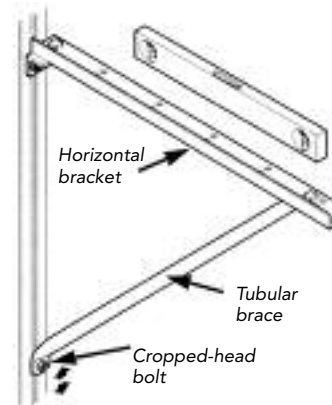
Fix the wall cleats using cropped-head bolts (ensuring that they are correctly fully engaged in the nut groove) or using wall plugs and screws as appropriate. Ensure adjacent brackets are level.

Cropped-head bolt. The head must be turned to engage before tightening.



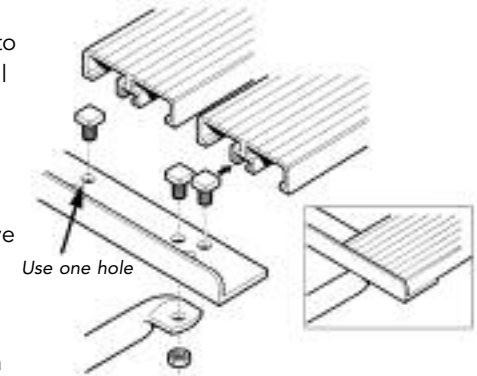
TWO

Fix the horizontal brackets ensuring the flanges close off the ends of the slats. Secure the top end of the tubular brace to the single hole near the end of the bracket. Position and fix the lower end of the brace so that the bracket is level.



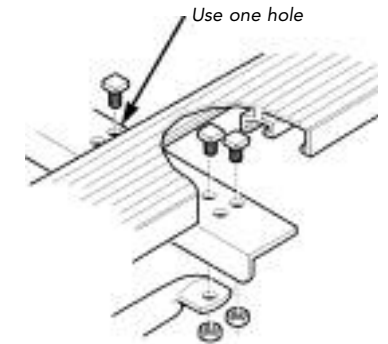
THREE

Secure slats to the horizontal brackets as shown. The bolt heads slot into the central groove in the underside of each slat. Feed in extra bolts, one for each end and one for the centre.



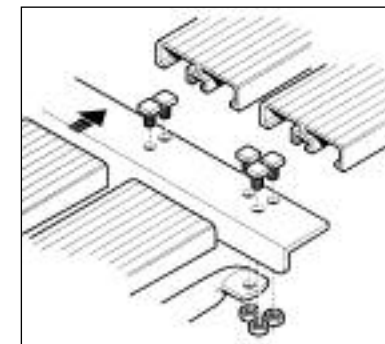
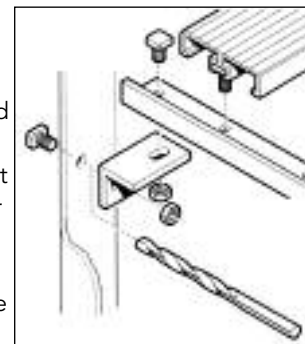
FOUR

The central horizontal bracket is mounted with flat top on to which the slats are fixed. The second of each pair of holes is only used for joining slats (see below). Once all the slats have been assembled, check for squareness and then securely tighten all nuts with a 10mm spanner or nut driver.



Fixing into greenhouse corners where there is no nut groove

The glass must be removed prior to drilling 7mm holes in the glazing bar to accept the offset cleat and tubular brace. This will provide clearance for typical greenhouse bracing. In rare cases it may be necessary to shorten the length of the slats using a hacksaw.



