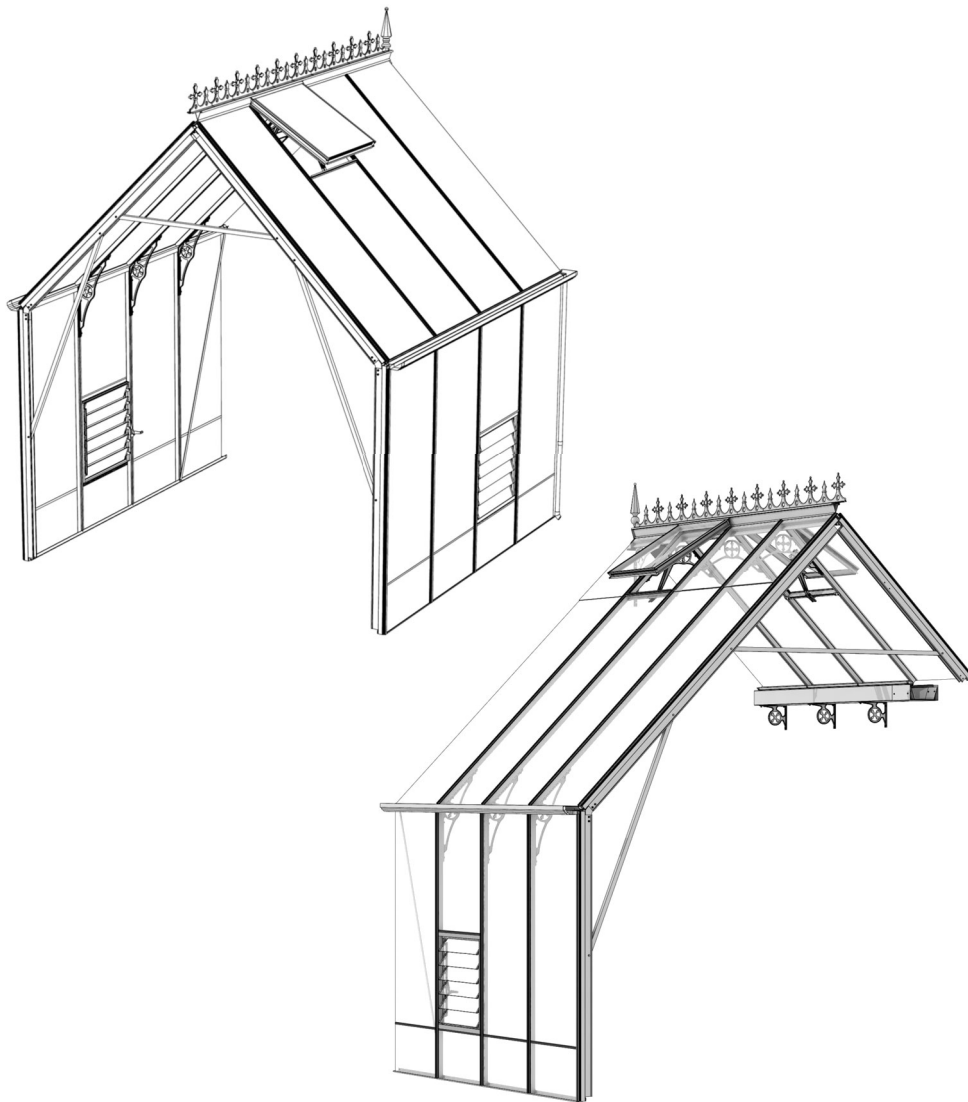


Victorian Standard & 3/4 Span Extensions Assembly Instructions



NOMINAL SIZE	(mm)
4ft extension	1240
8ft extension	2480



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). This booklet contains information on the **standard Victorian** extensions and the **3/4 span Victorian** extensions:

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.
- 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



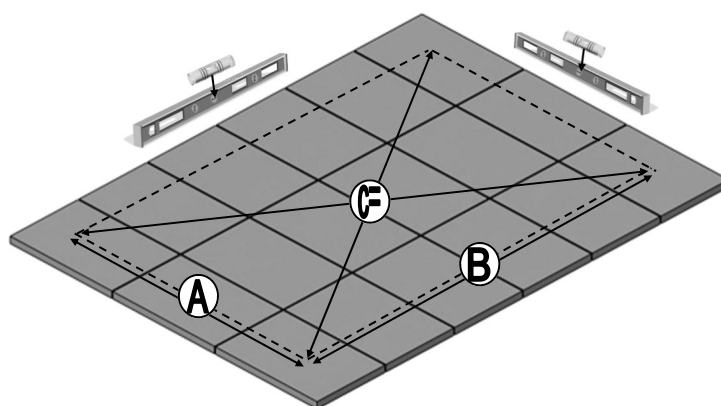
THE FOLLOWING DIMENSIONS ARE THE EXACT EXTERNAL BASE DIMENSIONS FOR THE ROBINSONS RANGE.

We cannot emphasize 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.

