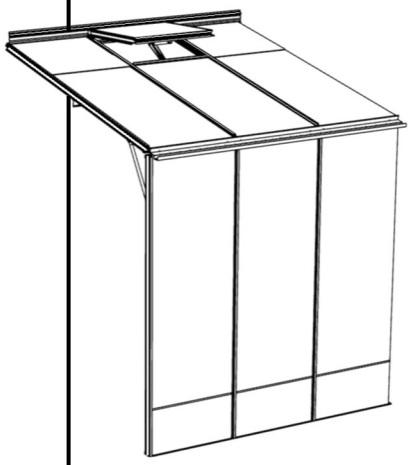
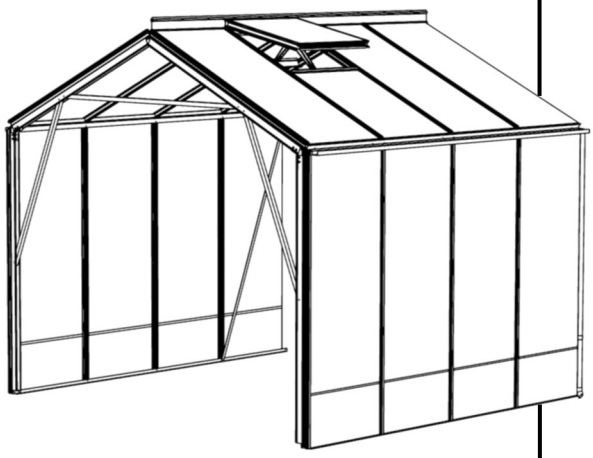
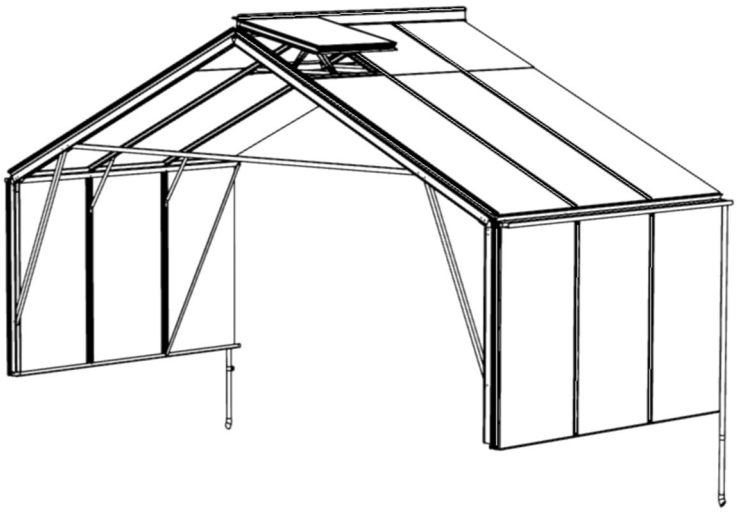
Robinsons
ALUMINIUM GREENHOUSES

Extensions
Assembly Instructions







NOMINAL SIZE	(mm)
6ft extension	1860
8ft extension	2480

Issue 01/25

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

These instructions are to be used in conjunction with the main instruction manual (read them before this manual):

Safety Warning

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

Site Preparation

- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- IMPORTANT: Do **not** fix your building down until the building is fully assembled, including glazing.
- Avoid placing your greenhouse under trees or in other vulnerable locations.
- To minimise the risk of wind damage, try to select as sheltered a site as possible, e.g. beside a hedgerow or garden fence.

Additional Considerations

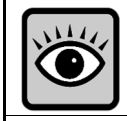
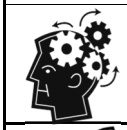
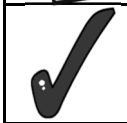
- Please bear in mind that assembling your greenhouse can be time consuming. You may need to spread the construction over two or more days. We recommend that you avoid leaving the building partially glazed. If you ever have to leave your greenhouse half assembled and not anchored down, weigh it down with slabs or bags of sand to stop the wind moving it.
- You will find it helpful to prepare a large, clean and clear area in which to work in. A garage floor or flat lawn area is ideal.
- If you have arranged for someone to install your greenhouse for you, please check that all components are included. The components can be identified by their distinctive profiles, lengths and quantities detailed in the parts list (see next page).
- Anchoring down your greenhouse should be the final stage of construction (including glazing).
- Once installed your greenhouse requires little maintenance, but to maintain the smooth running of your door(s) WD40 or similar can be applied to the door wheels and lower door guides.

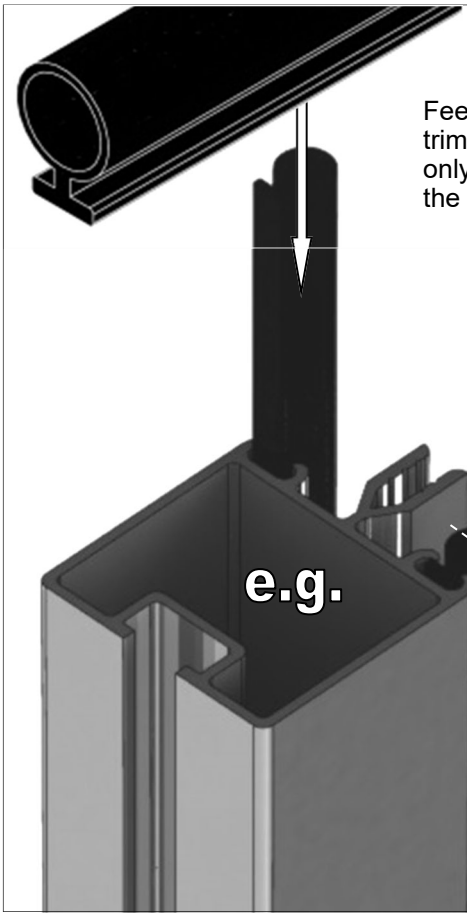
Guarantee

- Your new Robinsons greenhouse is guaranteed for 10 years against faulty manufacture of the framework. This does not include glazing, moving parts, accidental damage or wind damage.

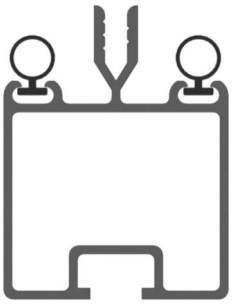
UPDATE: Robinsons plastic / aluminium cover strips -

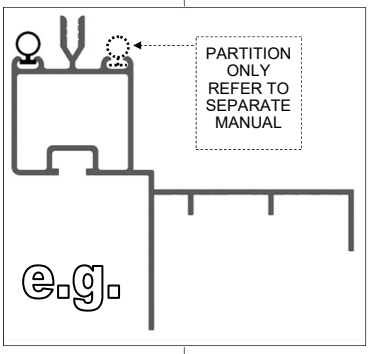
On a Robinsons building the glazing capping is in two parts. The lower plastic capping screws into the glazing bars pressing the glass down onto its rubber beading. The upper plastic / aluminium covers then need to be applied to cover the heads of the self-tapping screws. If you are struggling to press on the cover strips then we recommend the use of a rubber mallet or perhaps a wooden block and hammer, a short sharp tap onto the cover at one end is all that is needed to stretch the cover around the lower capping protrusions locking it into place. You can then either continue to use the mallet along the length of the cover or continue just using the palm of your hand. Once in the building and the edges are protected Robinsons 4mm thick toughened safety glass is very strong and can cope with the vibrations caused by hitting the covers though we would not recommend that you hit the glass directly. Some of the aluminium cover caps have a hole in them at one end which is sometimes used to hang the parts for powder coating. You can if you wish use the hole to stop the covers from sliding in the roof using a glazing screw, note you will have to use a countersunk screw under the vents to avoid interference with the vent bottom.

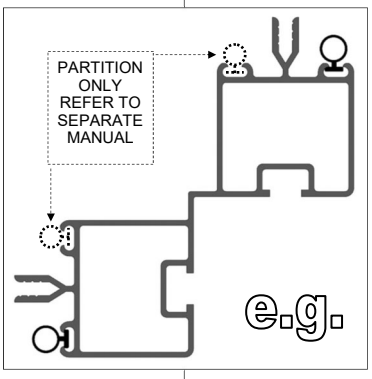
KEY SYMBOL	KEY DESCRIPTION
	EXTERNAL VIEW
	INTERNAL VIEW
	THINK
	CORRECT
	TWIST TO LOCK
	CUT TO LENGTH

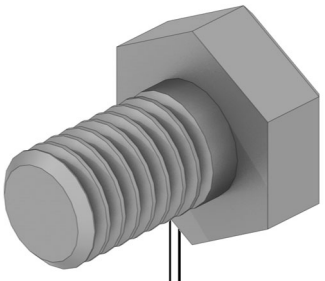


Feed glazing rubber into each glazing bar and trim to length. Notice that some channels are only used on a partition. Applying a lubricant to the aluminium channels will speed up insertion.



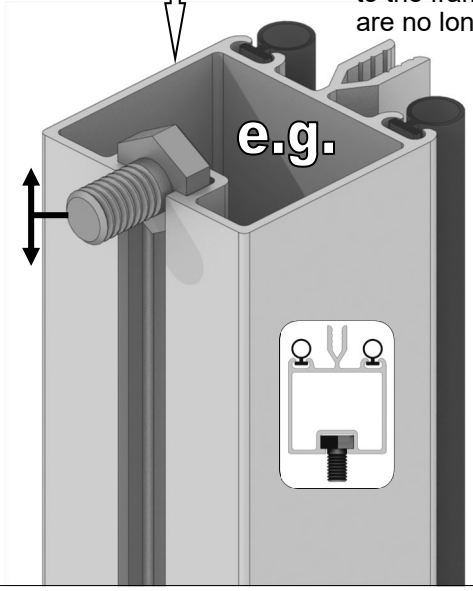




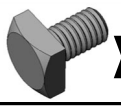
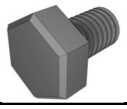
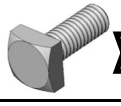
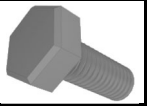


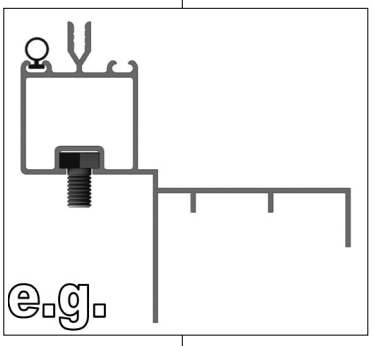
Robinsons have now upgraded the original square headed alloy bolts to stainless steel **Hexagonal** headed bolts. The frame is assembled by feeding these bolts, either 12mm or 16mm in length (previously 10mm and 15mm) into the slots on glazing bars and then locating those bolts through holes in purlings and cills, etc… The 12mm bolts tend to be used to join two parts together and the 16mm bolts tend to be used to join two or more parts or where an extrusion is thicker.

