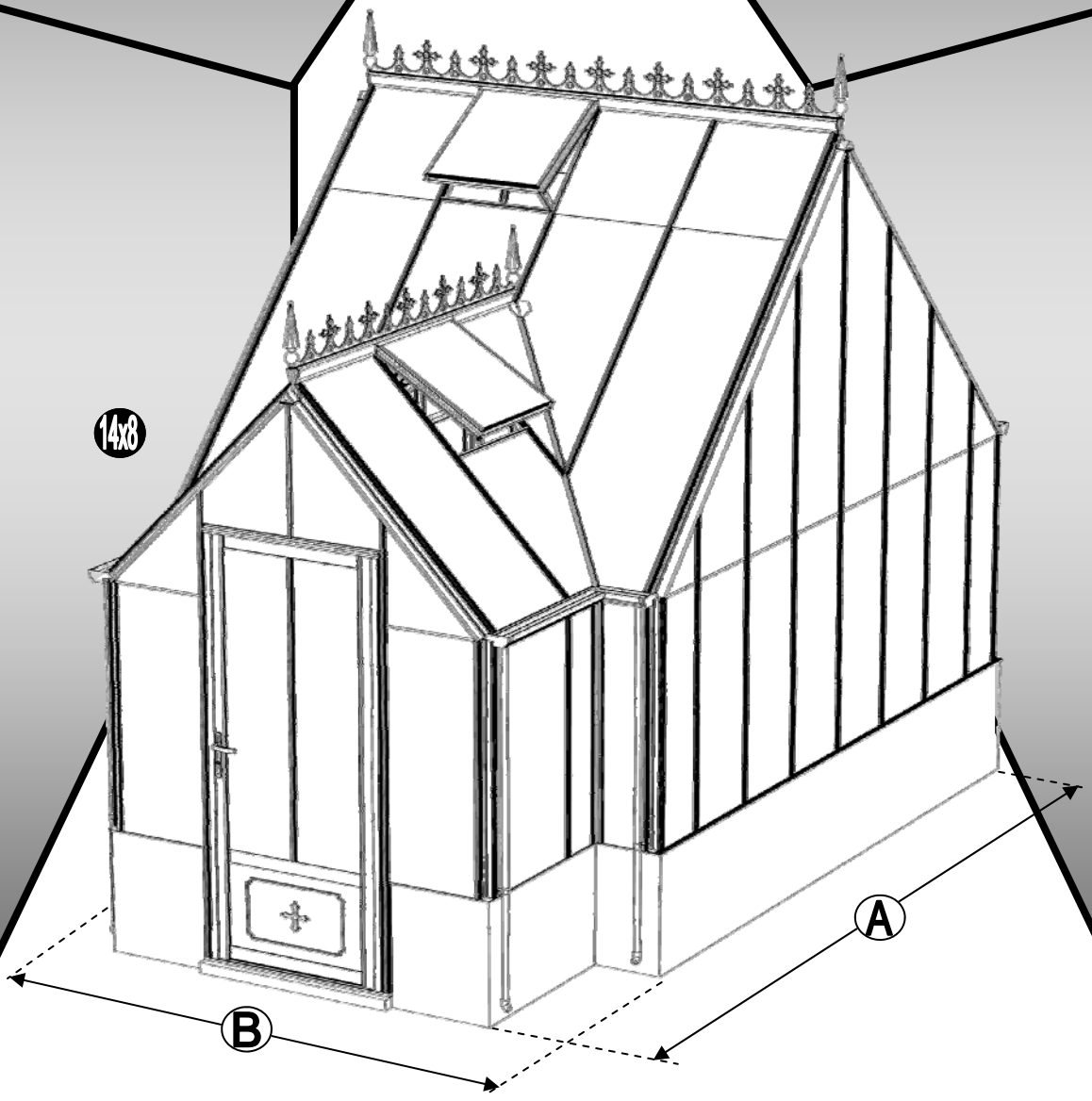
Robinsons
ALUMINIUM GREENHOUSES

Victorian 'RAMSBURY' 14
Assembly Instructions



NOMINAL SIZE	A (mm)	B (mm)
14 x 8	4459	2630
14 x 16		5110
14 x 24		7590
14 x 32		10070

Issue 2.2

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 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

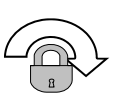
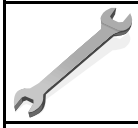
- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- IMPORTANT: Do **not** fix your building down until the building is fully assembled, including glazing.
- 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. 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 pivot pins / lock etc...

Guarantee

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

KEY SYMBOL	KEY DESCRIPTION
	**EXTERNAL VIEW**
	**INTERNAL VIEW**
	**THINK**
	**THIS SECTION RELATES TO ANOTHER** (e.g. 1 to 5)
	**CORRECT**
	**DO NOT FIX DOWN!**
	**TWIST TO LOCK**
	**TIGHTEN**
	**PUSH AND HOLD**
	**CUT TO LENGTH**

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.

SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
	PARTS LIST	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 etc..
B	BASE	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.
P	PREPARATION	Tools required. IMPORTANT: 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 'D609' with the rubber inserted and the diagonal braces 'D604', 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).
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 relevant you slide 2 x 22mm bolts into the side bars for the attachment of the DV100 eaves spandrels.
5	MAIN FRAME ASSEMBLY	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.
6a	REAR 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.
6b	PORCH ROOF	The porch ridge can be fitted to the porch gable supporting its free end with ladders or a wooden sprag. The porch hips '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 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 those holes or create more to mount the unit.
9	GLAZING	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. 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. 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 hole in the plastic if required) and that the screws are nice and tight to avoid any glass slippage.
10	VENT ATTACHMENT	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. 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.
12	ANCHORING DOWN	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 'D609' 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 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...
15	OPTIONAL REAR STAGING	

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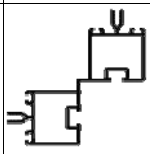
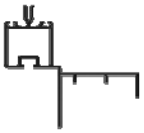
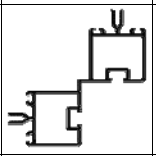
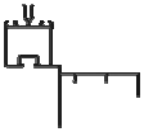
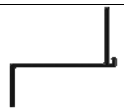
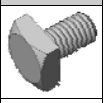
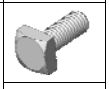
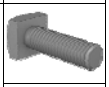
Section Ref	Part No.	Section	Size (mm)	14 8
1	D021		2514	1
	DV210		2517	1
	D604		1316	2
	D609		1160	3
	RUBBER		1000 (1m)	7
	D174		N/A	2

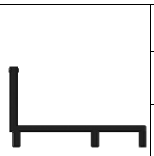
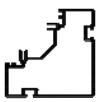
Section Ref	Part No.	Section	Size (mm)	14 8
3	DV232		3548	2
	D608		1160	4
	DV066L		1505	2
	DV066R			2
	DV310L		1972	2
	DV310R			2
	DV312L		2438	2
	DV312R			2
	DV259		2879	2
	DV274		3402	2
	DV307		1350	4
	DV252L		2451	2
	DV252R			2
	DV104		N/A	4
	DV105		N/A	2
	RUBBER		1000 (1m)	72
	D174		N/A	14

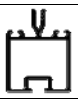
Section Ref	Part No.	Section	Size (mm)	14 8
2	DV301L		537	1
	DV301R			1
	D608		1160	2
	DV233L		2173	1
	DV233R			1
	DV269		468	2
	DV300		1193	2
	DV250L		1345	1
	DV250R			1
	D671		610	1
	DV275		904	1
	D163		90	2
	DV104		N/A	2
	DV105		N/A	1
	RUBBER		1000 (1m)	18
	D174		N/A	2

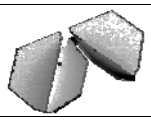
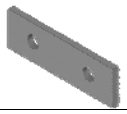
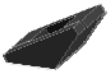
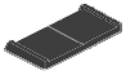
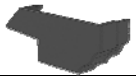
MAIN FRAME QUANTITIES

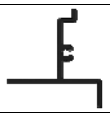
VENTS / DOORS etc SEPERATE

Part No.	15 12
SYBOL M6X11	
10mm	131
SYBOL M6X11 CROP	
10mm	20
SYBOL M6X15	
15mm	43
SYBOL M6X22	
22mm	40
SYNUTM6 *M6 NUT*	
	234
FS6018	
19mm	2

Section Ref	Part No.	Section	Size (mm)	14 8
4	DV345		303	1
	DV348		923	1
	DV357		923	1
	DV361		303	1
	DV363		1160	2
	DV394		327X947	1
	DV395			1
	D609		1160	2
	RUBBER		1000 (1m)	10
	D174		N/A	4

Section Ref	Part No.	Section	Size (mm)	148
6	D982		100	2
	DV100		N/A	5
	DV101		N/A	5
	DV201		2517	1
	DV350		1850	1
	DV253		1345	2
	DV255		2450	3
	D138		1167	1
	DV375L/R		830	1+1
	DV382L/R		1935	1+1
	DV380		N/A	1
	DV381		1668	2
	DV389		1105	1
	RUBBER		1000 (1m)	34

Section Ref	Part No.	Section	Size (mm)	148
9	1, 4 D618		1144	9
	2 D662		600	1
	6 D823		516	1
	6 D870		601	6
	6 DV403L/R		1505	2 + 2
	11 DV479		1384	1
	3 DV610L/R		1972	2 + 2
	3 DV612L/R		2438	2 + 2
	6 DV653		1378	2
	6 DV655		1880	3
	3 DV659		2879	2
	2 DV633L/R		2173	1 + 1
	6 DV675L/R		863	1 + 1
	6 DV687L/R		1365	1 + 1
	2, 3 D610		1160	6
	1, 5 D620		1144	6
	6 D871		601	4
	6 DV650		1345	2
	6 DV652		1871	4
	2, 3 D614		1162	6
	1, 5 D619		1144	16
	2 D666		602	1
	11 DV480		1384	1
	3 DV611L/R		1972	2 + 2
	3 DV613L/R		2438	2 + 2
	3 DV615L/R		1505	2 + 2
	2 DV634L/R		2173	1 + 1
	6 DV656		1378	4
	6 DV658		2481	7
	3 DV665		2879	2
	6 DV679L/R		863	1 + 1
	6 DV688L/R		1968	1 + 1
	6 DV341		N/A	1
11	D522		N/A	10
13	D119			1
	DV120		N/A	6
	D841		N/A	6
	D211	 PIPE	1625	6
	D207		N/A	6
	D201		N/A	6
	D208		N/A	3
	DV219		N/A	3
	DV218		N/A	3

Section Ref	Part No.	Section	Size (mm)	148
7	D866		639	3
	D863L		613	3
	D863R		613	3
	D862		593	3
	D079 PLUS FLUFF		590	3
	D114		N/A	6
	D220 PLUS FS6060 SCREW		N/A	6
	D205		N/A	6

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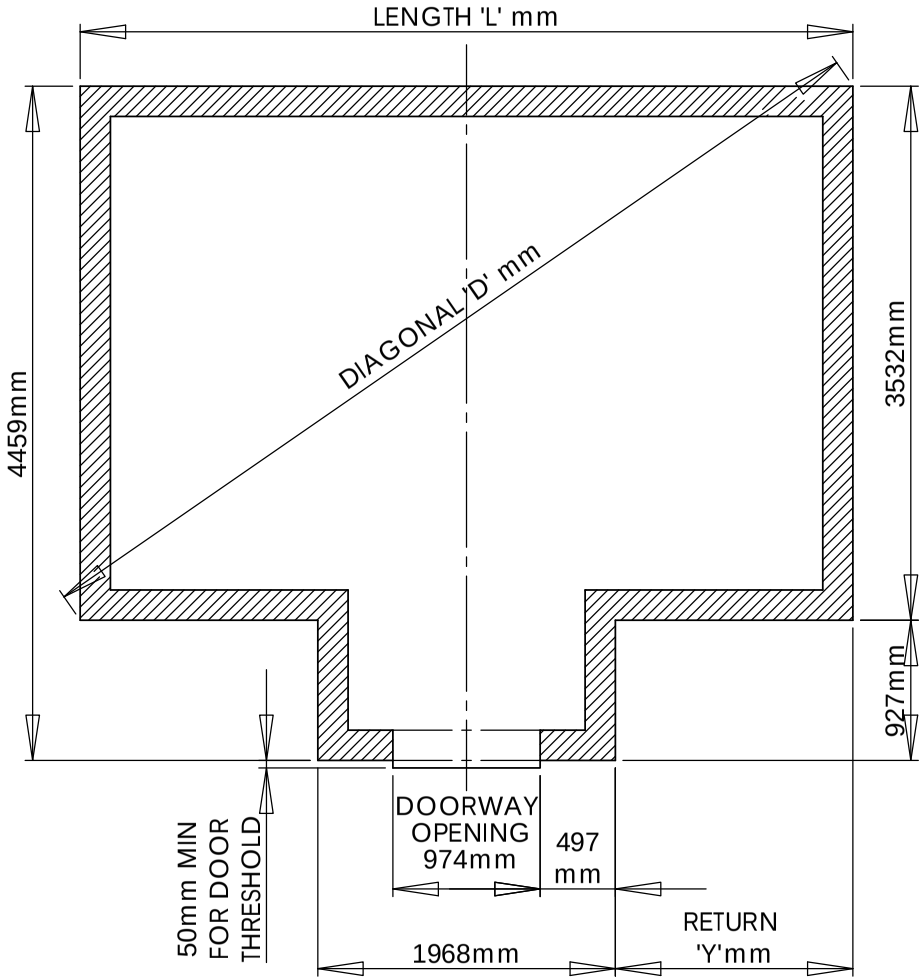


DIMENSION VARIABLES (mm)			
MODEL	**LENGTH 'L'**	**RETURN 'Y'**	**DIAGONAL 'D'**
8 LONG	2630mm	331mm	4403.5mm
16 LONG	5110mm	1571mm	6212mm
24 LONG	7590mm	2811mm	8371.5mm
32 LONG	10070mm	4051mm	10671.5mm
40 LONG	12550mm	5291mm	13037.5mm
44 LONG	13790mm	5911mm	14235mm

GUIDANCE NOTE FOR ROBINSONS DWARF WALL GREENHOUSES.

FOOTINGS

CONCRETE STRIP FOOTINGS SHOULD BE A MINIMUM OF 400mm WIDE X 200mm DEEP. IF THE SITE IS ON MADE UP GROUND IT IS IMPORTANT THAT THE FOOTINGS ARE CUT INTO THE COMPACTED GROUND BELOW. WHERE THE GROUND IS LIABLE TO MOVEMENT SUCH AS HEAVY CLAY OR LOOSE SANDY SOIL REINFORCING SHOULD BE ADDED TO THE CONCRETE FOOTINGS.

WALLS

IT IS MOST IMPORTANT THAT THE BRICKWORK IS IN ACCORDANCE WITH THE 'mm' DIMENSIONS PROVIDED AND IS SQUARE, LEVEL AND UPRIGHT, THE DIAGONAL MEASUREMENTS SHOULD BE EQUAL.

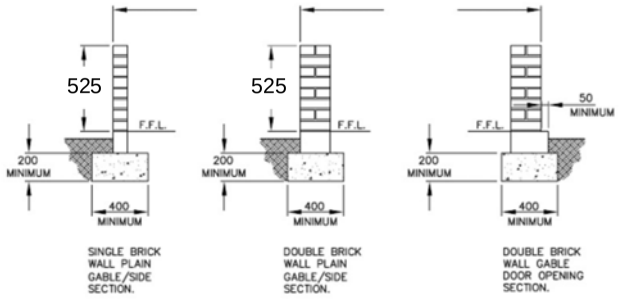
WALLS SHOULD BE DOUBLE SKIN.

THE TOP COURSE OF BRICKS SHOULD BE LAID FROG DOWN. IF ENGINEERING BRICKS ARE USED FOR THE TOP COURSE PLEASE ENSURE THEY ARE SOLID NOT CELLULAR (WITH HOLES THROUGH THEM) OR FIXING DOWN OF THE GREENHOUSE WILL BE A PROBLEM. BRICKS SHOULD BE A GOOD QUALITY STOCK BRICK, SAND FACED FLETTON TYPE BRICKS ARE NOT SUITABLE.

GABLE DOOR OPENING

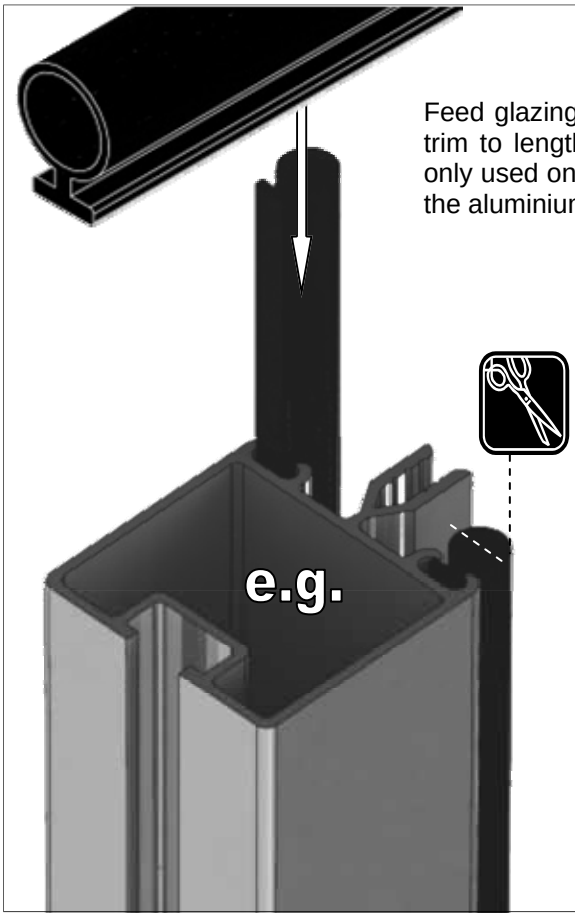
THE DOOR THRESHOLD REQUIRES BRICK WORK ACROSS THE OPENING WHICH SHOULD BE LEVEL WITH THE FINISHED FLOOR LEVEL (F.F.L) OF THE GREENHOUSE. THE OPENING FOR THE DOORWAY AND THE HEIGHT TO THE TOP OF THE WALL FROM THE THRESHOLD LEVEL REQUIRE THE HIGHEST ACCURACY AND ARE MOST IMPORTANT SO THAT THE DOOR FITS THE APERTURE CORRECTLY. PLEASE ALSO BE AWARE THAT THE DOOR OPENS INWARDS AND THEREFORE THE FOUNDATIONS NEED TO AVOID ANY DOOR INTERFERENCE. IT IS ADVISABLE TO MAKE A WOODEN TEMPLATE TO CHECK THE DOOR APERTURE DIMENSIONS.

IN ORDER TO SUPPORT THE OUTER EDGE OF THE DOOR THRESHOLD THERE MUST BE A PROJECTION OF BRICKWORK / CONCRETE DIRECTLY INFRONT OF THE DOORWAY WITH A MINIMUM WIDTH OF 50mm. THIS NEEDS TO BE LEVEL WITH THE DOOR THRESHOLD OPENING.

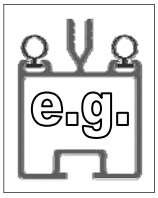


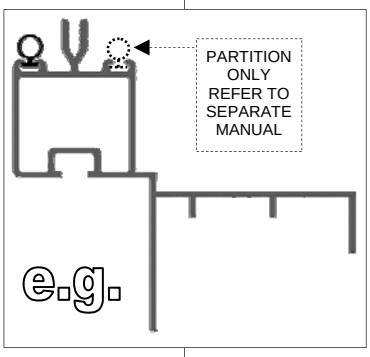
TITLE:

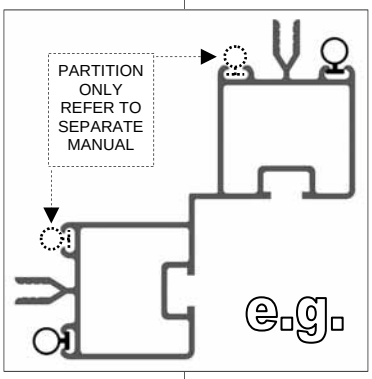
RAMSBURY
WITH 2 BAY RUGBY PORCH

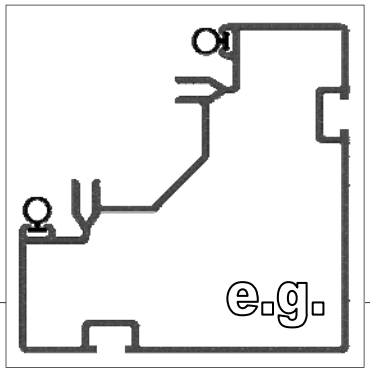


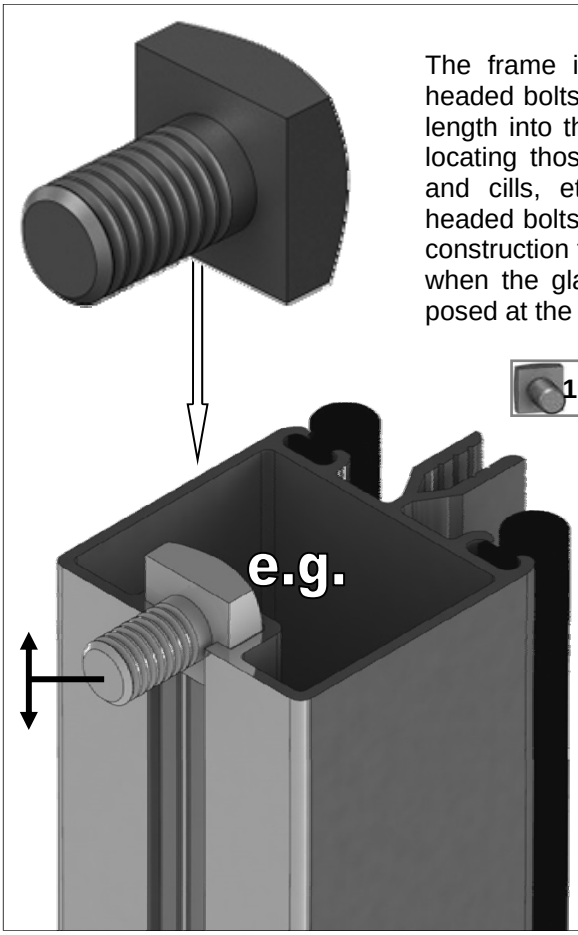
Feed glazing rubber into each glazing bar and trim to length. Notice that some channels are only used on a partition. Applying a lubricant to the aluminium channels will speed up insertion.



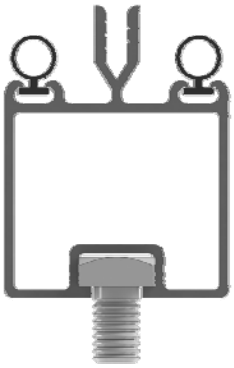


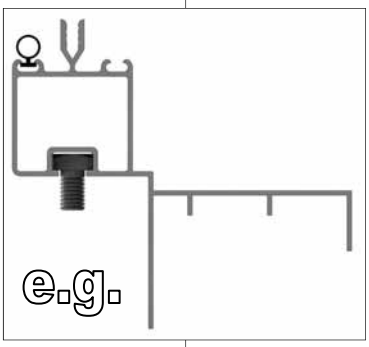


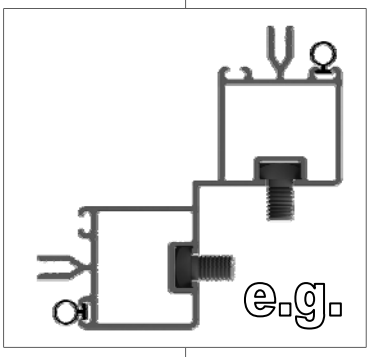




The frame is assembled by feeding square headed bolts, either 10mm, 15mm or 22mm in length into the slots on glazing bars and then locating those bolts through holes in purlings and cills, etc… Twist in (rectangular) crop headed bolts are also used towards the end of construction to attach components to the frame when the glazing bar slots are no longer exposed at the ends.