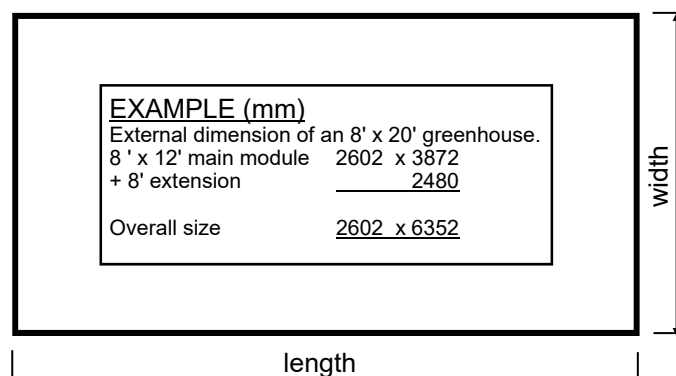
Give yourself enough room around your base to allow for fitting the glass and any on-going maintenance / cleaning. A slab base which is larger than the greenhouse is the ideal solution.



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.



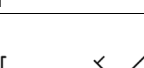
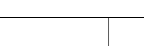
VICTORIAN ROBINSONS EXTENSIONS VERY IMPORTANT INFORMATION:

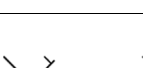
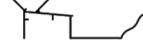
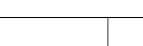
If you have been supplied with an extension (i.e. your building is longer than 12'), your main building will differ in that the roof end and corner glazing bars (on the end to which the extension will be fitted) are replaced with side and roof glazing bars from the extension module kit. These should be fitted using 16mm bolts. In addition, it will be necessary to slide additional 12mm bolts into each side bar and roof bars to accommodate a reinforcing channel (12mm bolts must be used here, 16mm bolts will get in the way when fitting the square a-frame tubing). You will notice that unlike your common length / core (porched models) the ridge, gutters and cills on 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 or core. 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.

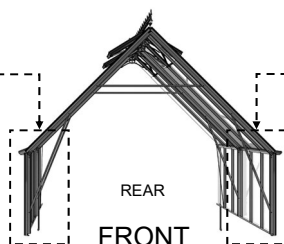
You only need four side diagonal braces per building (two each side), move the two (currently on main sides) nearest the extension join towards the rear.

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 8 and 9 for more details.

Part No.	Section	Size (mm)	4' EX	8' EX
LEFT HAND SIDE EXTENSION				
D075L		1240	1	
D024L		2480		1
DV241L		1240	1	
DV214L		2480		1

Part No.	Section	Size (mm)	4' EX	8' EX
RIGHT HAND SIDE EXTENSION				
D075R		1240	1	
D024R		2480		1
DV241R		1240	1	
DV214R		2480		1



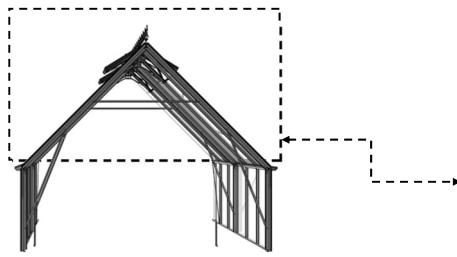
Part No.	Section	Size (mm)	4' EX	8' EX
D114		N/A	2	
D136		1546	2	
D174		N/A	2	6
DV100			2	6
DV153		N/A	4	
DV227		N/A	2	



Part No.	Section	Size (mm)	4' EX	8' EX
DWARF SIDES				
D673		1114	2	
D609		1160	4	8
RUBBER		1000 (1m)	10	20

Part No.	Section	Size (mm)	4' EX	8' EX
STANDARD SIDES				
D131		1630	2	
D066		1676	4	8
RUBBER		1000 (1m)	14	28

Extensions Parts List



Part No.	Section	Size (mm)	4' EX	8' EX
VICTORIAN RIDGE EXTENSION VARIABLES				
DV240		1240	1	
DV206		2480		1
D114		N/A	2	
DV101			1	3



Part No.	Section	Size (mm)	4' EX	8' EX
VIC 6 WIDE BUILDING ROOF				
DV229		704	1	
DV228		1270	2	
DV253		1345	4	8
RUBBER		1000 (1m)	11	22

Part No.	Section	Size (mm)	4' EX	8' EX
VIC 8 WIDE BUILDING ROOF				
D138		1167	1	
DV222		1715	2	
DV254		1790	4	8
RUBBER		1000 (1m)	15	30

Part No.	Section	Size (mm)	4' EX	8' EX
VIC 11 WIDE BUILDING ROOF				
D136		1546	1	
DV223		2376	2	
DV255		2450	4	8
RUBBER		1000 (1m)	20	40

Part No.	Section	Size (mm)	4' EX	8' EX
FS6006		35mm	6	
FS6505 HEX 12mm		12mm	60	72
FS6506 HEX 16mm		16mm	10	14
FS6507 HEX 22mm		22mm	12	36
FS6504 M6 NUT		M6	88	128

SKIP TO PAGE 8.

VICTORIAN 3/4 SPAN ROBINSONS EXTENSIONS VERY IMPORTANT INFORMATION:

With 3/4 span models with extensions lengths are achieved using 4' and 8' side and roof extensions and 6' and 8' valley extensions. 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 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 bar to accommodate a reinforcing channel (12mm bolts must be used here, 16mm bolts will get in the way when fitting the square a-frame tubing). You only need two side diagonal braces per building, move them towards the end gables. You will notice that unlike your common length / core (porched models) the ridge, gutters and cills on 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 or core. 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.