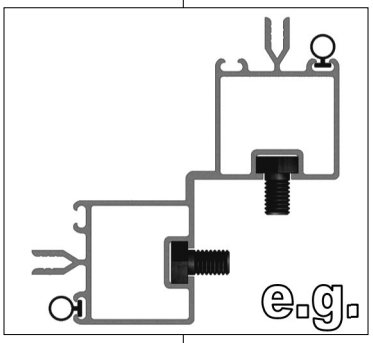
Twist in (rectangular) crop headed bolts are also used towards the end of construction to attach components to the frame retrospectively when the glazing bar slots are no longer exposed at the ends.



If an image in the manual shows a square headed bolt please interpret it as the new HEX headed replacement.

	ORIGINAL SQUARE HEAD		NEW HEX HEAD
10mm		12mm	
15mm		16mm	





FREE-STANDING ROBINSONS EXTENSIONS VERY IMPORTANT INFORMATION:

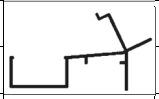
If you have been supplied with an extension (i.e. your building is longer than 12'), your main building will differ in that the roof end and corner glazing bars (on the end to which the extension will be fitted) are replaced with standard side and roof glazing bars from the extension module kit. These should be fitted using 16mm bolts. In addition, it will be necessary to slide additional 12mm bolts into each side bar and roof bars (5 for Rosette & Regal, 4 for Royale, & 3 for Regent) to accommodate a reinforcing channel (10mm bolts must be used here, 15mm bolts will get in the way when fitting the square a-frame tubing). You will notice that unlike your common length; ridge, gutters and cills the extension components have holes at one end and the usual open U-shaped slots at the other. It is the end with the holes which must abut the common length building. At the extension joint the side and roof bars to which the a-frame is mounted need to go onto the U-shaped slots not the holes of the extension components.

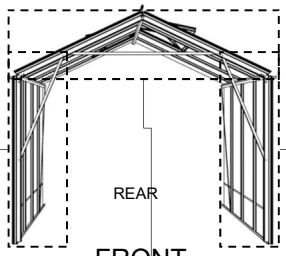
You only need four side diagonal braces per building (two each side), move the two (currently on main sides) nearest the extension join towards the rear.

Be careful not to mix up your extension cills and gutters. There will be a separate gutter and cill for the left and right side extensions. In addition one set of holes in both the gutter, cill, and ridge sections are slightly closer together (**586mm instead of 620mm**). When fitting the extension ridge, gutters and side cills, the 586mm hole centres at one end of the extension components must abut the main greenhouse. Each of the extension joining plates should be initially attached to the main building and then onto the 586mm spaced hole end of each extension section.

IMPORTANT: Each glazing bar centre should then be **620mm apart**. If not your glass will not fit properly. See next pages 6 and 7 for more details.

Free-Standing Extensions Parts List

Part No.	Section	Size (mm)	6' EX	8' EX
STANDARD LEFT HAND SIDE EXTENSION				
D029L		1860	1	
D024L		2480		1
D028L		1860	1	
D017L		2480		1
D138		1167	1	
D131 D673 D784	STAN./ DWARF / REACH 	1630 1114 1930	1 1 1	
D146		N/A	2	
D158		N/A	1	
D114		N/A	1	



Part No.	Section	Size (mm)	6' EX	8' EX
STANDARD RIGHT HAND SIDE EXTENSION				
D029R		1860	1	
D024R		2480		1
D028R		1860	1	
D017R		2480		1
D138		1167	1	
D131 D673 D784	STAN./ DWARF / REACH 	1630 1114 1930	1 1 1	
D146		N/A	2	
D158		N/A	1	
D114		N/A	1	

REGENT ROOF			
D135		926	1
D132		1010	2

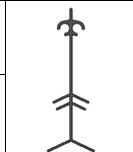
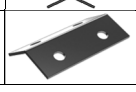
ROYALE ROOF			
D136		1546	1
D133		1352	2

ROSETTE ROOF			
D137		2176	1
D134		1700	2

REGAL ROOF			
D139		2786	1
D140		2039	2

RENOWN ROOF			
D139		2786	1
D736		2384	2
D962 A		1890	2

FS6006 35mm		35mm	6
FS6505 HEX 12mm		12mm	50
FS6506 HEX 16mm		16mm	40
FS6504 M6		M6	96

STANDARD FREESTANDING RIDGE EX.				
D027		1860	1	
D004		2480		1
D157		N/A	1	

Due to its width the 14' wide Renown model has extra roof purlings to add even more strength. Extended Renown models have an A-frame every 6'. The roof purlings 'D962A' need to be notched at the ends to allow for the tabbed ends to tuck between the roof bar 'D737' and reinforcing channel 'D736'. The purlings do not need to fit in one continuous line they can be stepped above or below one another.

LEAN-TO ROBINSONS EXTENSIONS VERY IMPORTANT INFORMATION:

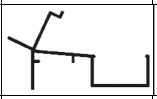
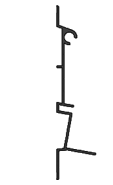
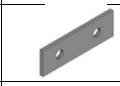
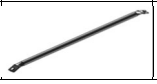
If you have been supplied with an extension (i.e. your building is longer than 12'), your main building will differ in that the roof end and corner glazing bars (on the end to which the extension will be fitted) are replaced with standard side and roof glazing bars from the extension module kit. These should be fitted using 16mm bolts. You will notice that unlike your common length; ridge, gutter and cill the extension components have holes at one end and the usual open U-shaped slots at the other. It is the end with the holes which must abut the common length building. The 4', 6' and 8' lean-tos have 6' extensions and the 5' model has an 8' extension.

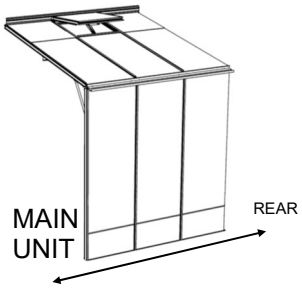
You only need two side diagonal braces per building, move the one (currently on main side) nearest the extension join towards the rear.

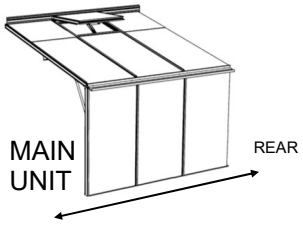
Be careful not to mix up your extension cills and gutters. There will be a separate gutter and cill for the extension. In addition one set of holes in both the gutter, cill, 8lt roof purling D597 (if applicable) and ridge sections are slightly closer together (**586mm instead of 620mm**). When fitting the extension ridge, gutters and side cills, the 586mm hole centres at one end of the extension components must abut the main greenhouse. Each of the extension joining plates should be initially attached to the main building and then onto the 586mm spaced hole end of each extension section.

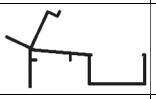
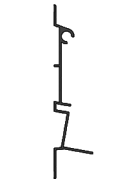
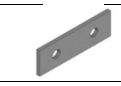
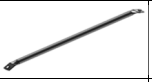
IMPORTANT: Each glazing bar centre should then be **620mm apart**. If not your glass will not fit properly. See next pages 8, 9, 10 and 11 for more details.

4'/5'/6'/8' lean-to Extensions Parts List

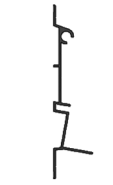
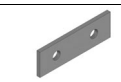
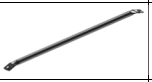
Part No.	Section	Size (mm)	6' EX
4' LEAN-TO RIGHT HAND EX.			
D919R		1860	1
D916R		1860	1
D917		1860	1
D114		N/A	4
D126		445	3





Part No.	Section	Size (mm)	6' EX
6' LEAN-TO RIGHT HAND EX.			
D919R		1860	1
D916R		1860	1
D917		1860	1
D114		N/A	4
D126		445	3
D597		1897	1