Joining two sections of staging

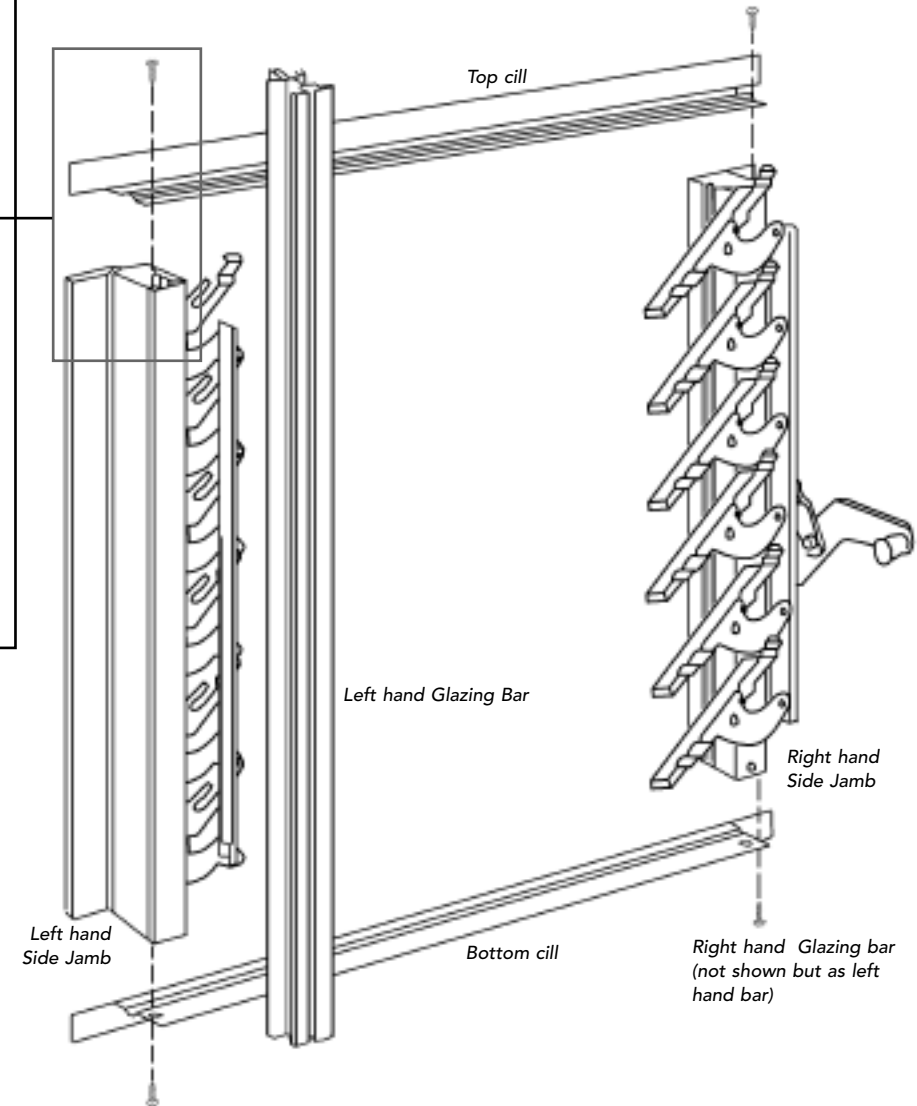
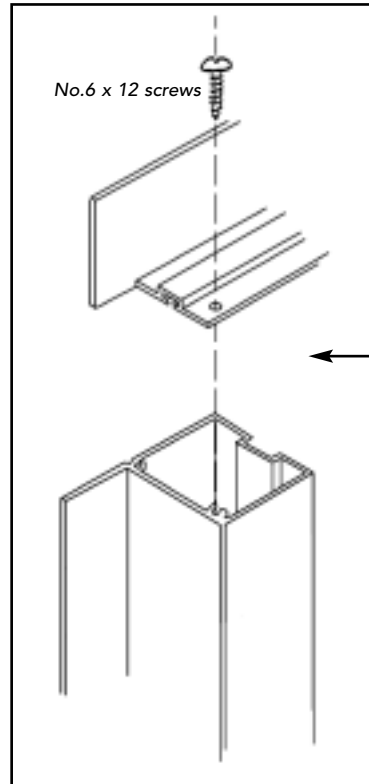
The offset cleat at the join has to be replaced with small intermediate cleat. The horizontal bracket is then turned over so that the flat top supports the end of the two sets of slats. Secure each slat with a bolt.