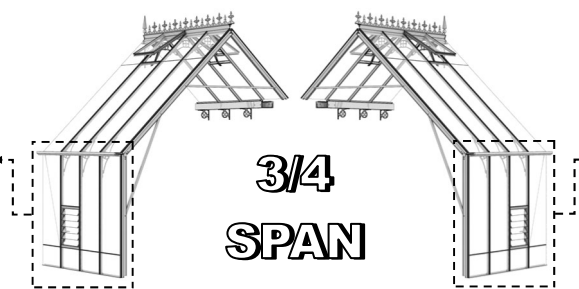
Be careful not to mix up your extension cills and gutters. There will be a separate gutter and cill for the left and right side extensions. In addition one set of holes in both the gutter, cill, and ridge sections are slightly closer together (**586mm instead of 620mm**). When fitting the extension ridge, 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 pages 8 and 9 for more details.

Examples:

A 13x16 Ruthin = an 8' core with a 4' extensions either side of it. The 16' valley is made up of up of a 8' D1072 (2617mm) valley and an 8' extension D1074 (2480mm) valley.
A 14x36 Rochester = a 12' core with a 4' and an 8' extension either side of it. The 36' valley is made up of a 12' D1070 (3857mm) valley with two handed 6' extension D1083 (1860mm) valleys either side of it.

Part No.	Section	Size (mm)	4' EX	8' EX
LEFT HAND SIDE EXTENSION				
D075L		1240	1	
D024L		2480		1
DV241L		1240	1	
DV214L		2480		1



Part No.	Section	Size (mm)	4' EX	8' EX
RIGHT HAND SIDE EXTENSION				
D075R		1240	1	
D024R		2480		1
DV241R		1240	1	
DV214R		2480		1

Part No.	Section	Size (mm)	4' EX	8' EX
D114		N/A	1	
D136		1546	1	
D174		N/A	1	3
DV100			1	3
DV153		N/A	2	
DV227		N/A	1	



Free-Standing
& Dwarf 3/4 Span
Extensions

Part No.	Section	Size (mm)	4' EX	8' EX
DWARF SIDE				
D673		1114	1	
D609		1160	2	4
RUBBER		1000 (1m)	5	10

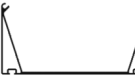
Part No.	Section	Size (mm)	4' EX	8' EX
STANDARD SIDE				
D131		1630	1	
D066		1676	2	4
RUBBER		1000 (1m)	7	14

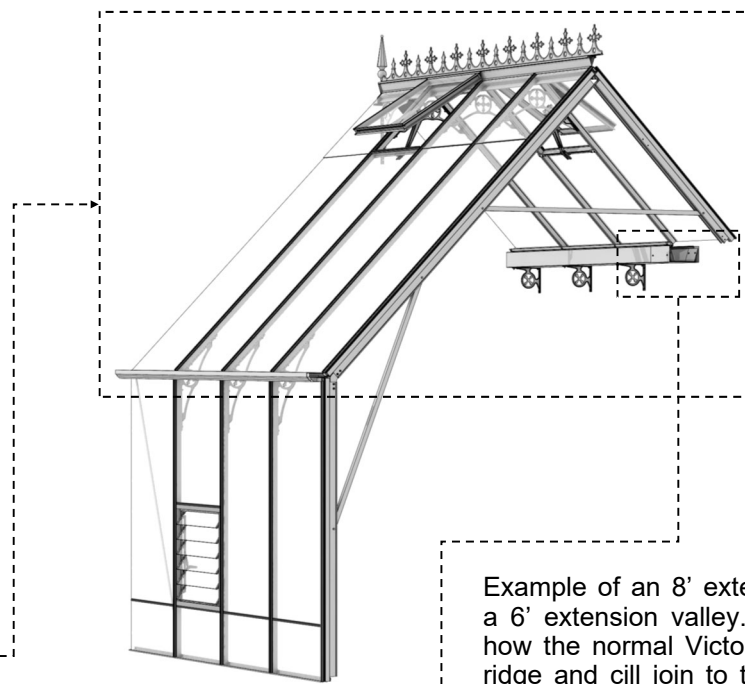
Part No.	Section	Size (mm)	4' EX	8' EX
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VICTORIAN 3/4 ROOF EXTENSIONS