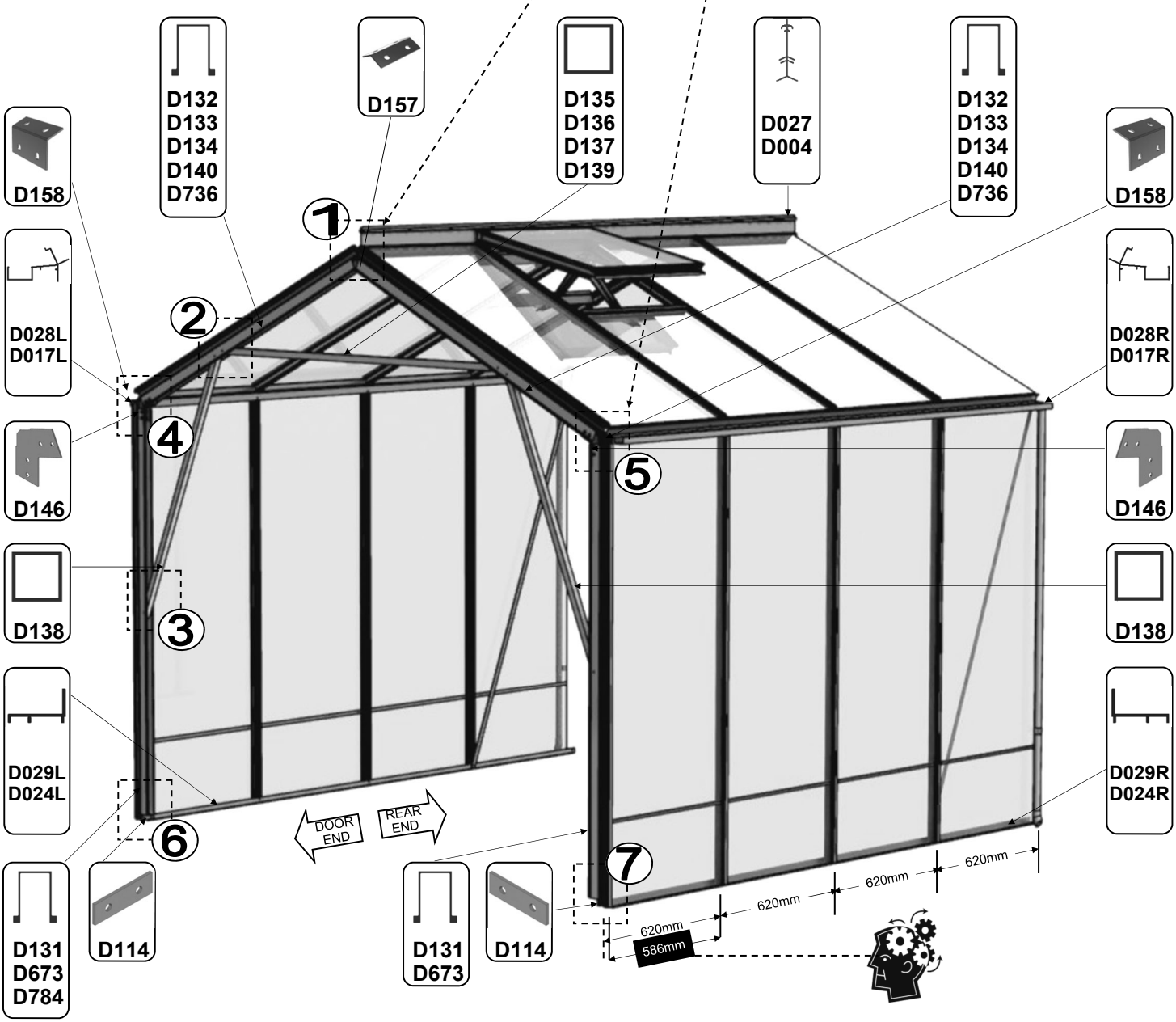
Part No.	Section	Size (mm)	8' EX
5' LEAN-TO RIGHT HAND SIDE EXTENSION			
D024R		2480	1
D017R		2480	1
D010		2480	1
D158		N/A	1
D114		N/A	2
D126		445	4

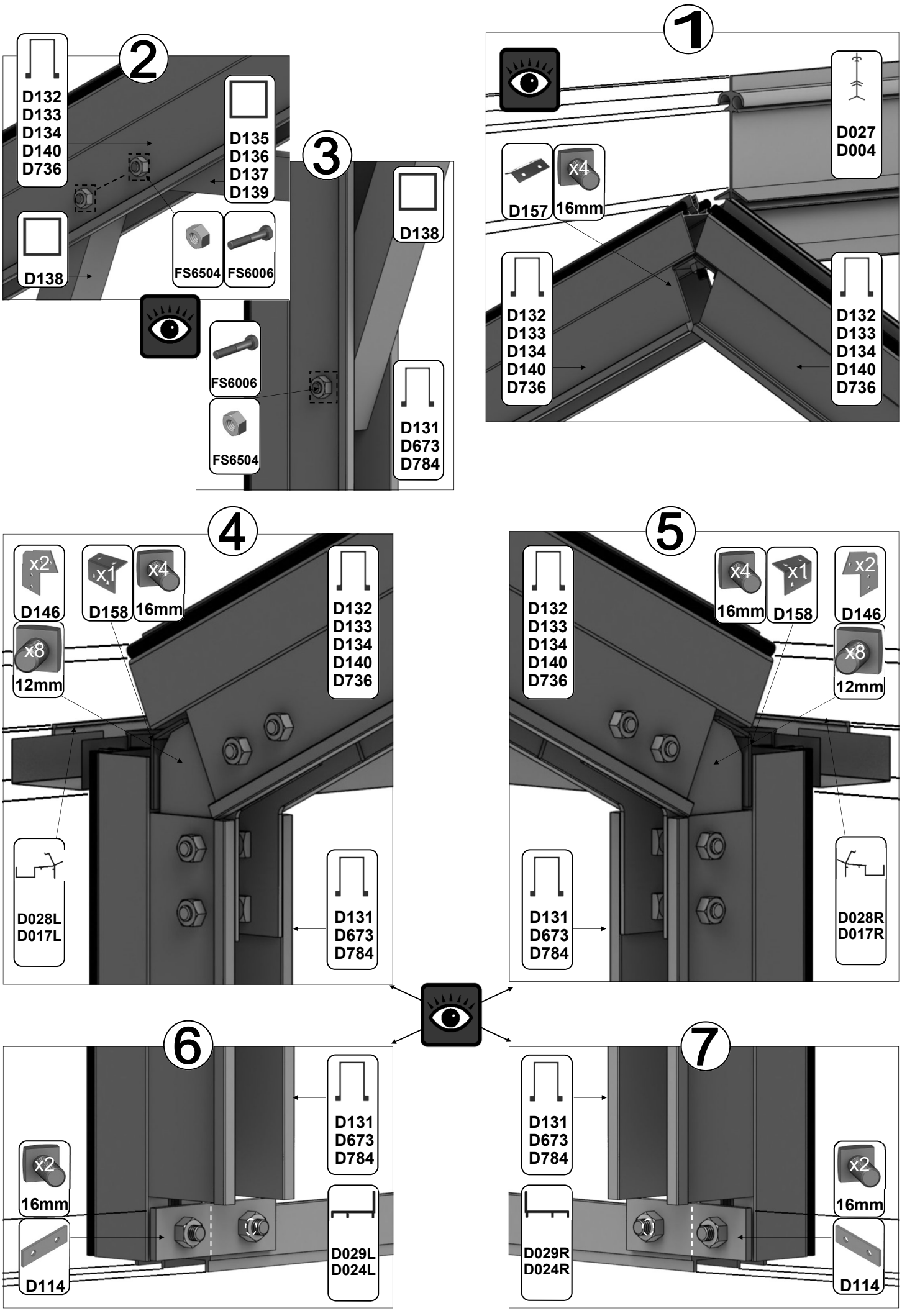
Part No.	Section	Size (mm)	8' EX
8' LEAN-TO RIGHT HAND EX.			
D919R		1860	1
D916R		1860	1
D917		1860	1
D114		N/A	4
D126		445	3
D597		1897	1
D138		1167	2
D982		N/A	4
FS6006		35mm	4
FS6504		M6 S/S	4

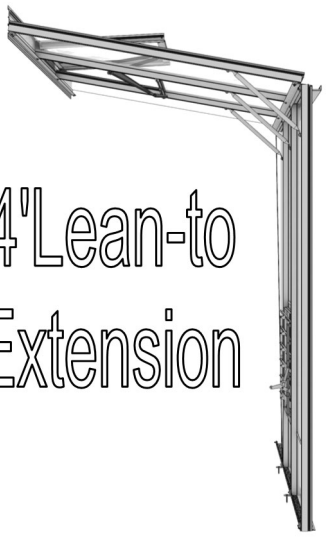
Free-Standing & Dwarf Extensions

IMPORTANT: Extended buildings should have transparent all-weather silicone applied to the join between a standard ridge and an extension ridge/s to minimise leaks. This is often easier to do before glazing as access is easier. It is also advisable to repeat the process at gutter level on the gutter rear flanges though the gutter water channel itself is best sealed towards the end of construction.

