

These instructions are divided into sections highlighted by a white number/letter on a black background at the bottom corner of most pages (see opposite page for details); part lists, B-base, P-preparation, 1-rear, 2-porch gable, 3-end gables, 4-porch sides, 5-main frame assembly, 6a-rear roof, 6b-porch roof, 7-vent, 8-louvre, 9-glazing, 10-vent attachment, 11-door attachment, 12 anchoring down, 13 finishing touches, 14 optional shelf, 15 optional staging. If you need to contact us for assistance please refer to the relevant section/s. If your building is longer than 12', i.e. has an extension then please also refer the separate extension manual before you begin construction.

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. Some parts are numbered and can be identified by a stamped or hand written number (without the 'D'). Alternatively, the com-

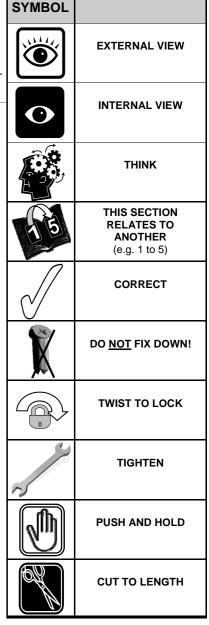
ponents can be identified by their distinctive profiles, lengths and quantities detailed in the parts list (see next page).

- 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 pivot pins / lock etc...

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.





KEY DESCRIPTION

KEY

SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
	PARTS LIST	Most components should have a 'D' code punched into their metal surface. Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections 1 - 13 shown below. Parts can also be identified by their profile pictures and stated lengths at
В	BASE	lengths etc Base dimensions and recommendations. Ensure that your base is level as this will make assembly of the building, especially the glazing of the roof much more straight forward. Please be aware that the hinge door on your greenhouse opens inwards, make sure that there will be no interference between the door and the foundations.
Р	PREPARATION	Tools required. <u>IMPORTANT</u> : Use WD40 or similar in the glazing bar channels and insert the black glazing rubber prior to frame assembly.
1	REAR	Take the glazing bars 'D066' with the rubber inserted and the diagonal braces 'D103', use 10mm bolts to join them to the gutter and 15mm bolts to the cills (note how the head of the bolt slides into each glazing bar during construction). Please also remember to slide in your 22mm bolts for attaching the decorative eave spandrels 'DV100' in section 6.
2 / 3	PORCH GABLE END GABLES	Again ensuring that the gable framework is rubbered-up follow the diagrams to assemble each gable in the building. Make sure that you have inserted the extra bolts utilised in sections 4 and 5. On the roof and side corner bars not every rubber channel will require rubber unless it is to be utilised in a partition (see separate manual and section P).
3 4	PORCH SIDES	The porch sides (the L-shaped area to the left and right of the porch gable between cills and gutters level) can either be built in situ piece by piece or built away from the structure as an L-shape and then attached in a similar manner to plain gable/s to rear. Please ensure that where
5	MAIN FRAME ASSEMBLY	relevant you slide 2 x 22mm bolts into the side bars for the attachment of the eaves spandrels. Take the rear (1) and the end gables (3) and join them together on your base. It is a good idea to tie some ladders to the sides to support them if you do not have anyone to hold them for you. Once the porch sides (4) have been attached to the main building then the porch gable (2) can be inserted between them in the same way you would attach a end gable to the rear. You will now have a T-shaped framework. It is important that you check that the internal diagonal measurements within the building are equal to ensure that the building is square, spending a little time on this now will speed up roof assembly and glazing. On buildings longer than 12' the end gable (1) should attach to the extension sides (see separate manual) first before the rear maintaining 620mm spacings, e.g. a 16' building = end (3), 4' handed extension sides, 8' rear (1), 4' handed extension sides, end (3).
6a 6b	REAR ROOF PORCH ROOF	Attach the main ridge between the end gables and then the rubbered-up roof bars 'DV255' ensuring that they are fully butted up to the ridge and down onto the gutter. Attach your cresting before you glaze the building to give yourself more room to work. Utilise the 22mm bolts slid into the rear (section 1) and roof bars to attach your DV100 and DV101 spandrels. On longer models you may need to carefully prop up the roof and tie the sides together to keep the ridge and gutters straight (i.e. not sagging or bowed) until the building is fully glazed. The porch ridge can be fitted to the porch gable supporting its free end with ladders or a wooden sprag. The porch higs 'DV381' can now be attached between the welded porch gutter sections and the free end of the porch ridge. A 'lower' height porch utilises a DV380 bracket to allow the porch ridge to connect to the main module. Identify all of the handed roof bars and look for their locations. Insert the rubber into their channels and when attaching ensure again that were relevant you slide in 22mm bolts for eave (x2) and roof spandrels (x2). Eave and Roof sprandrels can now be attached using the previously inserted 22mm bolts. The ladders / sprag supporting the porch ridge free end can now be removed.
		Prior to glazing the cresting and finials should be siliconed into place. Attaching them once the glass has been installed by leaning through vent apertures is more time consuming.
7a	VENT	Once the vent is glazed add silicone to the vent sides and top. Stand the vent/s on their hinge (vent top) and then leave the silicone to set.
7b	VENT SLAM	The slam bar 'D079' can be moved up and down between the roof glazing bars so that it can be butted down onto the pane of glass beneath, the autovent will be attached to it later on (10).
8	LOUVRE	They attach to the building during the glazing process (9) like a piece of glass with a black separator above and below them. If you are fitting an optional auto-louvre then you need to carefully drill (3mm bit) out the rivets which mount the handle to the frame. You can then either utilise
9	GLAZING	those holes or create more to mount the unit. Layout the bar cappings and covers around the building like a sundial checking that all is present and correct. You can also place the roof cappings in the gutters so they are closer to hand. The glass in the sides has to bevel on the black separator strip which is on top of the 305mm high glass base panels. This bevelling action allows the glass to tuck underneath the gutter canopy. Use the capping and the self tapping screws to then hold the glass in place. The covers then enclose the screw heads giving a neat finish. It is a good idea to glaze two roof sections first to ensure the building is square followed by two side sections to ensure the building isn't leaning. We would then recommend that you glaze the porch roof and its adjoining angled roof panes whilst the building still has some movement in it. The porch cowling 'DV341' should be attached before the vents are inserted so that access through vent apertures is available. Silicone the
		cowling area internally, position cowl and VERY carefully (avoiding glass below) mark, drill and screw x 2 'FS6018' into place. IMPORTANT: Silicone the cowling externally and check with watering can than the cowl is water tight, note silicone can be moulded shortly after application if you wet your fingers. IMPORTANT: On the roof sections please make sure that you place a screw around 25mm / 1" from the bottom of each capping strip (create a
10	VENT	hole in the plastic if required) and that the screws are nice and tight to avoid any glass slippage. Take the assembled vent and slide the vent hinge 'D866' into the end of the ridge allowing the vent to pivot open and closed. Vent stops go either side of the vent to stop any lateral movement (so insert stop / vent / stop). Attach the Bayliss XL autovents.
11	DOOR ATTACHMENT	Your door comes pre-constructed and locked minus the handles and their pivot pin but now it needs to be mounted to the front end of your building. Utilise the 'DV522' plates and twist in crop headed bolts to join the door and its frame to the building (pinch the door frame against your long front verticals whilst tightening your 'DV522' plates to ensure that there is no gap). If you are struggling to eradicate the gap between the door frame and verticals then some silicone can be carefully applied to the area to create a vertical seal. Be careful not to lock yourself in the building and to avoid damage do not open the door until it is attached to the front gable. Getting the door to swing perfectly without dropping or rubbing on the ground may require some small but vital adjustments. You may also need to insert a packer underneath the door frame hinge to increase ground clearance. Part 'DV275' canopies the door frame top hiding the clearance space at the top of the door. The door can only be made to swing inwards.
12	ANCHORING DOWN	IMPORTANT: Please do NOT let the door slam open or closed as it is likely to cause damage to the door and the frame. Please twist the handle to open and close. Please also be aware that your door KEYS (3 provided) are unique to the building so they should not be stored together. Now that the greenhouse is finished and the door and vent/s are operating without interference then you need to anchor the building down using 2" rawl plugs and screws. Use a 7mm masonry bit in a hammer drill to create the holes.
13	FINISHING TOUCHES	Now that the main body of the structure is complete you can add; downpipe fittings, eave bungs, gutter stop ends. It is also important to carefully apply some silicone to the internal eaves corners and external and internal ridge corners to minimise the chance of water entering the structure.
14	OPTIONAL REAR SHELVING	Robinsons integral cantilever staging and shelving attaches to the inside of the greenhouse frame using either square head bolts (insert four into each side glazing bar 'D066' during construction of the rear (1)) or rectangular 'crop head' bolts which can be fitted retrospectively (both sets of bolts accompany the shelving/staging). This system allows the height of either the staging or the shelf to be set at an operator specific
15	OPTIONAL REAR STAGING	height. Commonly the staging brackets are set 900mm from the cills though you can alter this to suit the end user/s. The aluminium shelf / staging slats come in two lengths; (4'):1240mm 'D2002' and (6'):1860mm 'D2003'. These slats can combine to create any length of staging required, i.e. 4'+6' = 10' etc





Section Part No.	Section	Size (mm)	
------------------	---------	--------------	--

	D021		2514	1
	DV210		2517	1
1	D103		1787	2
	D066		1676	3
	RUBBER	Q	1000 (1m)	11
	D174	6	N/A	2

	DV224L	1		1
	DV224R		540	1
	D048	₹	1676	2
	DV233L	بيا		1
	DV233R		2173	1
	DV269		468	2
	DV290	DV290 1679		2
	DV250L		1045	1
2	DV250R		1345	1
	D671		610	1
	DV275		904	1
	D163	000	90	2
	DV104		N/A	2
	DV105		N/A	1
	RUBBER	Q	1000 (1m)	20
	D174	6	N/A	4

Victorian Rookley

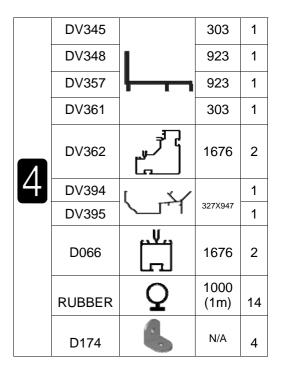
MAIN FRAME QUANTITIES

VENTS / DOORS etc SEPERATE

Part No.	14 8
SYBOL M6X11	
10mm	133
SYBOL M6X11 CROP	
10mm	20
SYBOL M6X15	
15mm	61
SYBOL M6X22	1
22mm	22
SYBOL M6X22 CROP	1
22mm	8
SYNUTM6	
M6	The second
NUT	236
FS6018	-
19mm	2

Section Ref	Part No.	Section	Size (mm)	14 8
-------------	-------------	---------	--------------	---------

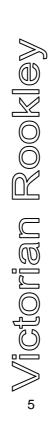
	I	T		
	DV232	لحب	3548	2
	D048	₹	1676	4
	DV235L	بيلام		2
	DV235R		2021	2
	DV237L	ملام		2
	DV237R		2489	2
	DV239L		0000	2
3	DV239R	لما	2960	2
	DV262		3395	2
	DV268		964	2
	DV274		3402	2
	DV292		1794	4
	DV252L	Ľ1	0.454	2
	DV252R		2451	2
	DV104		N/A	4
	DV105		N/A	2
	RUBBER	Q	1000 (1m)	98
	D174	6	N/A	14



|--|

	D982		100	2
	DV100		N/A	5
	DV101		N/A	7
	DV201	∇	2517	1
	DV350		1850	1
6	DV253	[7]	1345	2
	DV255	<u>.</u>	2450	3
	DV365		899	1
	DV375L/R	بيلام	830	1+1
	DV382L/R		1935	1+1
	DV380		N/A	1
	DV381	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1668	2
	DV389		1105	1
	RUBBER	Q	1000 (1m)	36

	D866	, [639	3
7	D863L	الس	613	3
	D863R		613	3
	D862	J.,	593	3
	D079 PLUS FLUFF	JL E	590	3
	D114	4	N/A	6
	D220 PLUS FS6060 SCREW	6	N/A	6
	D205	#	N/A	6