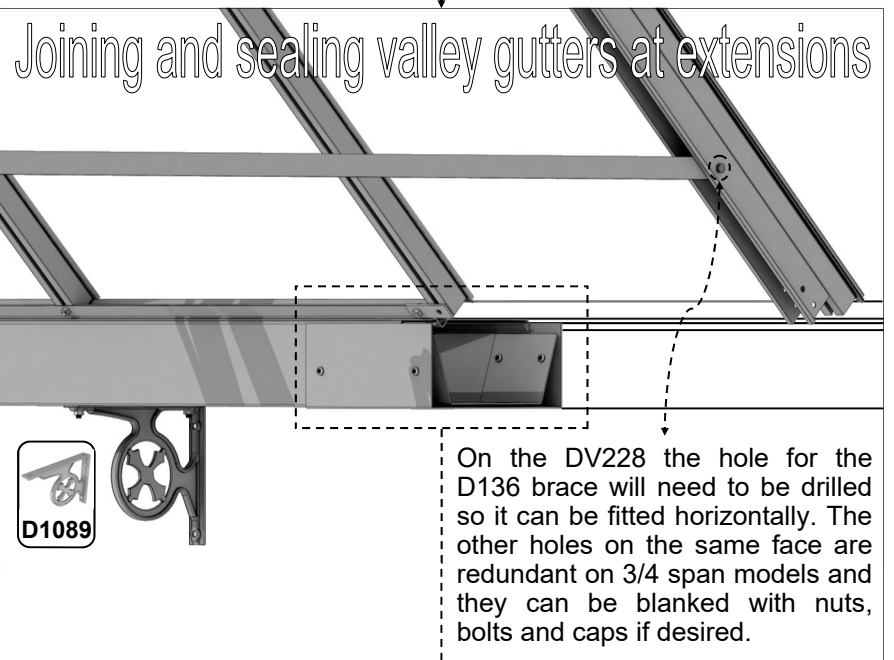
DV240		1240	1	
DV206		2480		1
D114		N/A	2	
DV101			1	3
D136		1546	1	
DV228		1270	1	
DV223		2376	1	
DV253		1345	2	4
DV255		2450	2	4
RUBBER		1000 (1m)	16	31
FS6006		35mm	4	
FS6505 HEX 12mm		12mm	41	31
FS6506 HEX 16mm		16mm	6	8
FS6507 HEX 22mm		22mm	8	24
FS6504 M6 NUT		M6	59	67

Part No.	Section	Size (mm)	6' EX	8' EX
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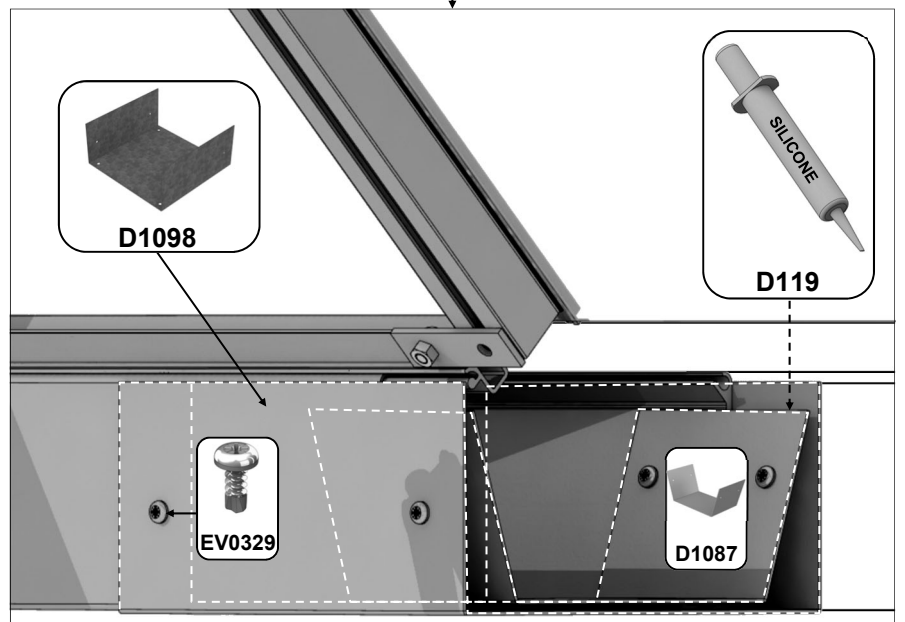
D1074		2480		1
D1083		1860	1	
D1080L		2480		1
D1080R		2480		1
D1084L		1860	1	
D1084R		1860	1	
D1087		N/A	1	
D1089		N/A	3	4
D1097	GUTTER SEALANT	300ml	1	
D1098		206	1	
D114		N/A	1	
EV0329		13	6	
SYSCR2		50	6	8
SYRAWL		50	6	8



Example of an 8' extension with a 6' extension valley. Details of how the normal Victorian gutter, ridge and cill join to the core or common length building are shown on pages 8 and 9.