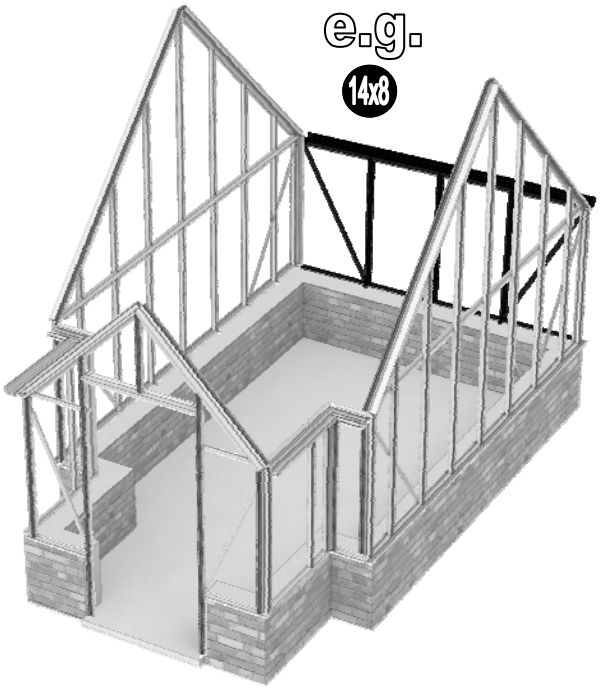


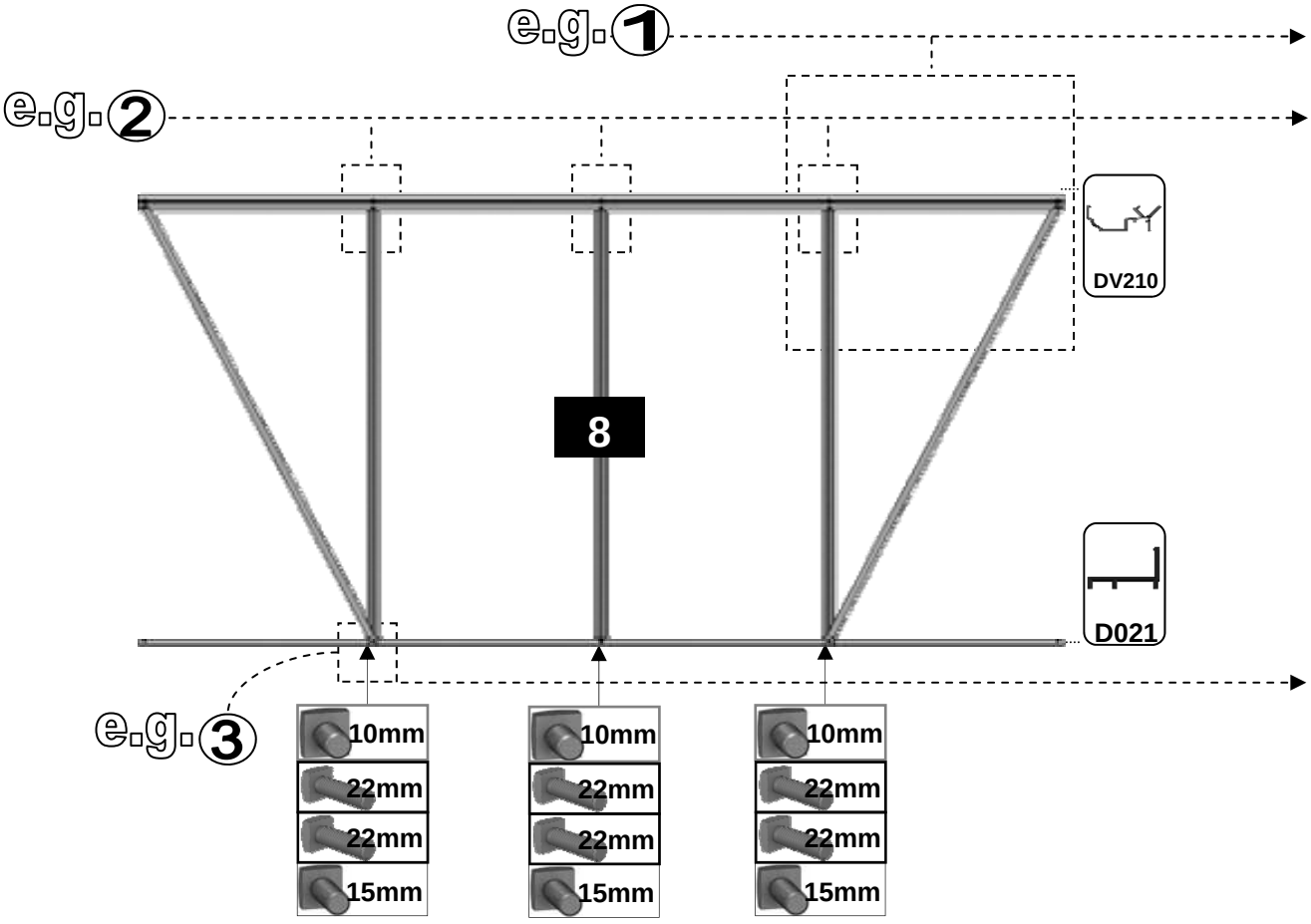


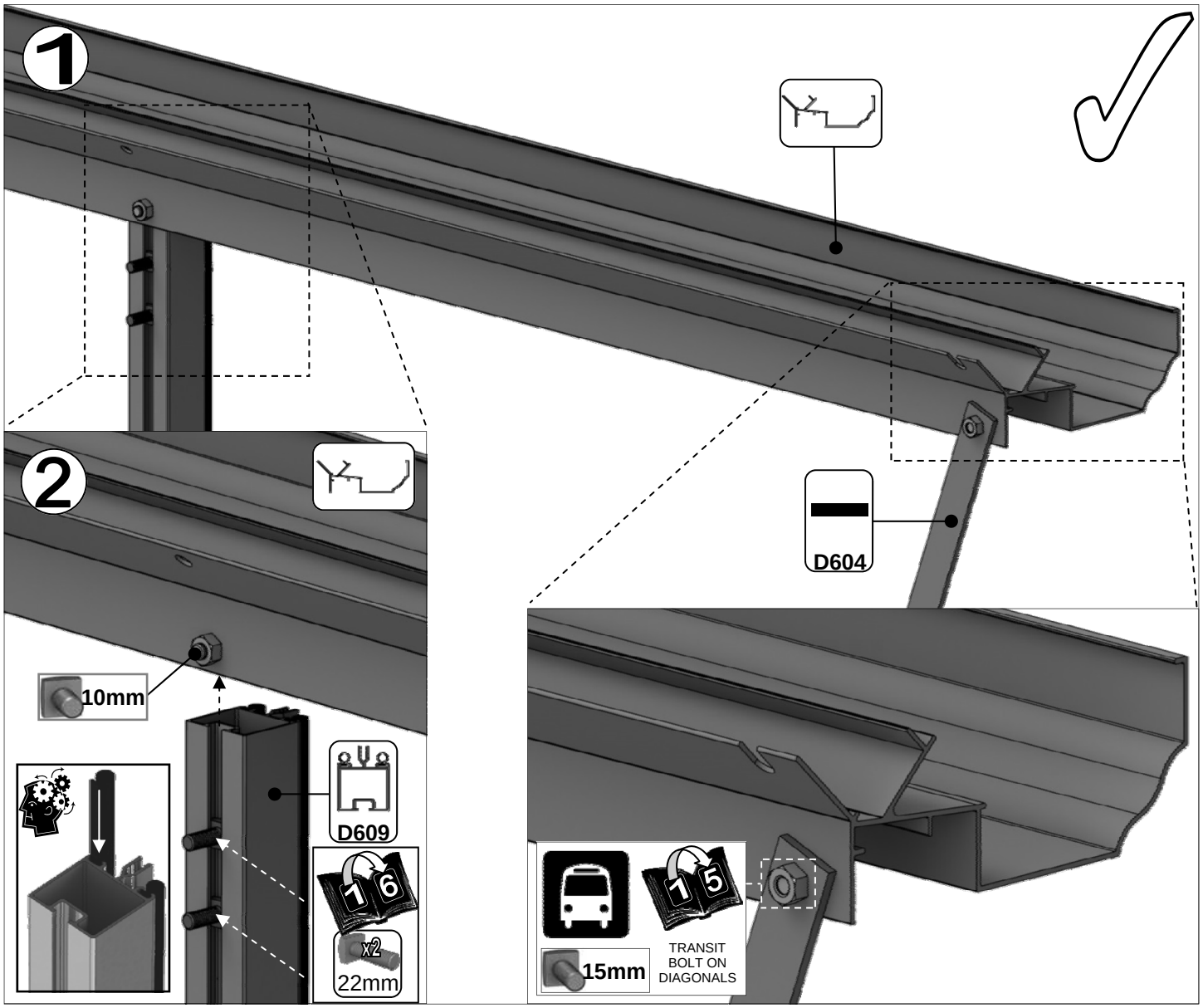


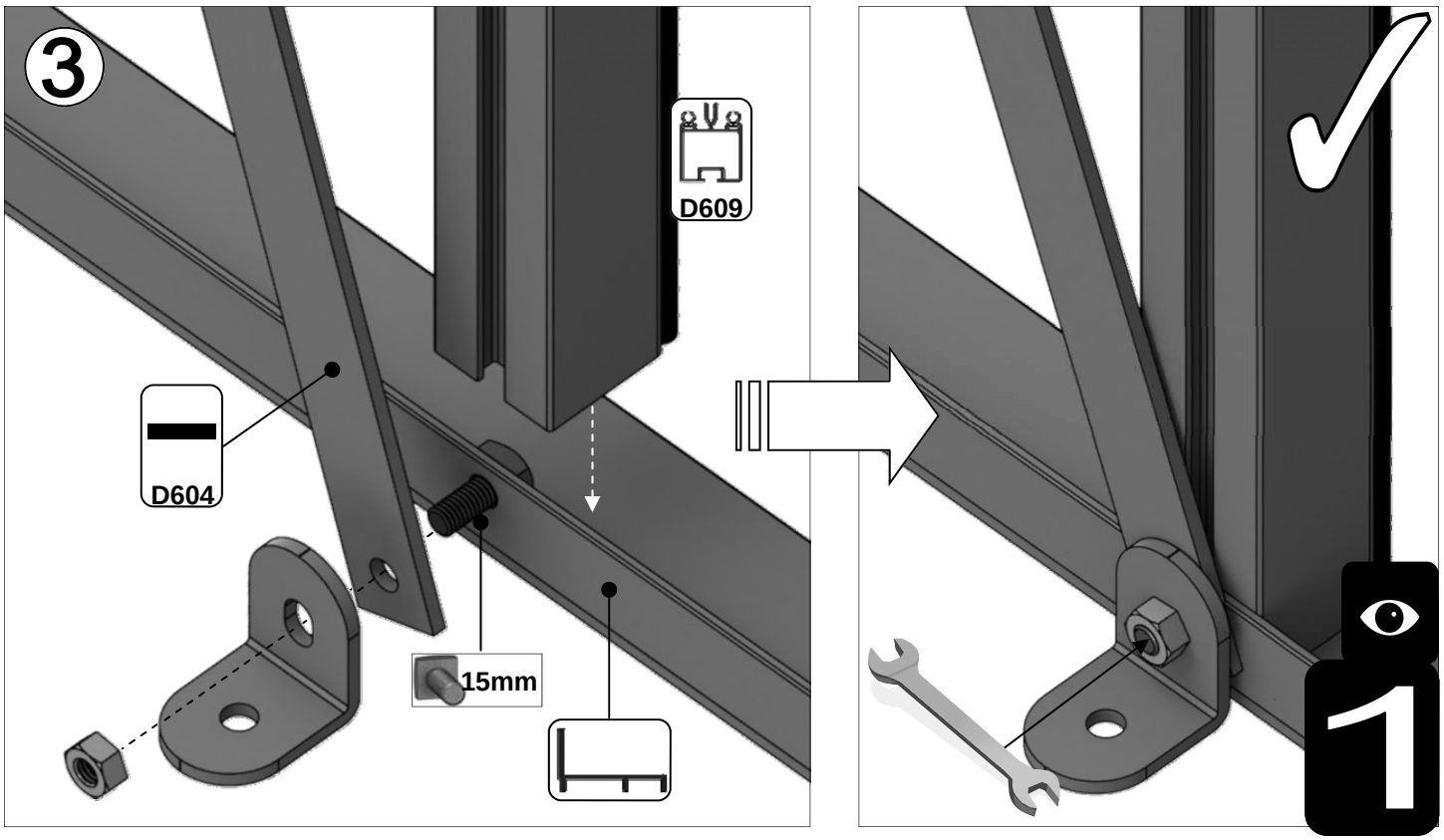
P

REAR		14 x 8
Part No	mm	Quantity
DV210	2517	1
D021	2514	1
D604	1316	2
D609	1160	3
D174		2
SYBOL M6X11		3
SYBOL M6X15		5
SYBOL M6X22		6
SYNUT M6		8
D227 Rubber	1000 	7






1
2
D604
10mm
D609
16
x2
22mm
15
15mm
TRANSIT
BOLT ON
DIAGONALS

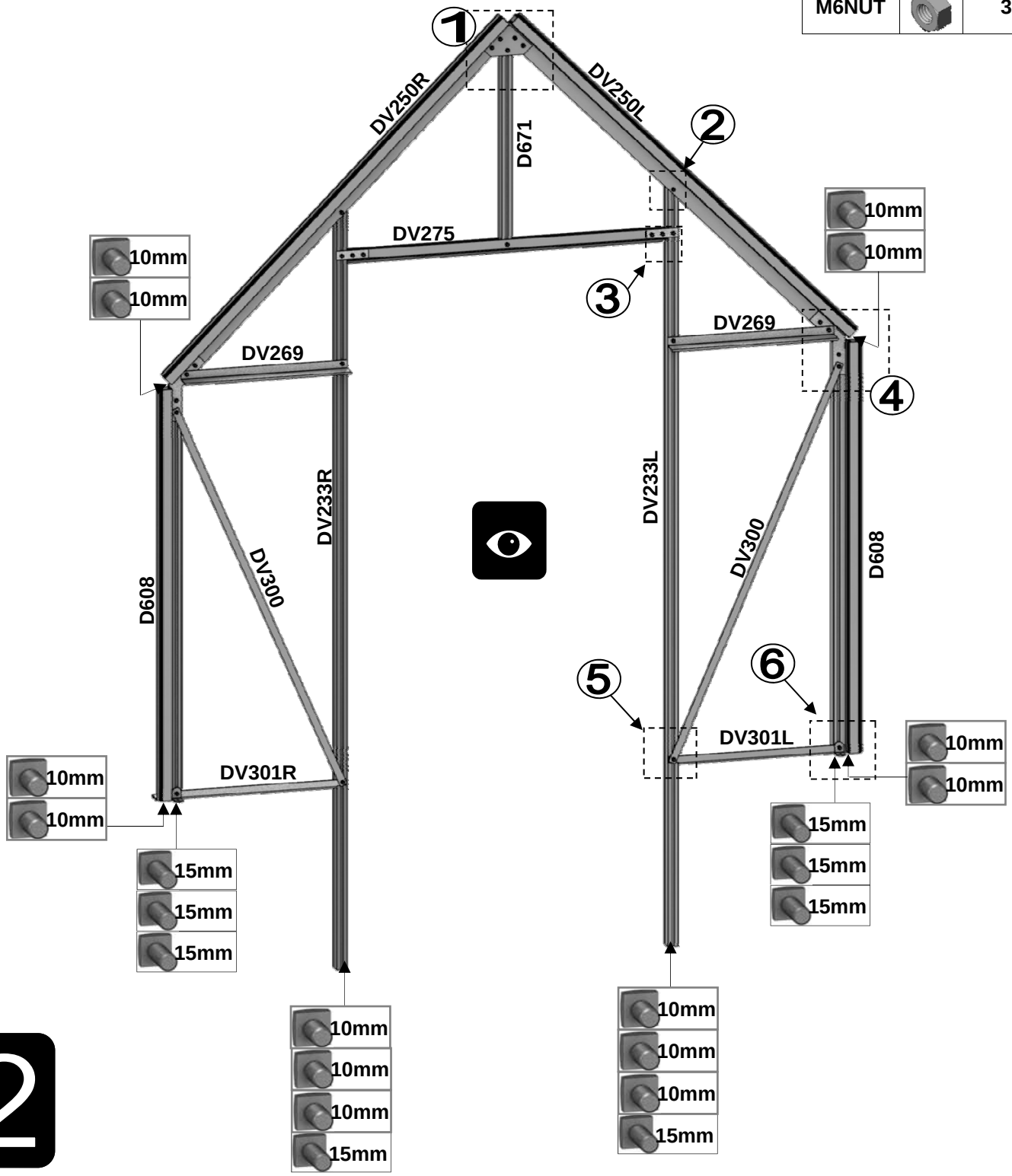

3
D609
D604
15mm
1

e.g.

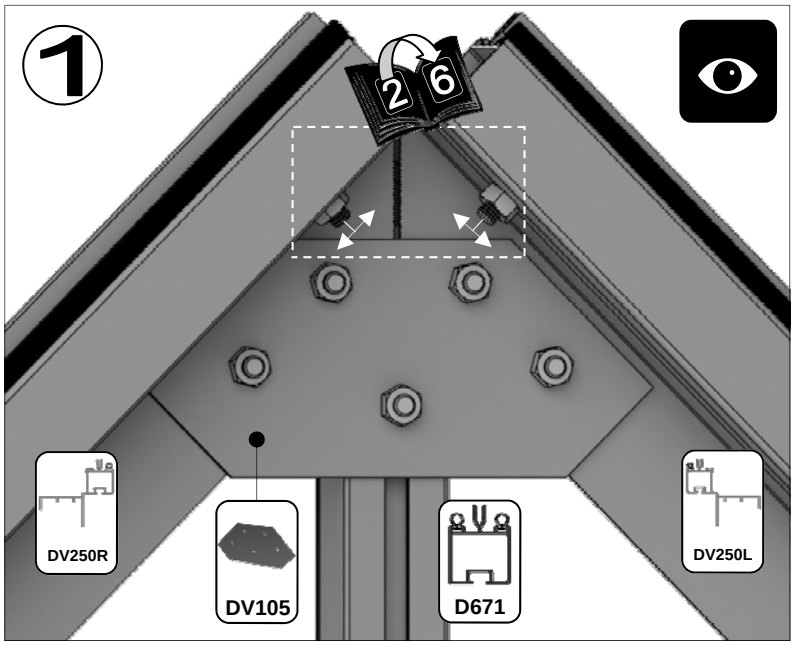
14x8

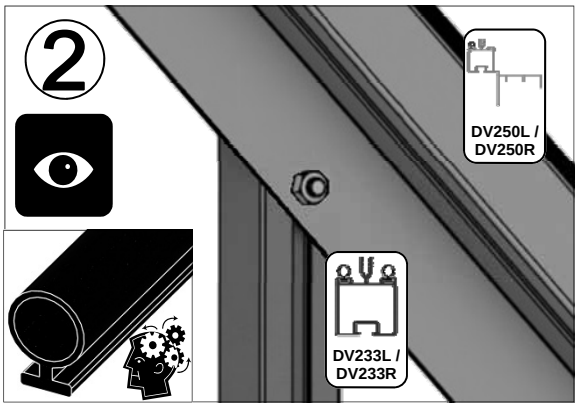
PORCH GABLE		
Part No	mm	Quantity
D608	1160	2
D671	610	1
DV233L	2173	1
DV233R	2173	1
DV250L	1345	1
DV250R	1345	1
DV269	468	2
DV275	904	1
DV300	1193	2

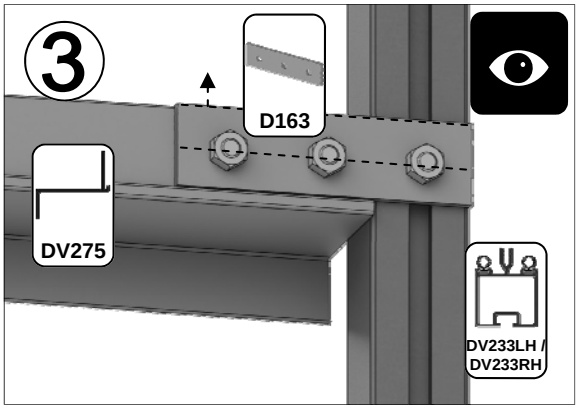
Part No	mm	Quantity
DV301L	537	1
DV301R	537	1
DV104		2
DV105		1
D163		2
D174		2
D227		18m
M6X10		28
M6X15		8
M6NUT		36

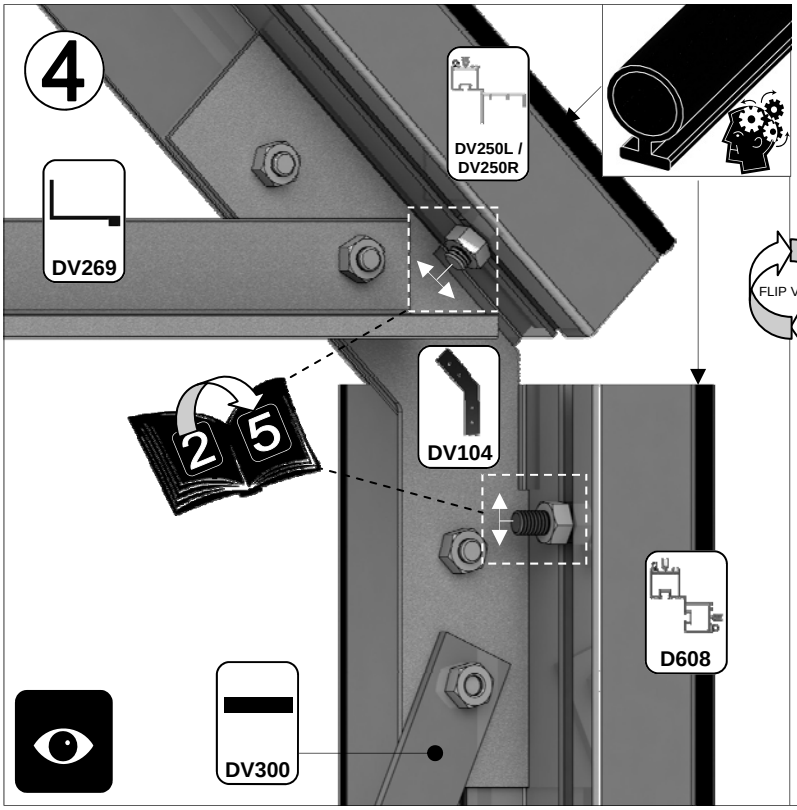


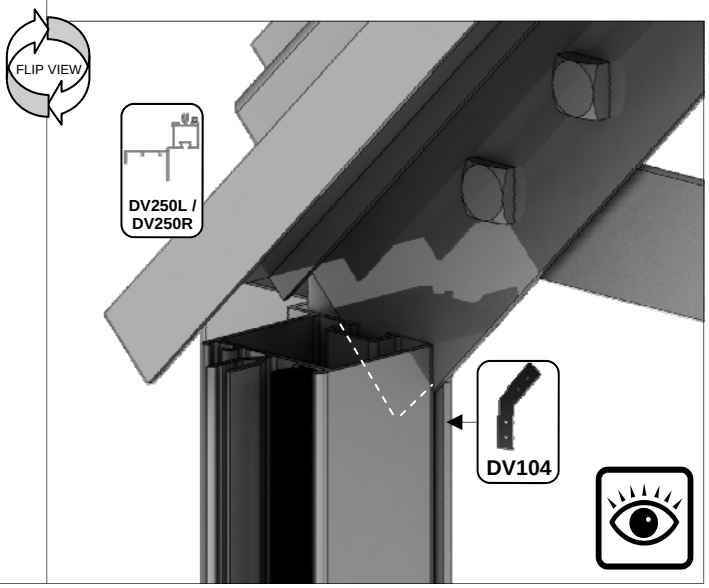
2

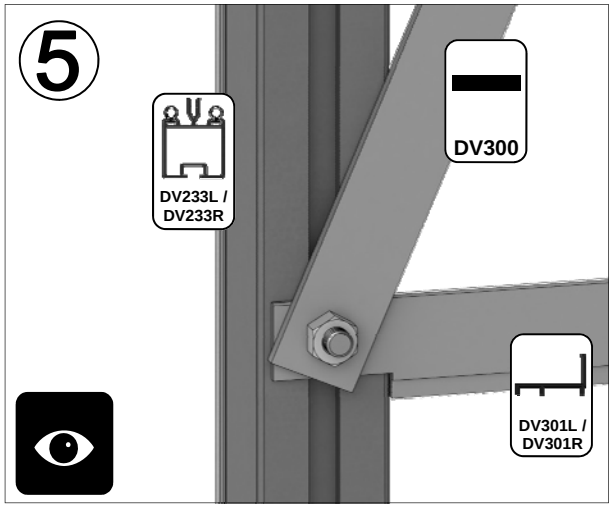

1
2 6
DV250R
DV105
D671
DV250L

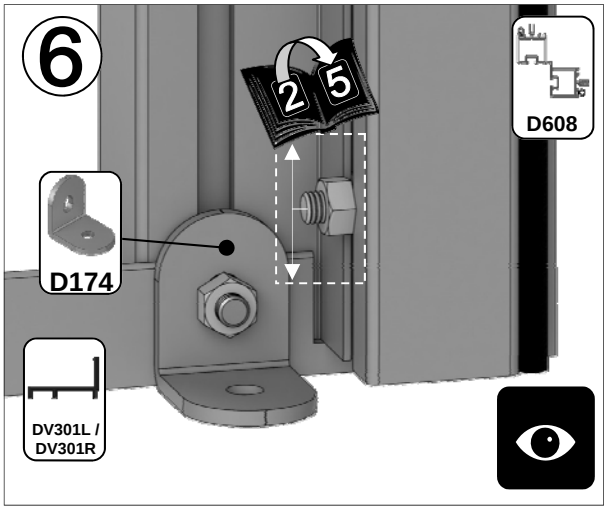

2
DV250L / DV250R
DV233L / DV233R


3
D163
DV275
DV233LH / DV233RH


4
DV250L / DV250R
DV269
2 5
DV104
D608
DV300

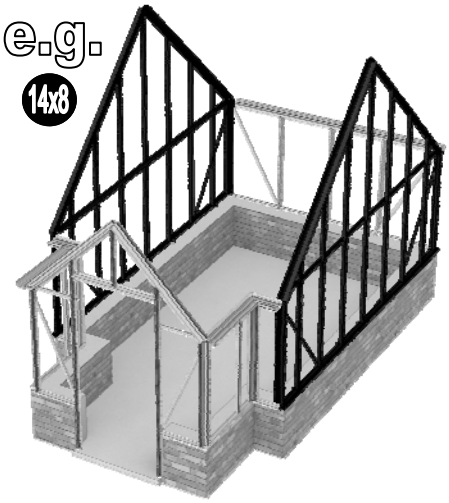

FLIP VIEW
DV250L / DV250R
DV104


5
DV233L / DV233R
DV300
DV301L / DV301R


6
2 5
D608
D174
DV301L / DV301R

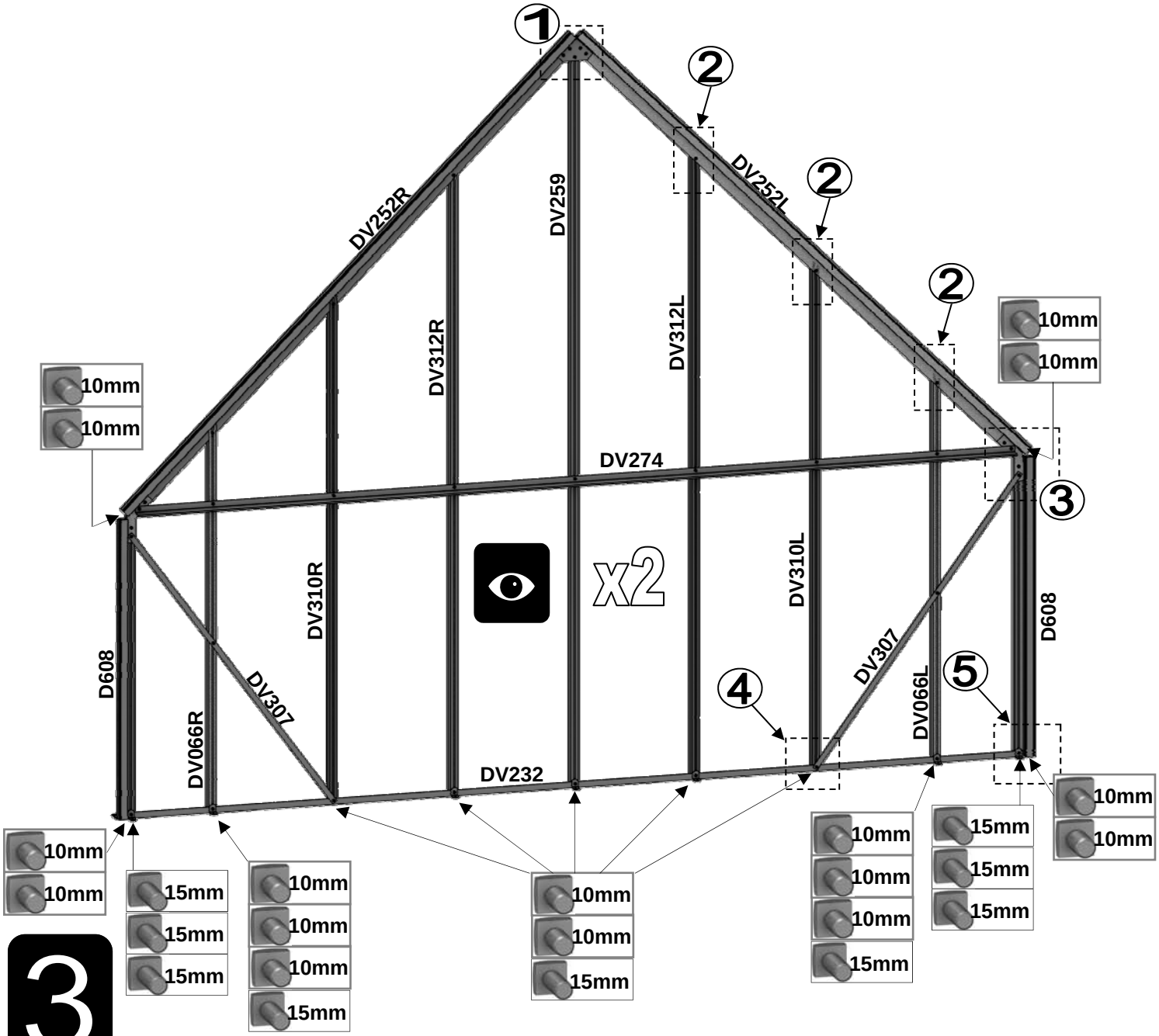
2

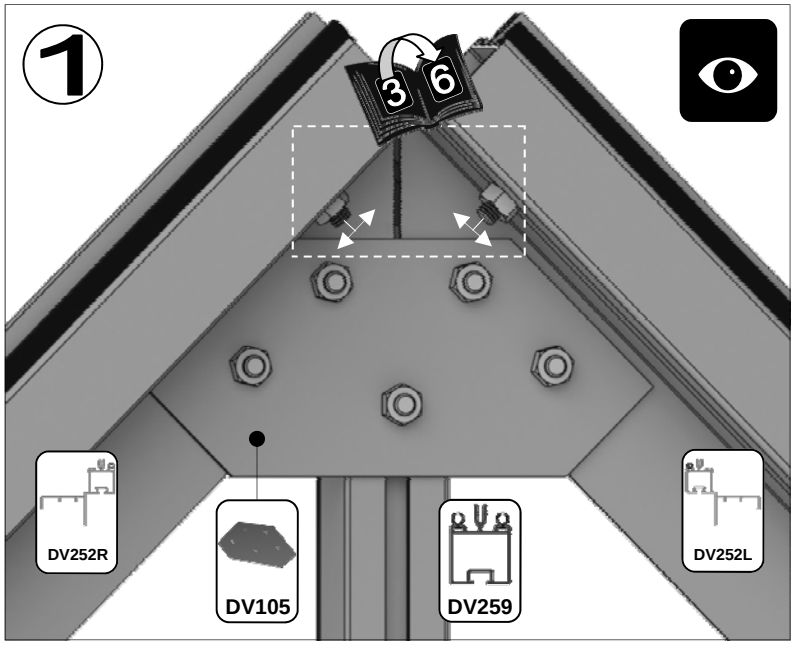
e.g.