	Section Ref	Part No.	Section	Size (mm)	14 8
	2	Dece		000	4
	2	D662	+	600	1
	1,4	D812	+	1660	9
	6	D823	+	516	1
		D870 DV479	-	601 1384	<u>6</u> 1
	11	DV479 DV633L/R	+	2173	1+1
	2 3	DV635L/R DV635L/R		2021	2+2
	3	DV635L/R DV637L/R	- 1—1 -	2489	2+2
	3	DV637L/R DV639L/R		2960	2+2
	6	DV659L/K		1378	2 + 2
	6	DV655	-	1880	
	3	DV655 DV662	+	3395	2
			-		
	6	DV675L/R DV687L/R	+	863 1365	1+1
	O	DV007L/K		1303	1+1
	2,3	D813		1675	6
	1,4	D834		1660	6
	6	D871		601	4
	6	DV650		1345	2
IOI	6	DV652	•	1871	4
	6	D619		1144	1
	2	D666		602	1
	1,4	D825		1660	15
	2,3	D826		1677	6
	11	DV480		1384	1
	2	DV634L/R		2173	1 + 1
	3	DV636L/R		2021	2 + 2
	3	DV638L/R		2489	2 + 2
	3	DV640L/R		2960	2 + 2
	6	DV656		1378	4
	6	DV658		2481	7
	3	DV668		3395	2
	6	DV679L/R		863	1 + 1
	6	DV688L/R		1968	1 + 1
	6	DV341		N/A	1

11 D522	0 0	N/A	10
----------------	-----	-----	----

	D119	SILICONE		1
	DV120		N/A	6
	D841	19	N/A	6
	D211	PIPE	1625	6
13	D207		N/A	6
	D201	1	N/A	6
	D208		N/A	3
	DV219	1	N/A	3
	DV218	7	N/A	3

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

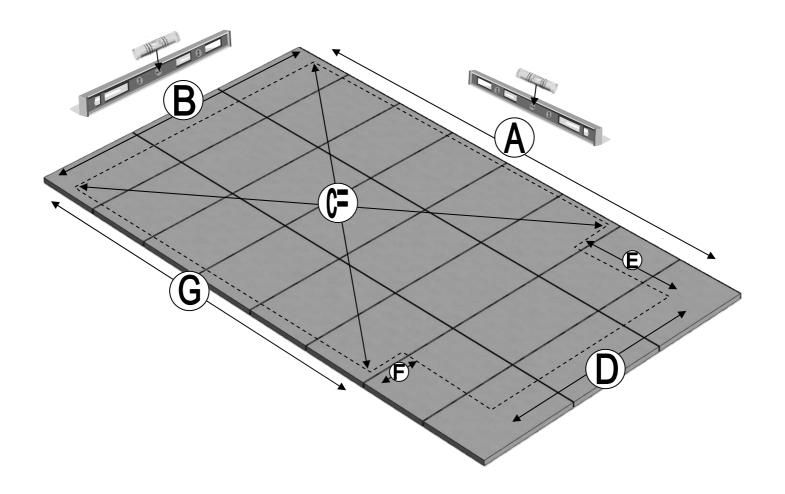
We cannot emphasis how important it is to have a proper base for your Robinsons Greenhouse to be erected upon.

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.

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 and is our preferred foundation.

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).

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.



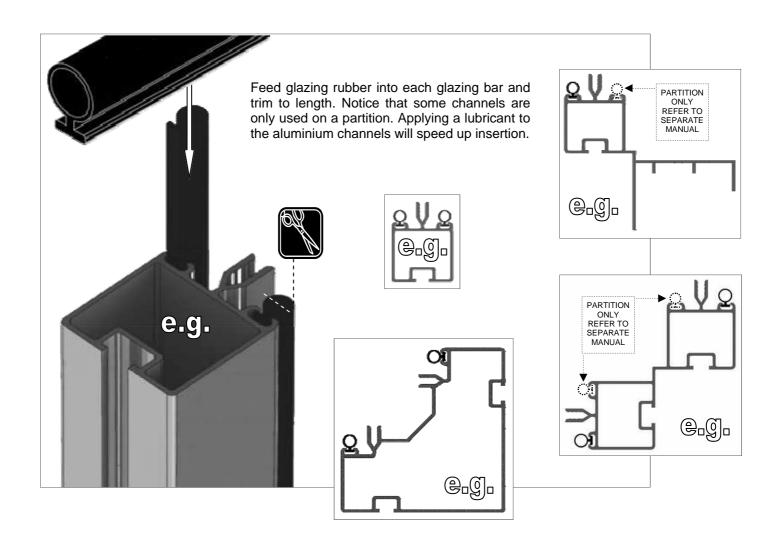
EXTERNAL DIMENSIONS (mm)

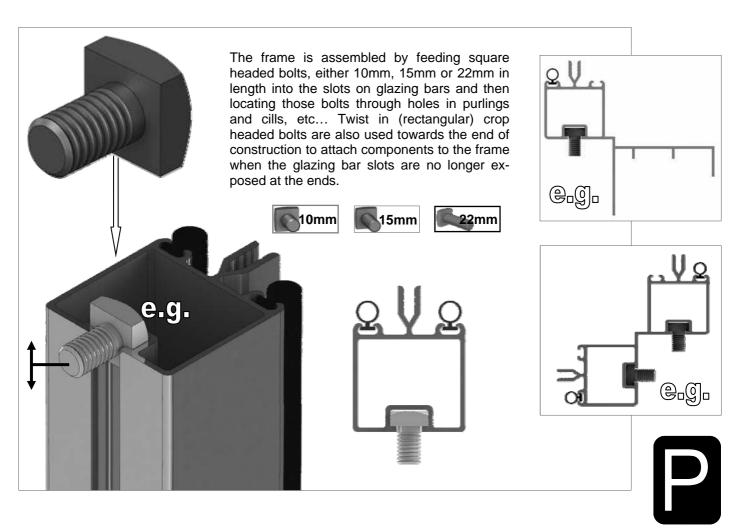
Model sizes listed are nominal, use 'mm' measurements.

i.e.: an 14 x 8 is the model 14'7" x 8'6"

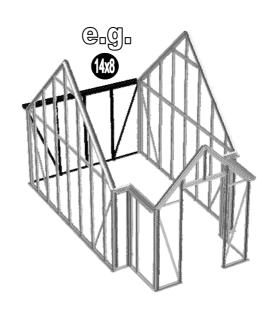
MODE	L	A (mm) TOTAL WIDTH	B (mm) LENGTH	C (mm) DIAG	D (mm) PORCH	E (mm) PORCH DEPTH	$F_{(mm)}$ RETURN LENGTH	G (mm) WIDTH
	14 x 8		2632	4408			330	
14 ROOKLEY	14 x 16	4486	5112	6216	1972	950	1570	3536
VICTORIAN	14 x 24		7592	8375			2810	
	14 x 32		10072	10674.5			4050	

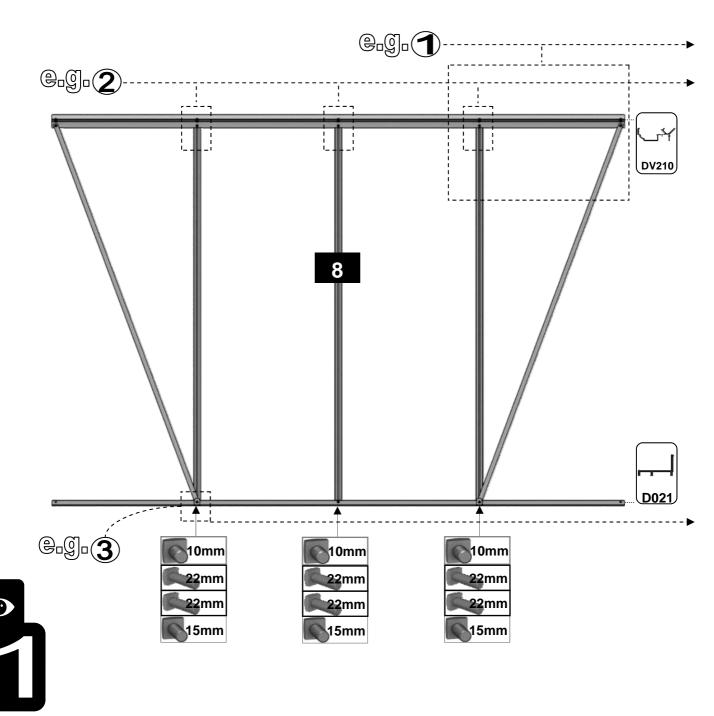


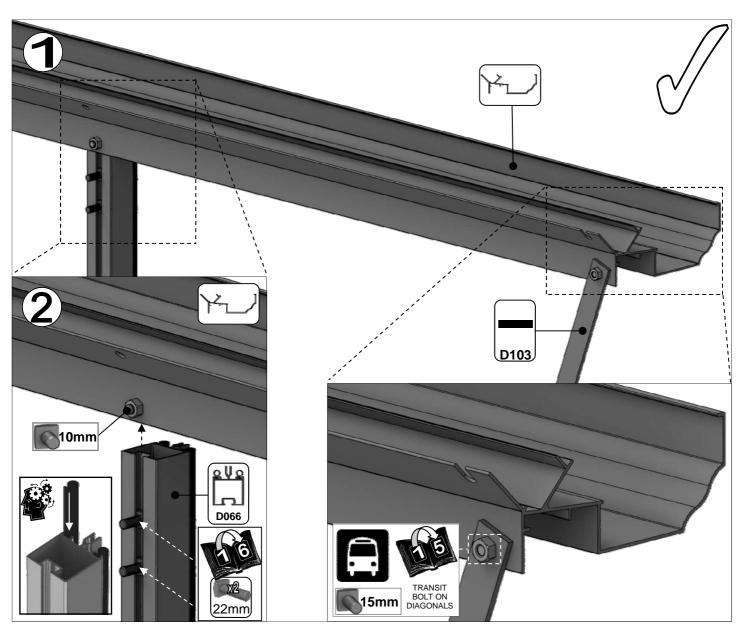


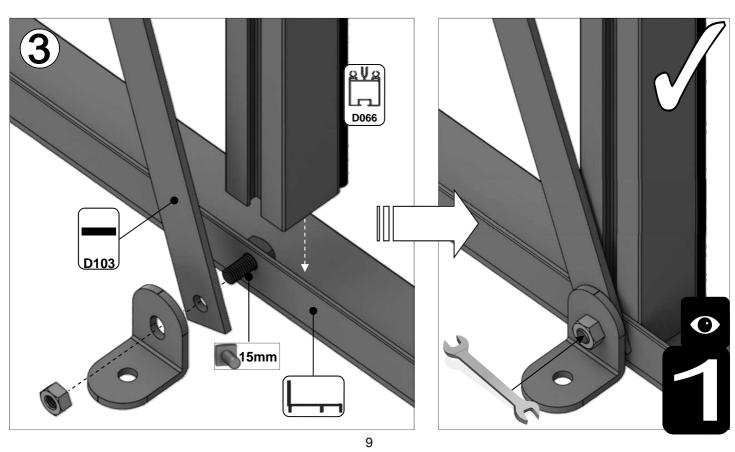


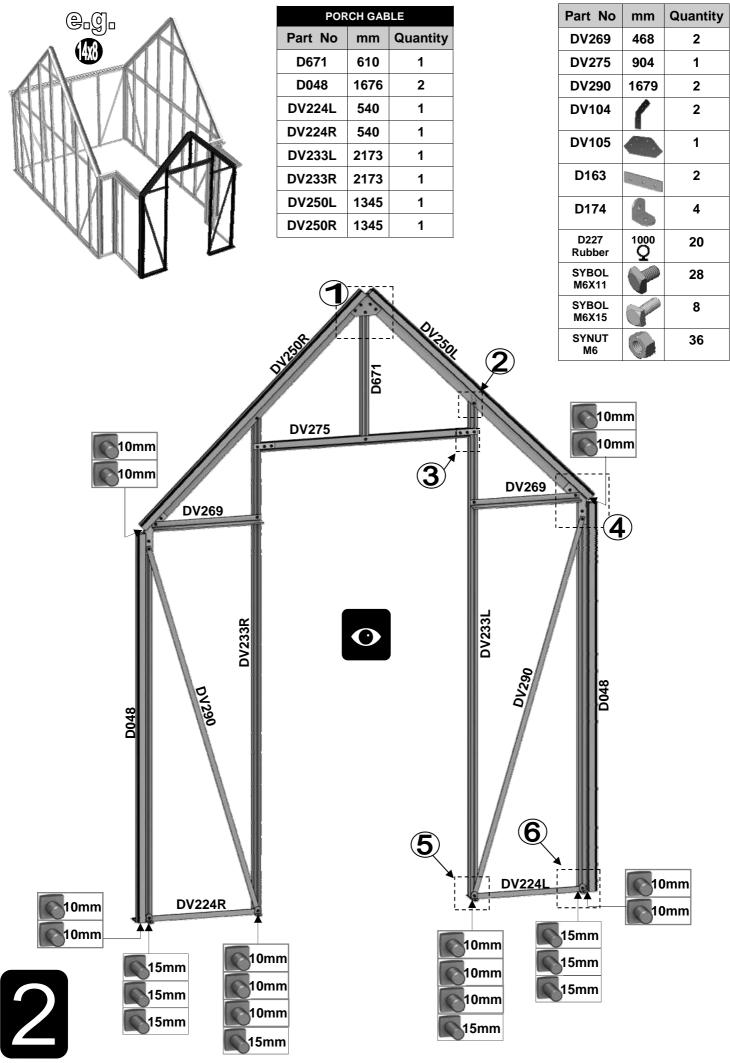
REAF	REAR		
Part No	mm	Quantity	
DV210	2517	1	
D021	2514	1	
D066	1676	3	
D103	1787	2	
D174	6	2	
SYBOL M6X11		3	
SYBOL M6X15	P	5	
SYBOL M6X22		6	
SYNUT M6	0	8	
D227 Rubber	1000 Q	11	