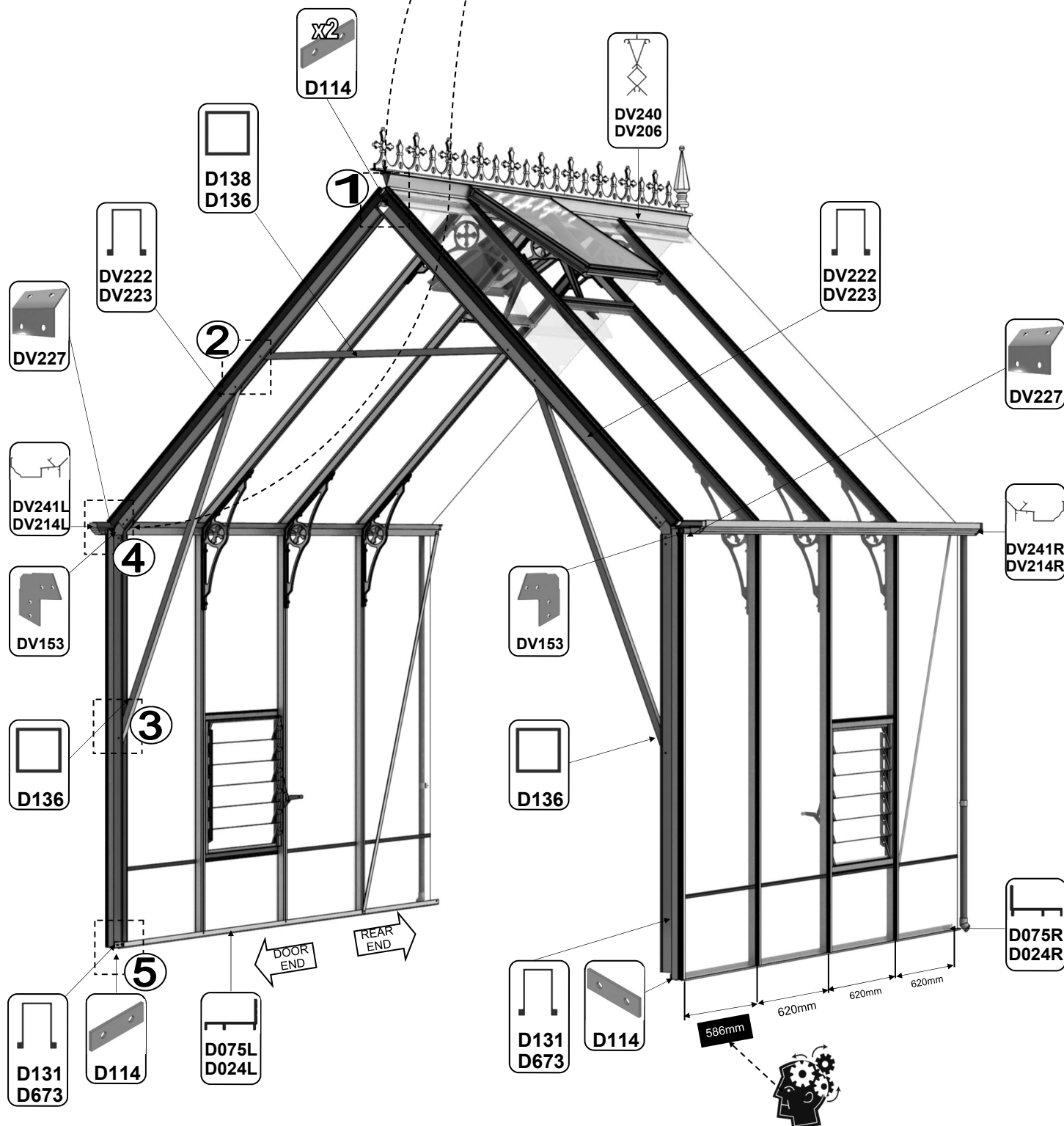
On the DV228 the hole for the D136 brace will need to be drilled so it can be fitted horizontally. The other holes on the same face are redundant on 3/4 span models and they can be blanked with nuts, bolts and caps if desired.