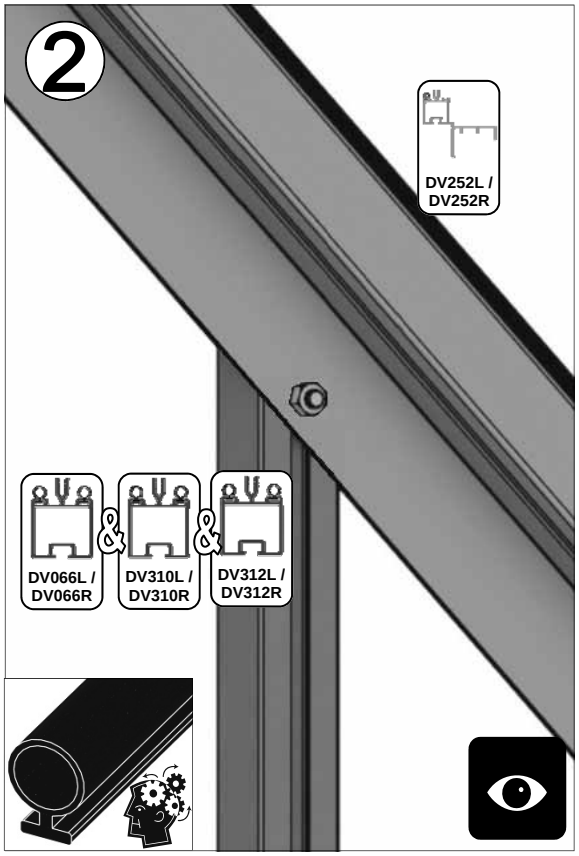


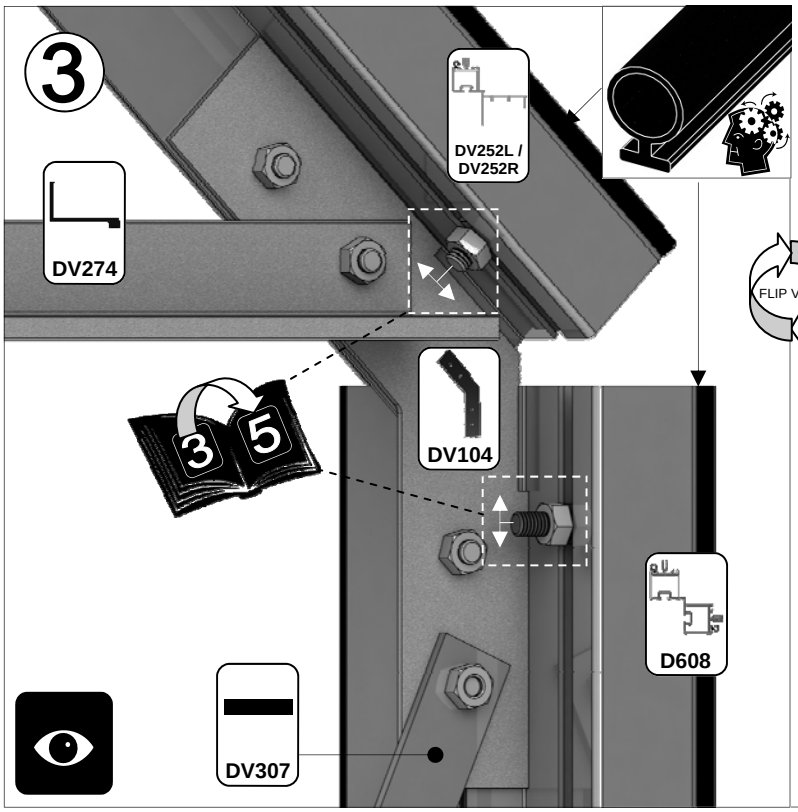
END GABLE X 2		
Part No	mm	Quantity
DV066L	1505	2
DV066R	1505	2
D608	1160	4
DV232	3548	2
DV252L	2451	2
DV252R	2451	2
DV259	2879	2
DV274	3402	2
DV307	1350	4
DV310L	1972	2
DV310R	1972	2
DV312L	2438	2
DV312R	2438	2

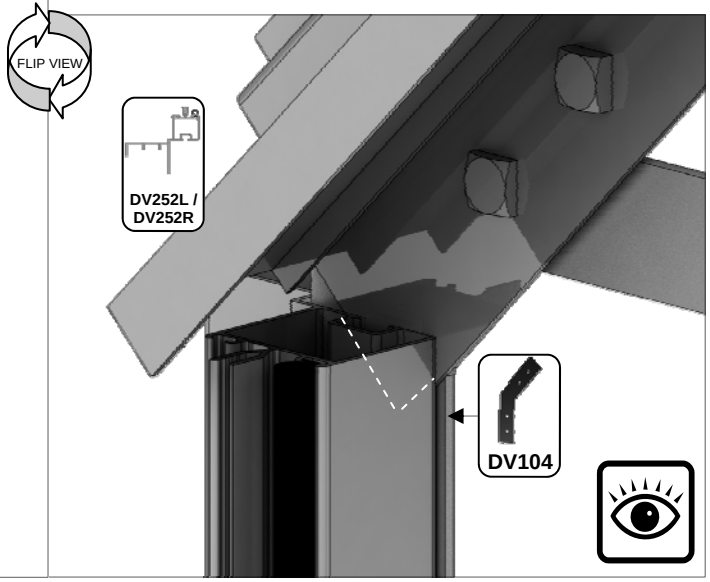
Part No	mm	Quantity
DV104		4
DV105		2
D174		14
D227		72m
M6X10		64
M6X15		26
M6NUT		90

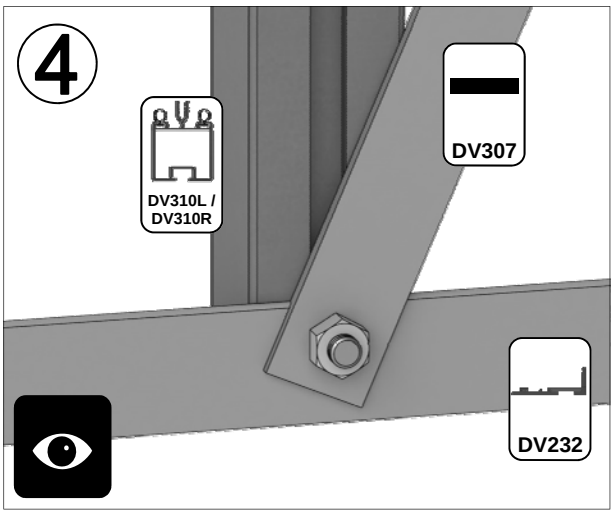


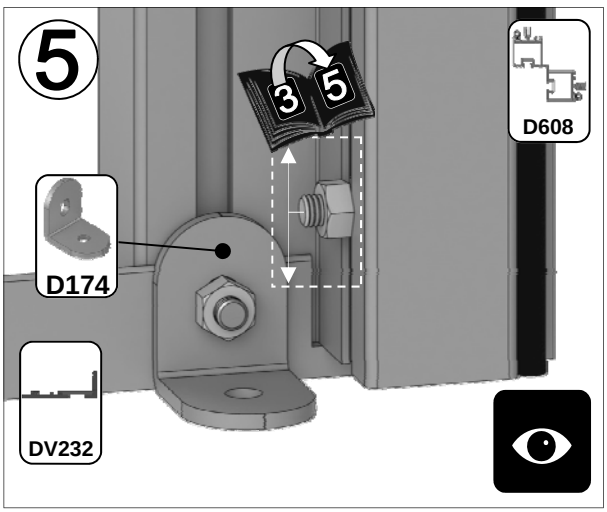

1
3
6
DV252R
DV105
DV259
DV252L


2
DV252L /
DV252R
DV066L /
DV066R
&
DV310L /
DV310R
&
DV312L /
DV312R


3
DV252L /
DV252R
DV274
3
5
DV104
D608
DV307


FLIP VIEW
DV252L /
DV252R
DV104

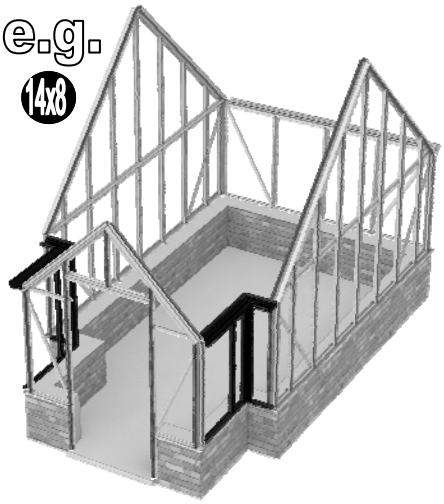

4
DV310L /
DV310R
DV307
DV232


5
3
5
D608
D174
DV232

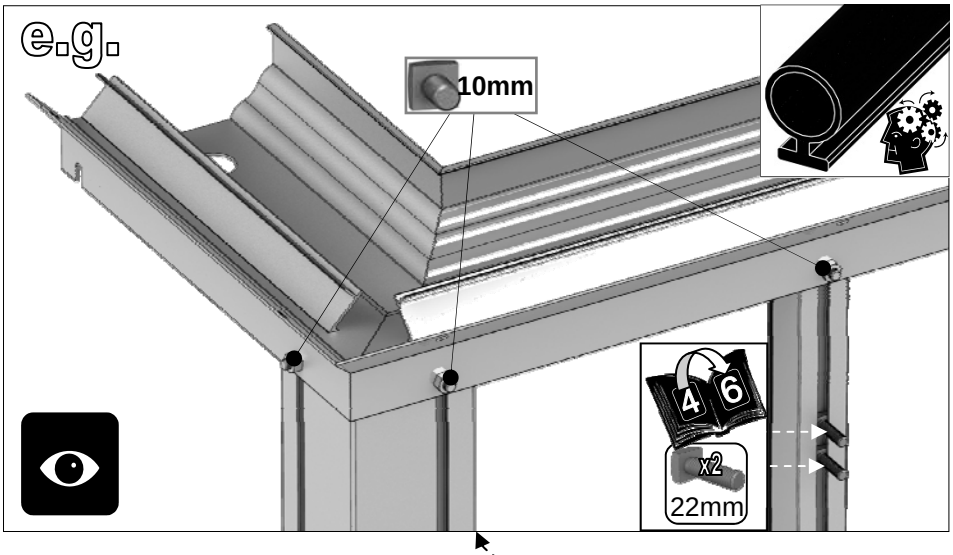
3

e.g.

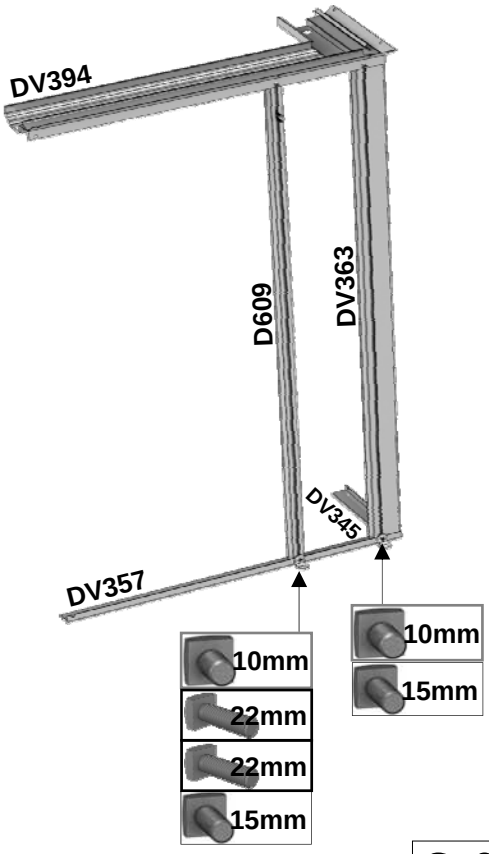
14x8

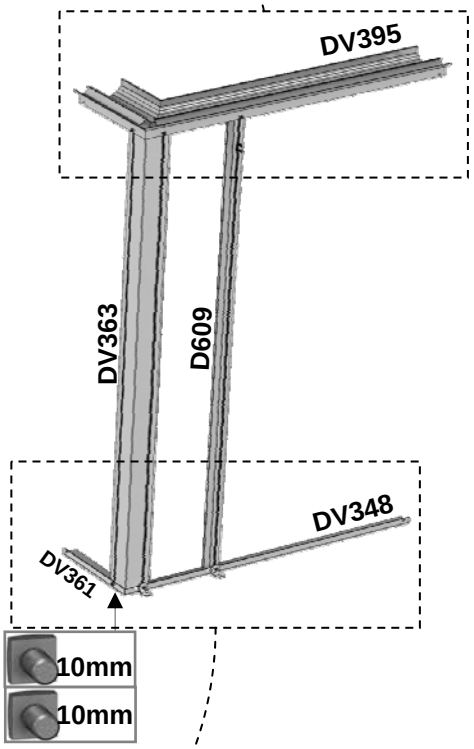


e.g.



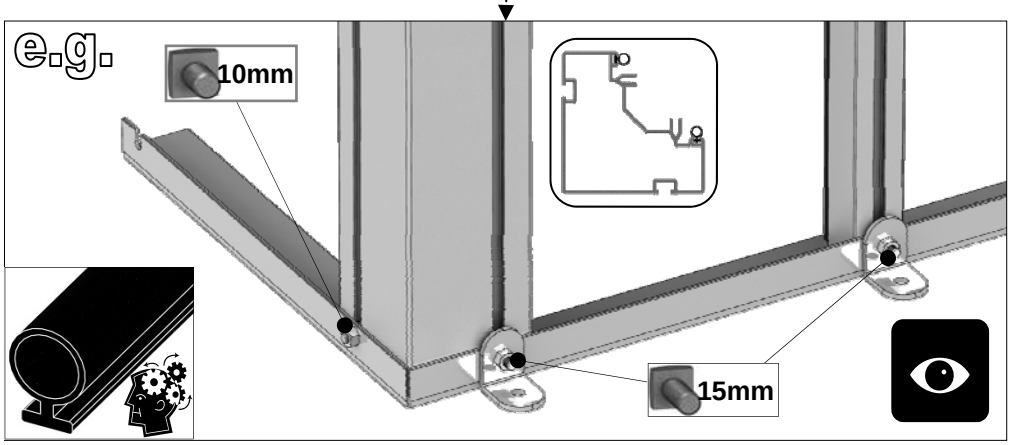
PORCH SIDES		14x8
Part No	mm	Quantity
D609	1160	2
DV345	303	1
DV348	923	1
DV357	923	1
DV361	303	1
DV363	1160	2
DV394	327X947	1
DV395		1
D174		4
D227 Rubber	1000	10
SYBOL M6X11		8
SYBOL M6X15		4
SYBOL M6X22		4
SYNUT M6		12

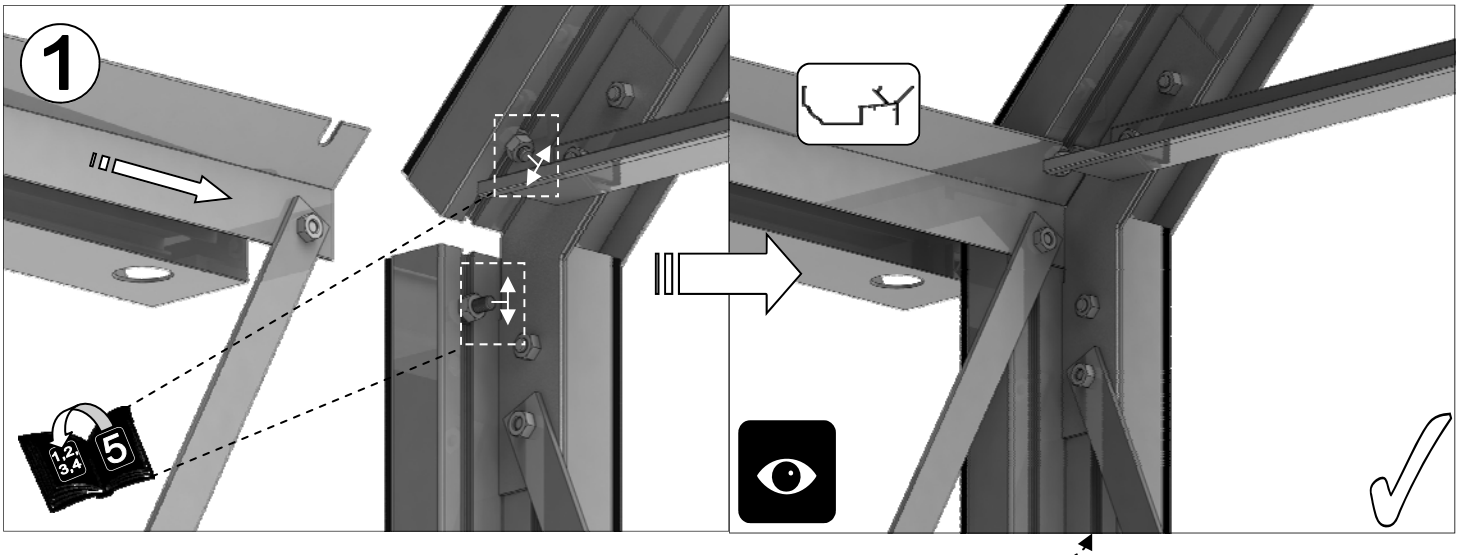


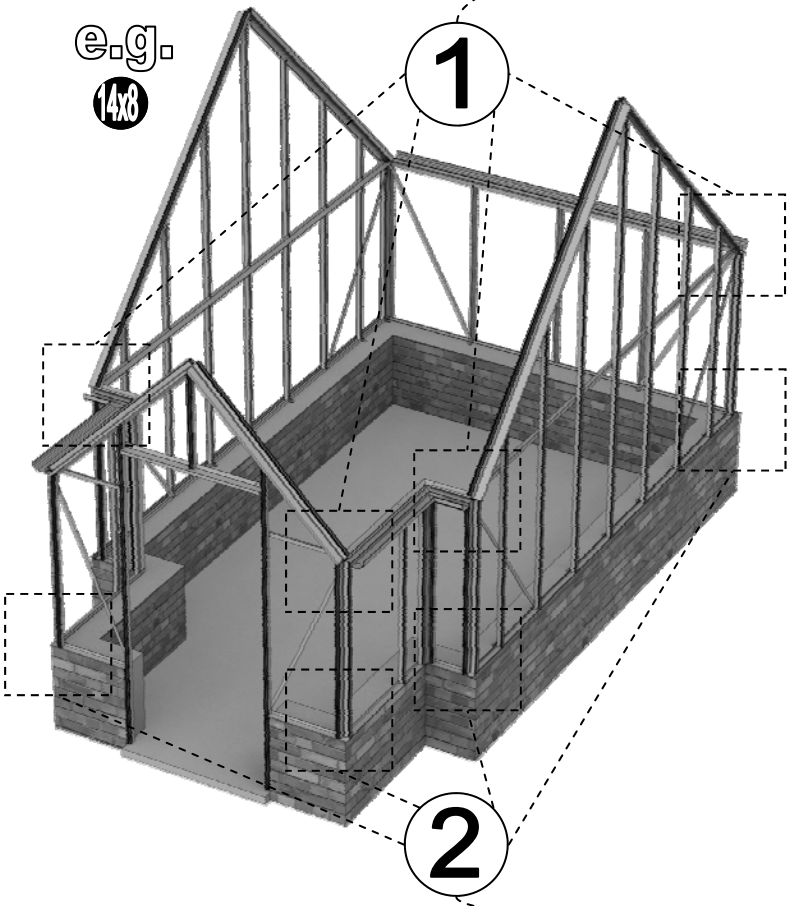


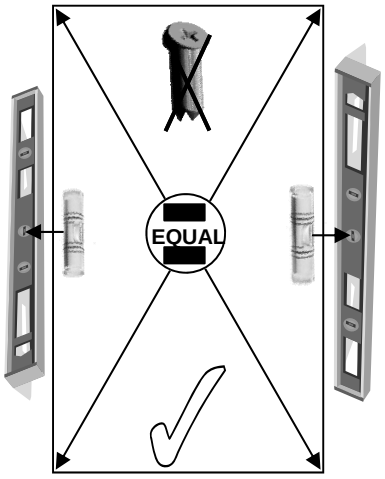
4

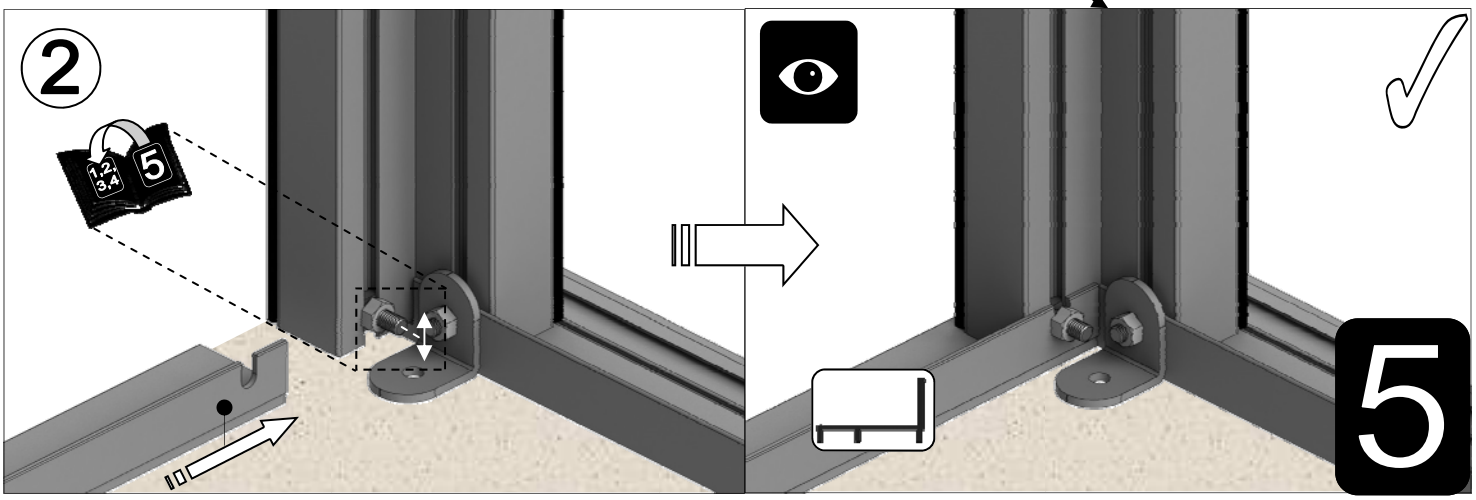
e.g.



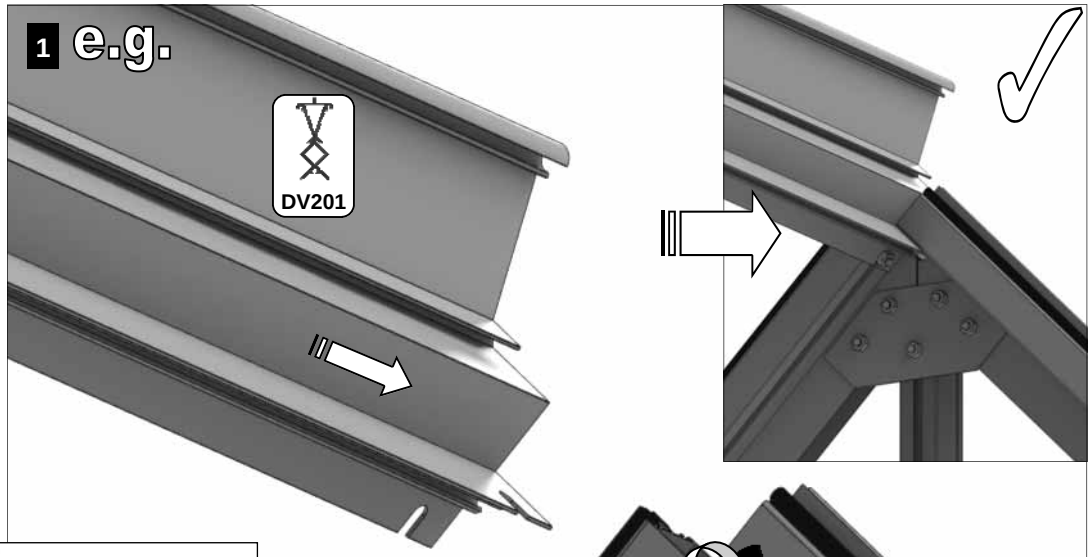

1
1,2
3,4
5

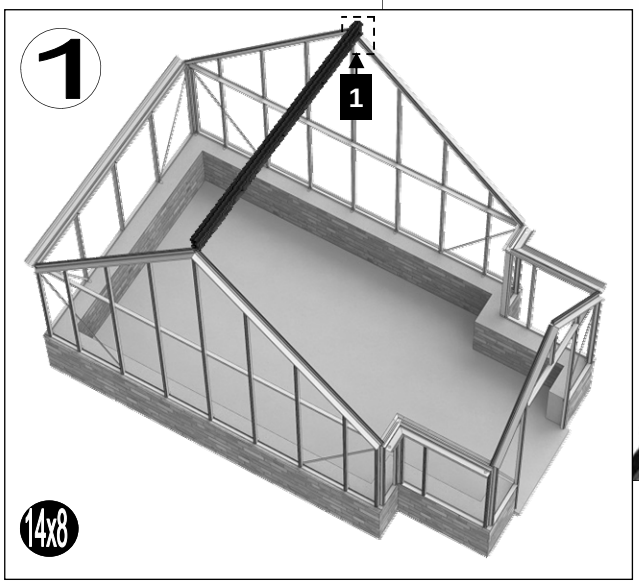

e.g.
14x8
1
2

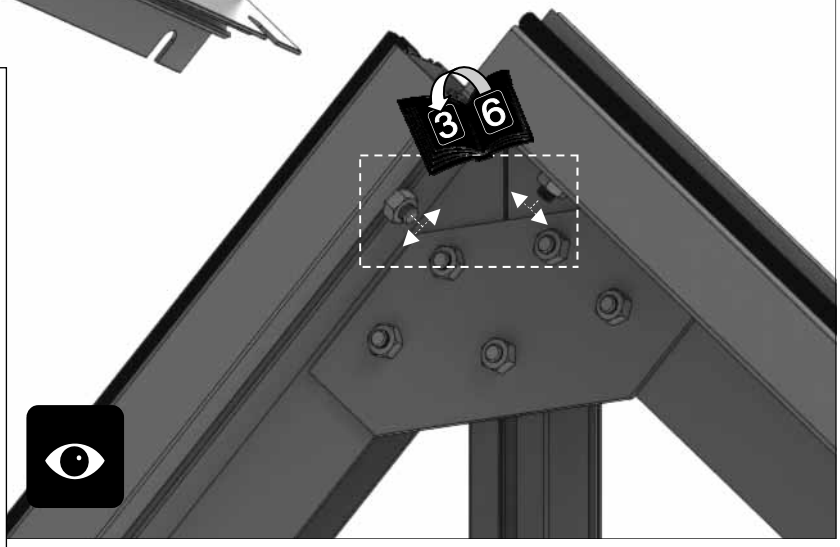

EQUAL


2
1,2
3,4
5
5

REAR ROOF		14x8
Part No	mm	Quantity
DV100	n/a	5
DV201	2517	1
DV255	2450	3
D227 Rubber	1000	15
SYBOL M6X11		6
SYBOL M6X22		12
SYNUT M6		22