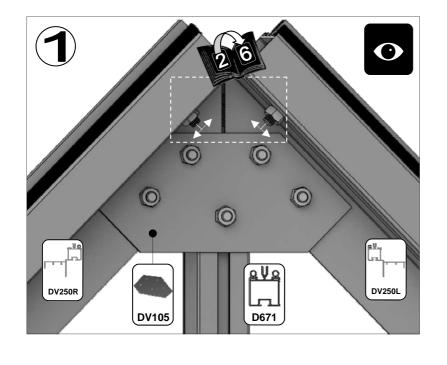


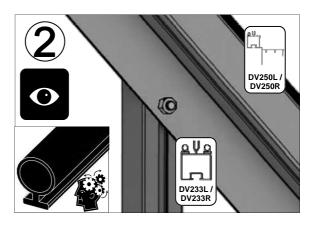


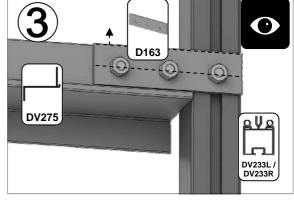


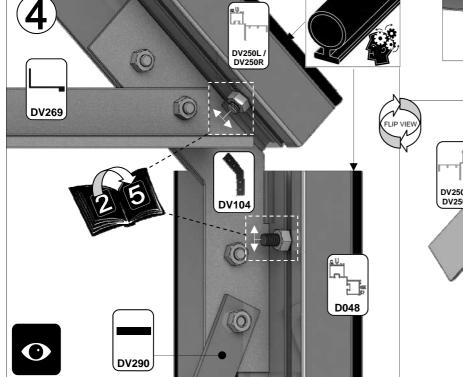


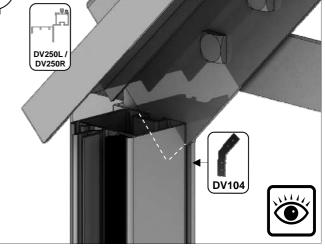


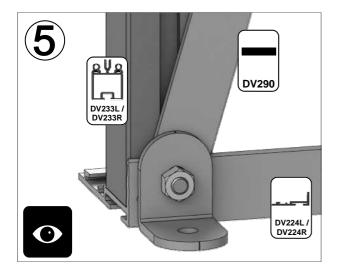


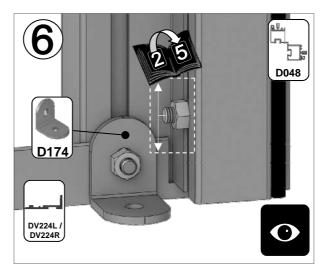










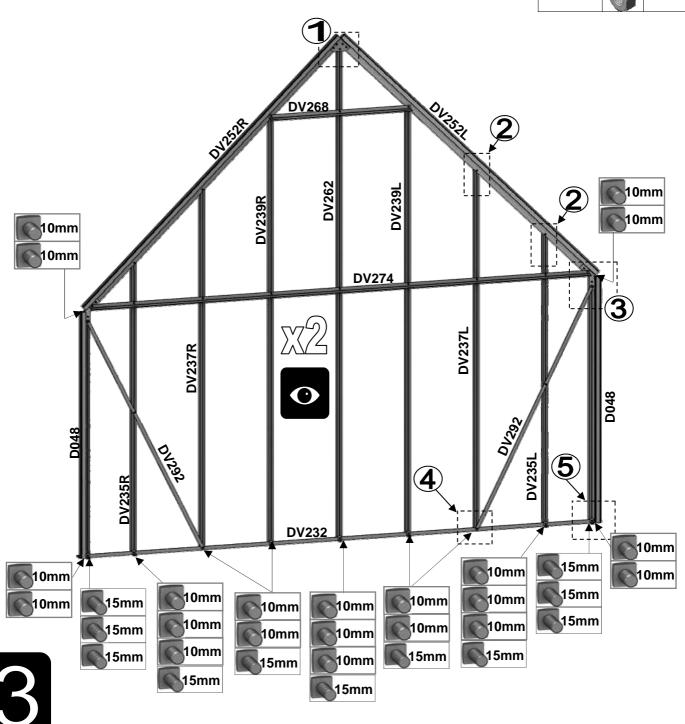


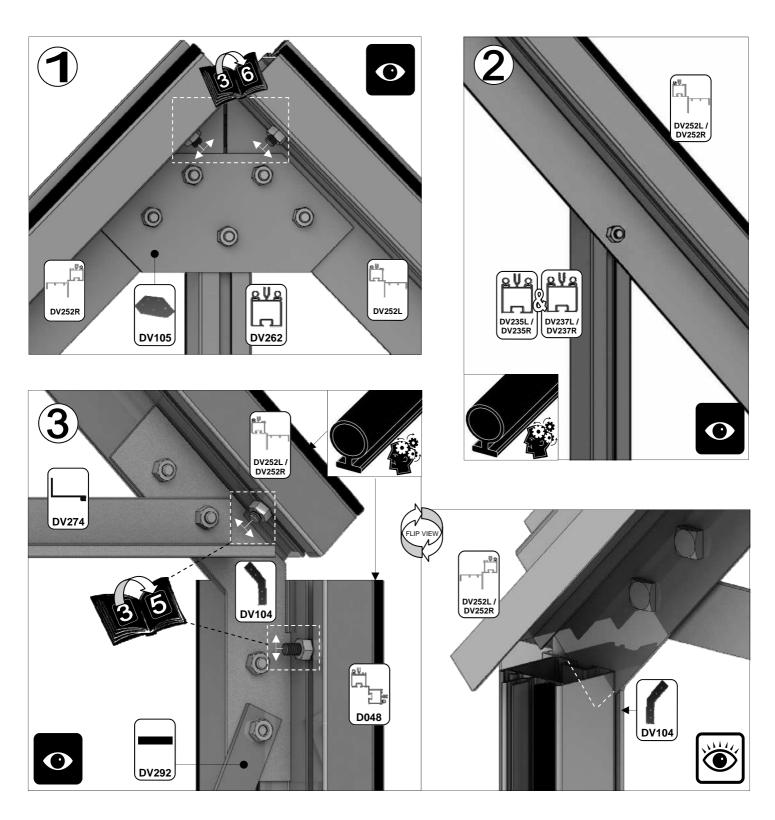


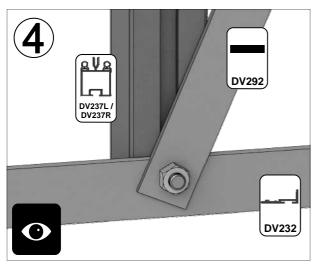


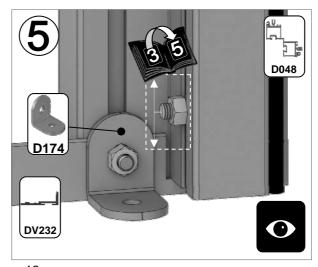
END GABLE X 2					
Part No	mm	Quantity			
D048	1676	4			
DV232	3548	2			
DV235L	2021	2			
DV235R	2021	2			
DV237L	2489	2			
DV237R	2489	2			
DV239L	2960	2			
DV239R	2960	2			
DV252L	2451	2			
DV252R	2451	2			
DV262	3395	2			

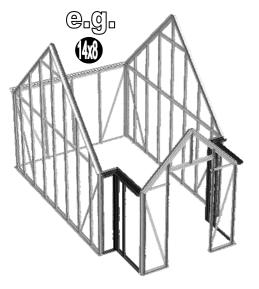
Part No	mm	Quantity
DV268	964	2
DV274	3402	2
DV292	1794	4
DV104	1	4
DV105		2
D174	6	14
D227	Q	98m
M6X10		66
M6X15		26
M6NUT		92