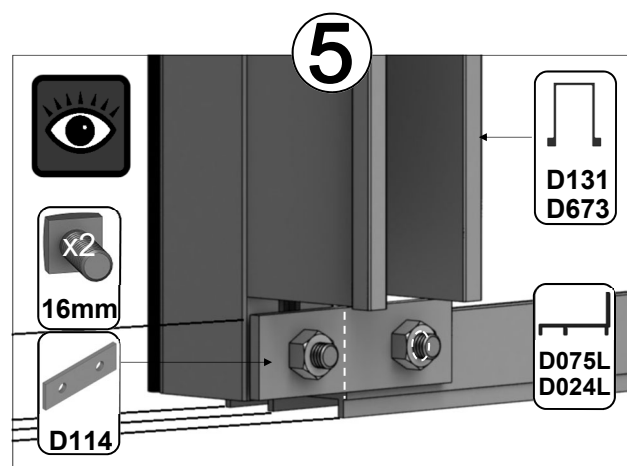
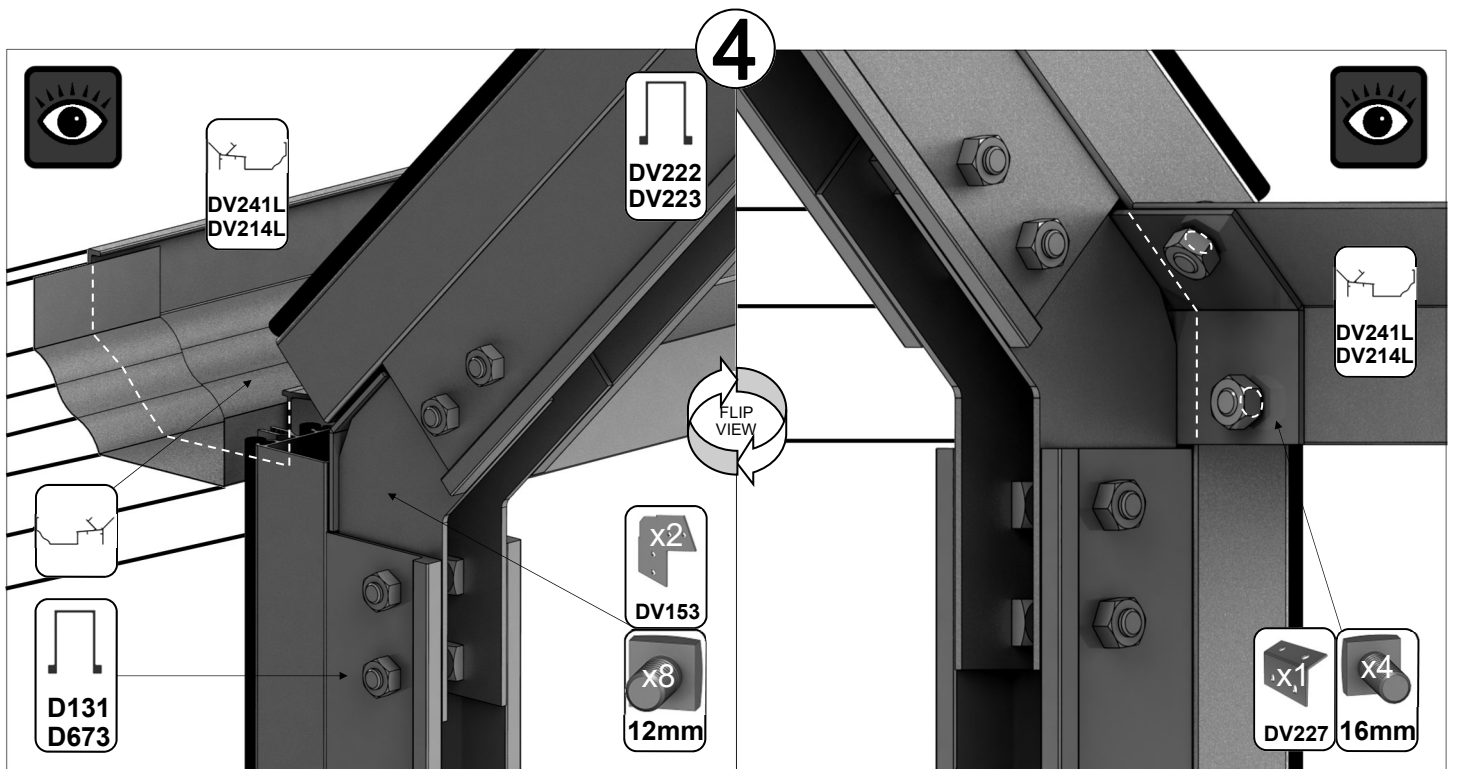
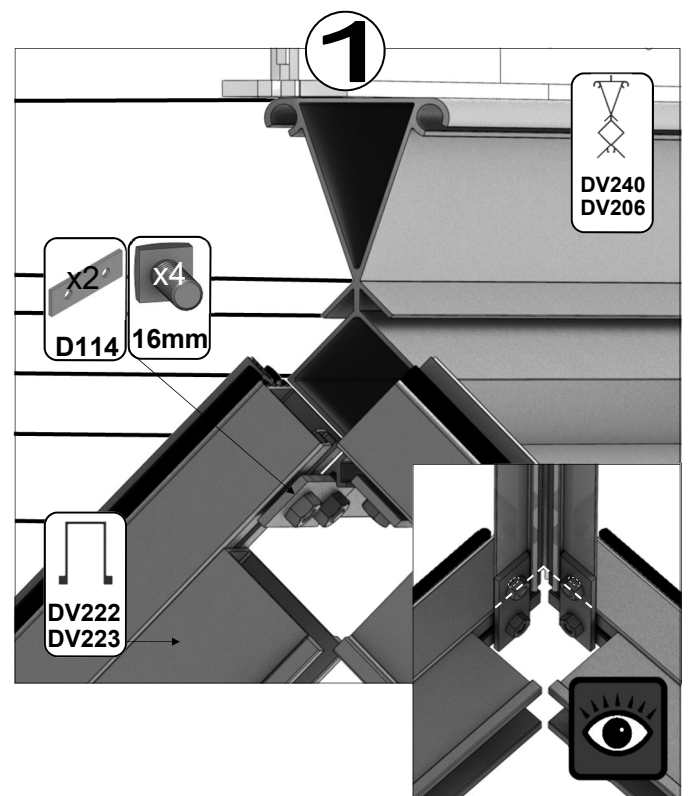
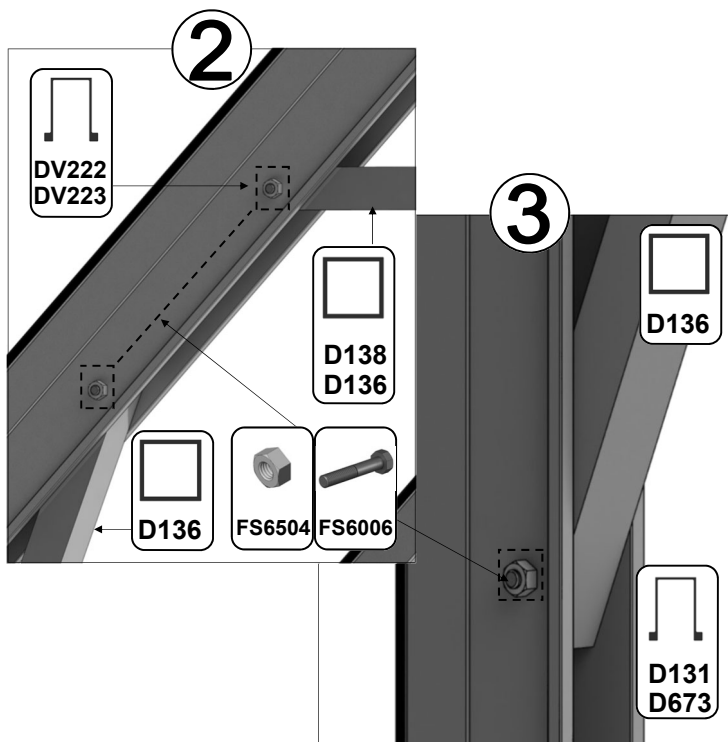