D119

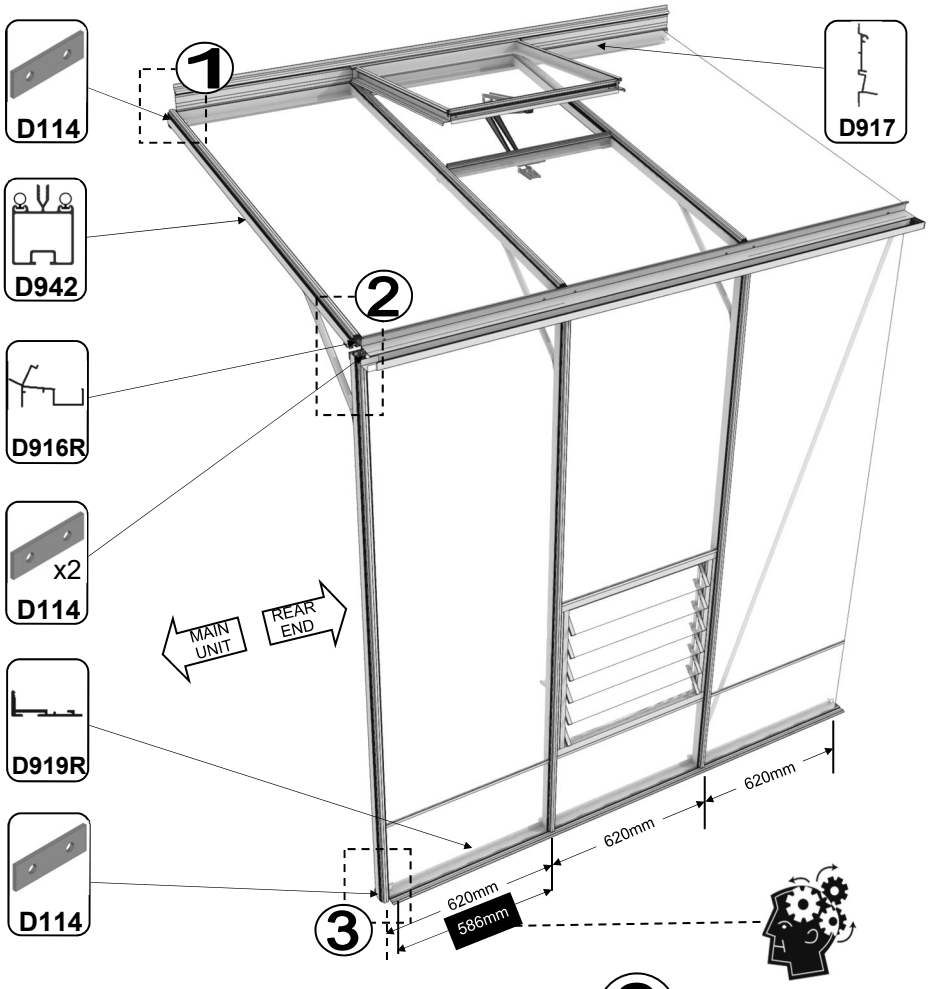


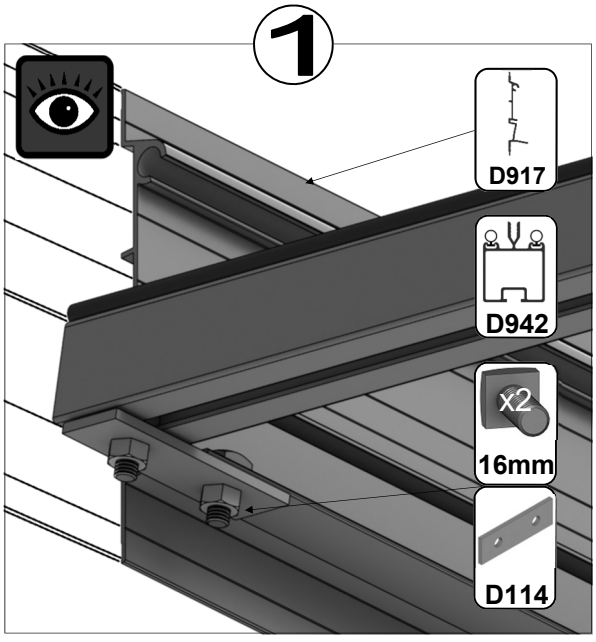

1
D027
D004
D157
x4
16mm
D132
D133
D134
D140
D736
D132
D133
D134
D140
D736
2
D132
D133
D134
D140
D736
D135
D136
D137
D139
D138
FS6504
FS6006
3
D138
FS6006
FS6504
D131
D673
D784
4
x2
D146
x1
D158
x4
16mm
x8
12mm
D132
D133
D134
D140
D736
D028L
D017L
D131
D673
D784
5
D132
D133
D134
D140
D736
x4
16mm
x1
D158
x2
D146
x8
12mm
D131
D673
D784
D028R
D017R
6
x2
16mm
D114
D131
D673
D784
D029L
D024L
7
D131
D673
D784
D029R
D024R
x2
16mm
D114

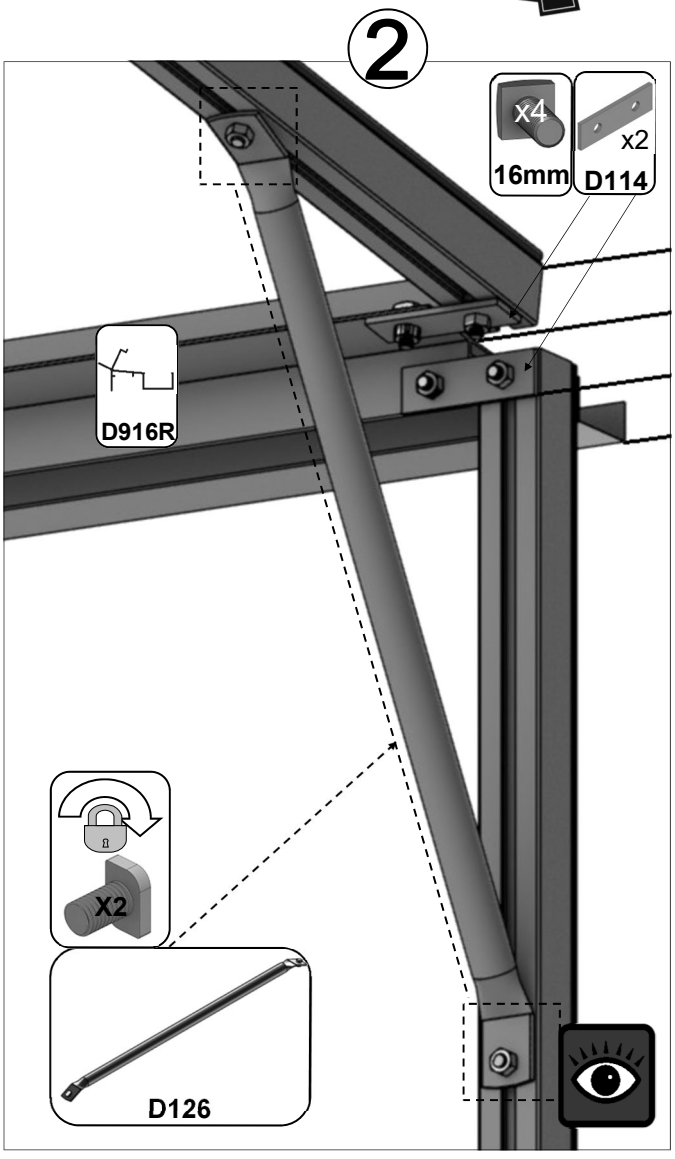


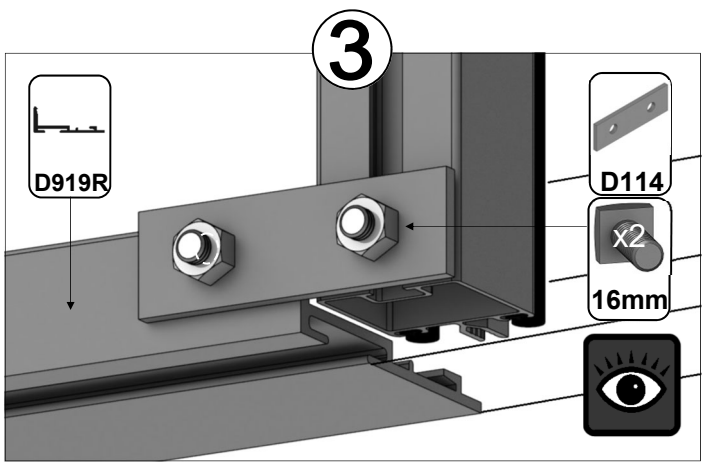
4'Lean-to Extension

IMPORTANT: Extended buildings should have transparent all-weather silicone applied to the join between a standard ridge and an extension ridge/s to minimise leaks. This is often easier to do before glazing as access is easier. It is also advisable to repeat the process at gutter level on the gutter rear flanges though the gutter water channel itself is best sealed towards the end of construction.