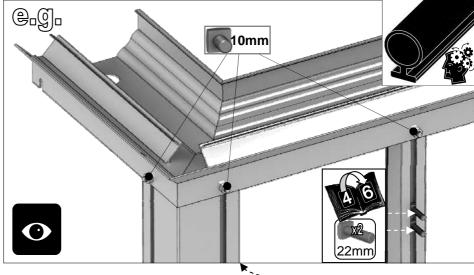




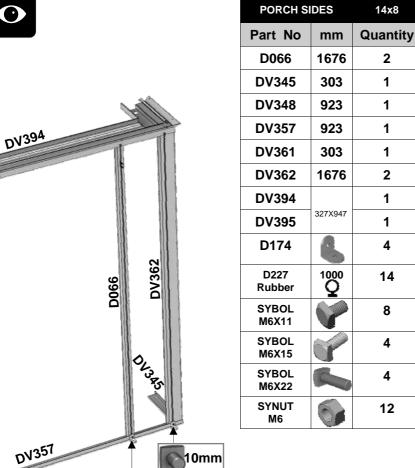




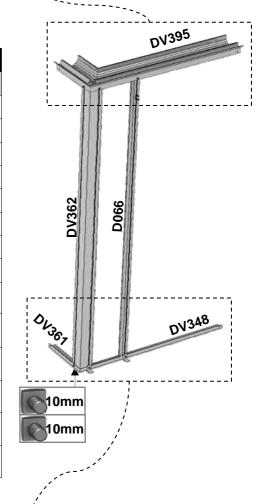






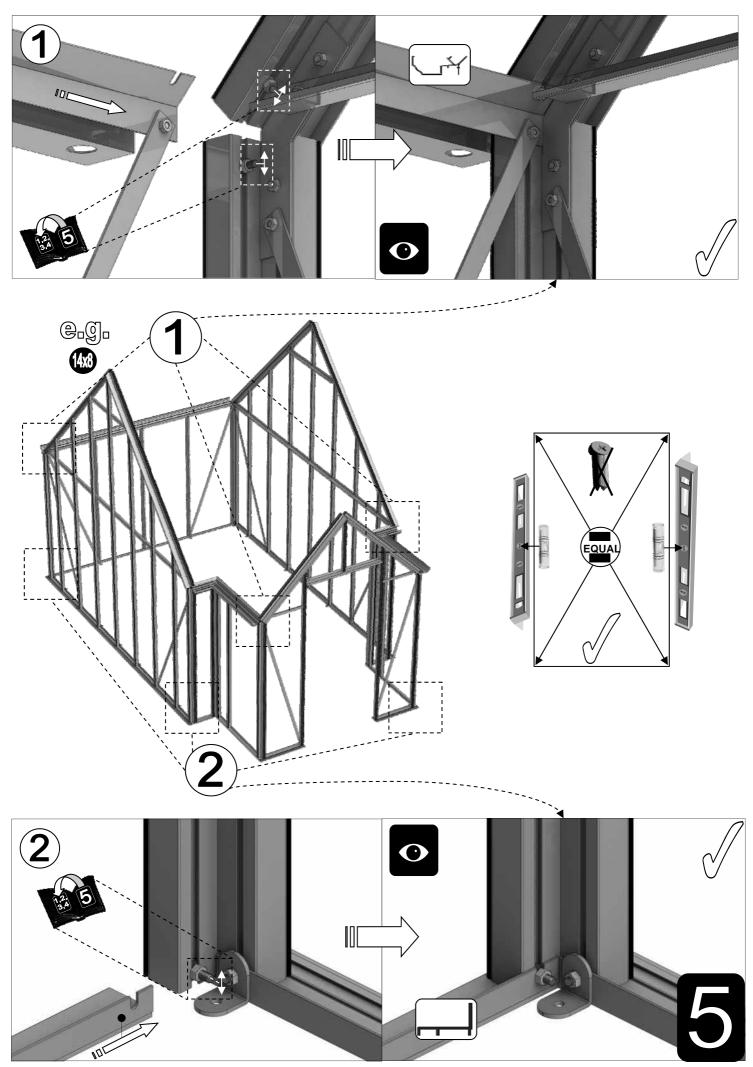


15mm

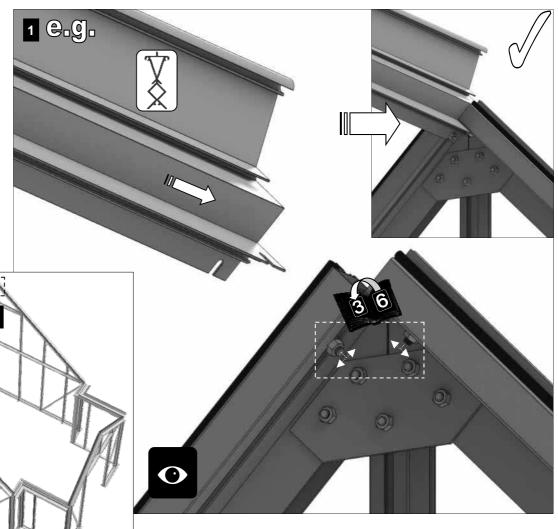


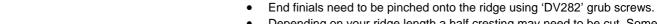


10mm

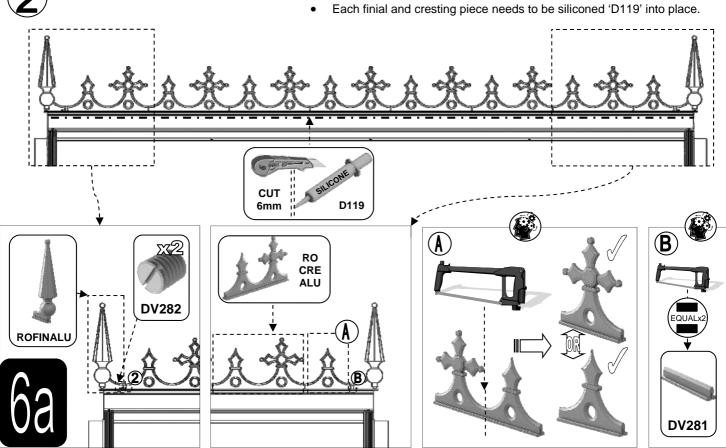


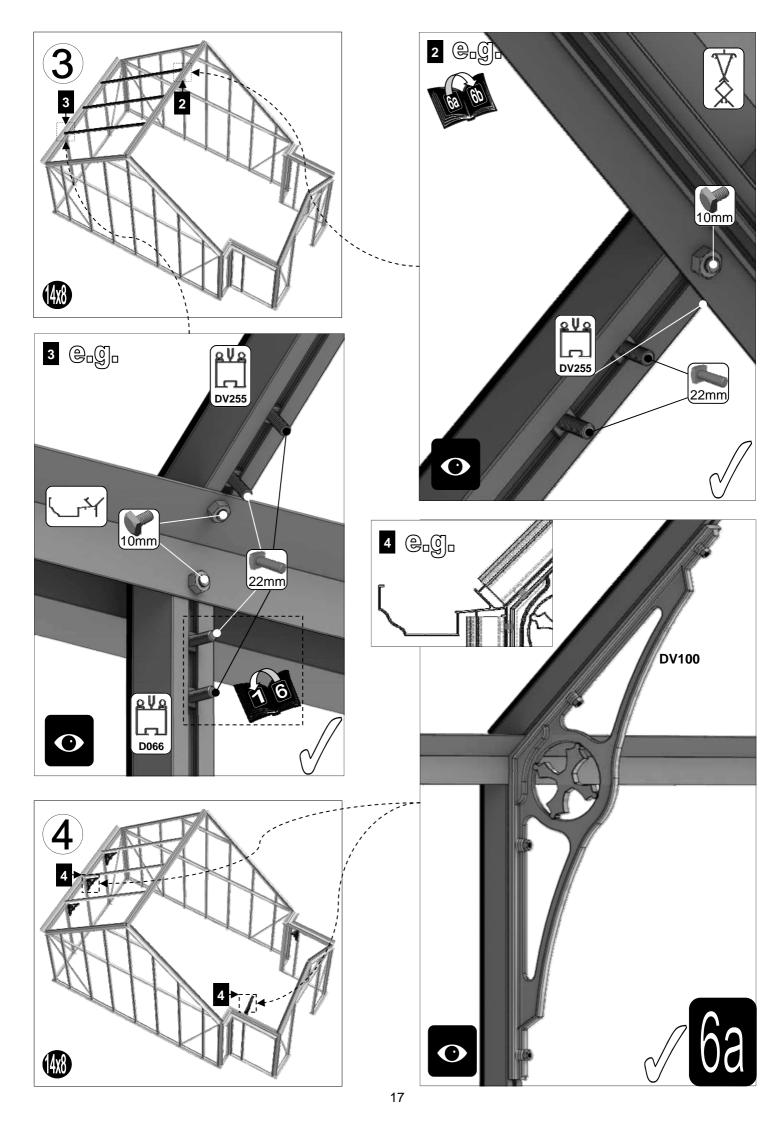




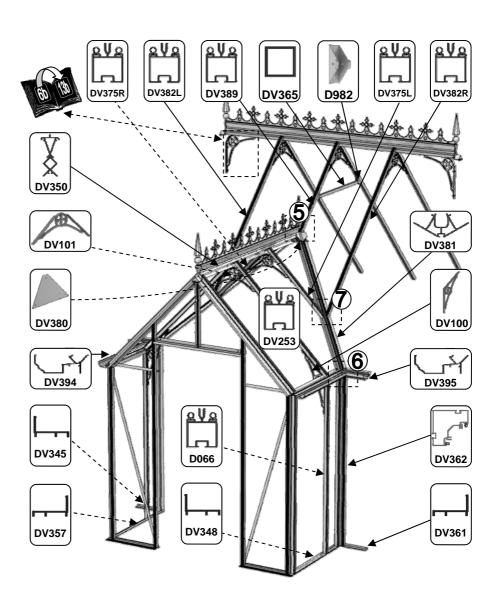


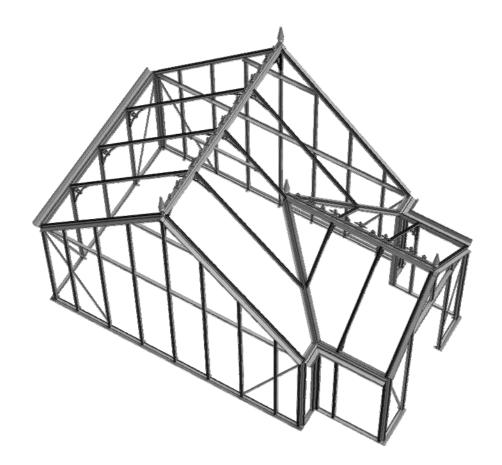
 Depending on your ridge length a half cresting may need to be cut. Some spacer bar may also be required 'DV281' cut into two equal sections.



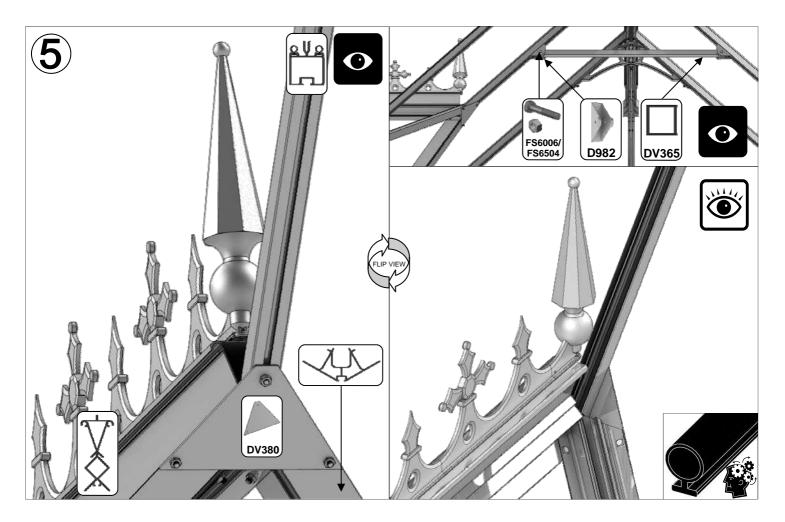


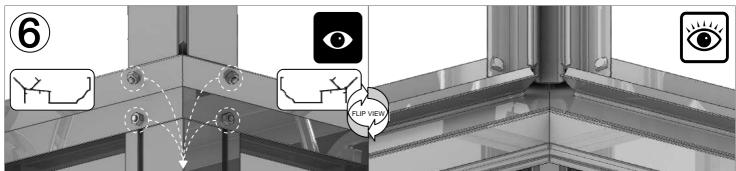
PORCH F	PORCH ROOF	
Part No	mm	Quantity
D982	100	2
DV101	n/a	7
DV253	1345	2
DV350	1850	1
DV365	899	1
DV375L	830	1
DV375R	830	1
DV378L	2368	1
DV378R	2368	1
DV380	n/a	1
DV381	1668	2
DV389	1105	1
D227 Rubber	1000 Q	21
SYBOL M6X11		22
SYBOL M6X22	1	18
SYNUT M6		46



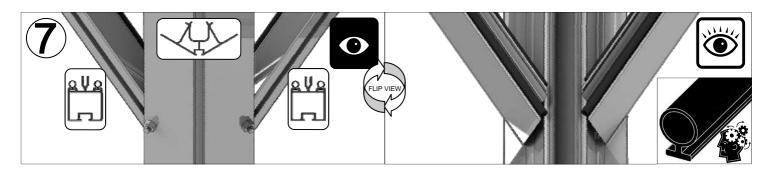


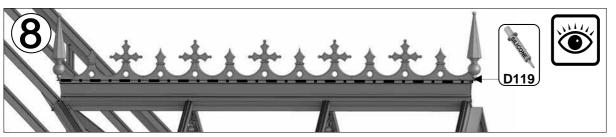




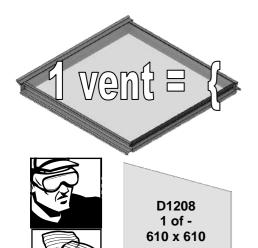


IMPORTANT: Because your porch gutter sections are welded together to eliminate the chance of any leaks the holes circled above can vary slightly in their locations. They may therefore require slight alteration to marry up with DV363 and DV379. Using an 8mm drill bit to enlarge the standard 7mm holes will for example give a little more play to aid fitting.