Robinsons Louvre Installation Instructions

D361 Louvre Kit

INSTALLATION


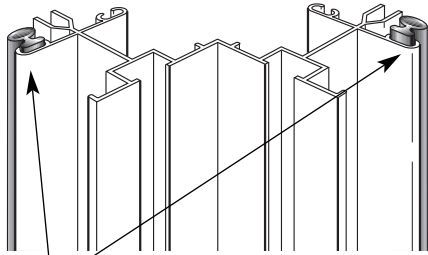
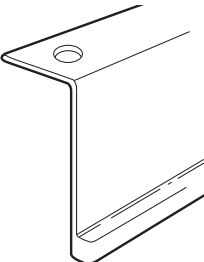
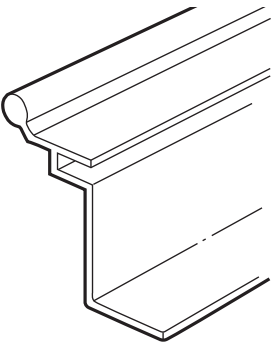
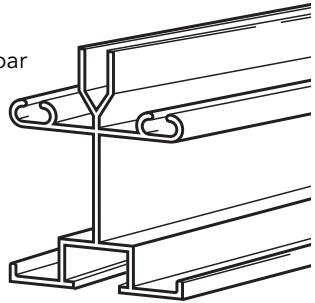
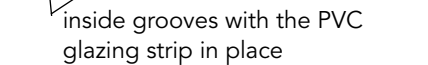
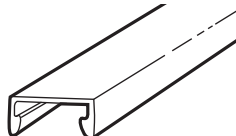
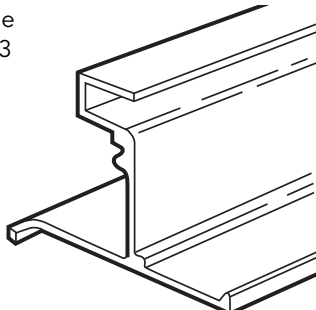
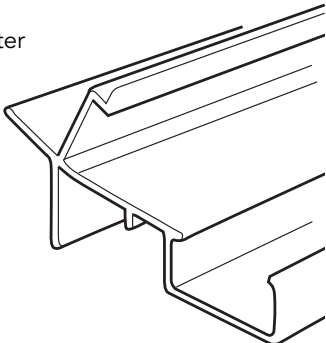

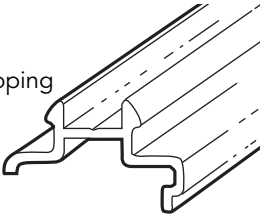
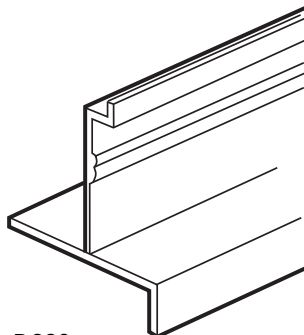
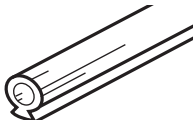

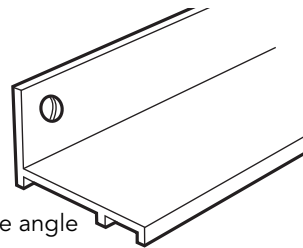
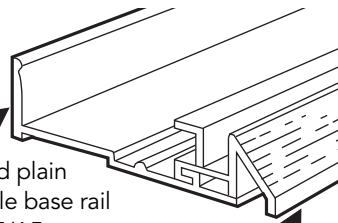
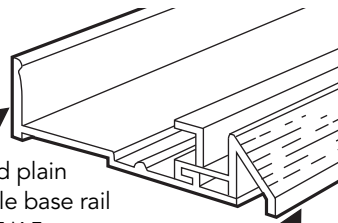
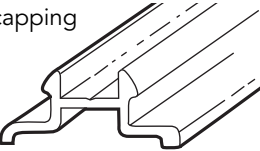


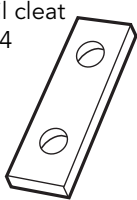
- 1 Screw self-tapping screws through holes in the top and bottom cill members into the 'C' groove of the side jambs to form a complete frame.
- 2 From outside the greenhouse, fit the frame in place, fixing into position using the plastic bar caps and screws.
- 3 Open the louvre and slide glass blades into position from inside the greenhouse. To avoid excessive movement of glass, bend the retaining clips so that the louvre blade is firmly gripped.



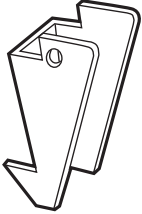

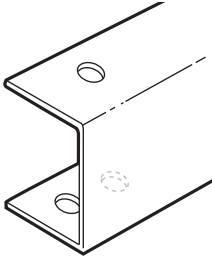
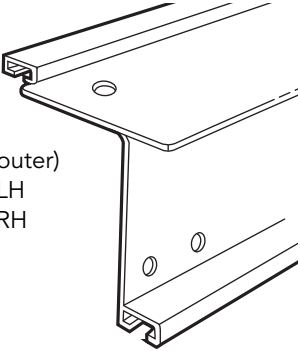
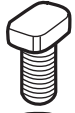