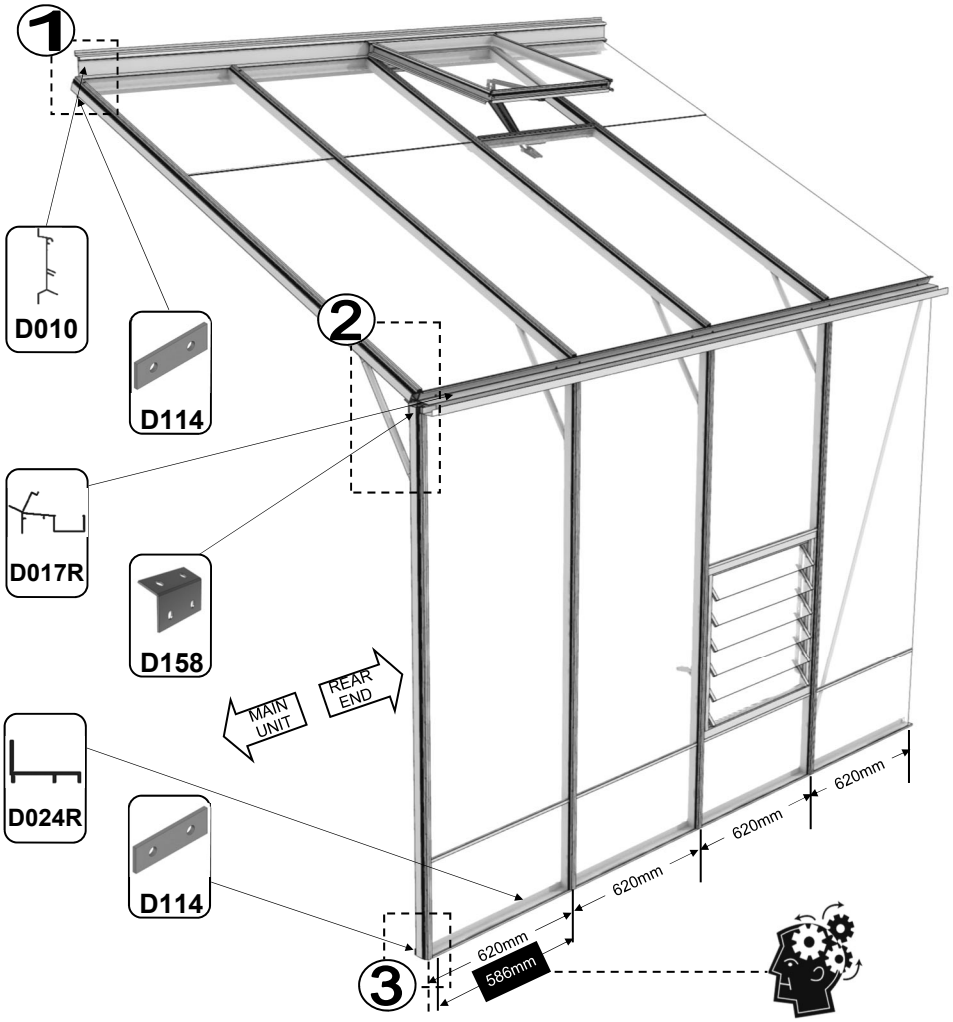


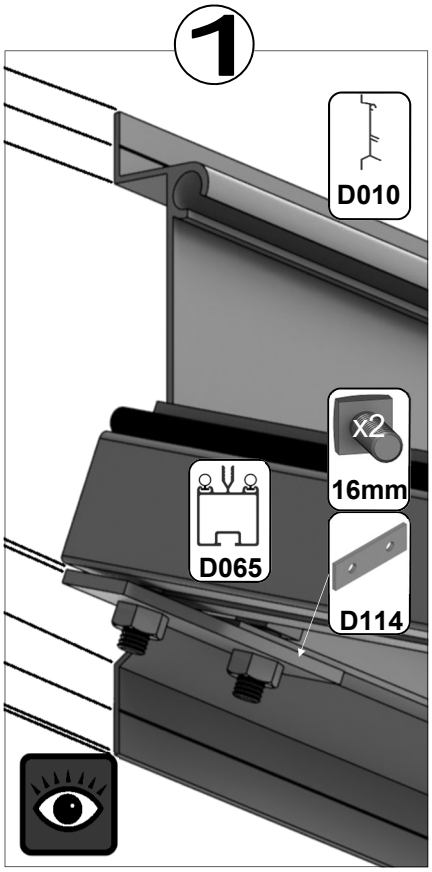


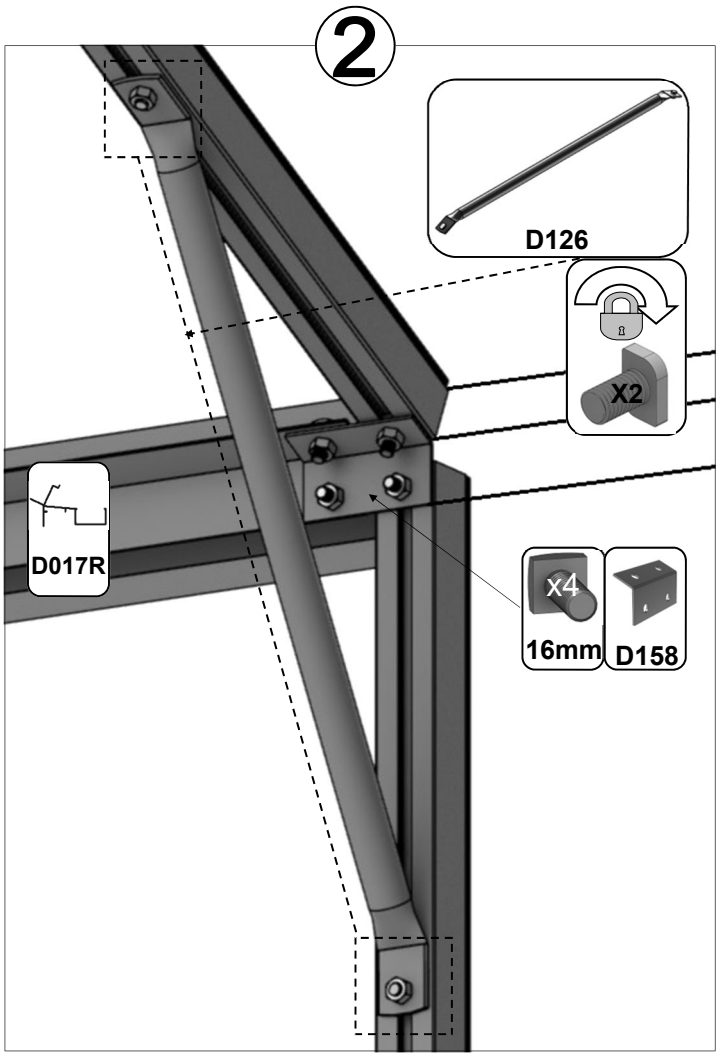


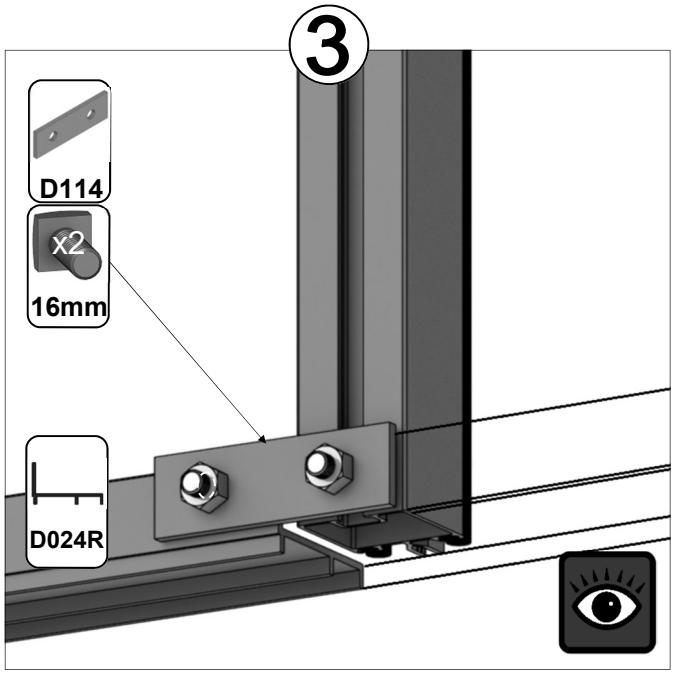


5'Lean-to Extensions inc. Dwarf

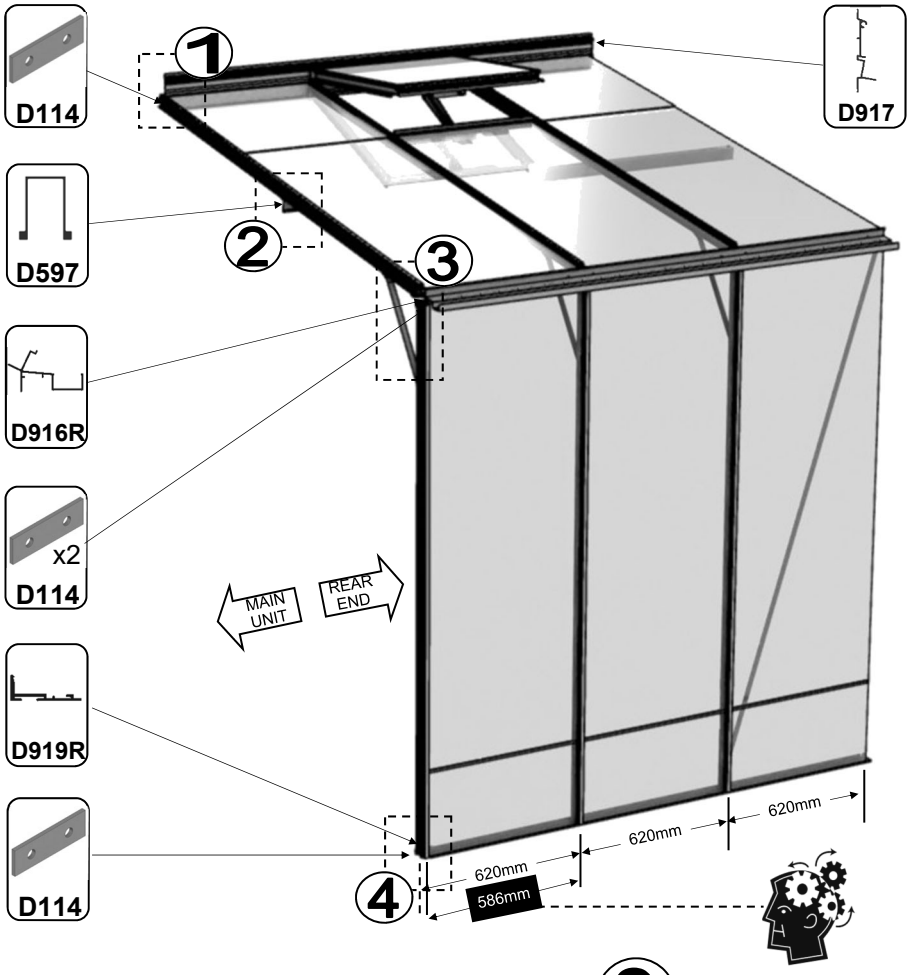


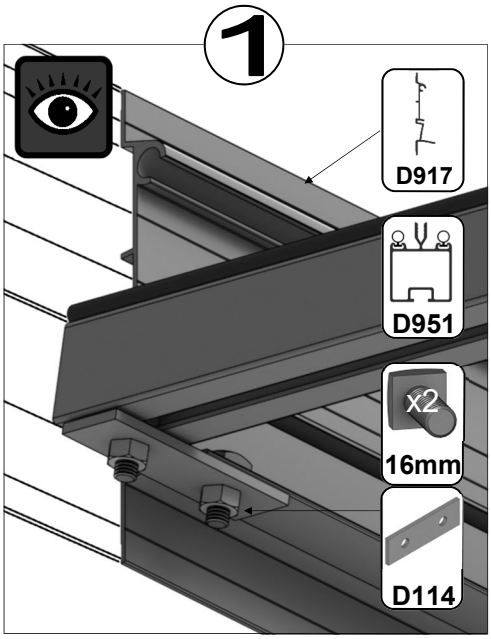


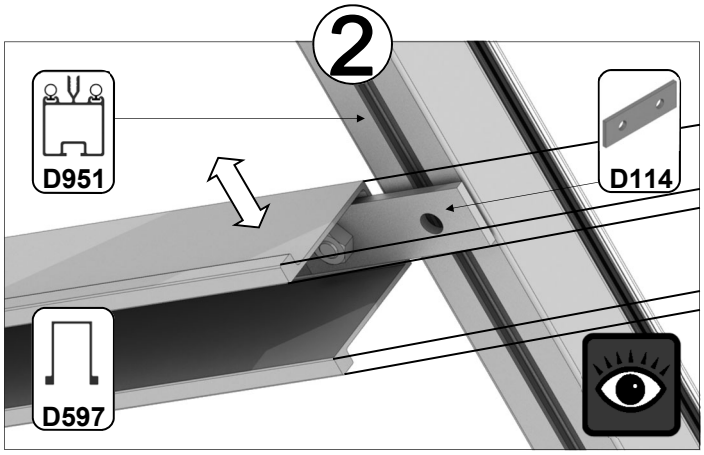


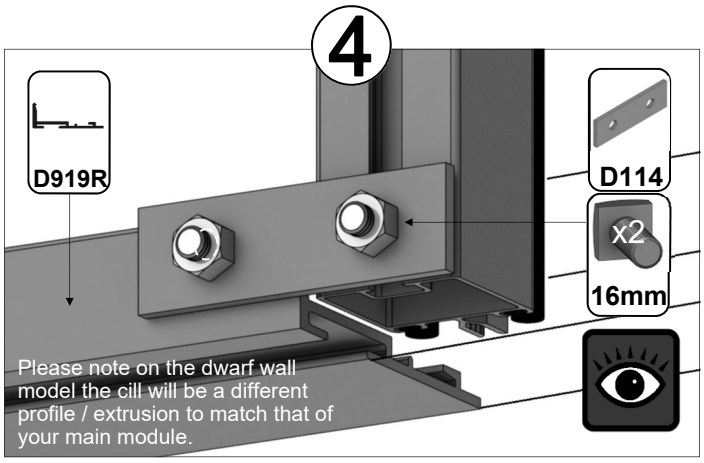


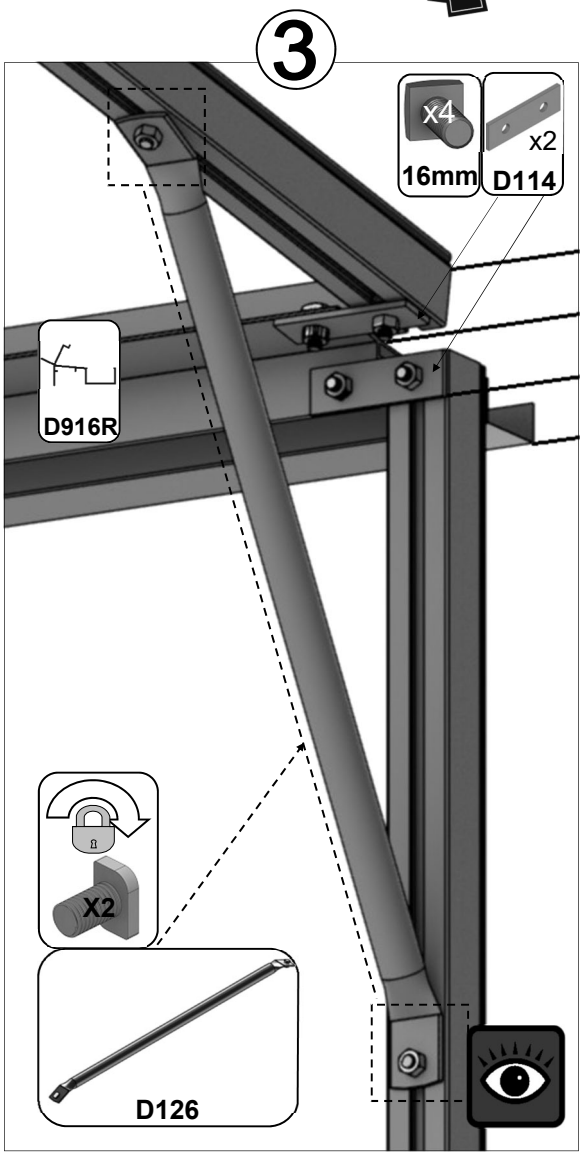
6'Lean-to Extension inc. Dwarf



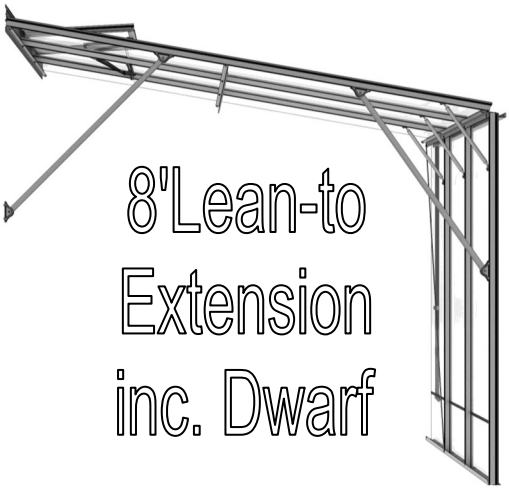


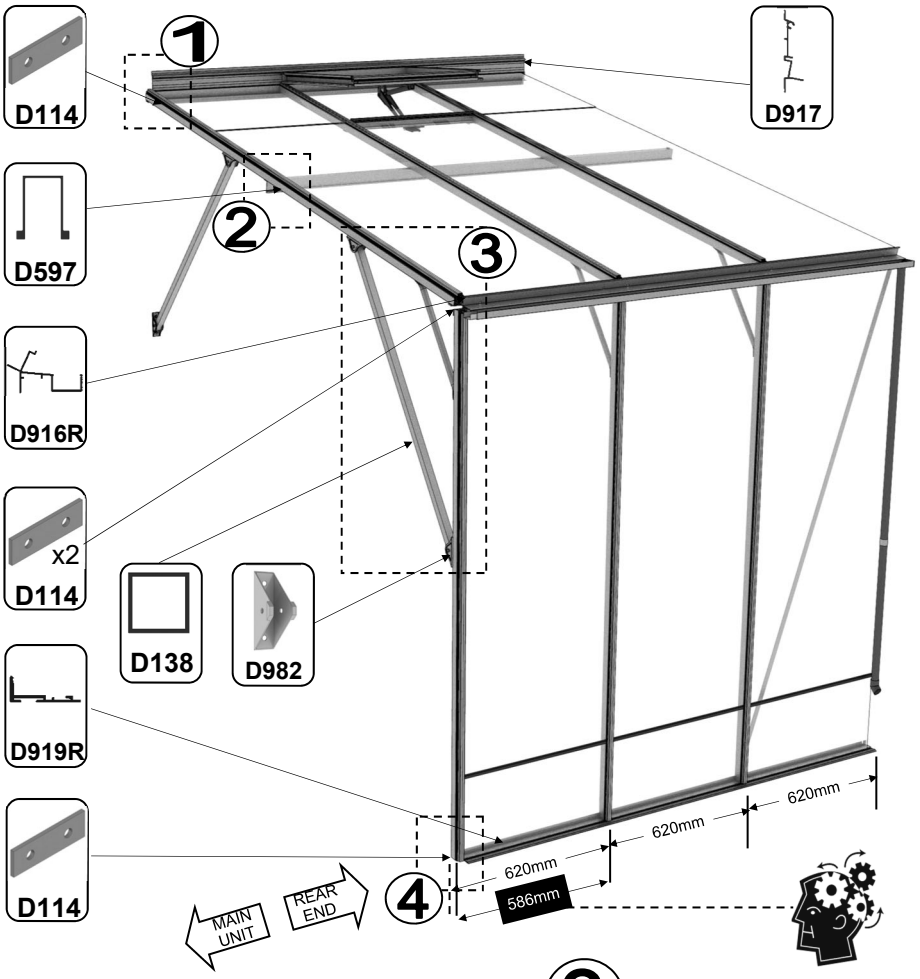




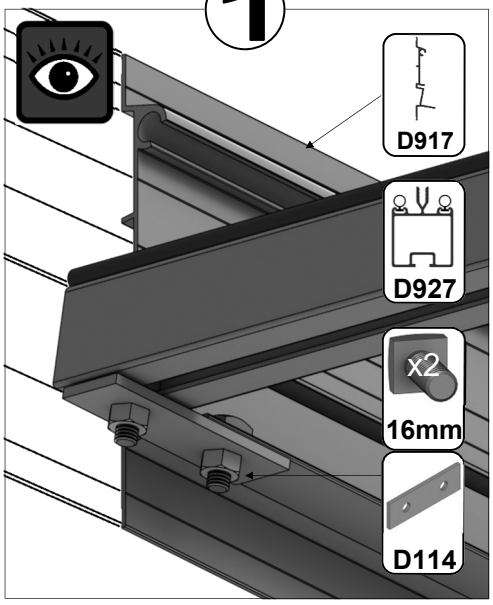


8'Lean-to Extension inc. Dwarf





1



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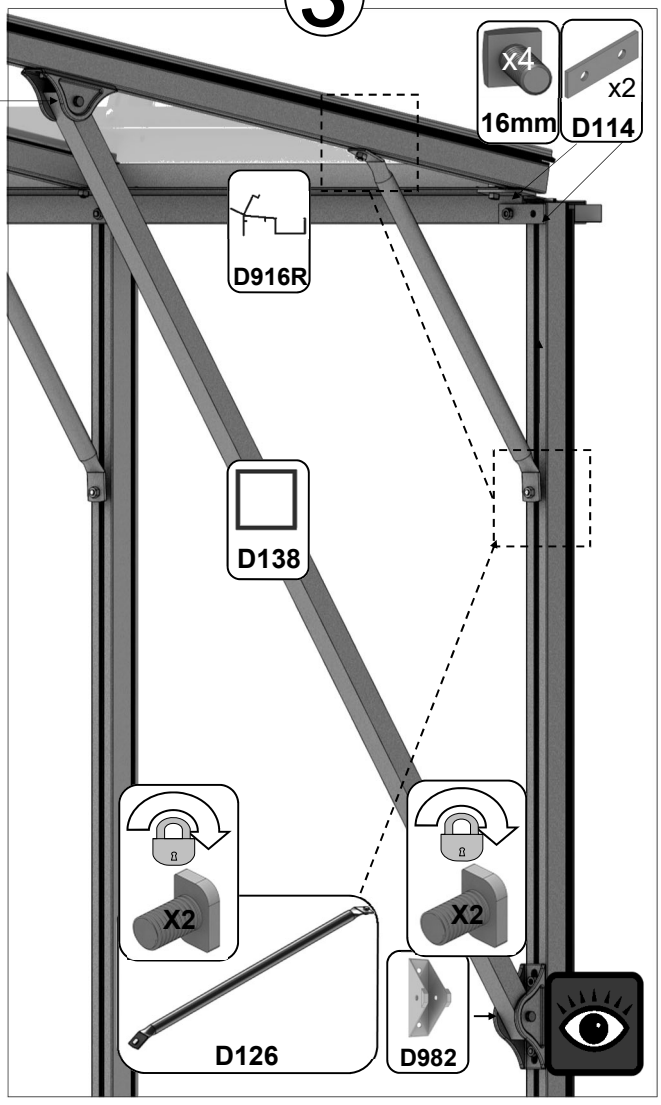

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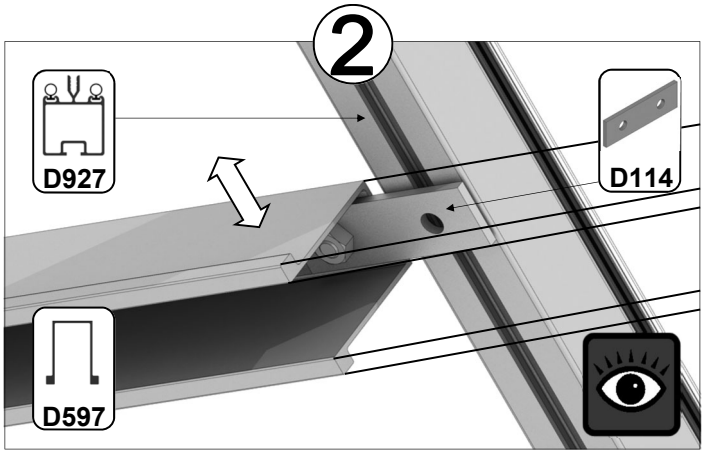

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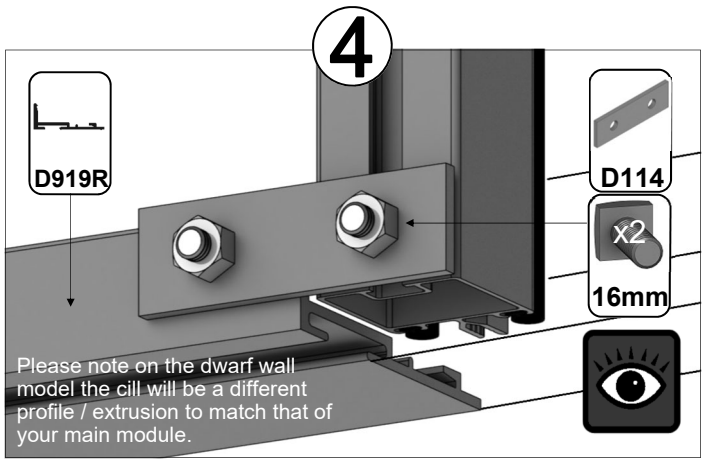
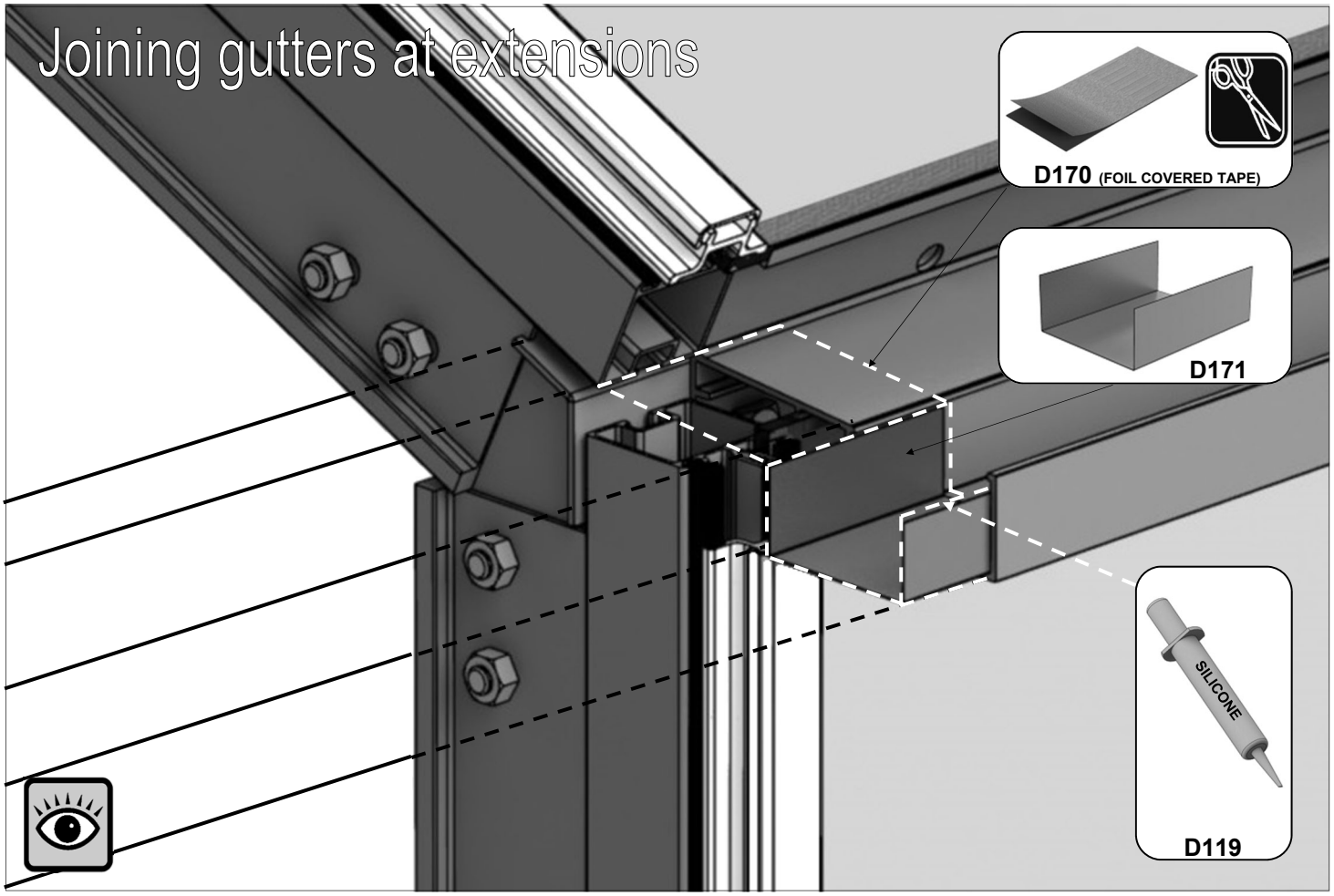
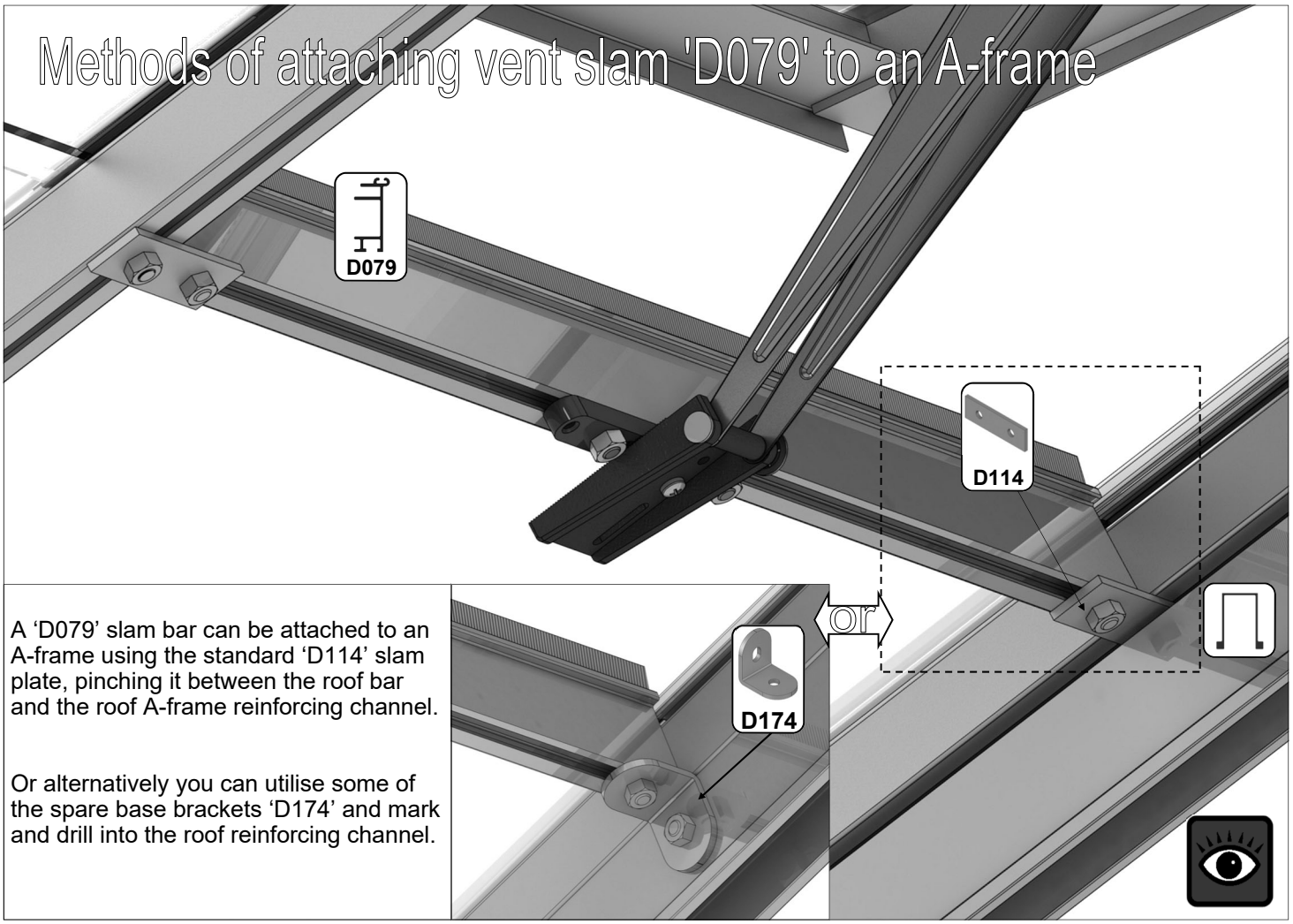


Please note on the dwarf wall model the cill will be a different profile / extrusion to match that of your main module.