Free-Standing & Dwarf Extensions

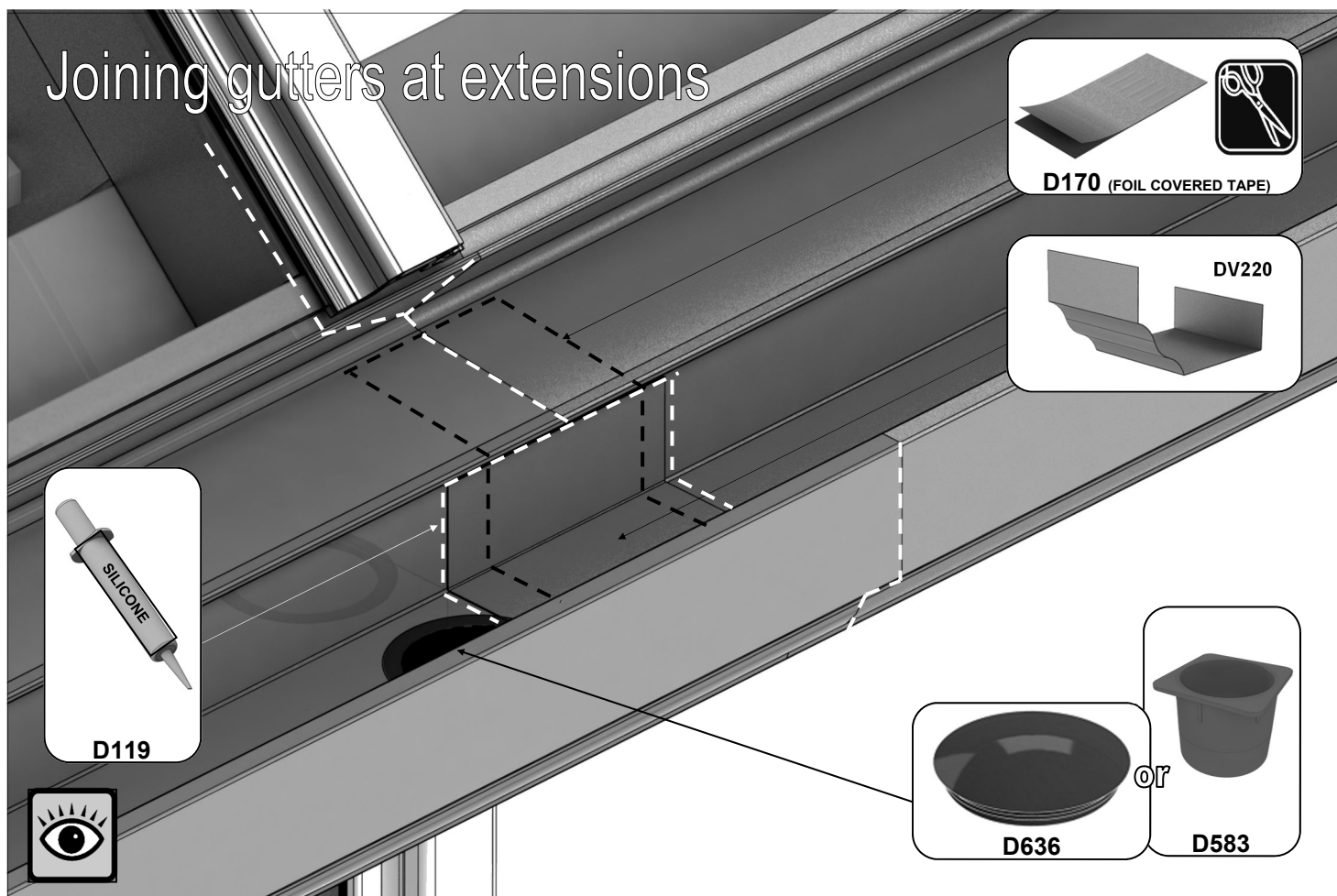
(8' WIDE X 8' LONG EXAMPLE SHOWN)

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.