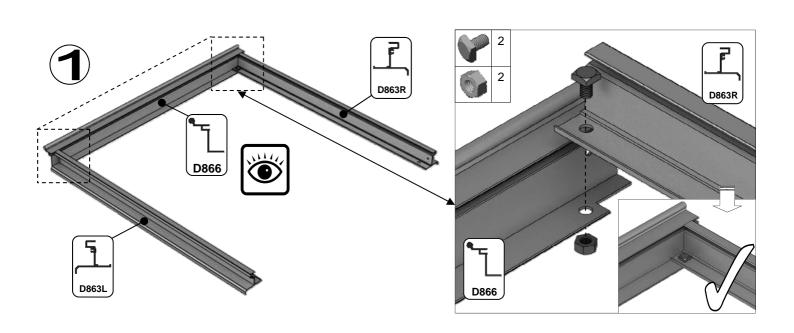


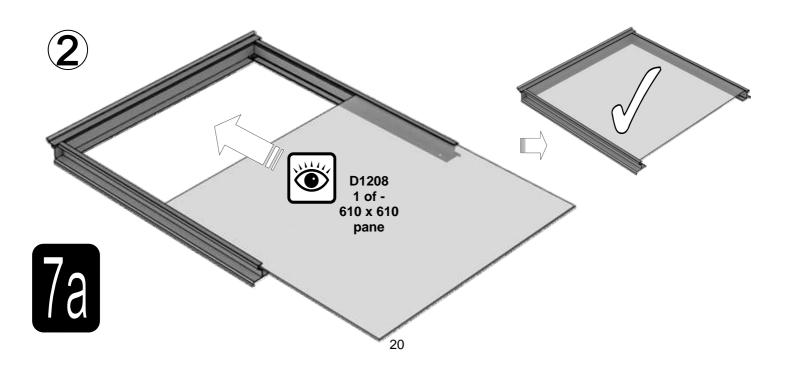


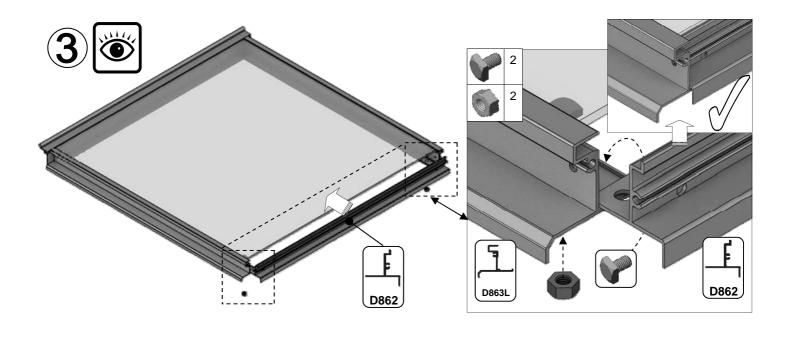
pane

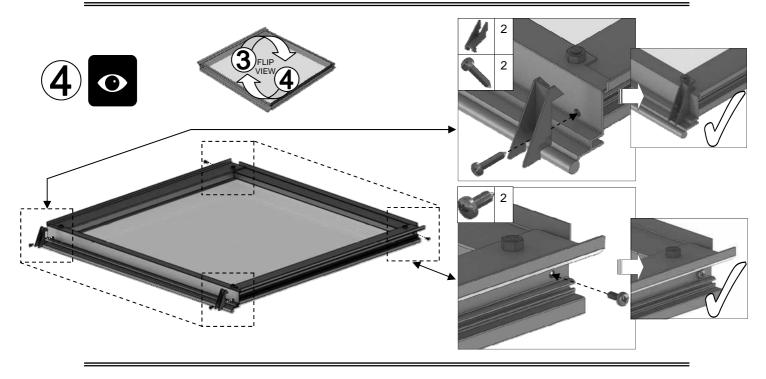
Part No		mm	Quantity
D866	~ _	639	1
D863L	"	613	1
D863R	工	613	1
D862	<u></u>	593	1

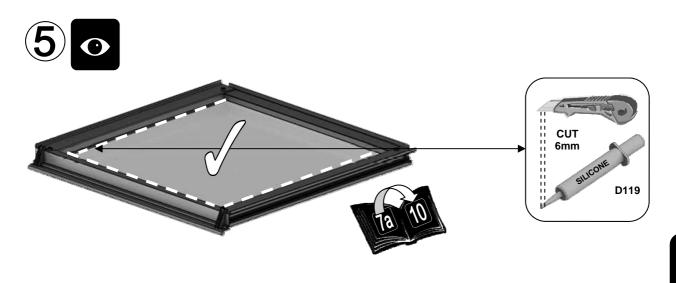
Part No		mm	Quantity
D220 PLUS SCREW		N/A	2
D205	-	N/A	2
SYBOL M6X11		10	4
SYNUT M6	6	M6	4
8 X 12 S/T FS6017	6	10	2
8 x 19 S/T FS6018		19	2







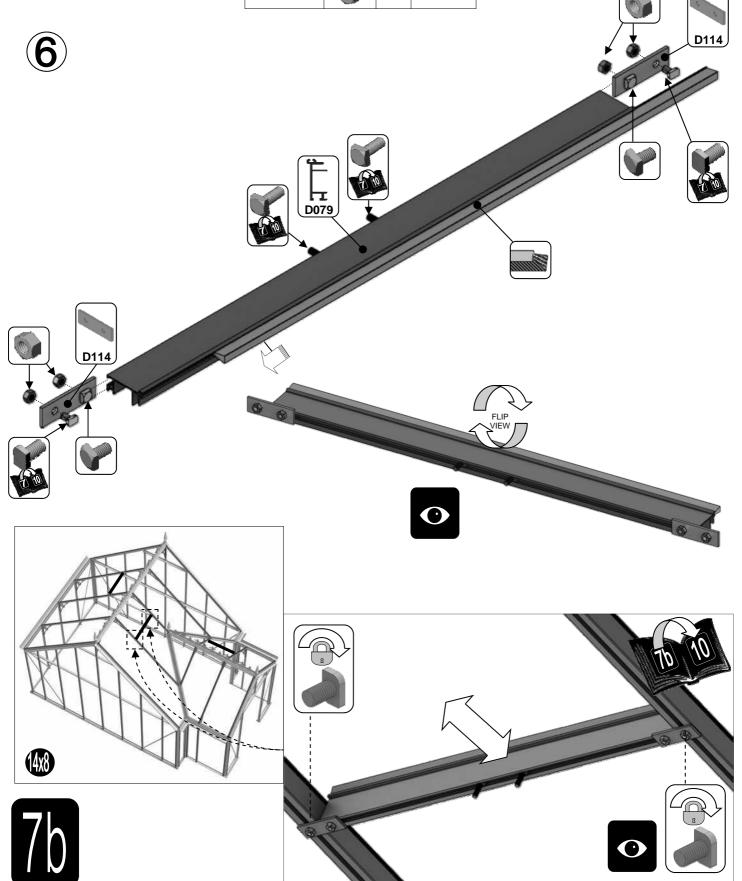


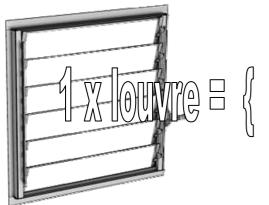




Part No	mm	Quantity
SY- BOLM6X11	10	2
SY- BOLM6X15	15	2
SYBOLM6 X11CROP	10	2
SYNUTM6	N/A	4

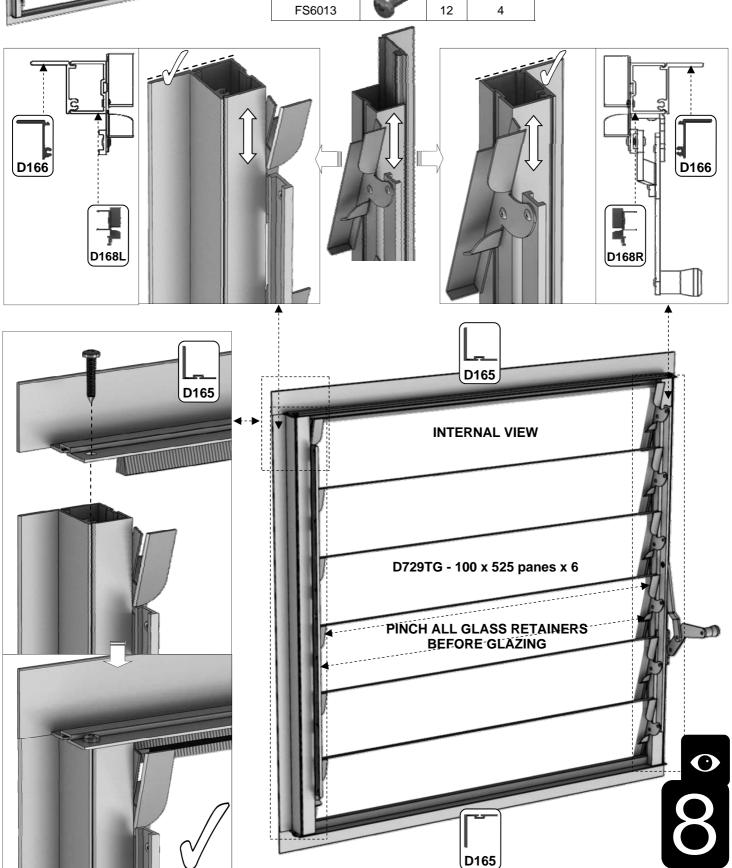
Part No		mm	Quantity
D079 PLUS FLUFF	ПŢ	590	1
D114	2	N/A	2





Part No		mm	Quantity
D168L		552	1
D168R (handle)	手手	552	1
D165		612	2
D166	<u></u>	552	2
FS6013	6	12	4





PORC	H CAPS AND (COVERS	14x8
PART No	SECTION	SIZE (mm)	QUANTITY
D662		600	1
D812		1660	9
D823		516	1
D870		601	6
DV479		1384	1
DV633L/R		2173	1+1
DV635L/R		2021	2 + 2
DV637L/R	_	2489	2 + 2
DV639L/R	_	2960	2 + 2
DV653		1378	2
DV655		1880	3
DV662		3395	2
DV675L/R		863	1 + 1
DV687L/R		1365	1 + 1
D813		1675	6
D834		1660	6
D871		601	4
DV650		1345	2
DV652	•	1871	4
D619		1144	1
D666		602	1
D825		1660	15
D826		1677	6
DV480	1	1384	1
DV634L/R		2173	1+1
DV636L/R	[1]	2021	2 + 2
DV638L/R		2489	2 + 2
DV640L/R	1	2960	2 + 2
DV656	1	1378	4
DV658	1	2481	7
DV668	1	3395	2
DV679L/R	1	863	1+1
DV688L/R	1	1968	1+1

GLAZING (plans pto):

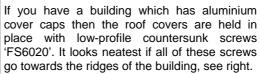
Glass and aluminium can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.





Please remember that glass is fragile and should be handled with extreme care. Always clear up and dispose of any breakages immediately.

Layout the plastic bar cappings e.g. D812 and covers e.g. D825 around the building like a sundial checking that all is present and correct. You can also place the roof cappings in the gutters so they are closer to hand.