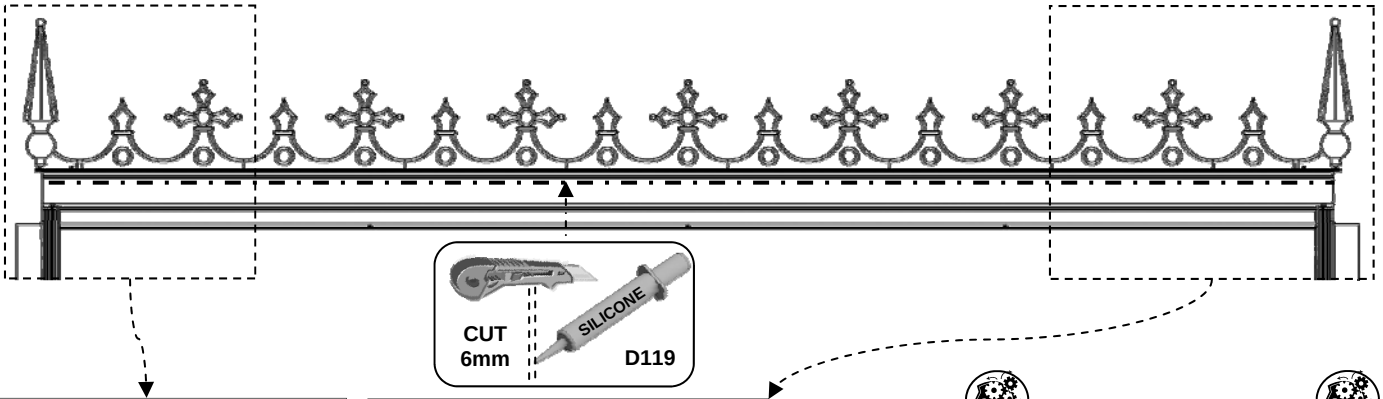


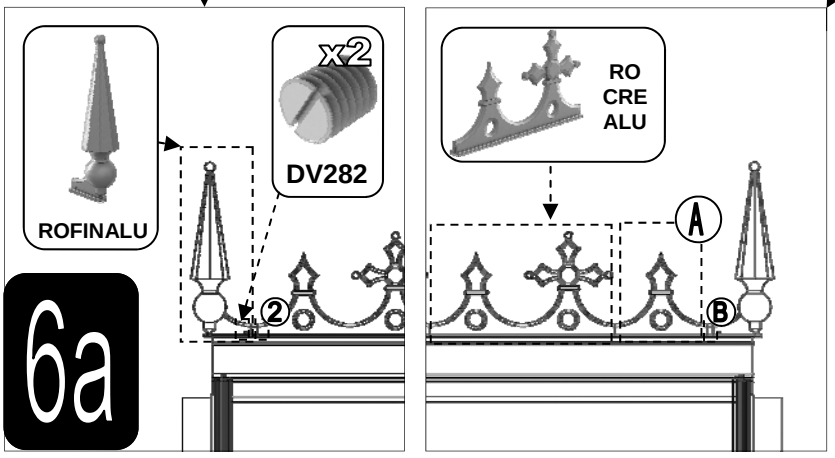


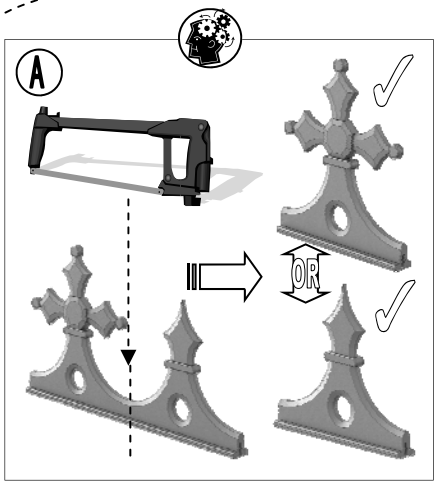


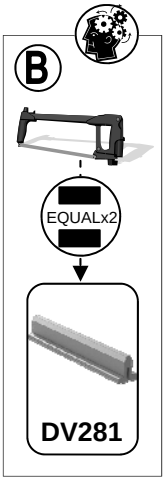
- End finials need to be pinched onto the ridge using ‘DV282’ grub screws.
- Depending on your ridge length a half cresting may need to be cut. Some spacer bar may also be required ‘DV281’ cut into two equal sections.
- Each finial and cresting piece needs to be siliconed ‘D119’ into place.

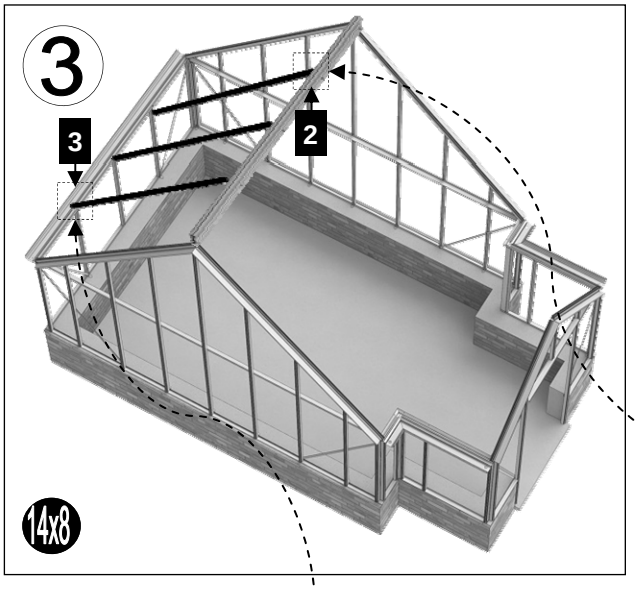
2

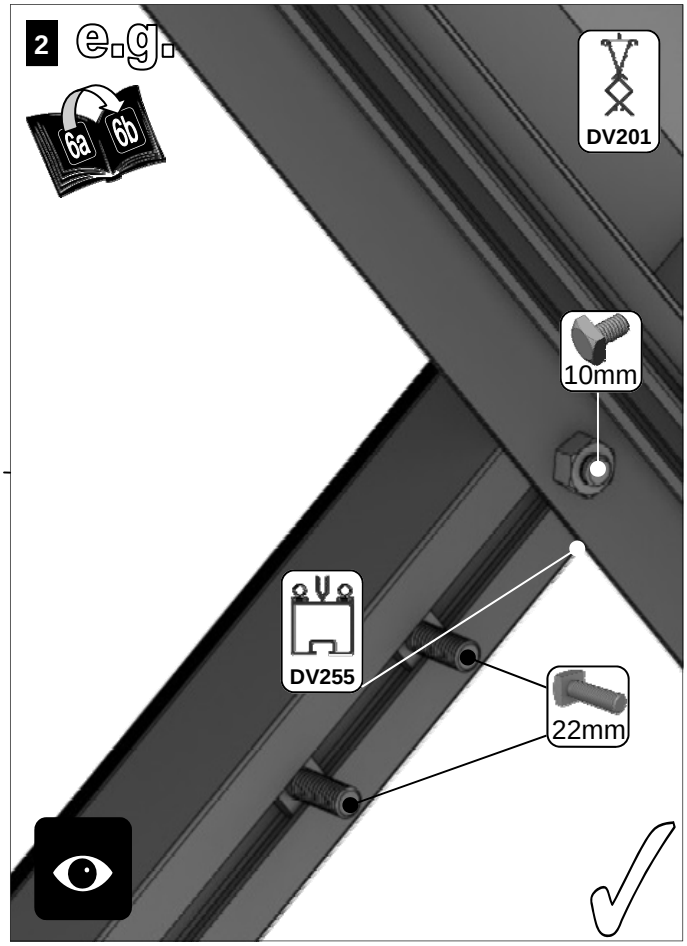


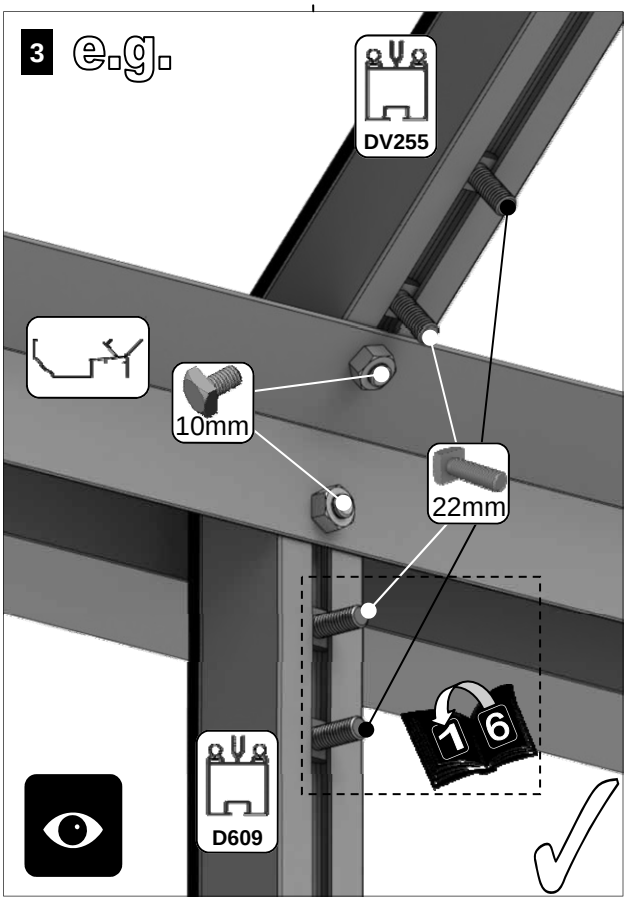


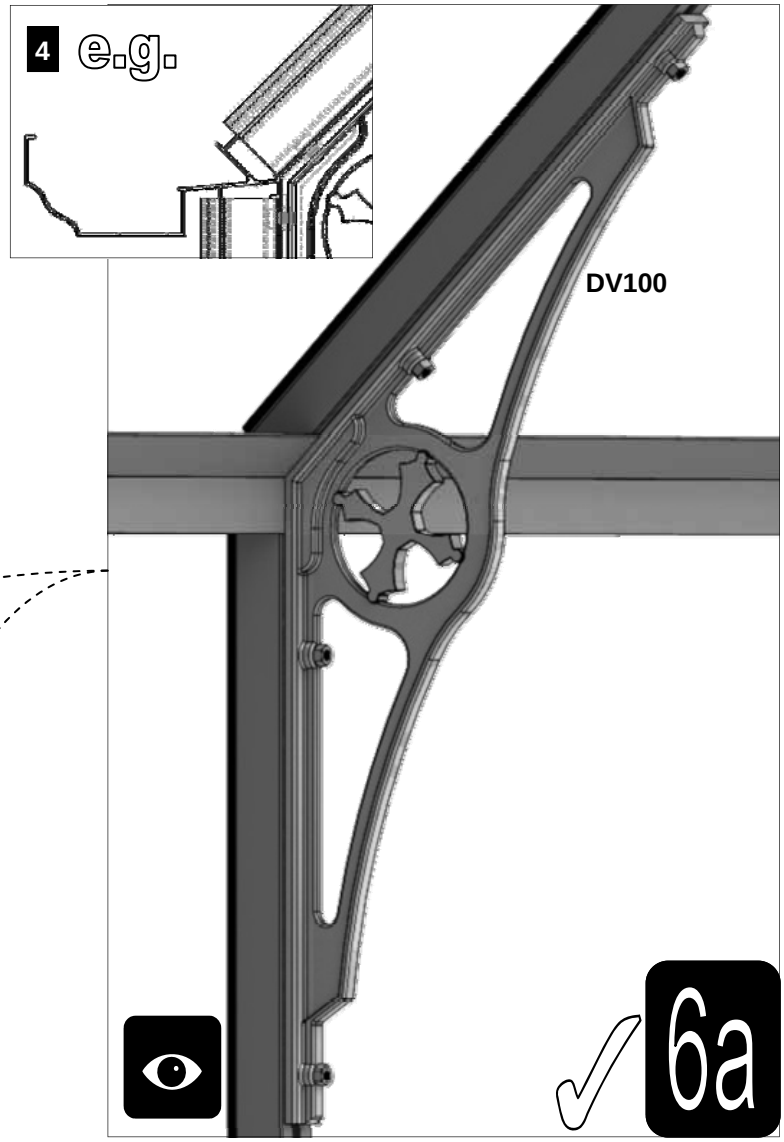


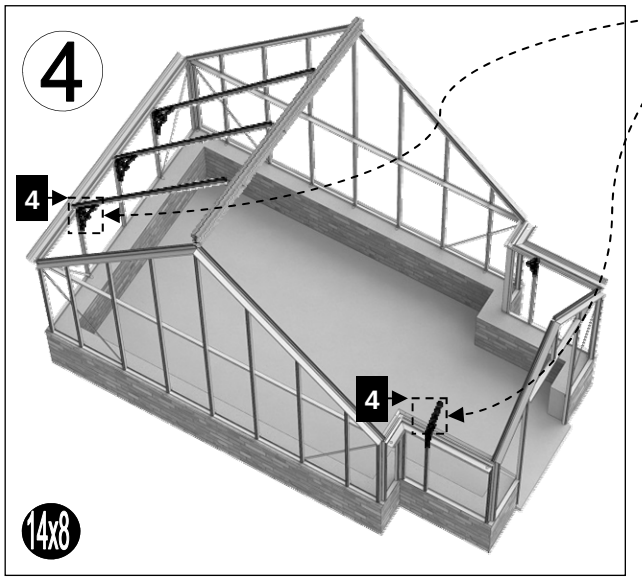



3
3
2
14x8

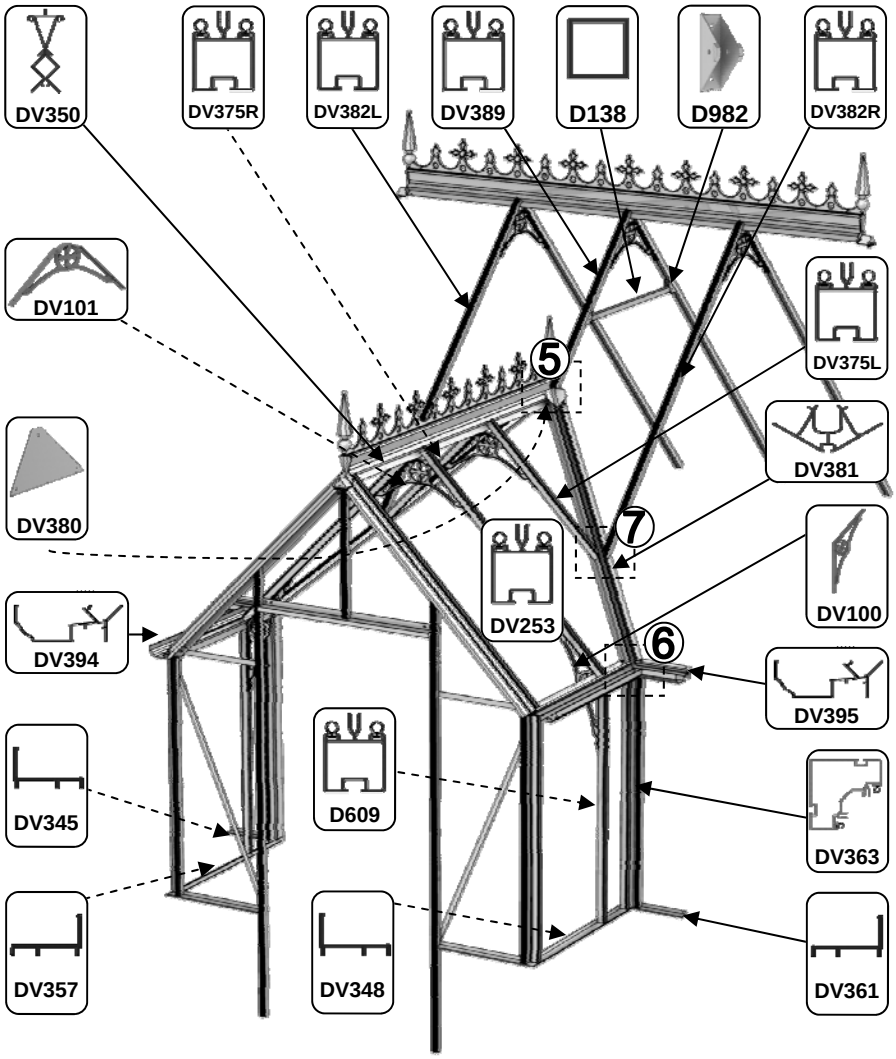

2 e.g.
6a
6b
DV201
10mm
DV255
22mm

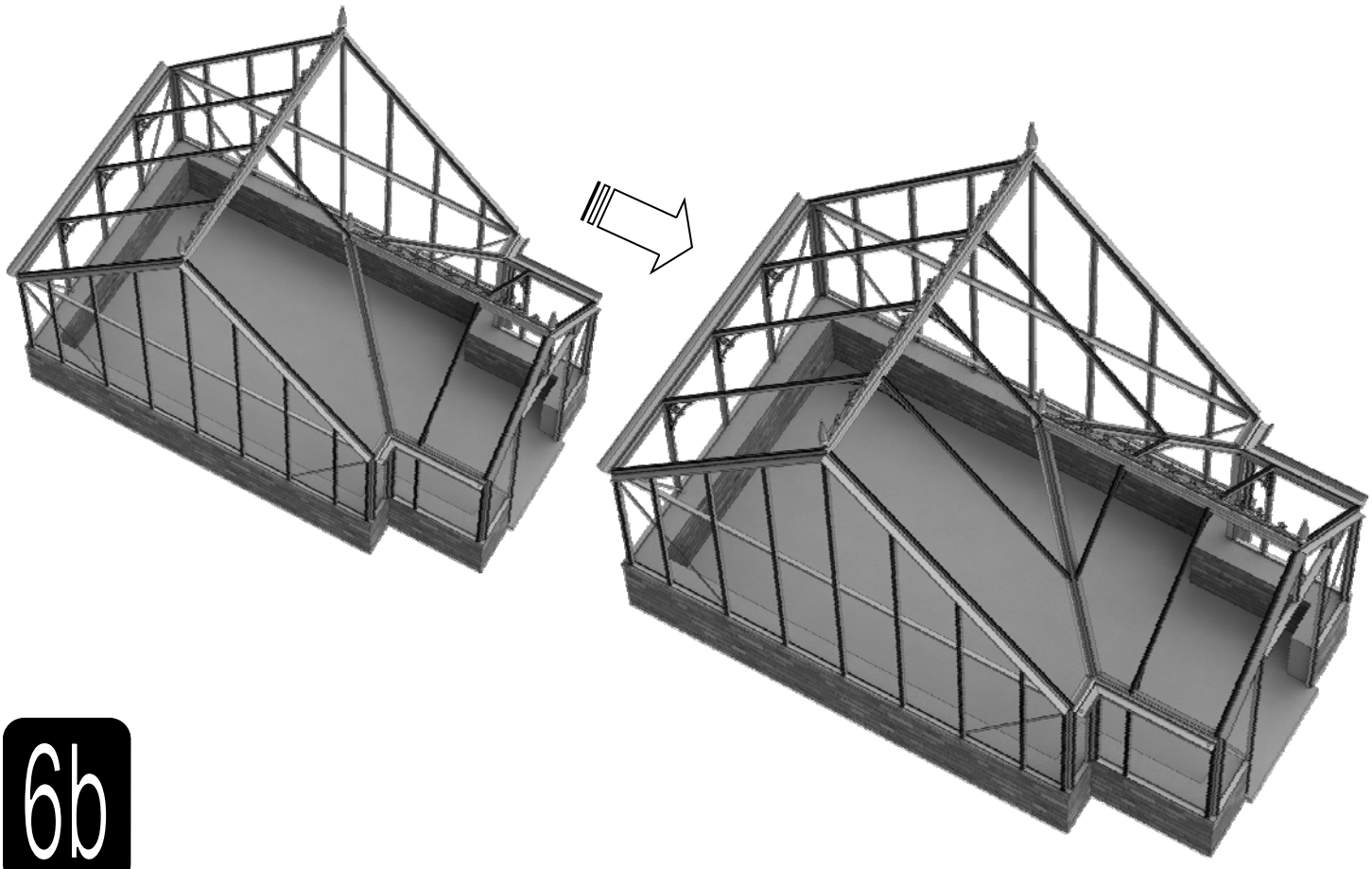

3 e.g.
DV255
10mm
22mm
1
6
D609


4 e.g.
DV100
6a

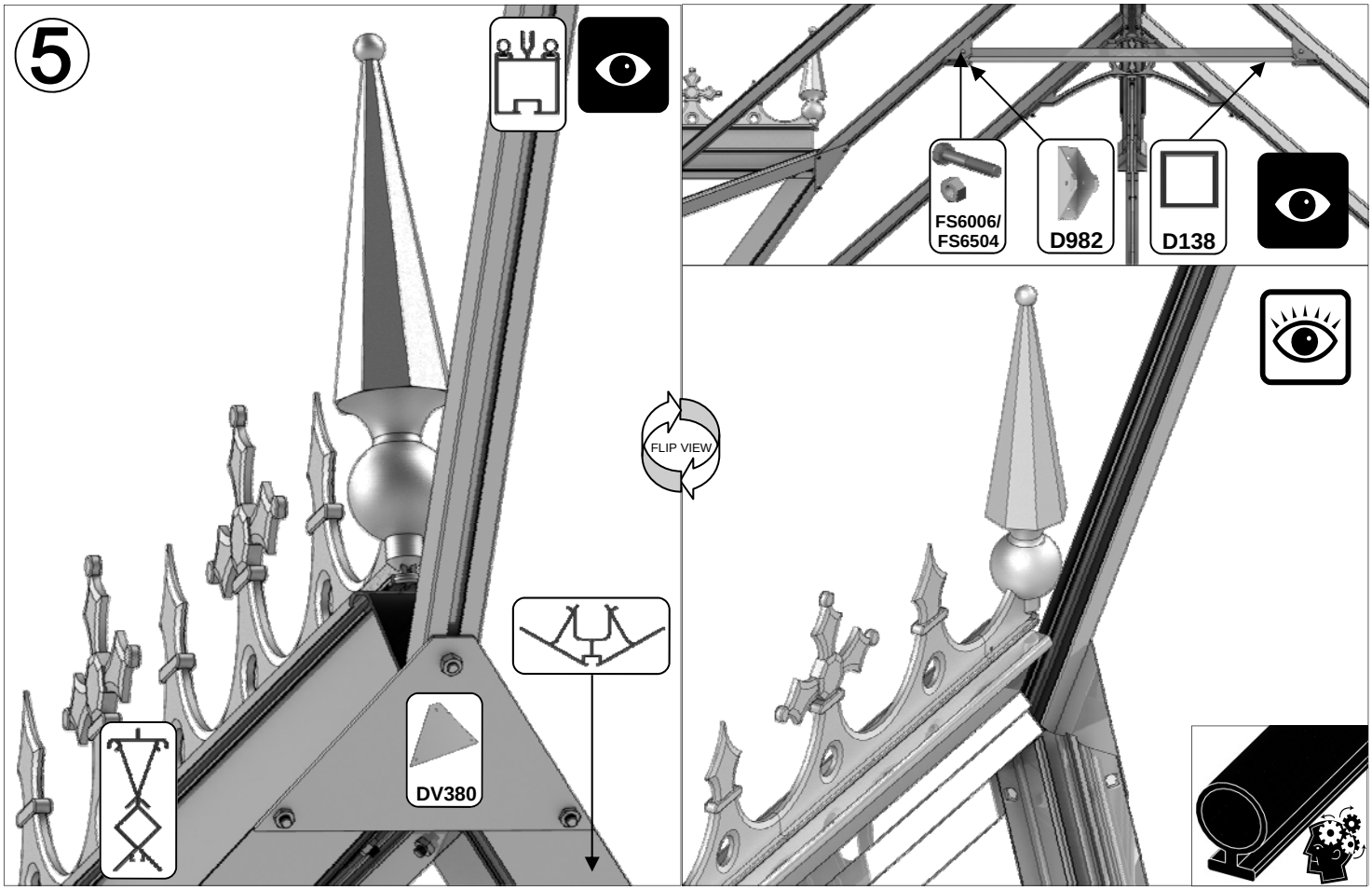

4
4
4
14x8

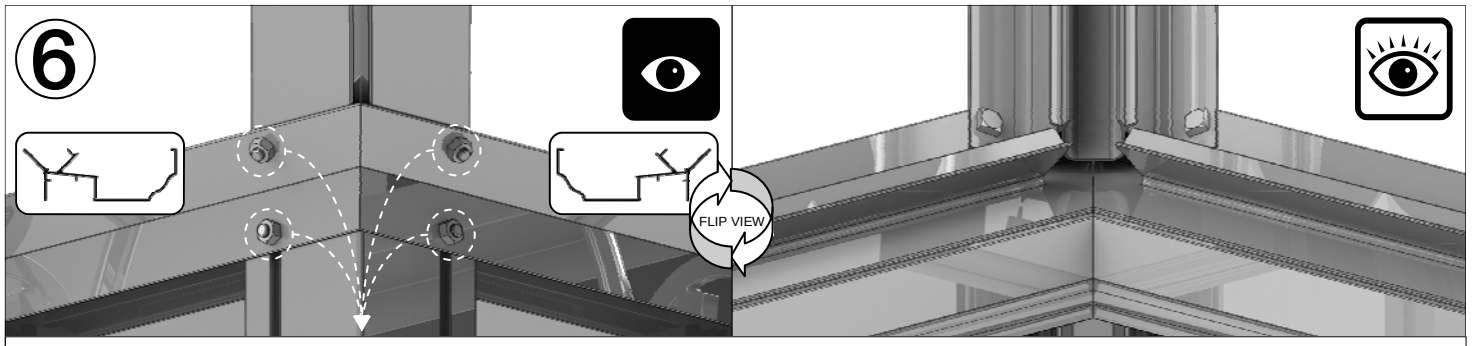
PORCH ROOF		14x8
Part No	mm	Quantity
D982	100	2
DV101	n/a	5
DV253	1345	2
DV350	1850	1
D138	1167	1
DV375L/R	830	1 + 1
DV380	n/a	1
DV381	1668	2
DV382L/R	1935	1 + 1
DV389	1105	1
D227 Rubber	1000	19
SYBOL M6X11		22
SYBOL M6X22		18
SYNUT M6		46



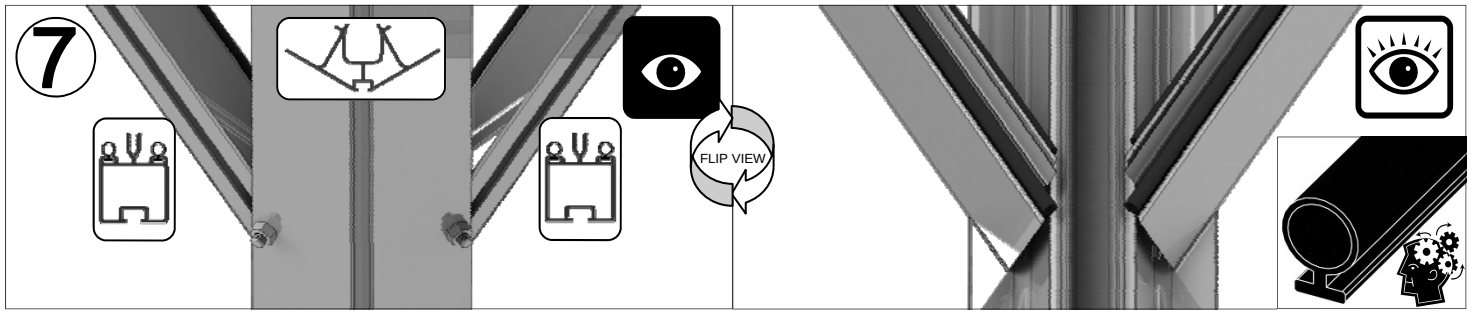


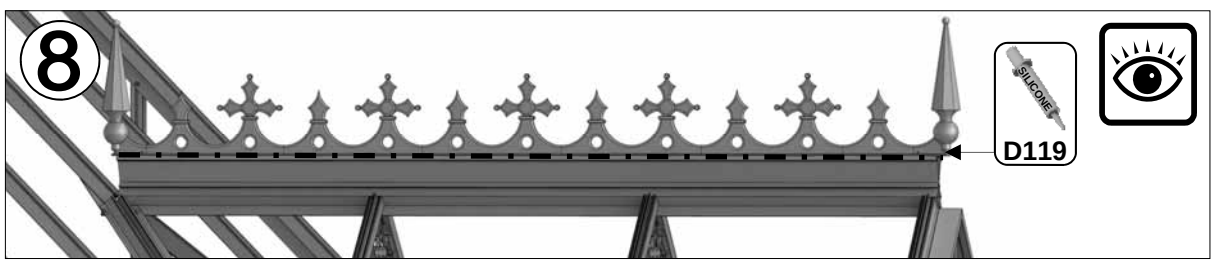
6b





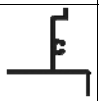
IMPORTANT: Because your porch gutter sections are welded together to eliminate the chance of any leaks the holes circled above can vary slightly in their locations. They may therefore require slight alteration to marry up with DV363 and DV379. Using an 8mm drill bit to enlarge the standard 7mm holes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





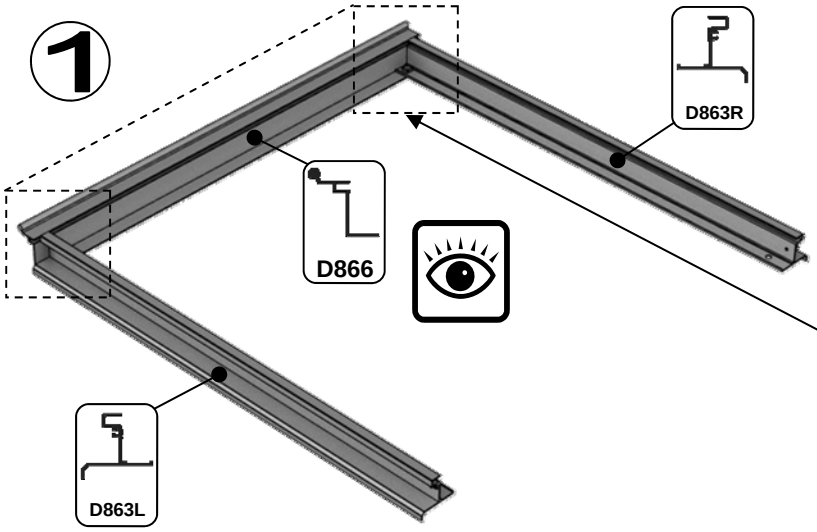
6b

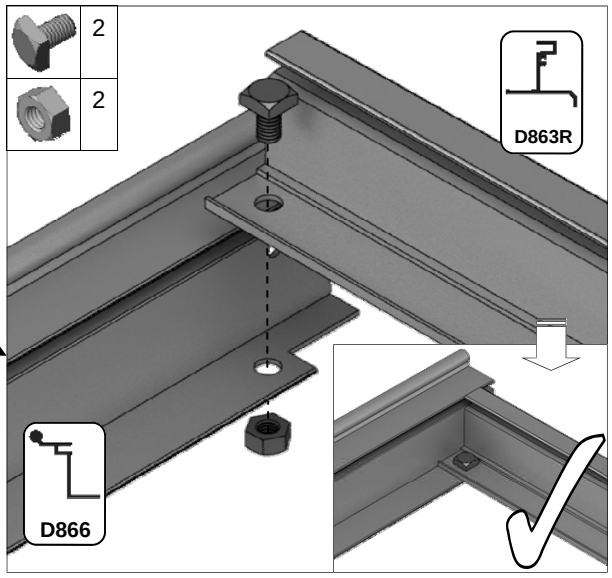
D1208
1 of -
610 x 610
pane

Part No		mm	Quantity
D866		639	1
D863L		613	1
D863R		613	1
D862		593	1

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

1





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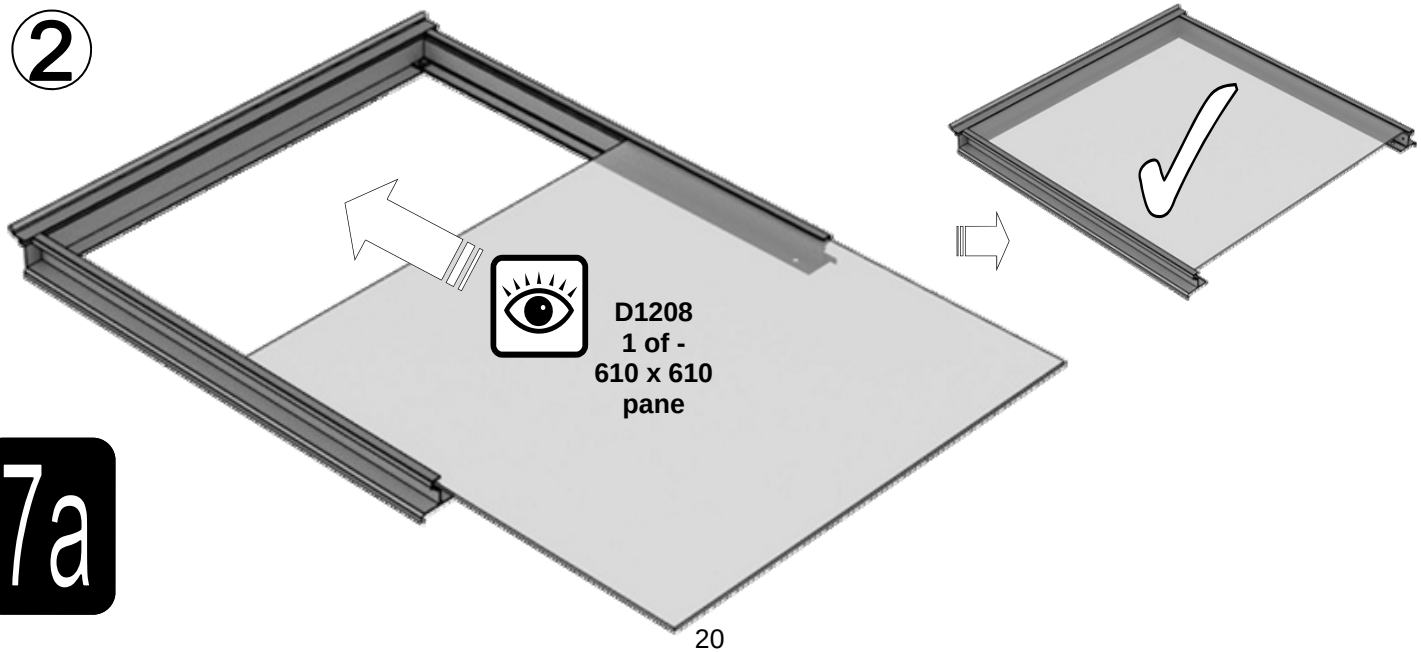
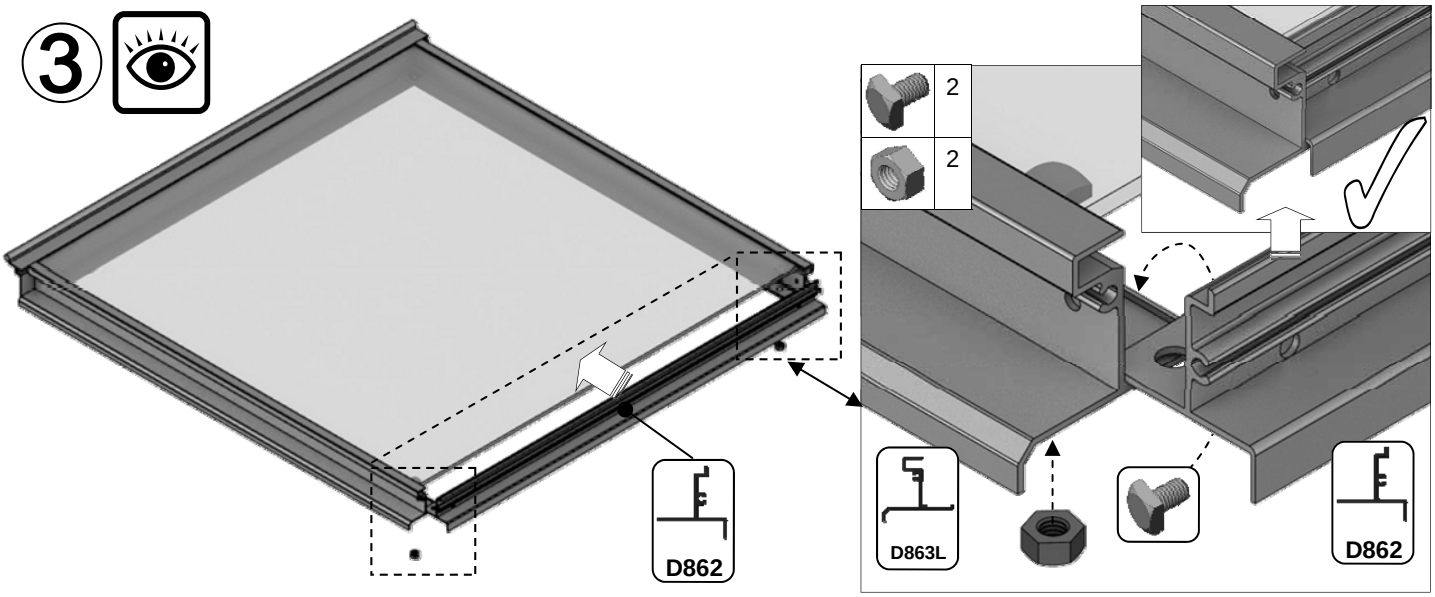
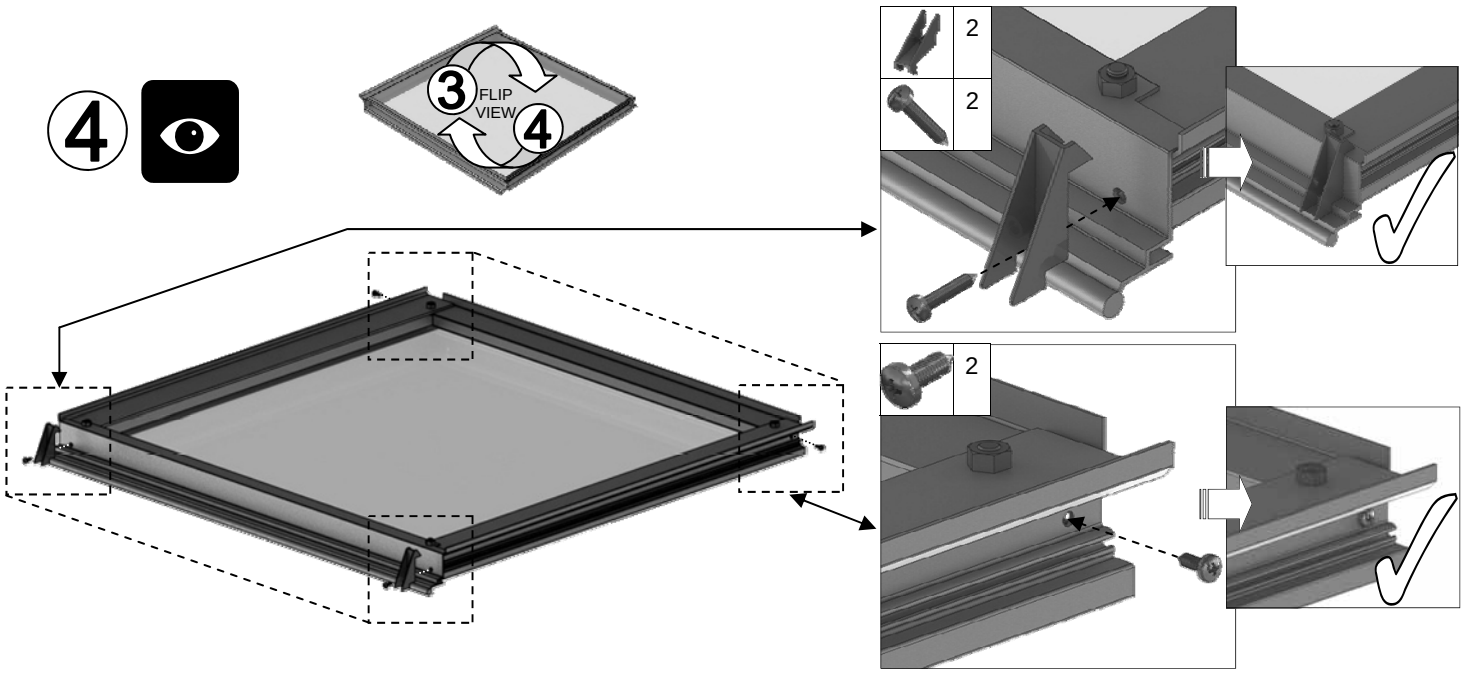
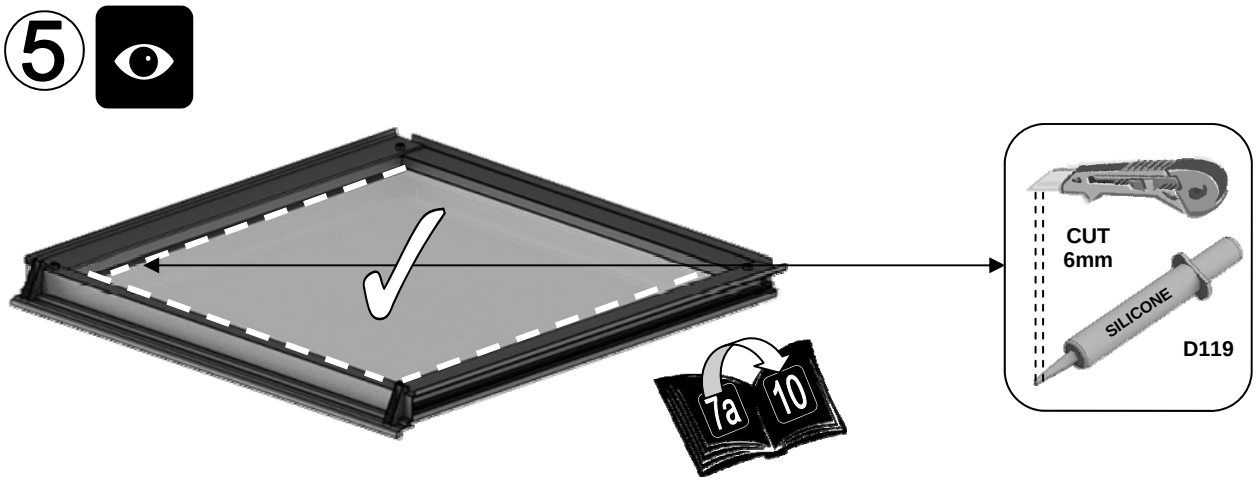


7a


3
2
2
D862
D863L
D862


4
3
FLIP
VIEW
4
2
2
2

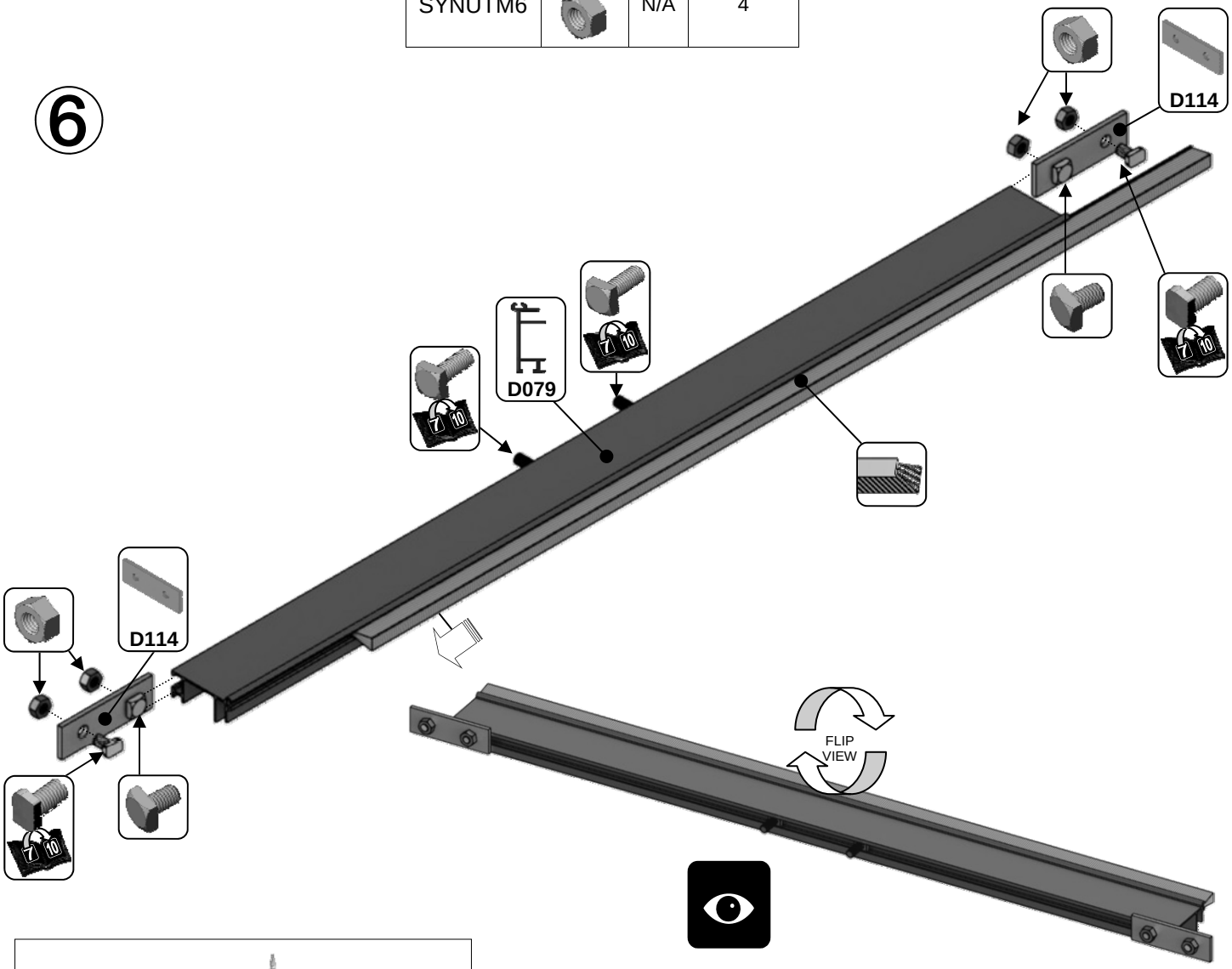

5
CUT
6mm
SILICONE
D119
7a
10
7a

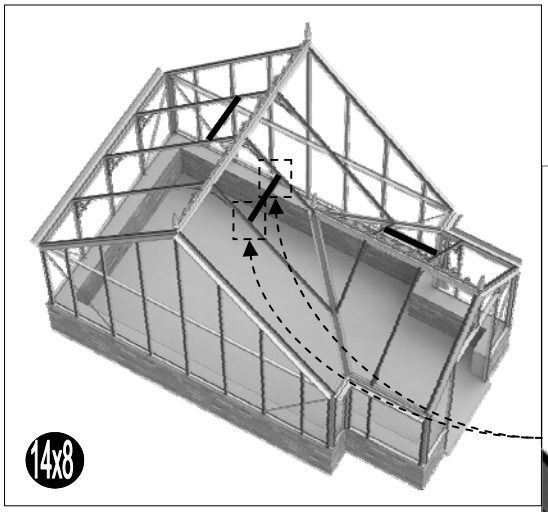
1 vent slam bar = {

Part No		mm	Quantity
SY-BOLM6X11		10	2
SY-BOLM6X15		15	2
SYBOLM6X11CROP		10	2
SYNUTM6		N/A	4

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

6





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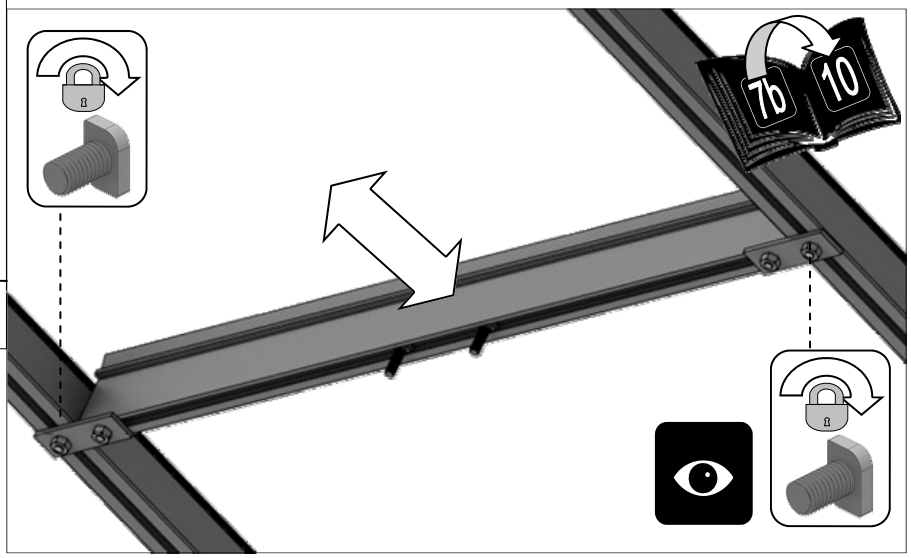
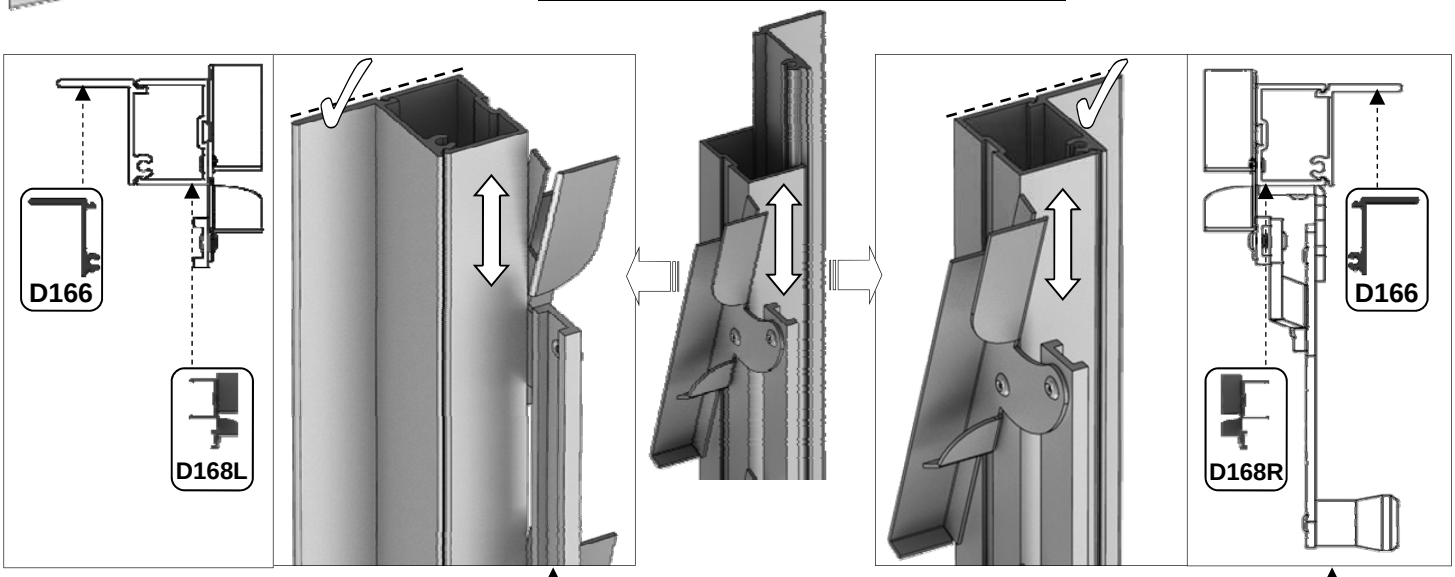
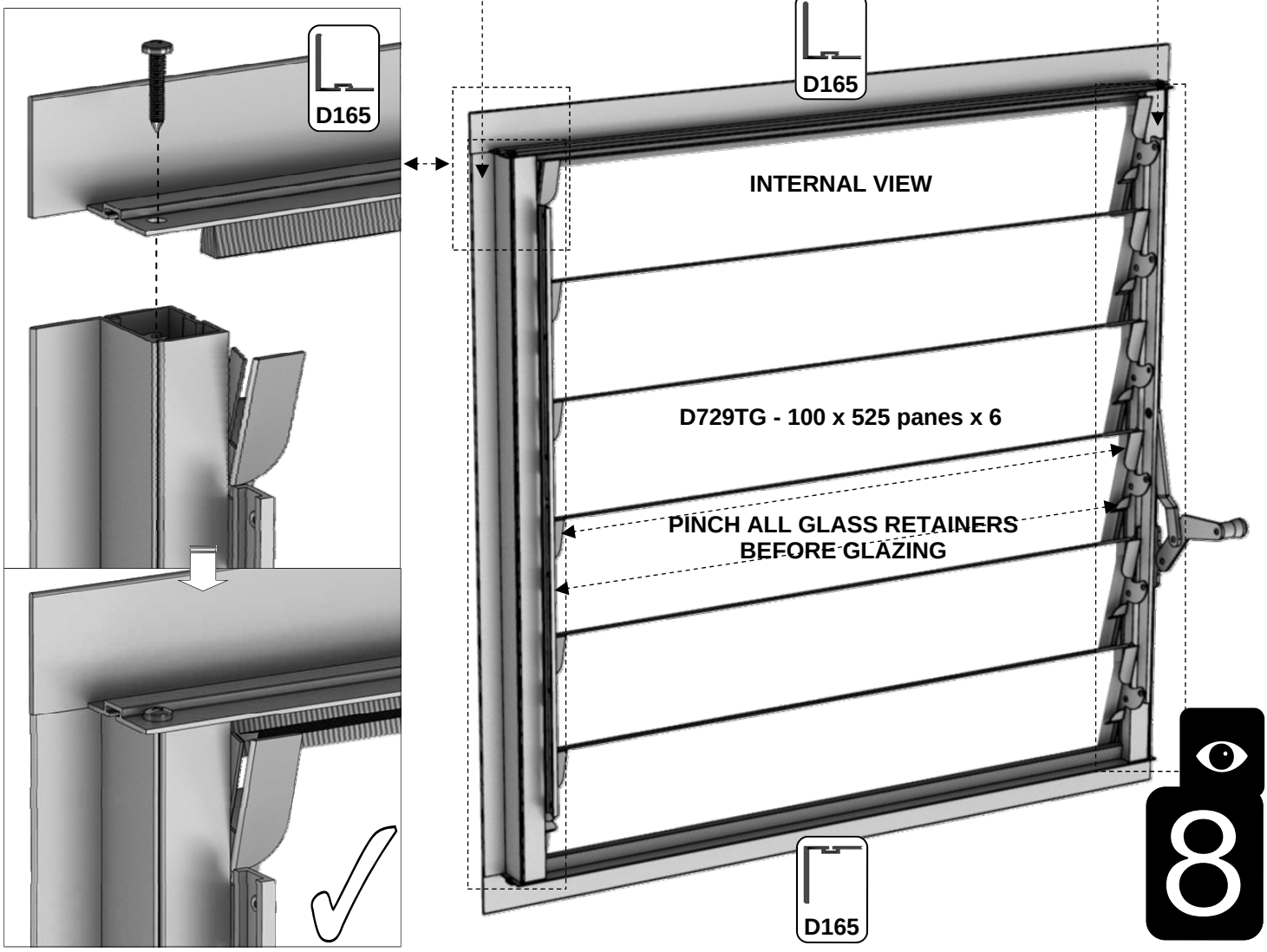


Part No		mm	Quantity
D168L		552	1
D168R (handle)		552	1
D165		612	2
D166		552	2
FS6013		12	4





PORCH CAPS AND COVERS			14x8
PART No	**SECTION**	**SIZE (mm)**	**QUANTITY**
D618		1144	9
D662		600	1
D823		516	1
D870		601	6
DV403L/R		1505	2 + 2
DV479		1384	1
DV610L/R		1972	2 + 2
DV612L/R		2438	2 + 2
DV653		1378	2
DV655		1880	3
DV659		2879	2
DV633L/R		2173	1 + 1
DV675L/R		863	1 + 1
DV687L/R		1365	1 + 1
D610		1160	6
D620		1144	6
D871		601	4
DV650		1345	2
DV652		1871	4
D614		1162	6
D619		1144	16
D666		602	1
DV480		1384	1
DV611L/R		1972	2 + 2
DV613L/R		2438	2 + 2
DV615L/R		1505	2 + 2
DV634L/R		2173	1 + 1
DV656		1378	4
DV658		2481	7
DV665		2879	2
DV679L/R		863	1 + 1
DV688L/R		1968	1 + 1

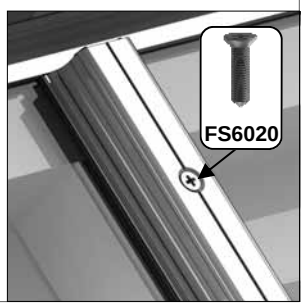
GLAZING (plans pto):

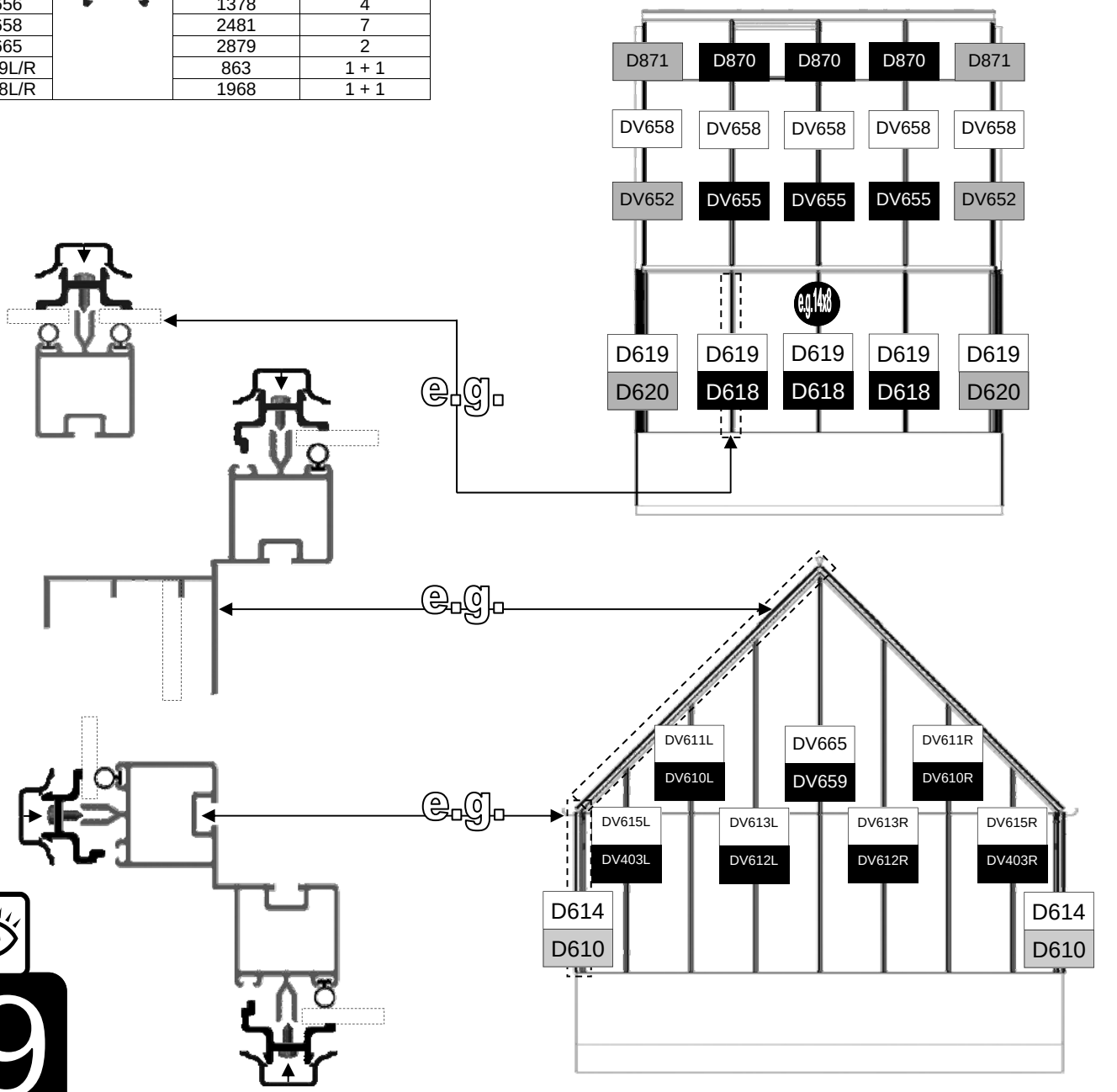
Glass and aluminium can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.

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. D618 and covers e.g. D619 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.

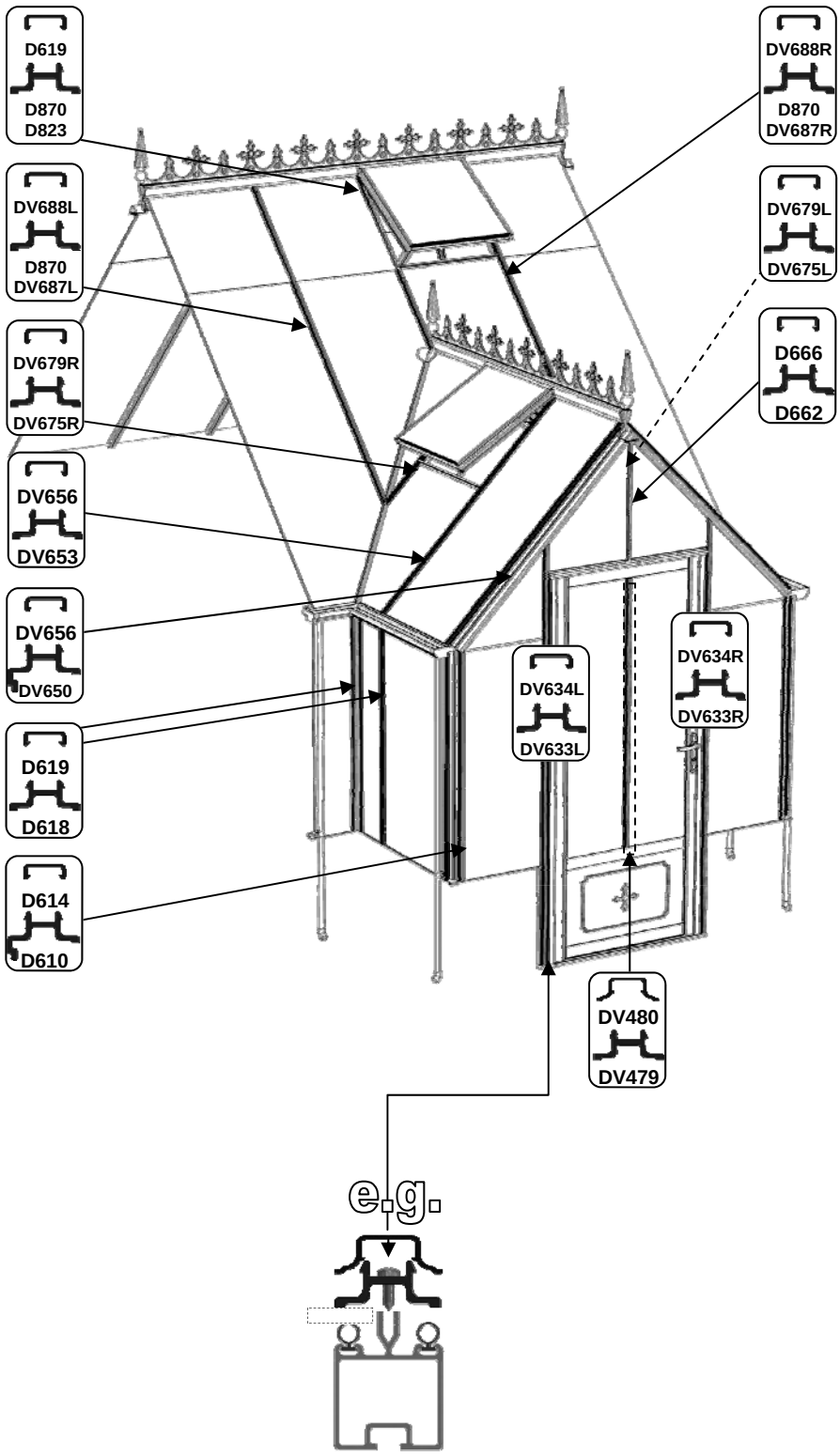
If you have a building which has aluminium cover caps then the roof covers are held in place with low-profile countersunk screws 'FS6020'. It looks neatest if all of these screws go towards the ridges of the building, see right.





9

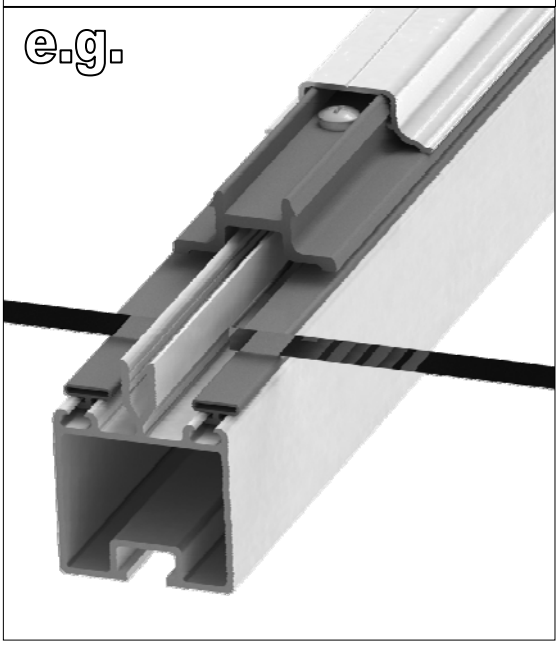
14x8

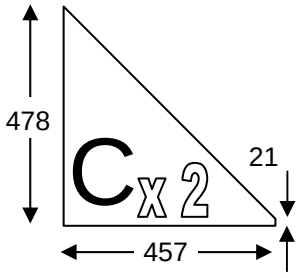

D619
D870
D823
DV688L
D870
DV687L
DV679R
DV675R
DV656
DV653
DV656
DV650
D619
D618
D614
D610
DV688R
D870
DV687R
DV679L
DV675L
D666
D662
DV634L
DV633L
DV634R
DV633R
DV480
DV479
e.g.

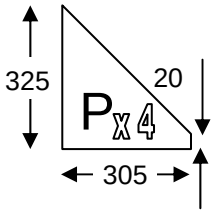
9

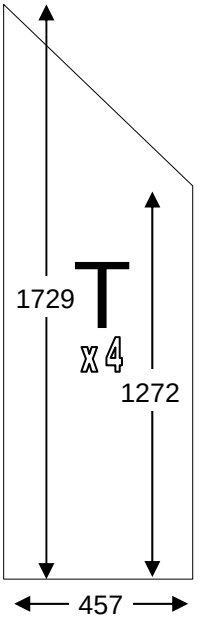
PORCH GLASS			14x8	14x16
PART No		**Size (mm)**	**QUANTITY**	
D624	M	610 X 550	2	4
D625	N	305 X 1162	4	4
D729	L	525 X 100	12	24
D769	G	457 X 1162	14	14
D1208	A	610 X 610	9	17
D1216	S	610 X 1162	4	10
DV507	P	ANGLE	4	4
DV700	D	357 X 1384	2	2
DV706	U	610 X 1384	2	2
DV710	C	ANGLE	2	2
DV712	H	ANGLE	2	2
DV713	K	ANGLE	4	4
DV714	J	ANGLE	4	4
DV716	T	ANGLE	4	4
DV725	E	ANGLE	2	2
DV735	W	215 X 1162	4	4
DV737	O	ANGLE	1	1
DV746	Z	ANGLE	1	1
DV749	X	ANGLE	2	2
DV750	Y	SPECIAL ANGLE	2	2
610 X 1890	R	610 X 1890	4	12
D223/B		Cut to 904mm	1	1
D101 / ROSEPS	H	610 long (inc cuts to 457&305mm)	18 (inc louvers)	20 (inc louvers)

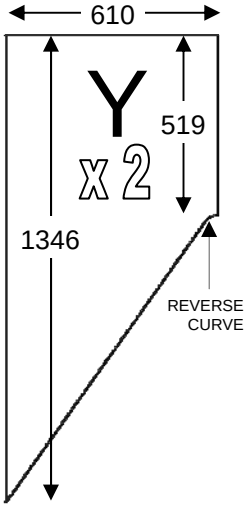
IMPORTANT: On the roof sections please make sure that you place a screw around 25mm / 1" from the bottom of each capping strip (create a hole in the plastic if required) and that the screws are nice and tight to avoid any glass slippage.

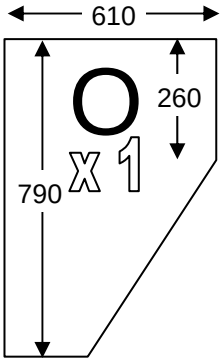


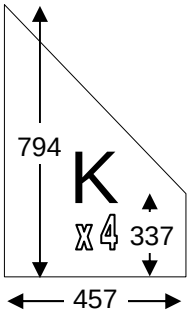


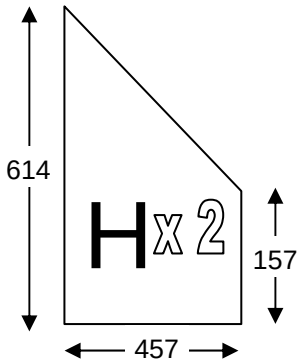


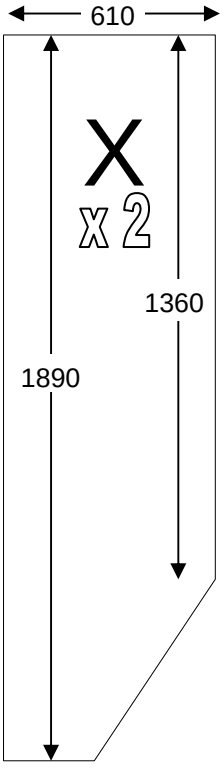


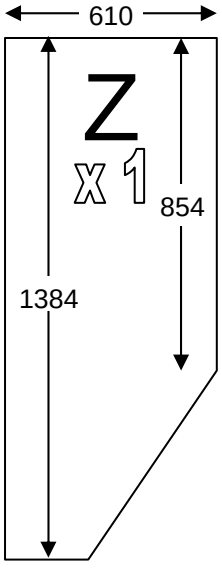


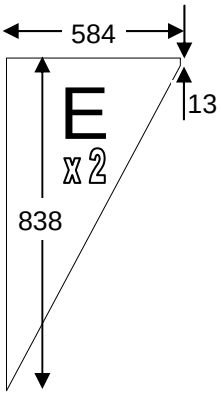


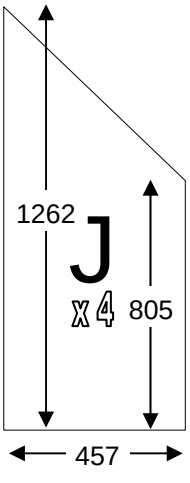


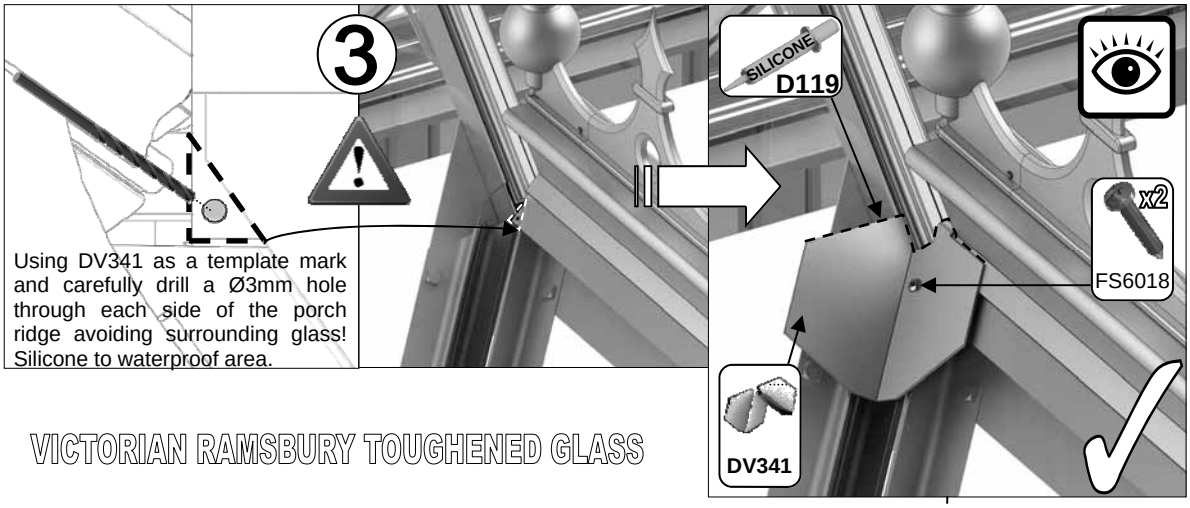




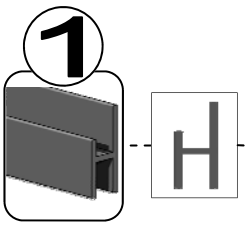


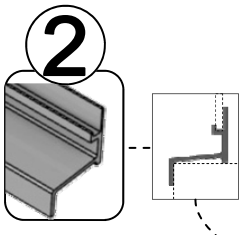






VICTORIAN RAMSBURY TOUGHENED GLASS





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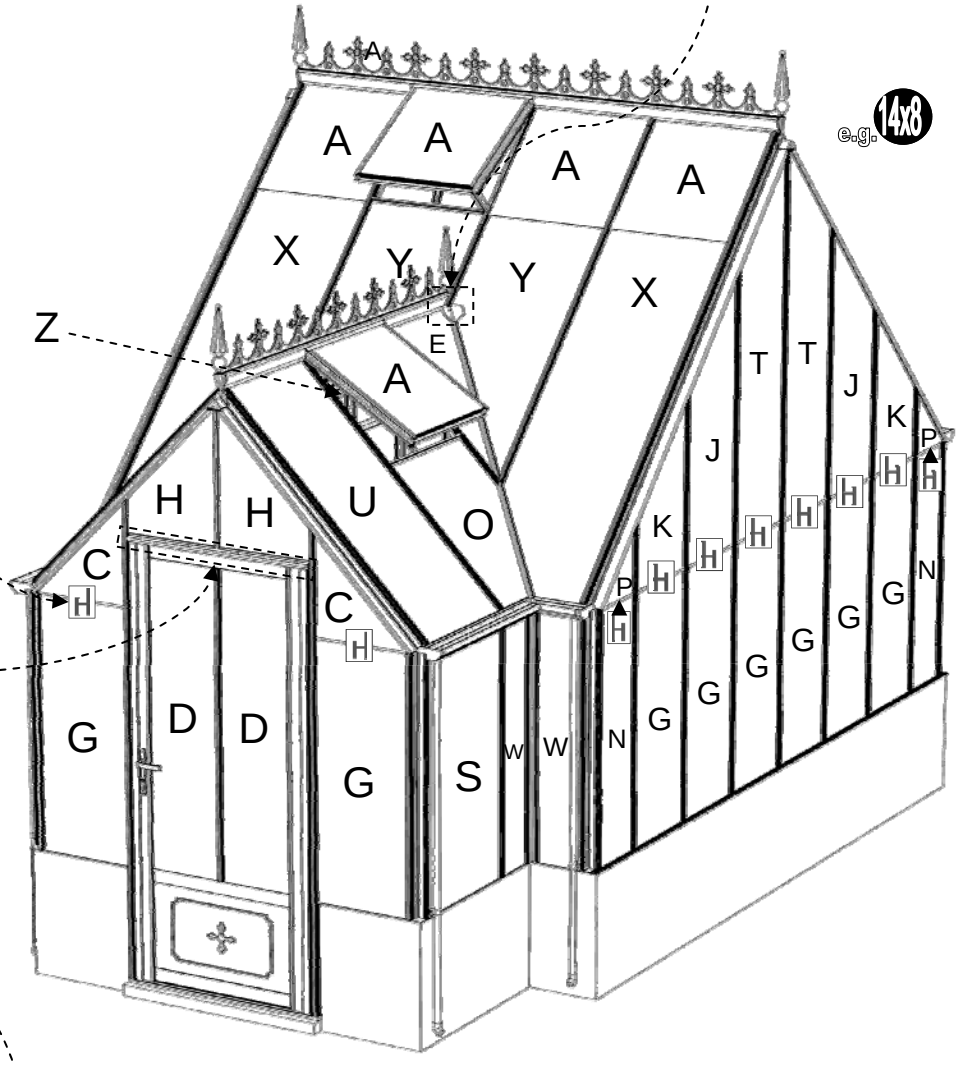
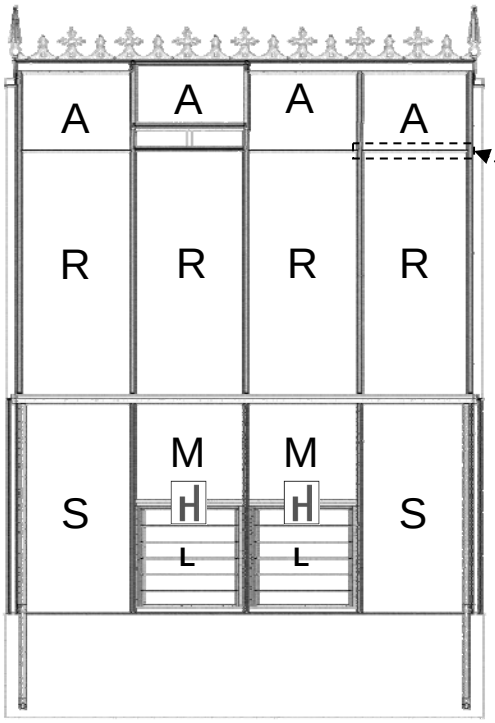
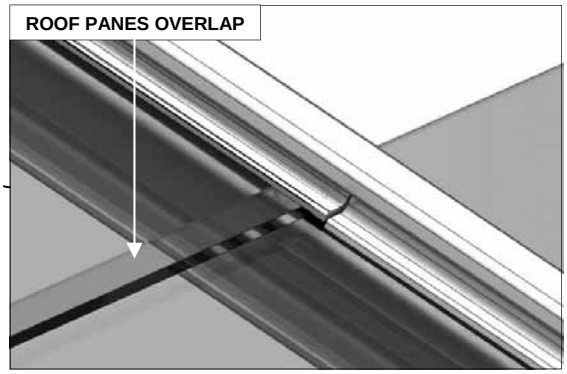
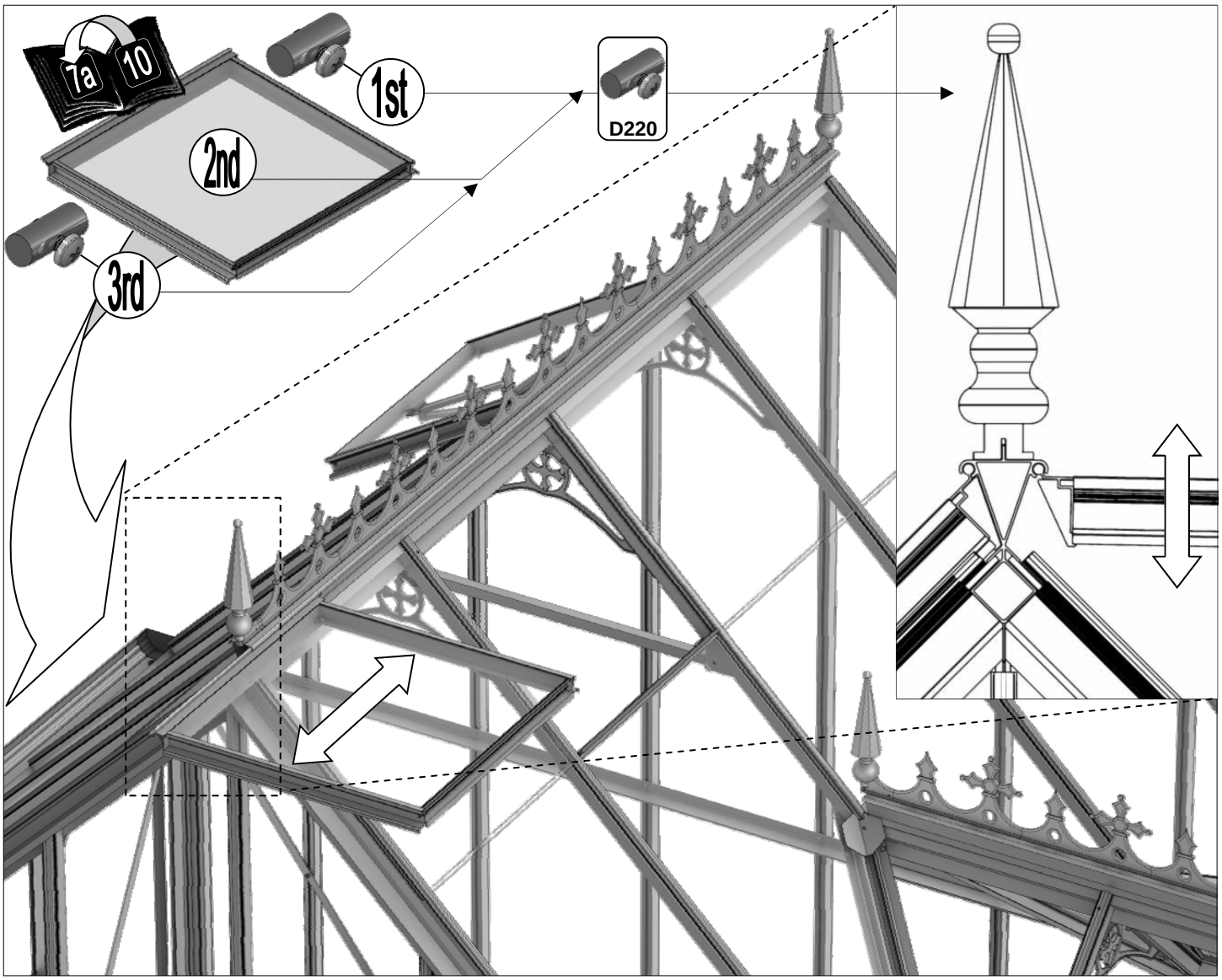


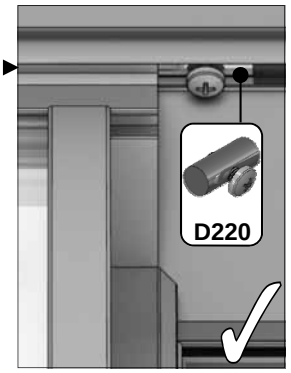
REAR

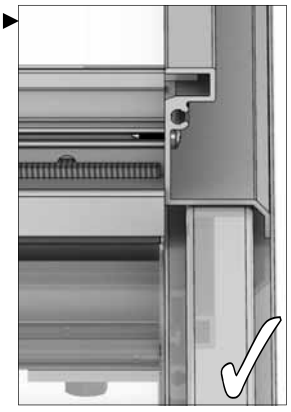


e.g.









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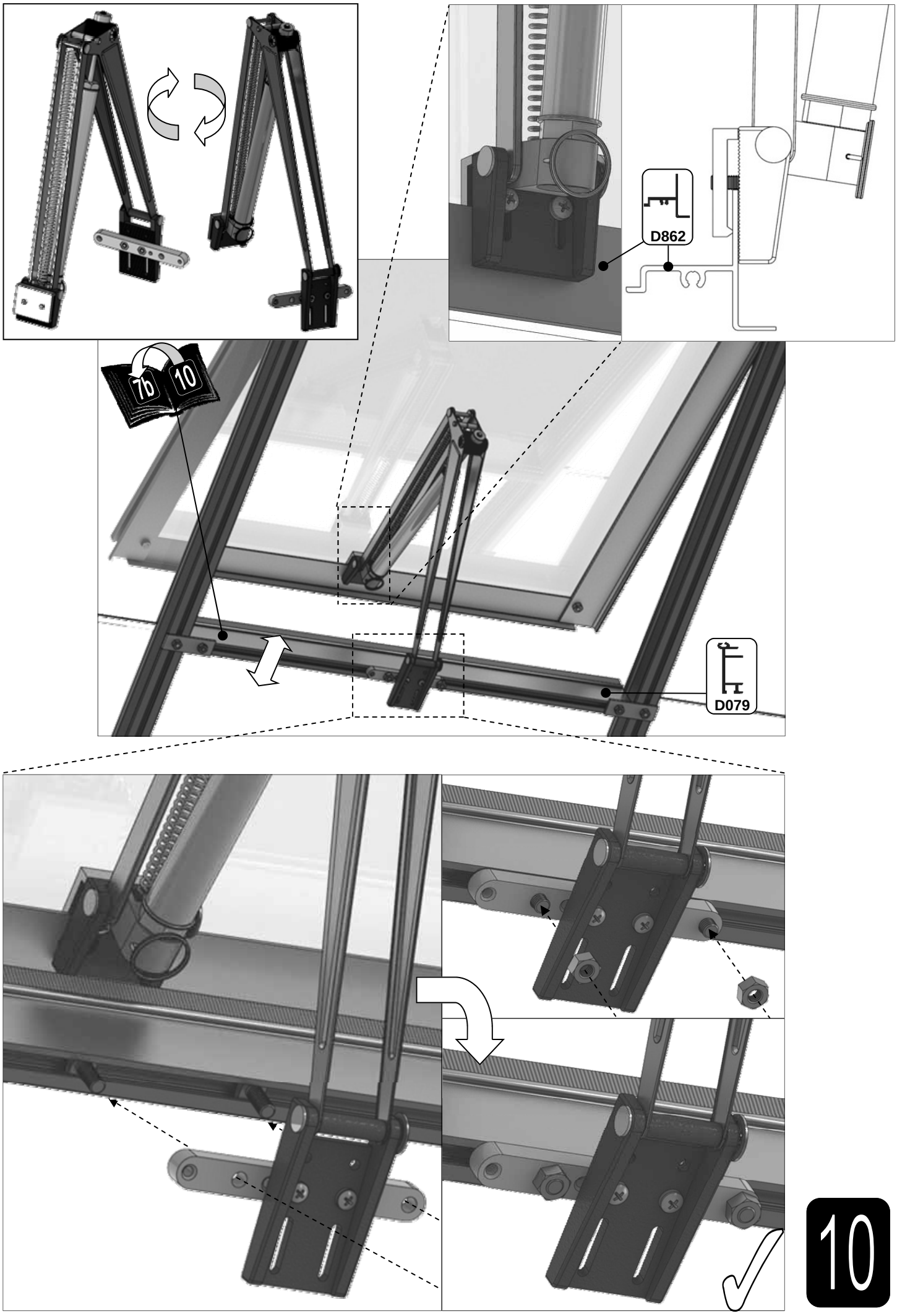

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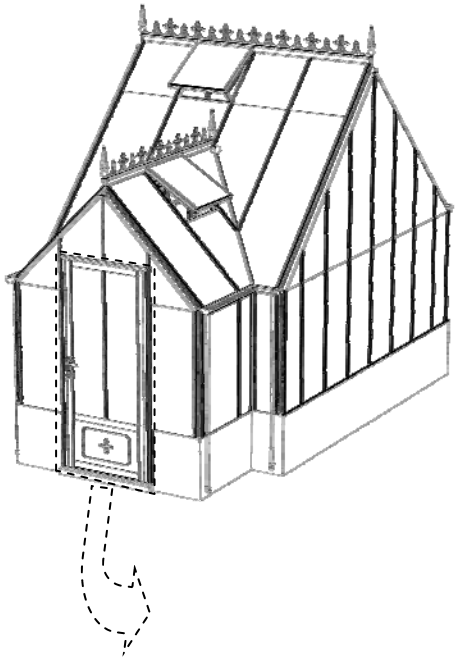
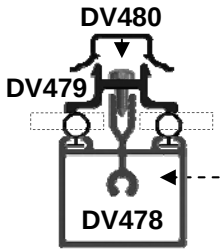
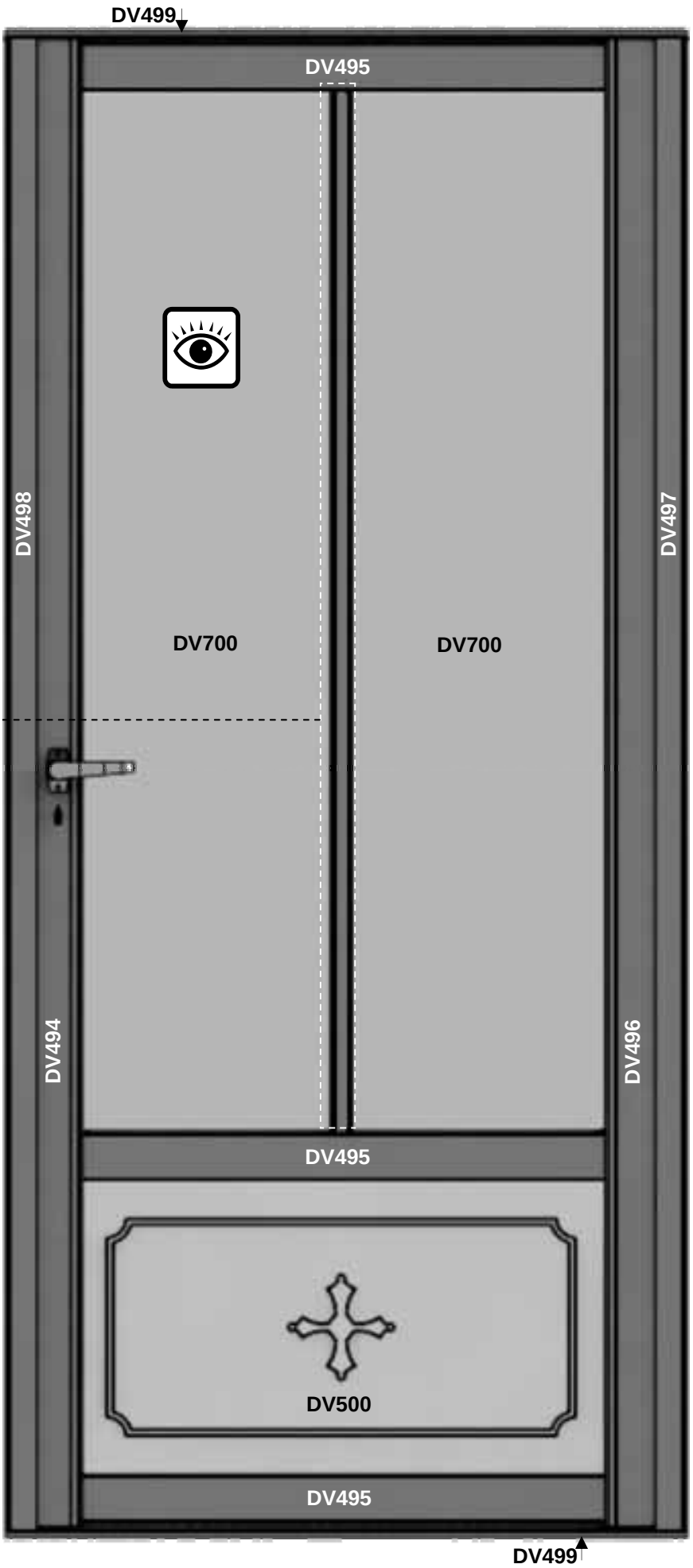
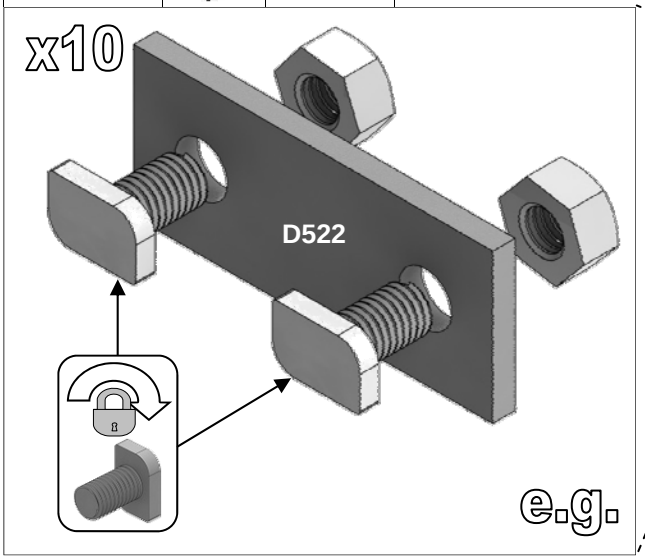


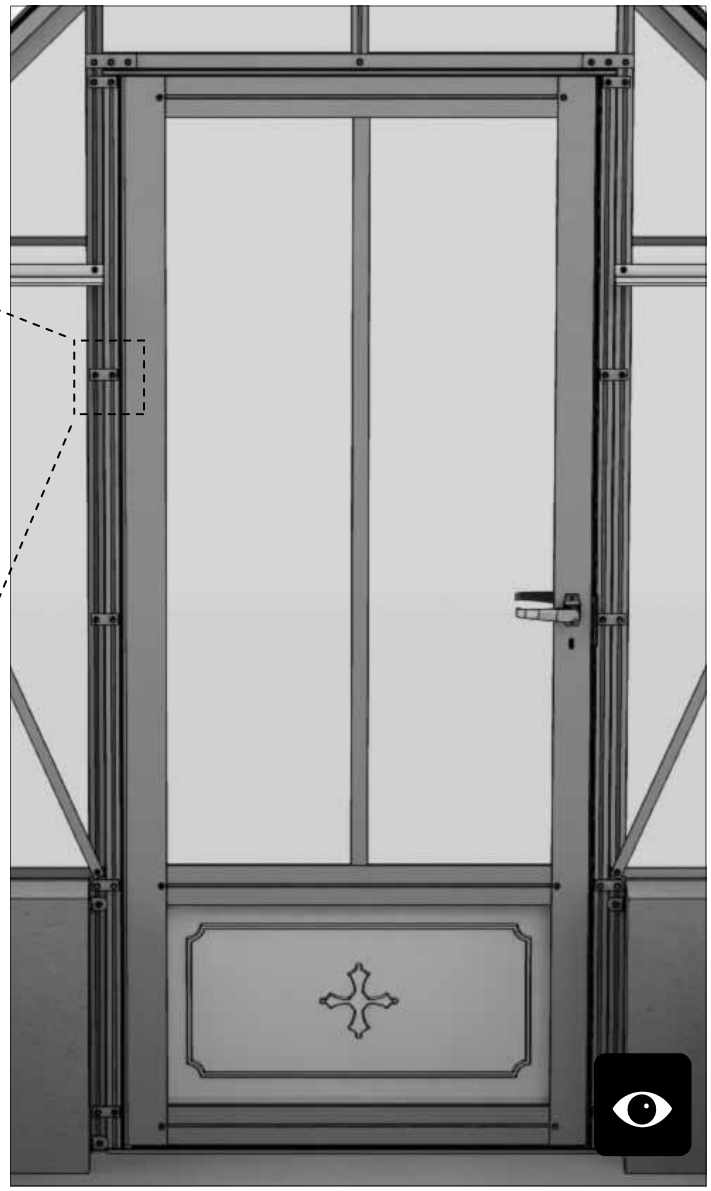

DV480
DV479
DV478

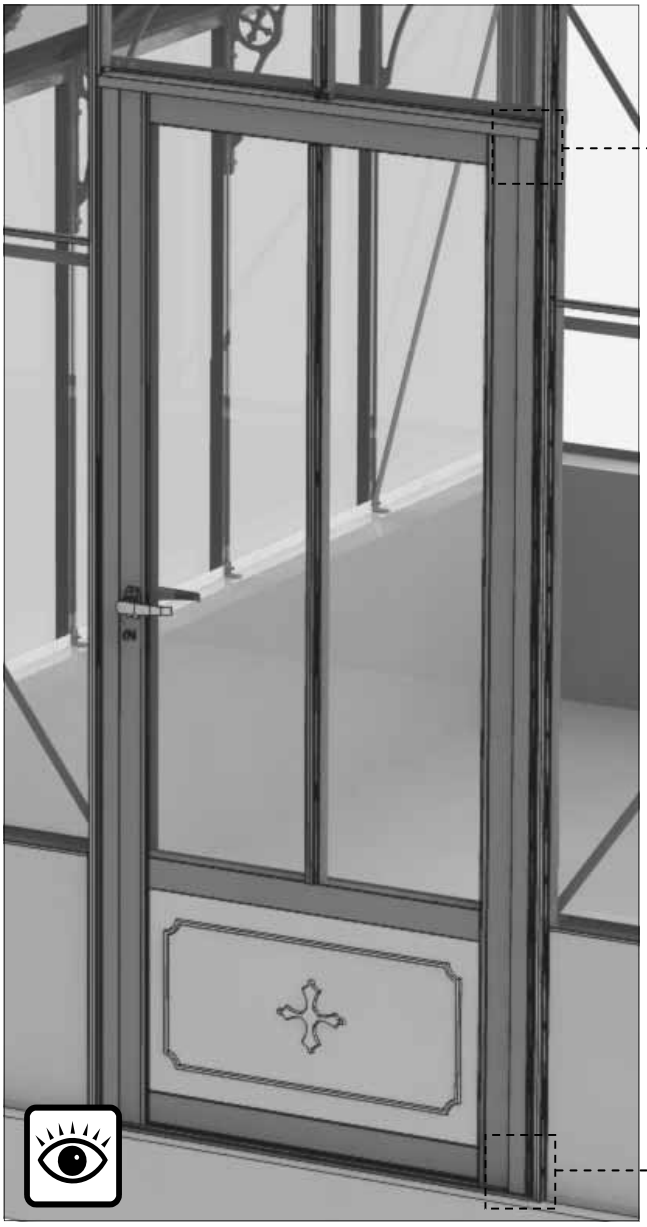

DV499
DV495
DV498
DV497
DV700
DV700
DV494
DV496
DV495
DV500
DV495
DV499

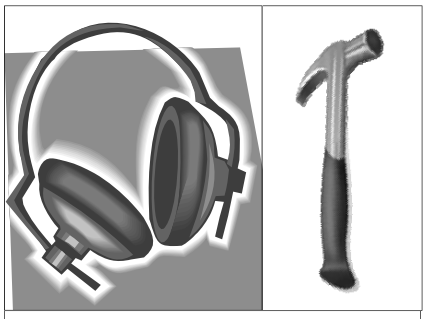
11

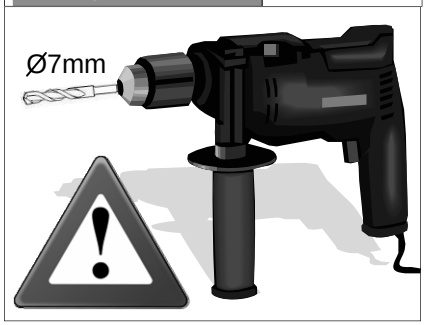
Part No		Quantity
D522		10
SYBOLM6 X11CROP		20
SYNUTM6		20

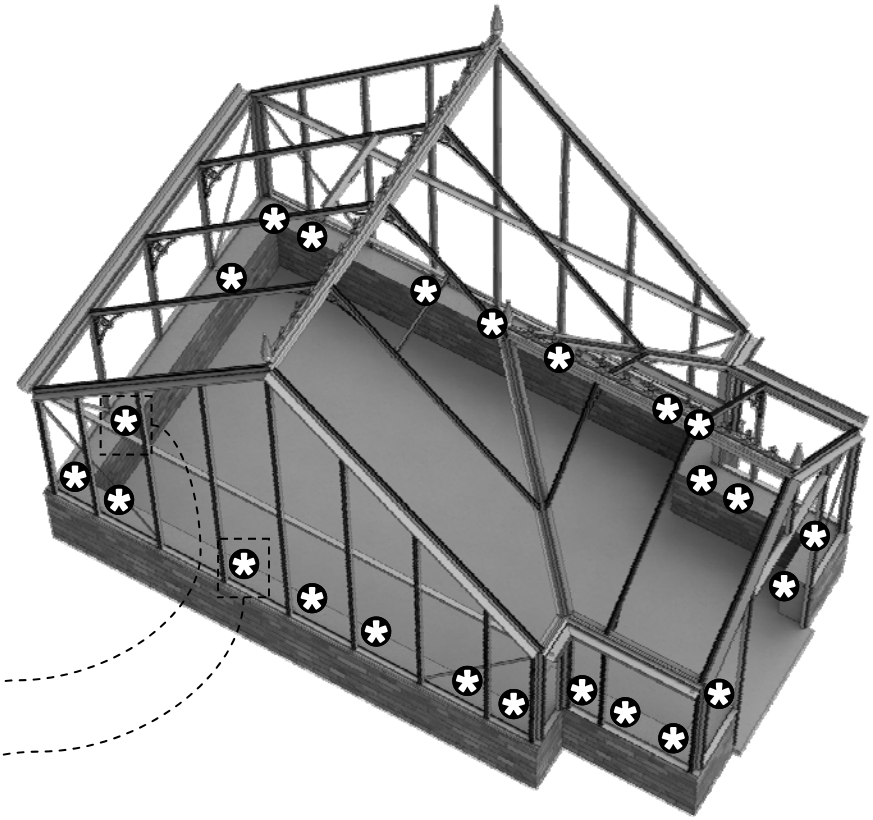




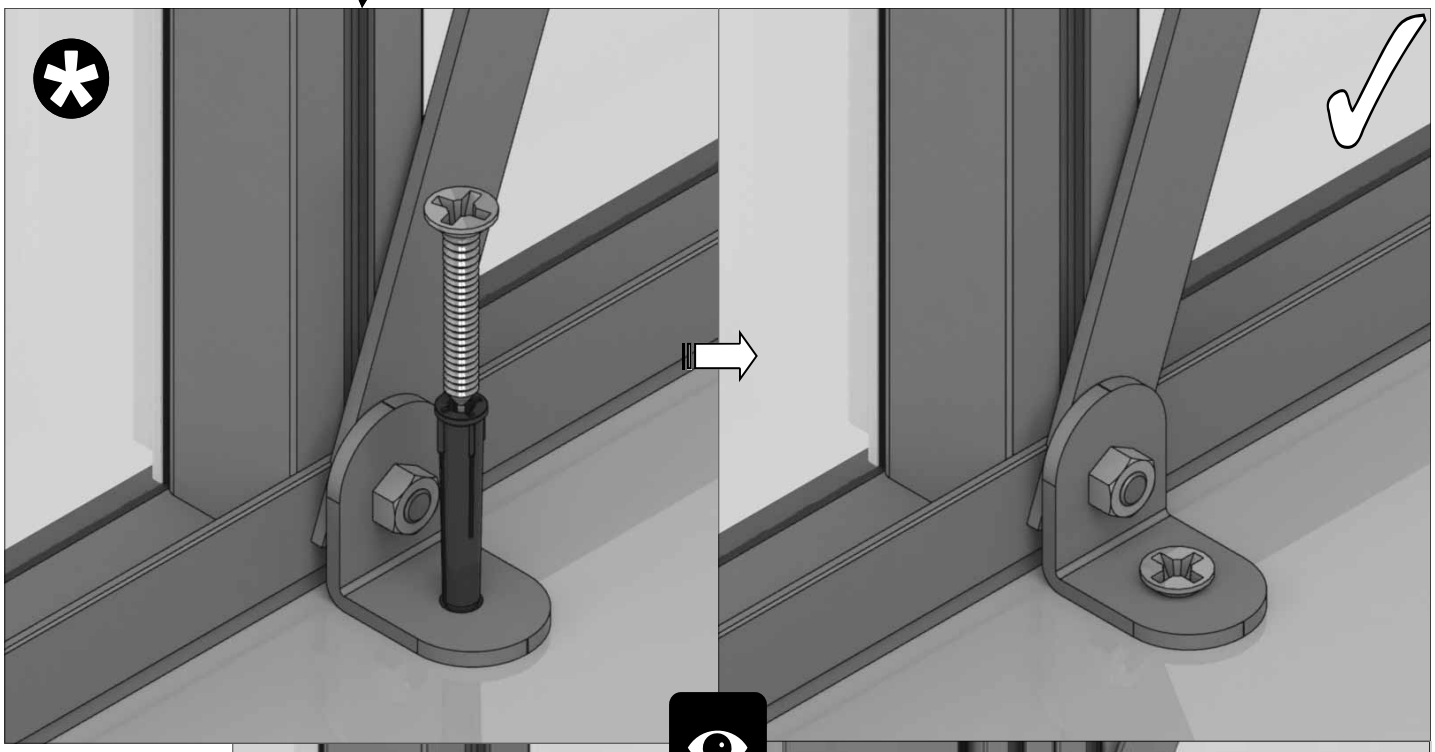








e.g.



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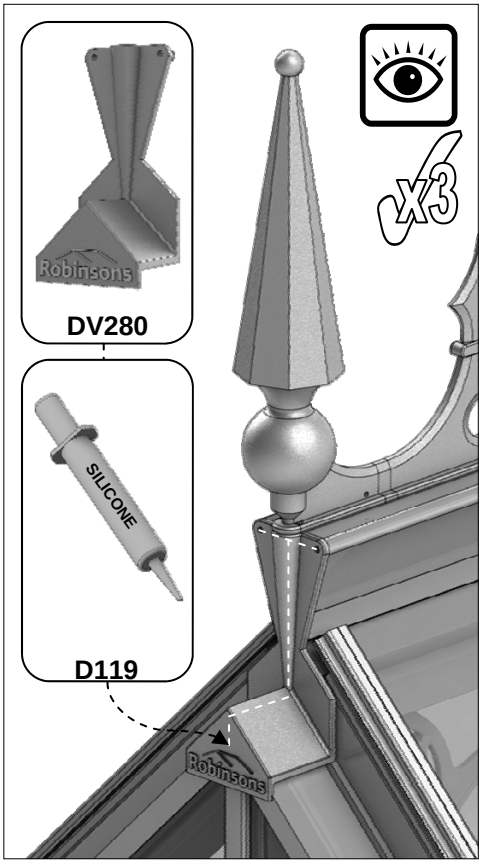
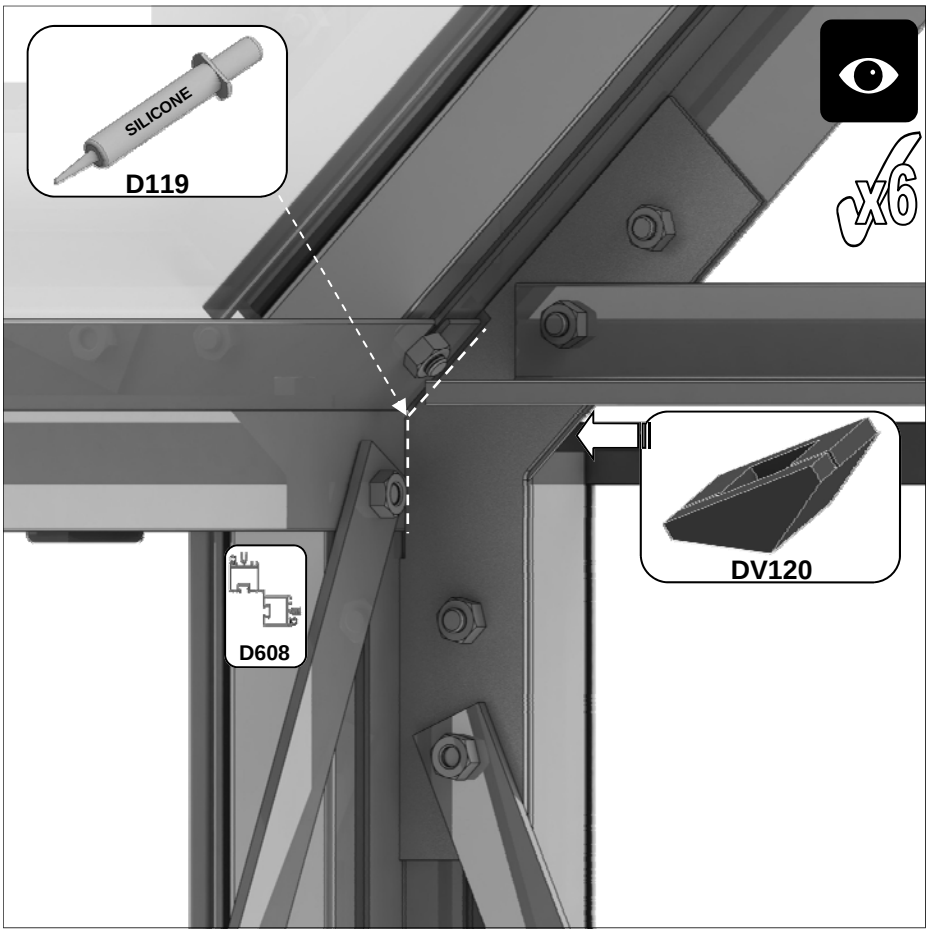
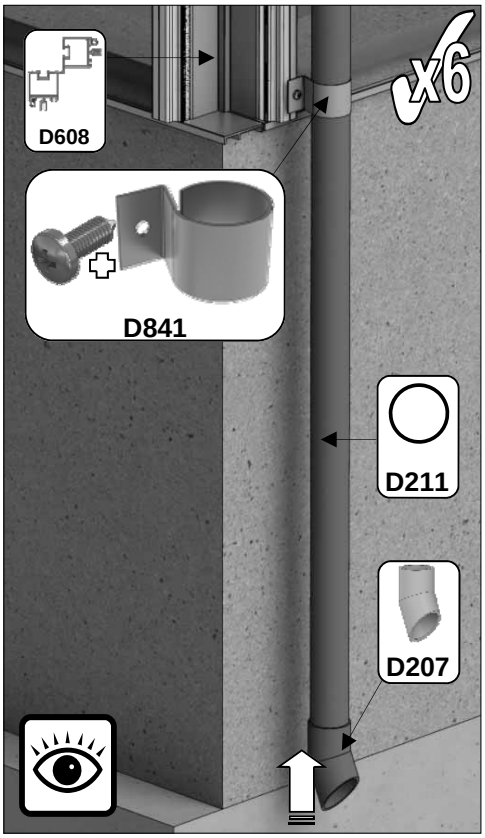
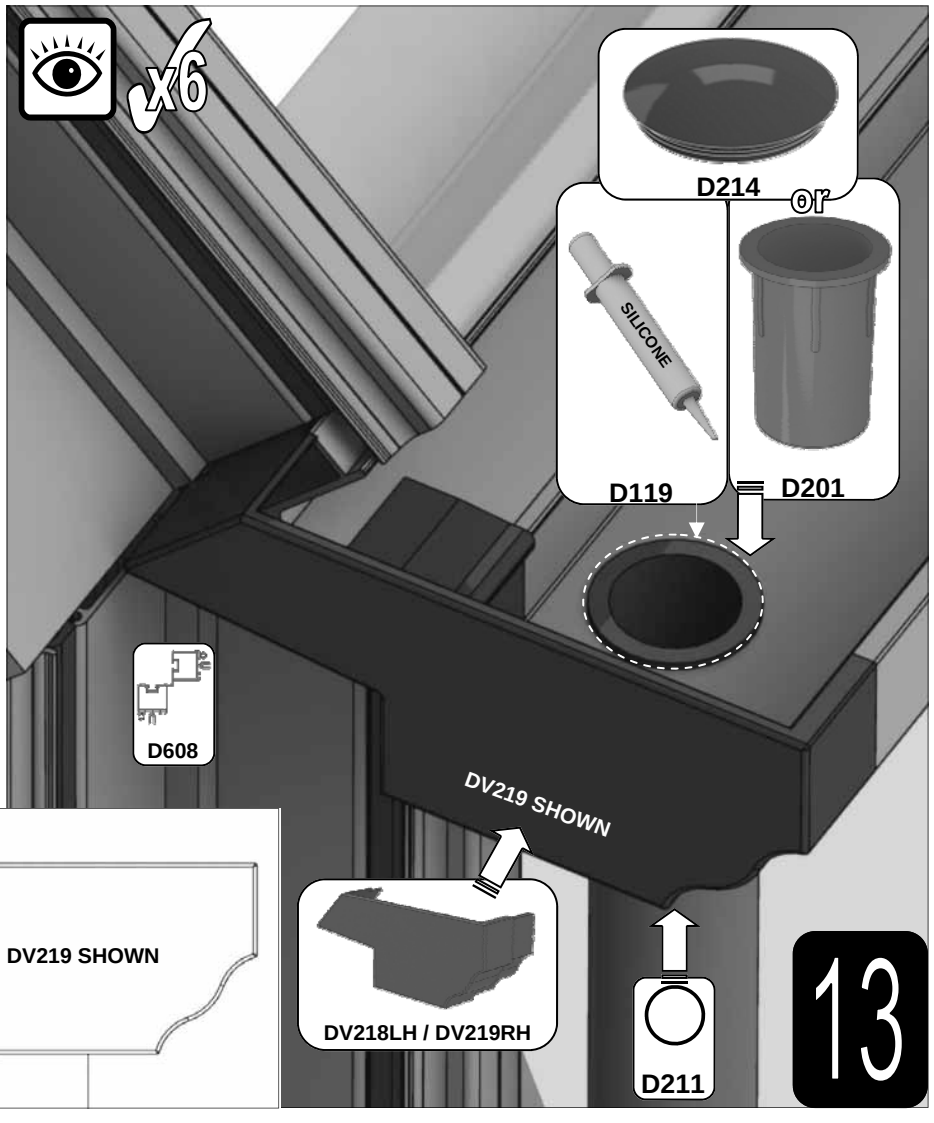
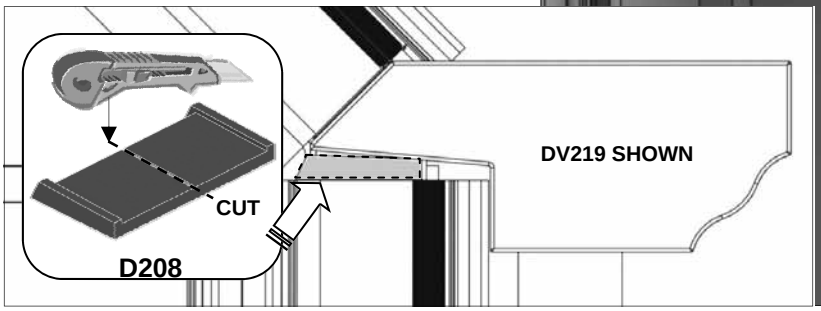