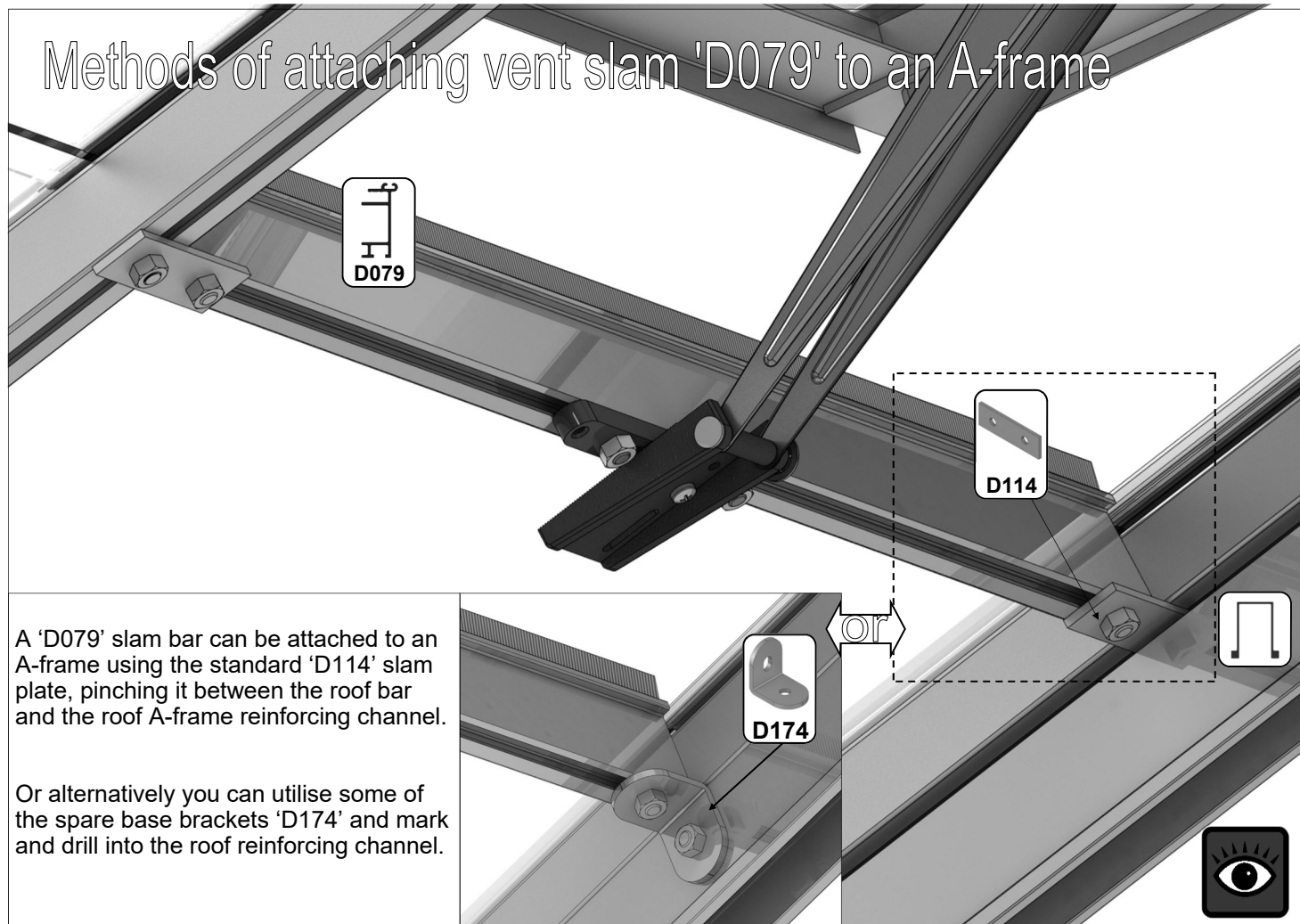




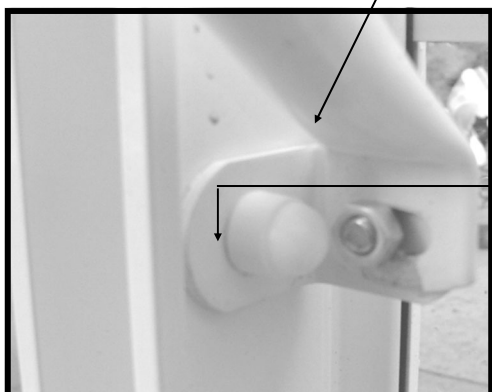
Joining gutters at extensions



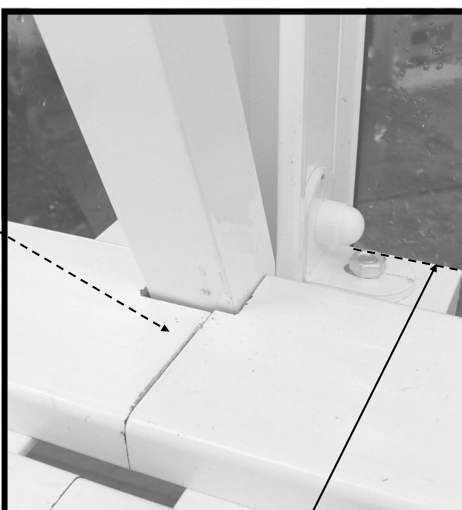
Methods of attaching vent slam 'D079' to an A-frame



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.



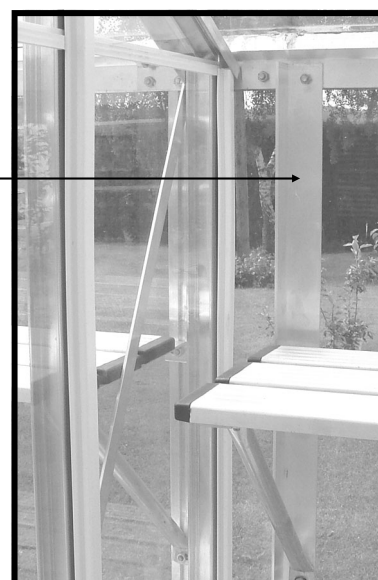
900mm up from bottom of base rail.



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 your base / floor for **staging**, and your **shelf** is best fitted just below your eaves spandrels DV100).

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 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.