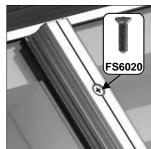


D870

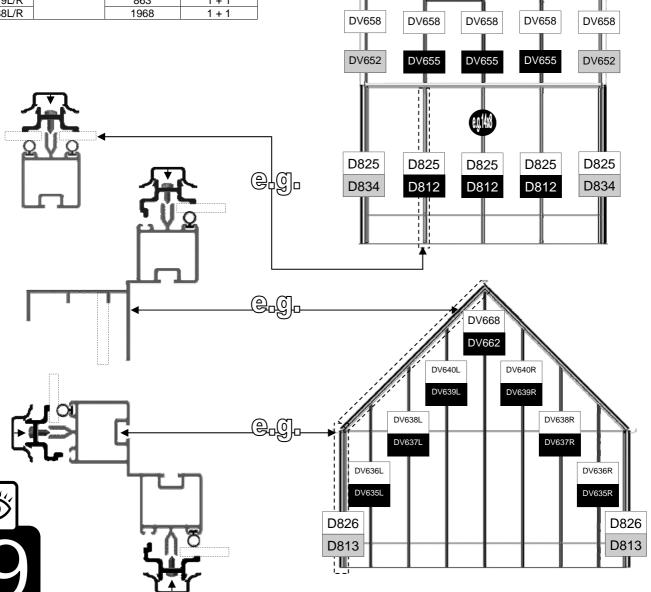
D870

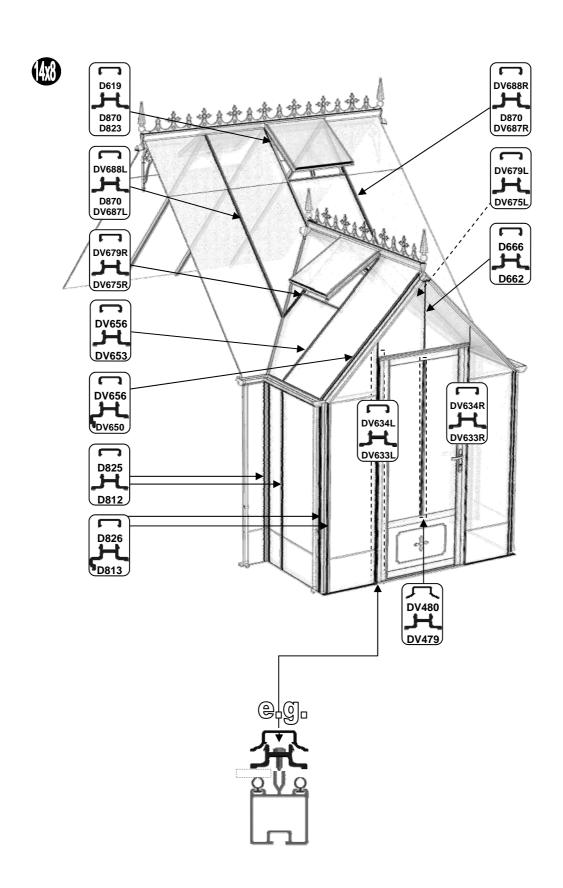
D870

D871

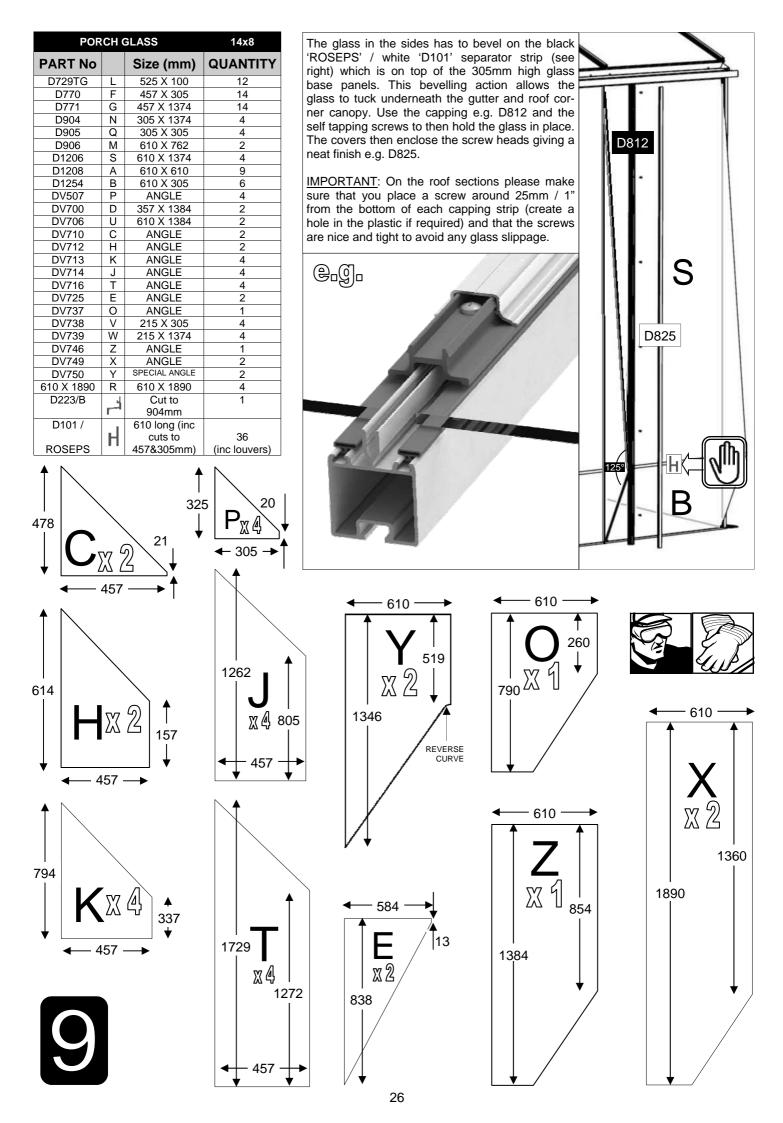


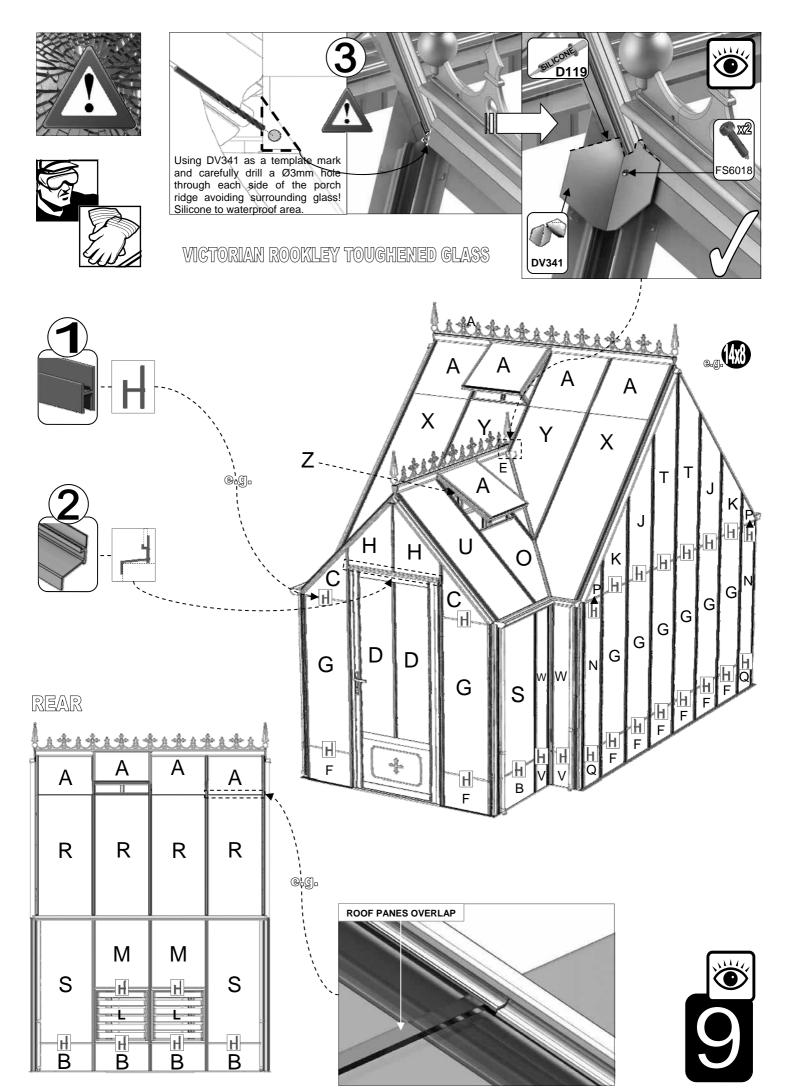
D871

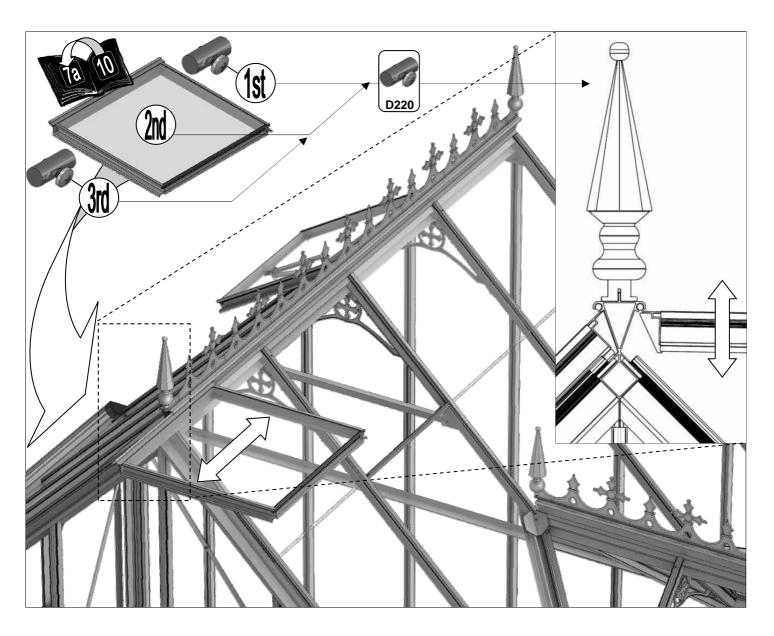


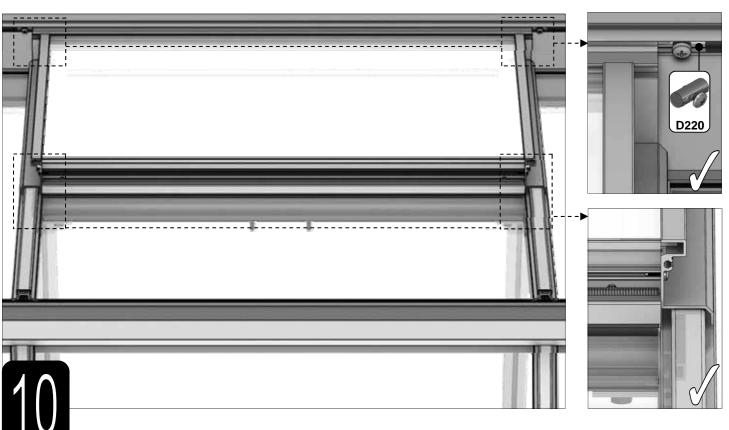


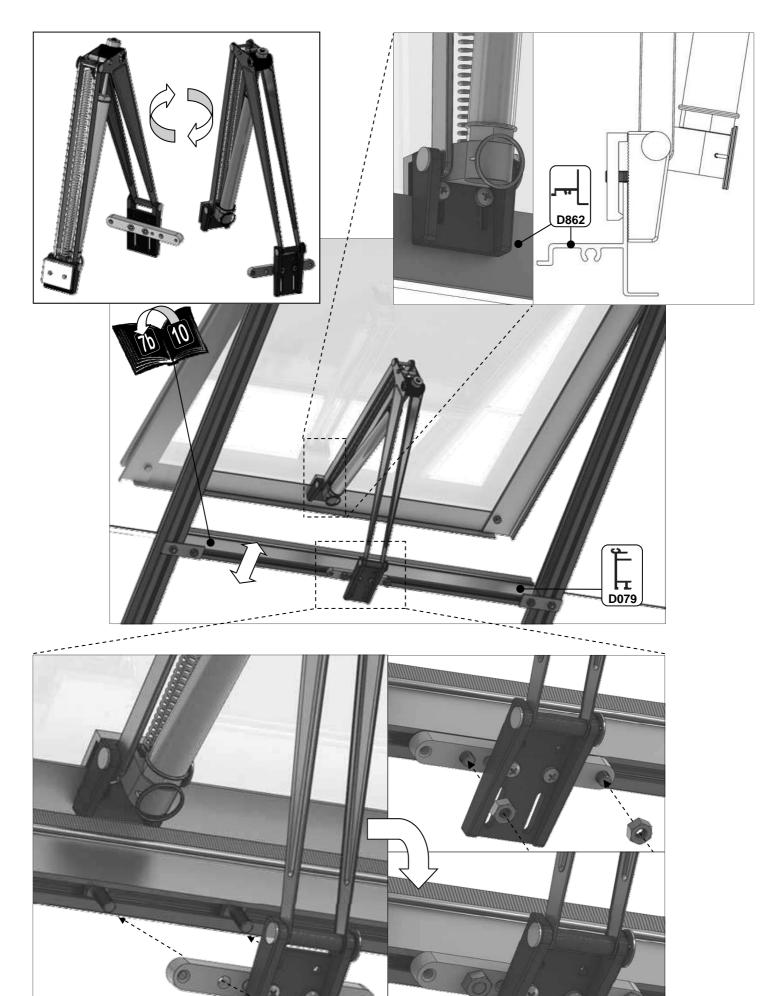