Joining gutters at extensions



Methods of attaching vent slam 'D079' to an A-frame

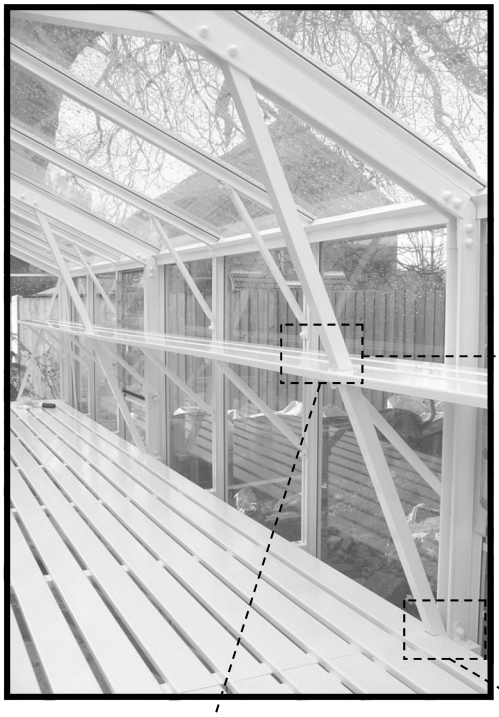


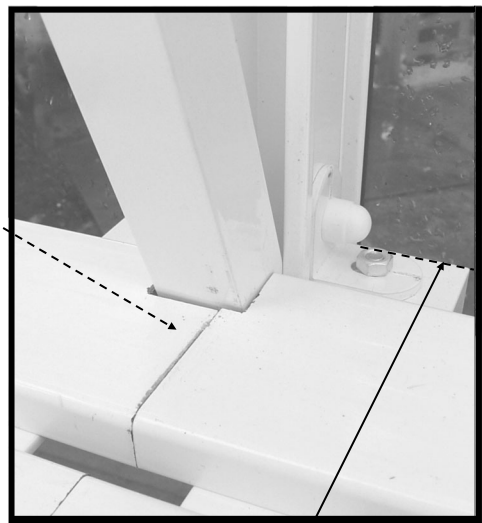
A ‘D079’ slam bar can be attached to an A-frame using the standard ‘D114’ slam plate, pinching it between the roof bar and the roof A-frame reinforcing channel.

Or alternatively you can utilise some of the spare base brackets ‘D174’ and mark and drill into the roof reinforcing channel.

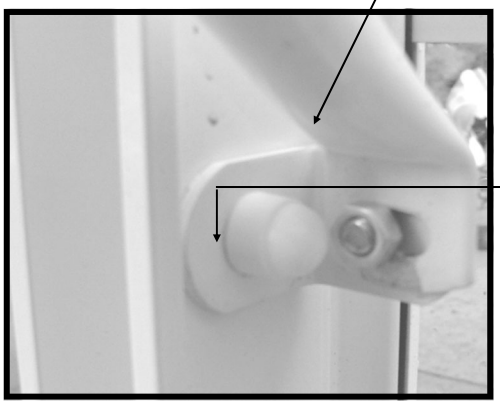
Staging around A-frames

When adapting a shelf or staging section to fit around an A-frame the slats can be cut in several ways to give a neat, level result.





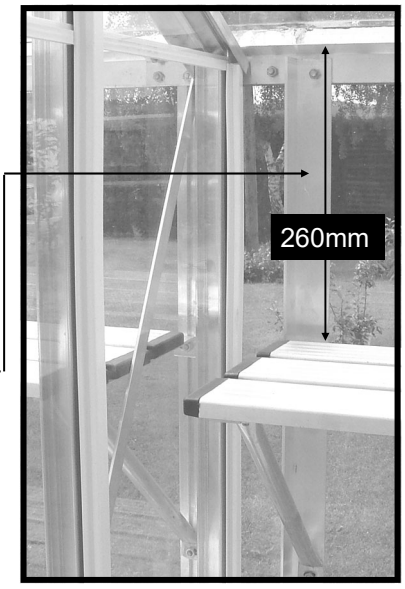
900mm up from bottom of base rail.



Fitting Robinsons slatted **shelving** and **staging** using the instructions is usually quite straight forward. However if you have chosen a greenhouse which includes **A-frames** or a **partition** then fitting the staging becomes more complicated. In these instances some additional adaptation brackets where A-frames are included, and some side height vertical bracings for a partition.

You need to **cut** (using a hacksaw) the staging slats to fit around the A-frames at which ever **height** you have pre-determined (we recommend **900mm** up from the bottom of the base rail for **staging**, and **260mm** down from the top / back of the gutter for the **shelf**).

Spare **ground anchoring brackets** can be used to attach the shelf and staging supports to the side of an A-frame or **side height vertical bracing** when fitting around a partition.



PLEASE CONTACT US FOR A BASE PLAN FOR ANY MODIFICATIONS i.e. Drop door/s, dwarf wall, partition, etc…) NOT LISTED ON THIS PAGE.

MPORTANT: IF YOU HAVE ANYTHING OVERHANGING THE RIDGE ON A LEAN-TO, PLEASE ALLOW HEIGHT CLEARANCE FOR THE ROOF VENT.

ROBINSONS BASE PLANS

THE FOLLOWING DIMENSIONS ARE THE EXACT EXTERNAL BASE DIMENSIONS FOR THE ROBINSONS RANGE.

We cannot emphasis how important it is to have a proper base for your Robinsons Greenhouse to be erected upon.

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 its 4mm glass.

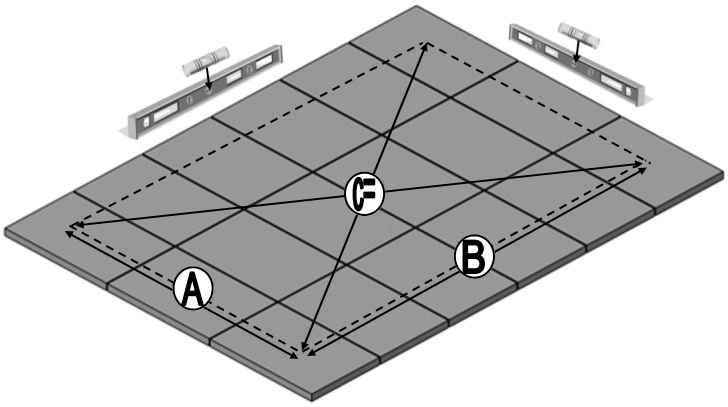
IMPORTANT: Do not anchor your greenhouse down until it is fully assembled including glazing unless you are 100% sure your base is square and level. If not your glass will not fit properly.

EXTERNAL DIMENSIONS (mm)

Model sizes listed are nominal.
i.e.: an 8 x 10 is the model 8'6" x 10' 8"

MODEL	A (mm) WIDTH	B (mm) LENGTH	C (mm) DIAGONAL
5 x 4	REGATTA 1662	1392	2168
5 x 6		2012	2610
5 x 8		2632	3113
5 x 10		3252	3652
5 x 12		3872	4214
4 x 4 Lean to	4' LEAN-TO 1332	1392	1927
4 x 6 Lean to		2012	2413
4 x 8 Lean to		2632	2950
4 x 10 Lean to		3252	3514
4 x 12 Lean to		3872	4095
5 x 6 Lean to	5' LEAN-TO 1619	2012	2583
5 x 8 Lean to		2632	3090
5 x 10 Lean to		3252	3633
5 x 12 Lean to		3872	4197
6 x 6	REGENT 1964	2012	2812
6 x 8		2632	3284
6 x 10		3252	3799
6 x 12		3872	4342
6 x 6 Lean to	6' LEAN-TO 1929	2012	2787
6 x 8 Lean to		2632	3263
6 x 10 Lean to		3252	3781
6 x 12 Lean to		3872	4326
8 x 6	ROYALE 2584	2012	3275
8 x 8		2632	3688
8 x 10		3252	4154
8 x 12		3872	4655
8 x 6 Lean to	8' LEAN-TO 2572	2012	3265
8 x 8 Lean to		2632	3680
8 x 10 Lean to		3252	4146
8 x 12 Lean to		3872	4648
10 x 8	ROSETTE 3208	2632	4150
10 x 10		3252	4568
10 x 12		3872	5028
12 x 8	REGAL 3824	2632	4642
12 x 10		3252	5020
12 x 12		3872	5442
14 x 8	RENOWN 4454	2632	5902
14 x 10		3252	5174
14 x 12		3872	5515
6ft ext.	-	+1860	-
8ft ext.	-	+2480	-

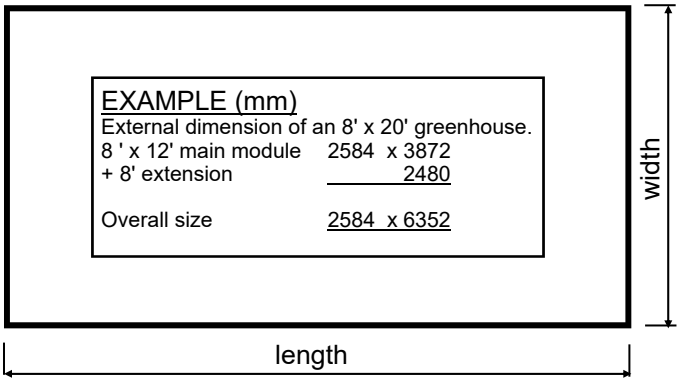
Give yourself enough room around your base to allow for fitting the glass and any on-going maintenance / cleaning. A slab base which is larger than the greenhouse is the ideal solution.

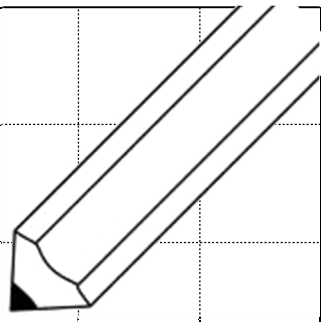


THE BASE MUST BE FLAT, LEVEL AND SQUARE.

A brick perimeter base is equally suitable providing there is a concrete foundation beneath it. We suggest using a solid brick with no frogs or holes (quality stock bricks or semi-engineering bricks). A brick plinth is an advantage because it minimises the chances of any water running back underneath the base cill.

Note, when calculating the length of a unit that has an extension you must add the main module dimension to give you the overall length. See diagram below.





Please be aware that this is a multi-national manual, if you spot any errors or have any constructive comments regarding the manual please email james.spooner@greenhousepeople.co.uk and I will make the necessary amendments. Whilst the information contained in this booklet is accurate at the time of publication, changes in the course of Robinsons policy of improvement through development and design might not be indicated. We point out this fact to avoid any infringements of the Trade Descriptions Act and also to advise that Robinsons Greenhouses reserve the right to change specifications and materials without prior notice.

In addition any photographs of completed buildings would be most appreciated to add to our portfolio.

Robinsons
ALUMINIUM GREENHOUSES