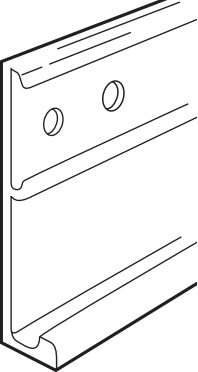
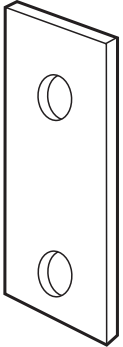
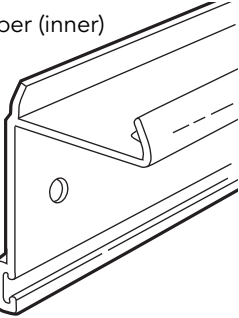
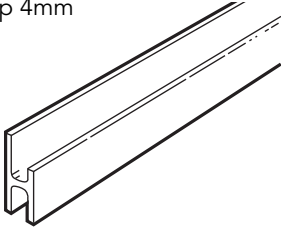
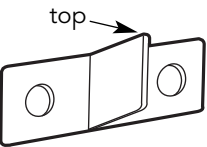
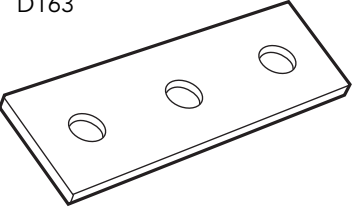
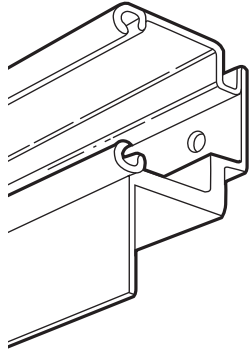

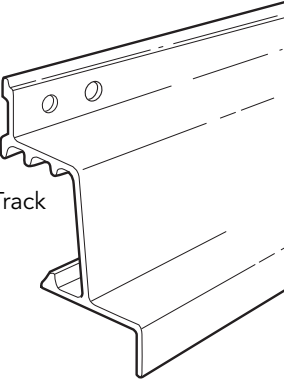
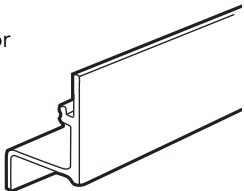
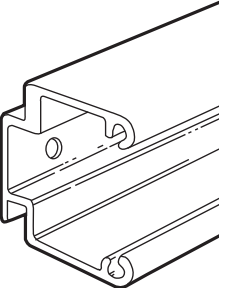

CONTENTS OF KIT

Part No.	Description	No. Required
-	Instructions	one
D168	Louvre jamb set	one
D166	Louvre side member	two
D165	Louvre top/bottom (rubber fitted)	one (pair)
D362	Louvre smalls pack consisting of:	
	FS 6013 N0.6 x 12 self-tapping screws	four
D729 T/G	Louvre glass - 100 x 525mm (4mm thick)	six

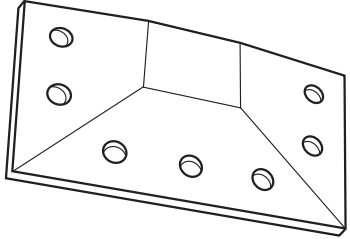

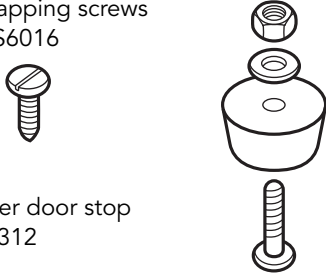

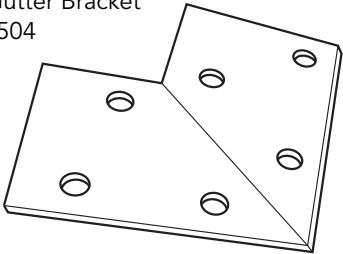
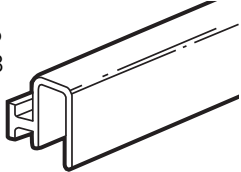
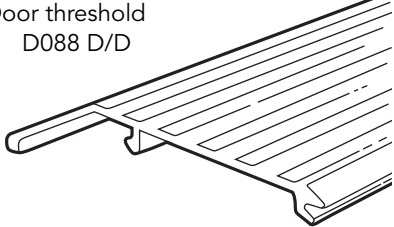
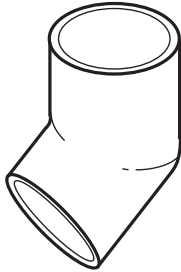
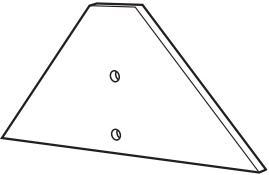
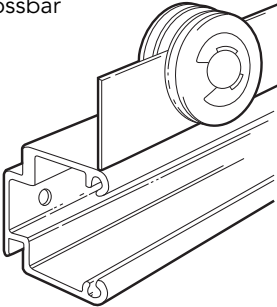
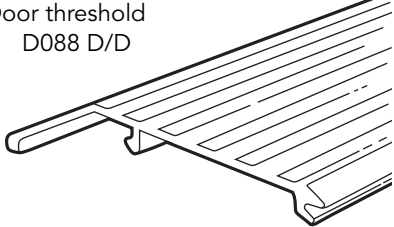
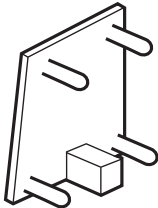
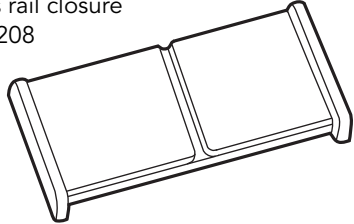
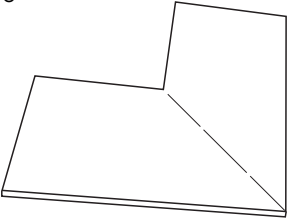
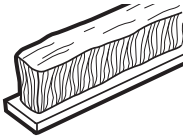
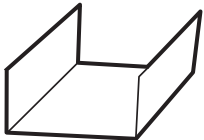
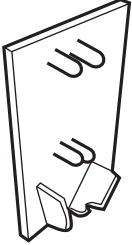
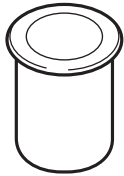
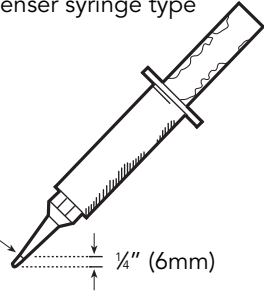
RIVIERA – PARTS LIST