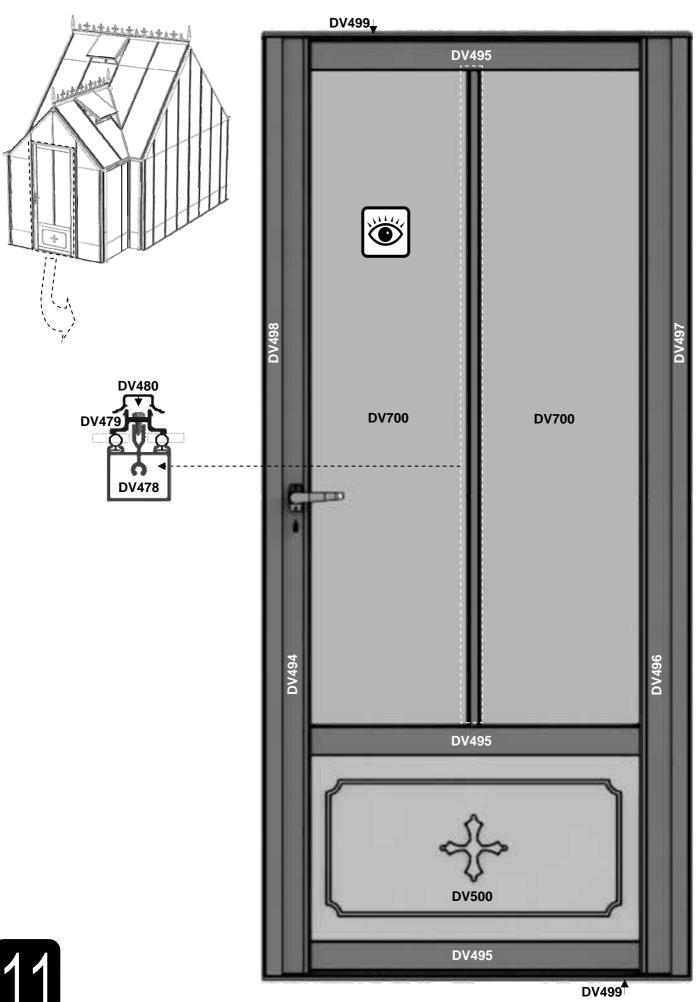


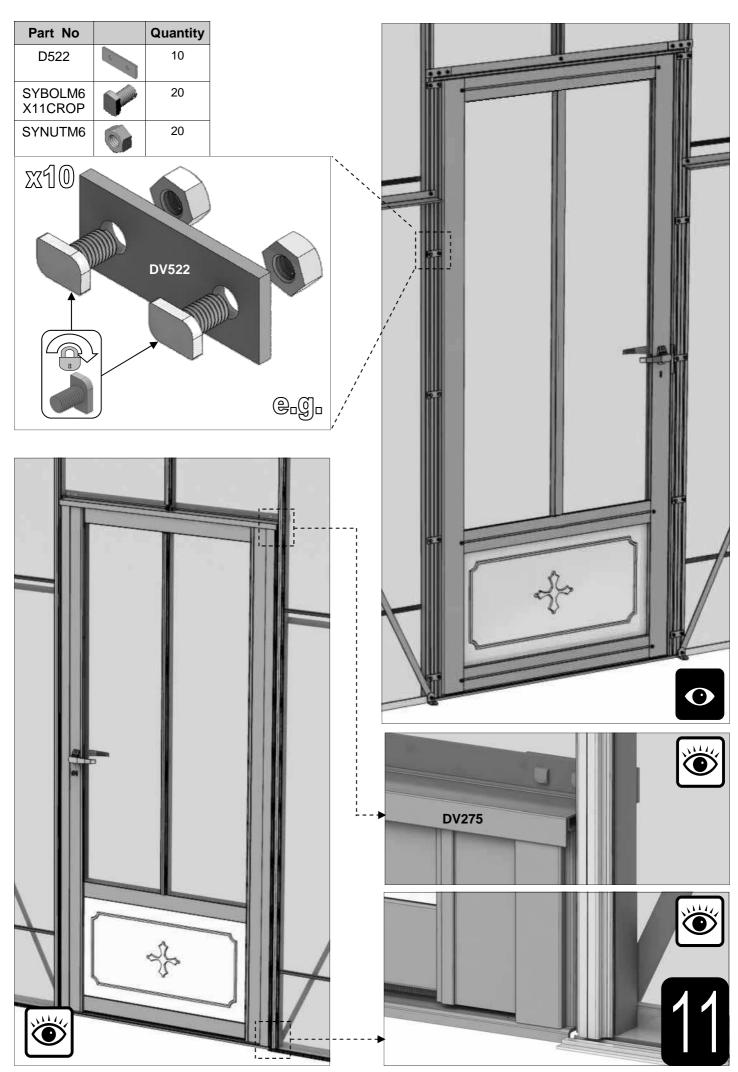


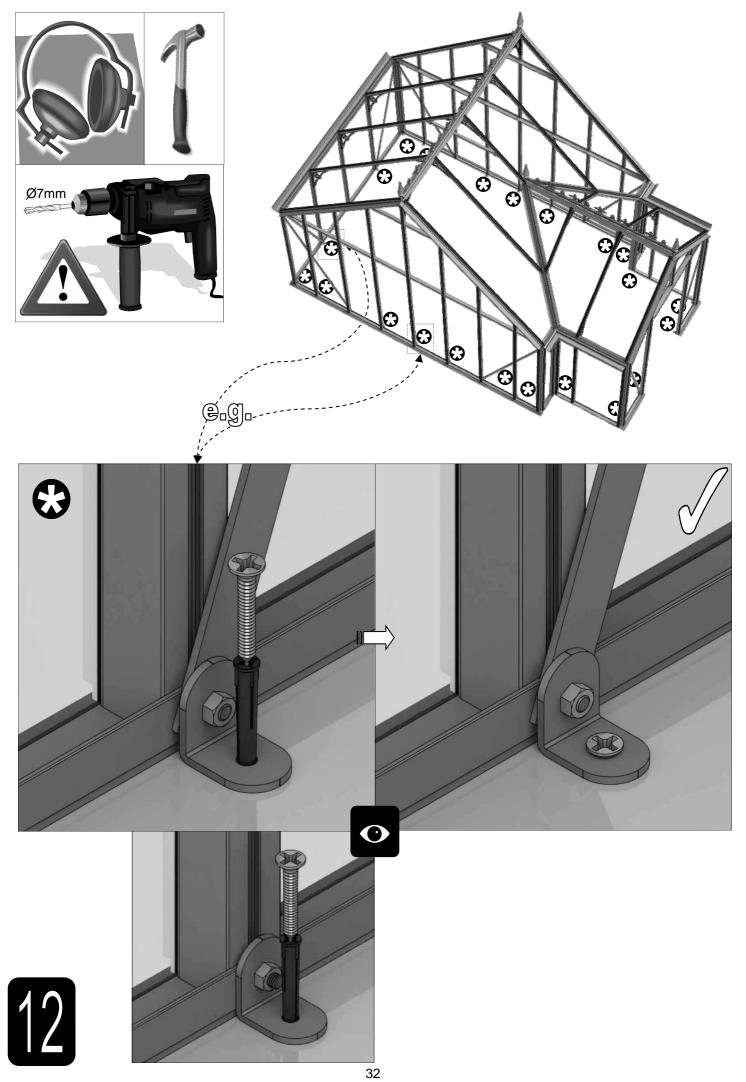


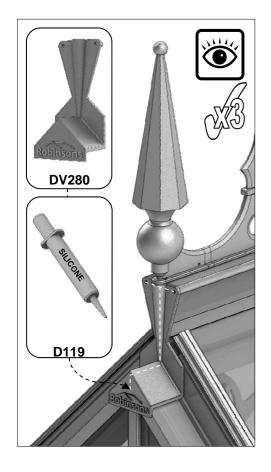


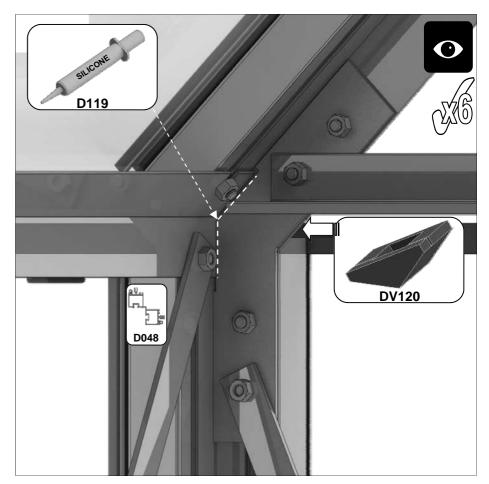


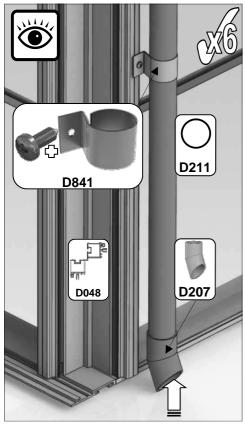




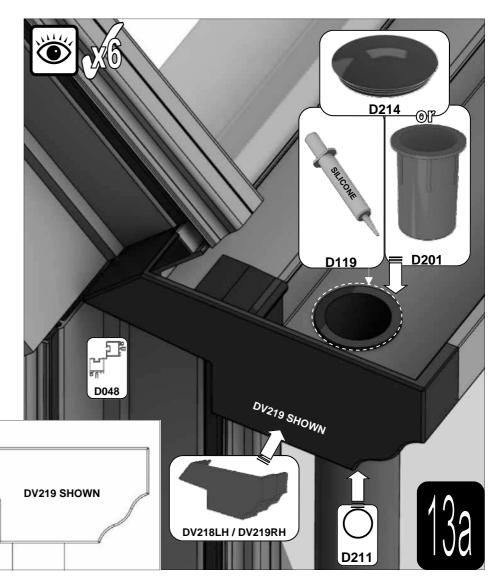


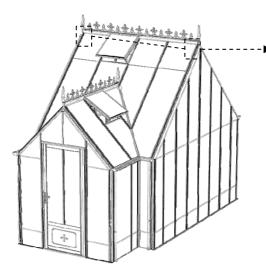