x3
DV280
SILICONE
D119

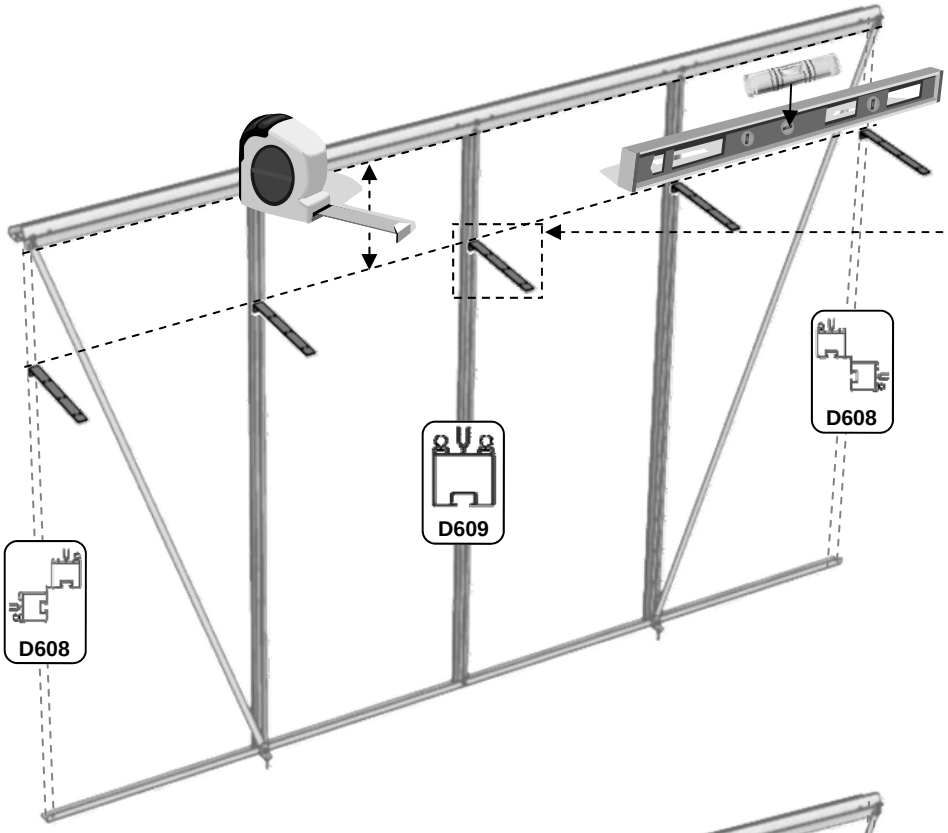

SILICONE
D119
x6
DV120
D608

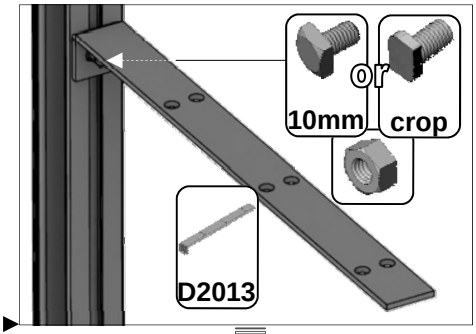

x6
D608
D841
D211
D207

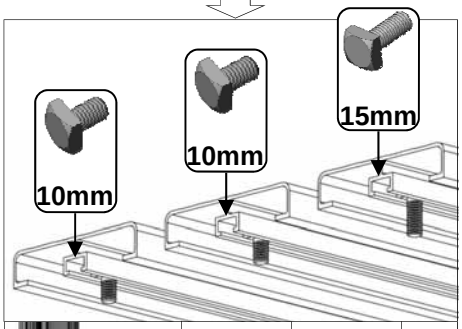

x6
D214
or
SILICONE
D119
D201
D608
DV219 SHOWN
DV218LH / DV219RH
D211
13

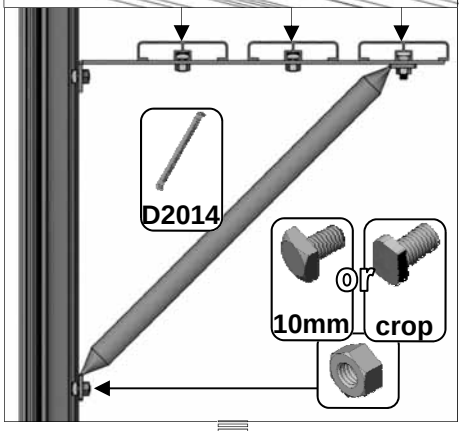

CUT
D208
DV219 SHOWN

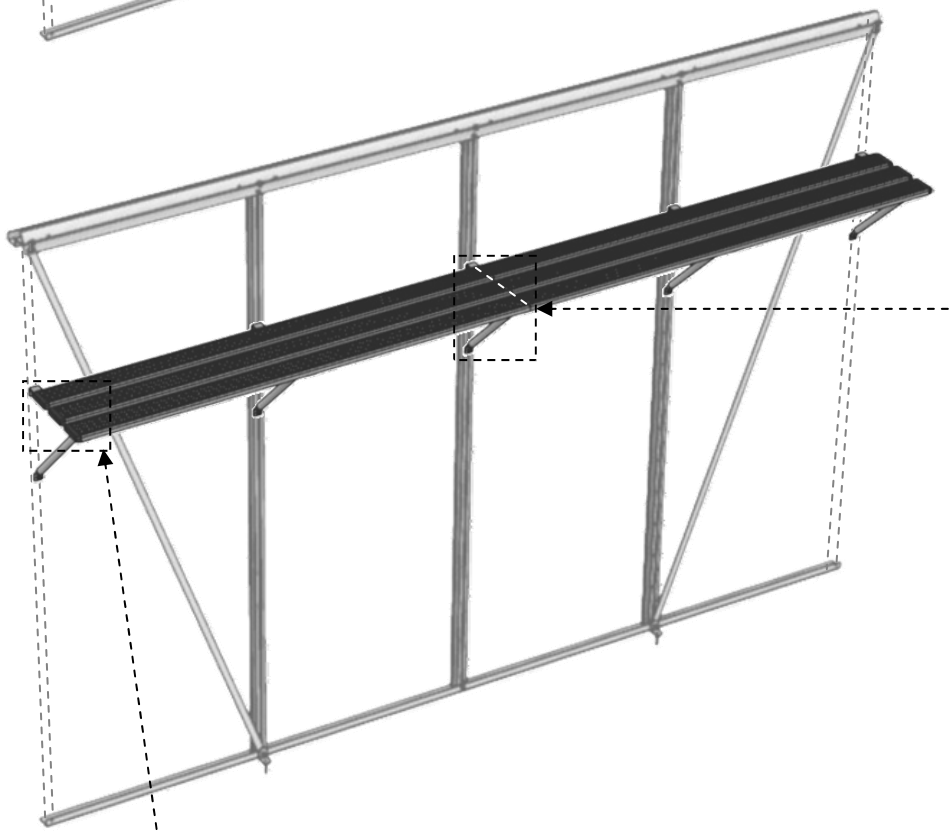
Example: 2x 4' 3 slat shelves 'ST0304' = 8' run

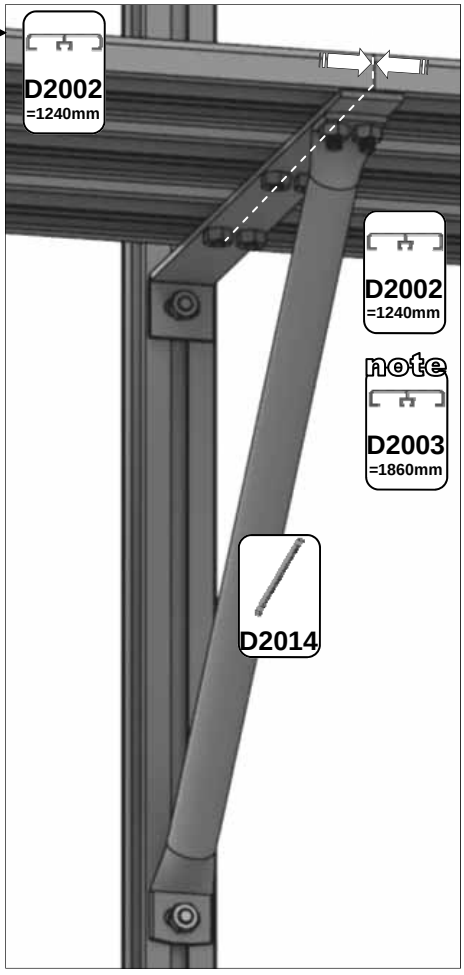


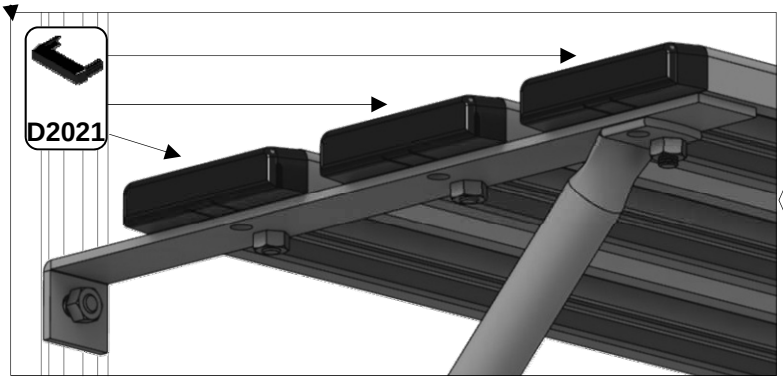












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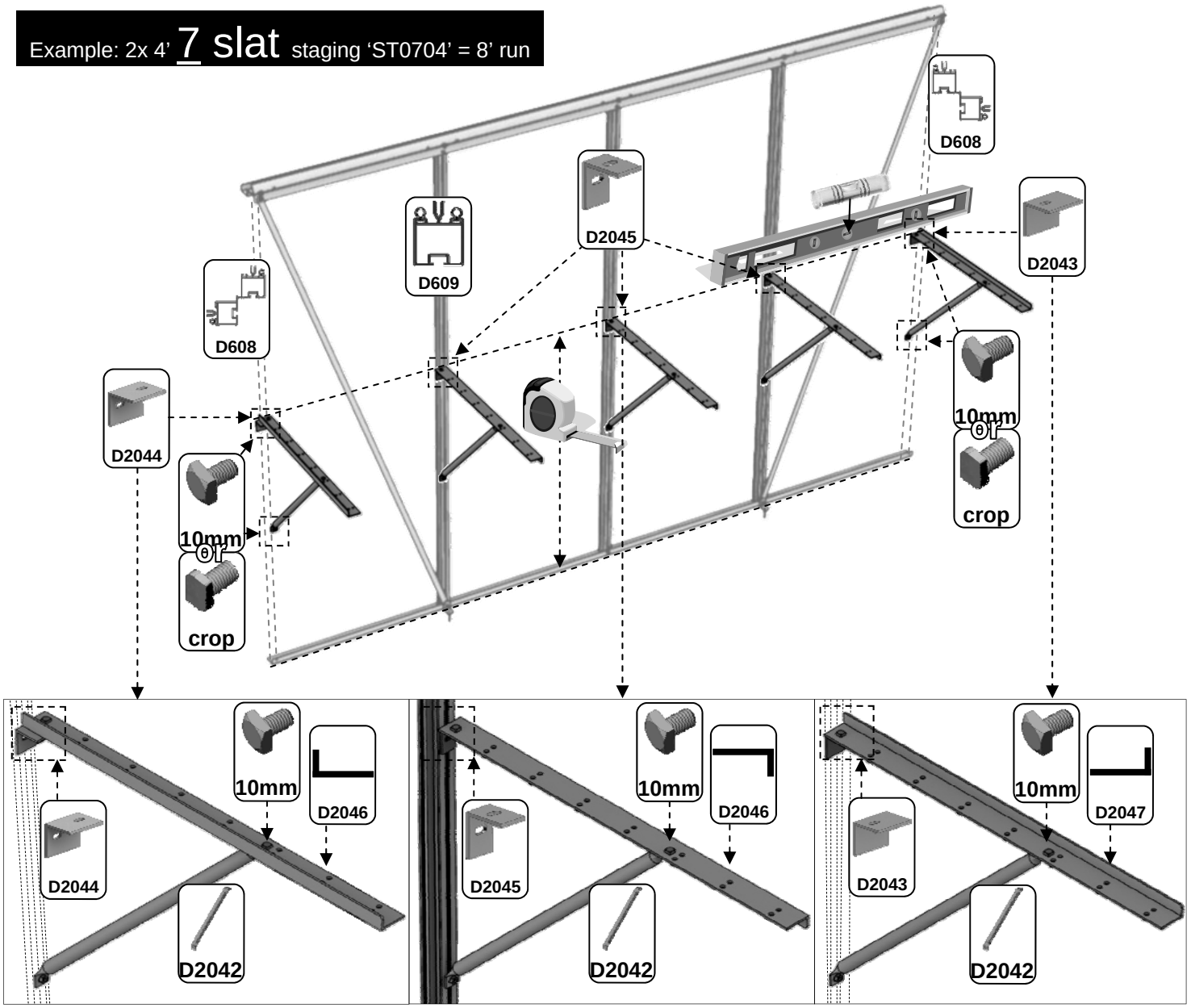
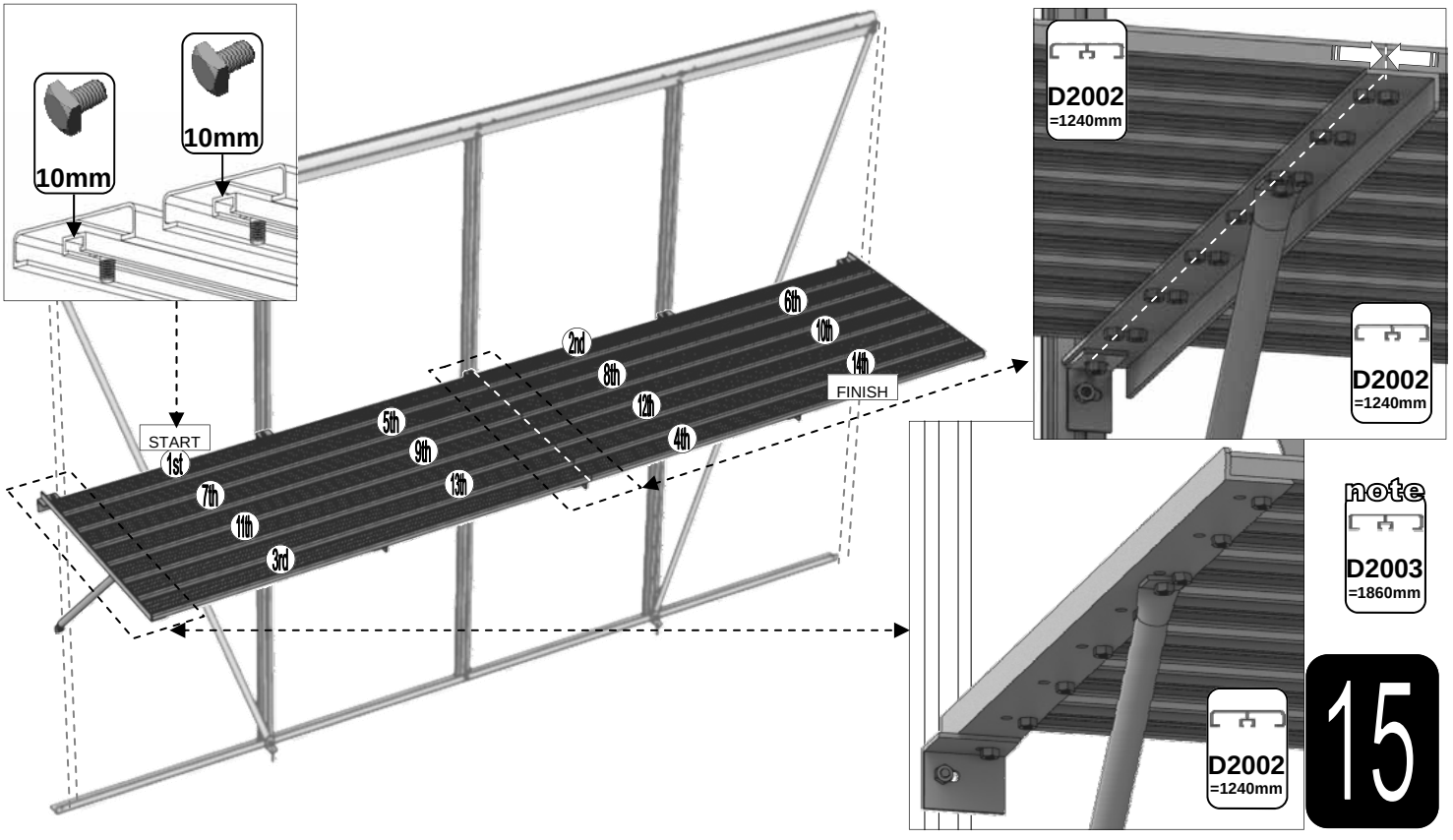
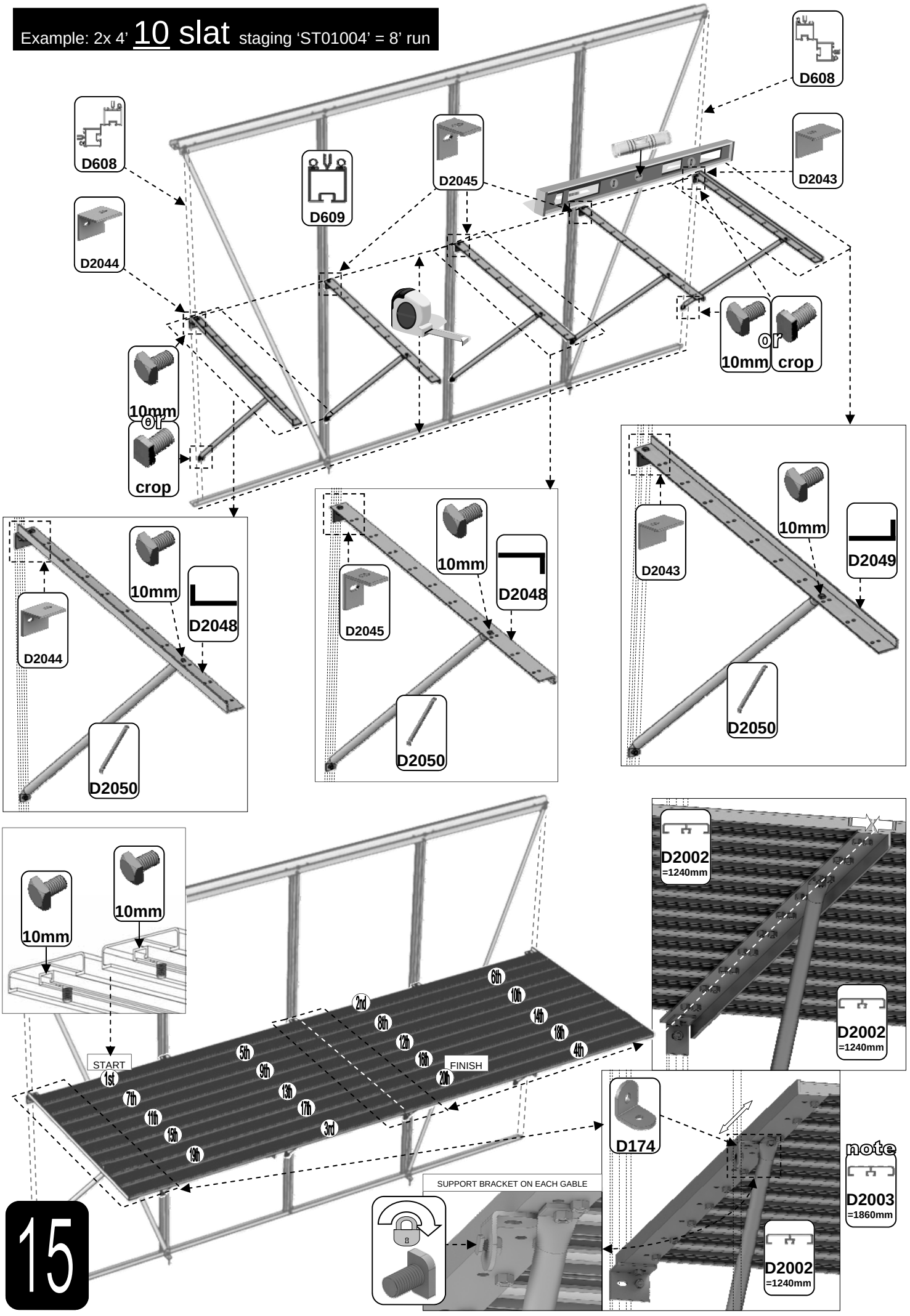
Example: 2x 4' 7 slat staging 'ST0704' = 8' run





Example: 2x 4' 10 slat staging 'ST01004' = 8' run



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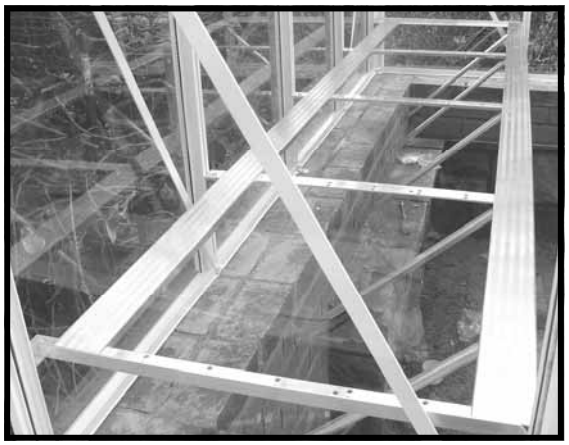
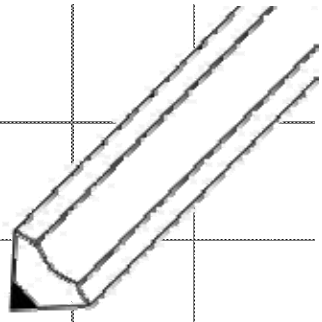
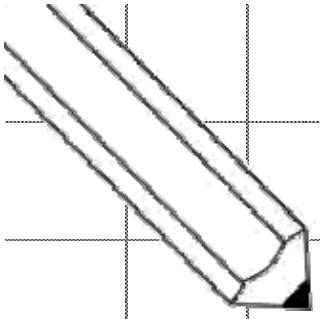
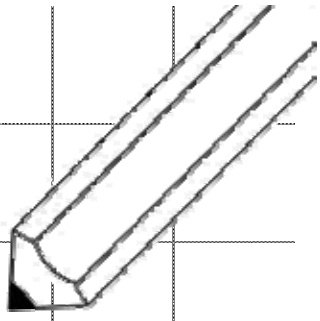
Fixing staging in a dwarf wall model.

To fix the staging diagonal tubular bracings you will have to hammer drill into your brickwork and fix with rawl plugs and screws. You should use a spirit level to make sure each horizontal is accurate and then mark and drill. One of the beauties of Robinsons staging is its adaptability. Because of the rock outcrop on the inside wall of this model the tubular bracings has been attached to the underside of the front staging run with 15mm bolts to give a sharper gradient to the bracings avoiding the rock.









Please be aware that this is a new 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. In addition any photographs of completed buildings would be most appreciated to add to our portfolio.

THIS GREENHOUSE BOX WAS PACKED BY: DATE:_____

_____

www.robinsonsgreenhouses.co.uk

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