<p>Ridge member D536 D538</p> 	<p>Corner glazing bar D510</p> 	<p>Gable purlin D113</p> 	<p>Vent hinge D866</p> 
<p>Glazing bar</p> 	<p>inside grooves with the PVC glazing strip in place</p> 	<p>Bar cap cover</p> 	<p>Vent side D863</p> 
<p>Hip gutter</p> 	<p>15mm Bolt + Nut bolt F5003 nut F5006</p> 	<p>Corner bar capping</p> 	<p>Vent cill D862</p> 
<p>PVC glazing strip D231</p>  <p>10mm Bolt + Nut bolt F5002 nut F5006</p> 	<p>Base angle</p>  <p>Door and plain end gable base rail D037/A5</p>  <p>Door guide (door end only) D861 D/D</p> 	<p>Standard bar capping</p>  <p>No 8 x 12mm self tapping Pozidrive screws FS6017</p> 	<p>Vent stop D220 Screw FS6060</p>  <p>Slam rail cleat D114</p> 

RIVIERA – PARTS LIST

<p>Vent closure D205</p> 	<p>Tubular Eaves Roof tie (1015m) D128</p> 	<p>Doorway Header D512</p> 	 <p>Door side member (outer) D093 LH D094 RH</p>
<p>Cropped head bolts</p> <p>F5001</p>  <p>F5006</p> 	<p>Inner door track D548</p> 	<p>Door Header Bracket D552</p> 	<p>Door side member (inner) D092</p> 
<p>Separator Strip 4mm D101</p> 	<p>Centre door stop D150</p> <p>top</p> 	<p>Doorway header plate D163</p> 	<p>Bottom door crossbar D097</p> 
<p>Door Track 'S' Clip D845</p> 	<p>Outer Door Track D549</p> 	<p>Zed trim D223 Double door</p> 	<p>Door crossbar D095</p> 
<p>Diagonal brace D524</p> 			

RIVIERA – PARTS LIST

<p>Hip Bracket D502</p> 	<p>M6 x 10mm pan head bolts D263</p> 	<p>Self tapping screws FS6016</p> 	<p>Blanking grommet D214</p> 	
<p>Hip Gutter Bracket D504</p> 	<p>PVC edging strip D232 & D233</p> 	<p>Rubber door stop D312</p> 	<p>Rainwater pipe outlet D207</p> 	
<p>Ridge Cap D506</p> 	<p>Top door crossbar D307</p>  <p>E-Ring D252</p>	<p>Door threshold D088 D/D</p> 	<p>Moulded door track cover D204</p> 	<p>Eaves rail closure D208</p> 
<p>Gutter Corner D516</p> 	<p>Nylon brush strip D840</p> 	<p>Gutter jointer D171</p> 	<p>Ridge finial/Nameplate D203</p> 	<p>Gutter outlet stub D201</p>  <p>Silicon dispenser syringe type D119</p>  <p>cut ↓ 1/4" (6mm) ↑</p>



ROBINSONS GREENHOUSES, STATION WORKS, FENNY COMPTON, SOUTHAM CV47 2XB
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