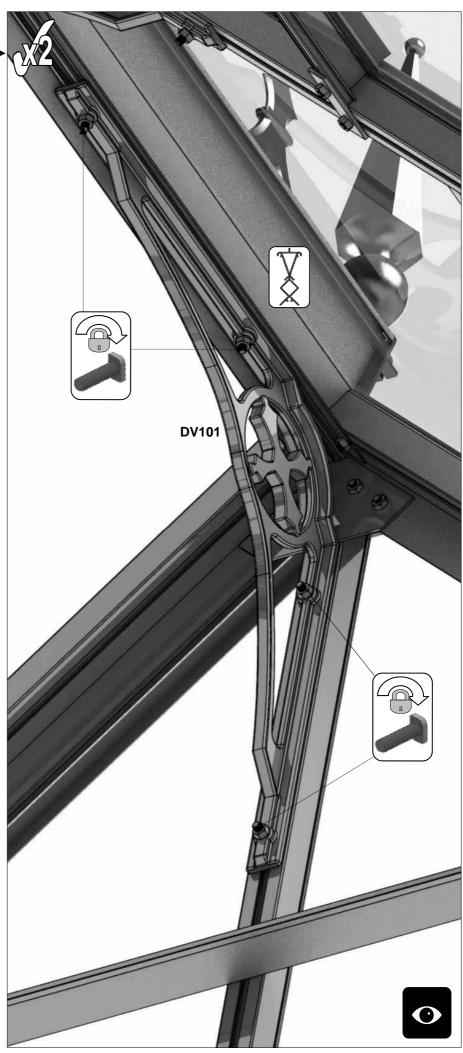


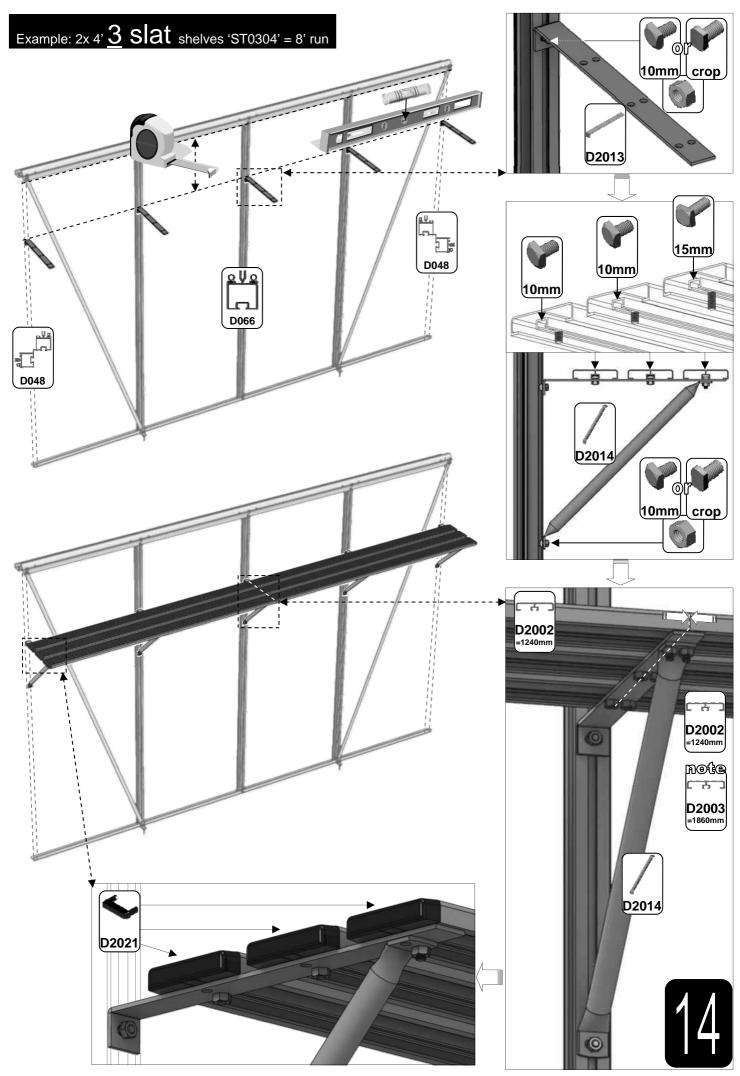
CUT

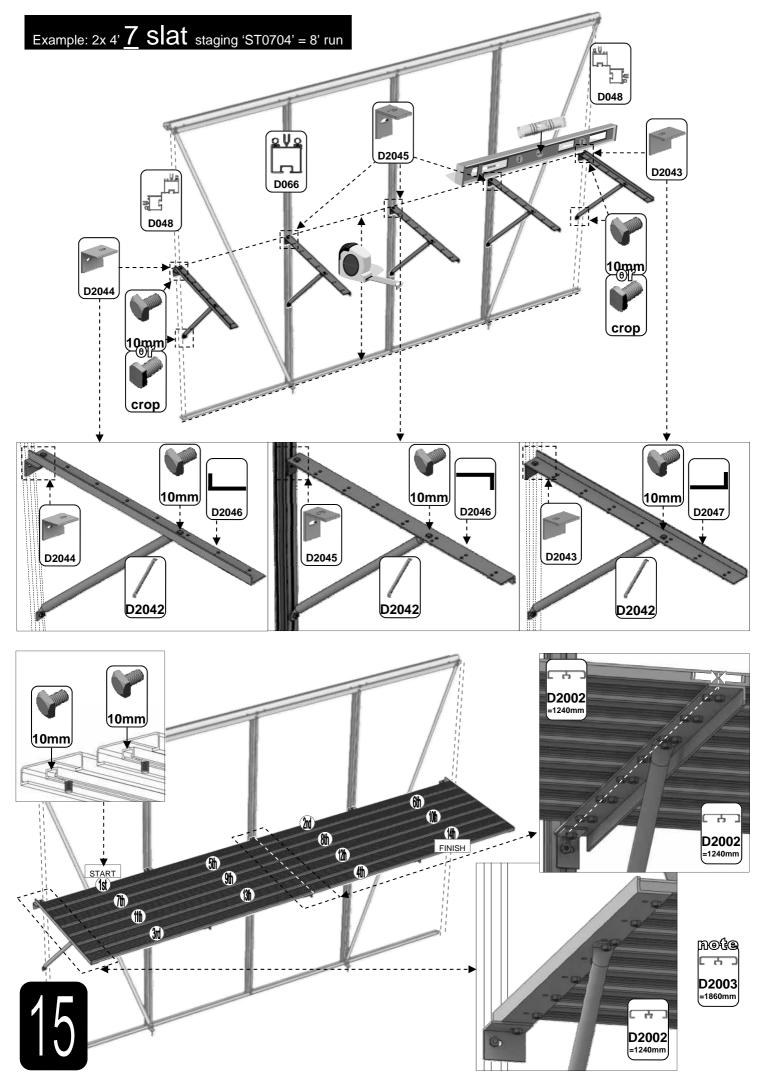


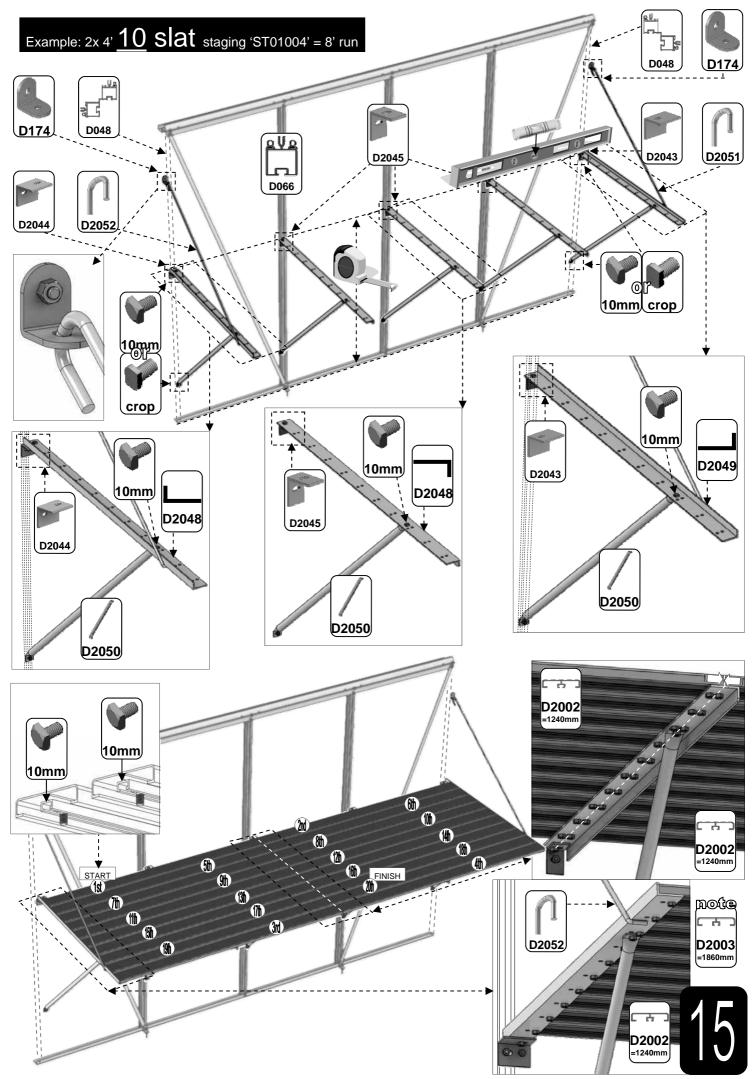


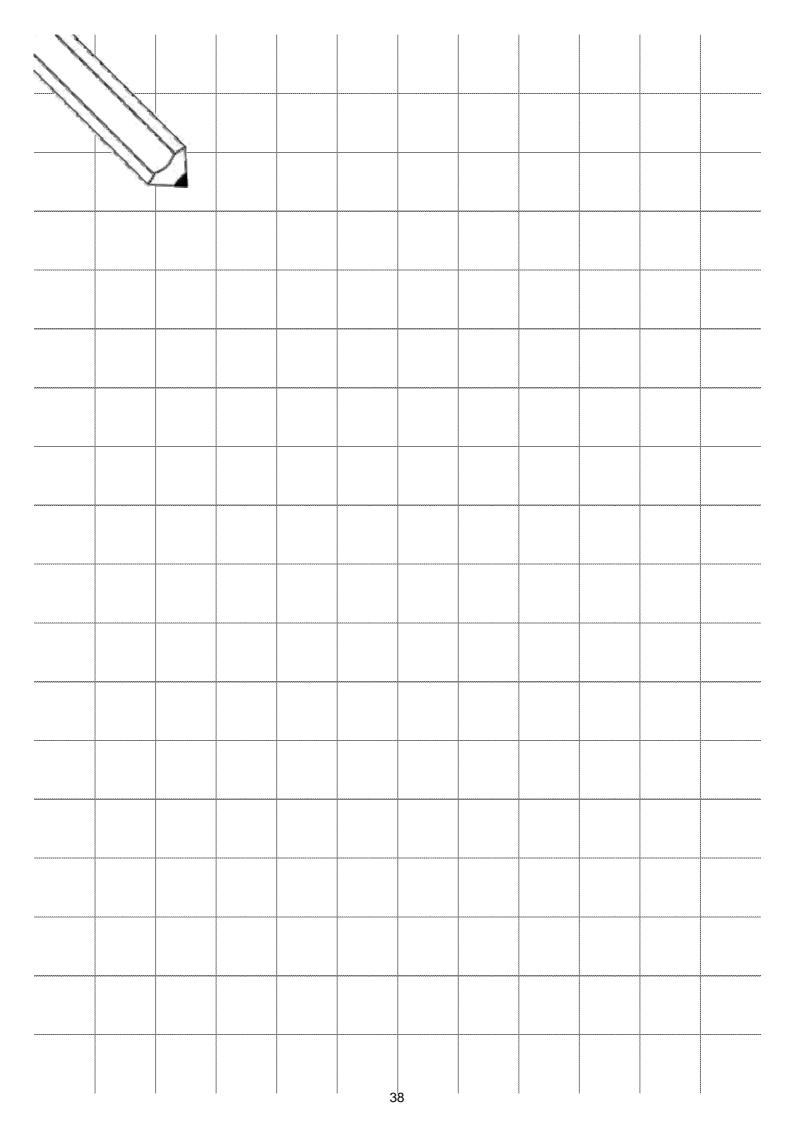
Part No	Quantity
SYBOLM6 X22CROP	8
SYNUTM6	8

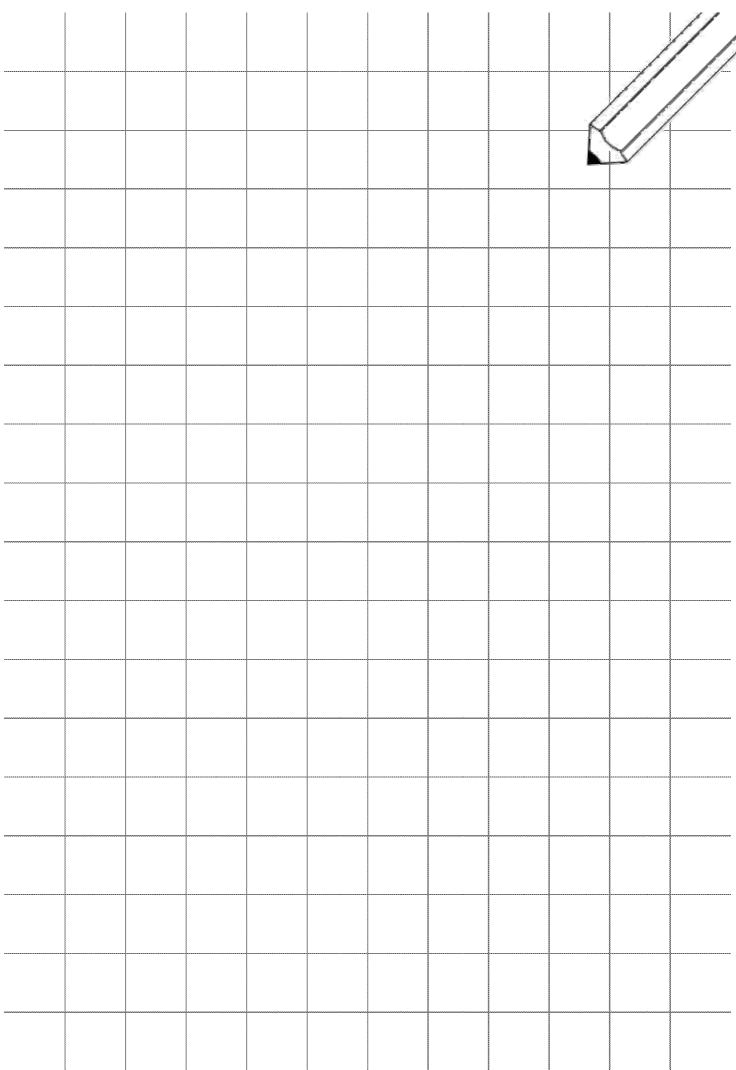












THIS GREENHOUSE BOX WAS PACKED BY:	DATE: