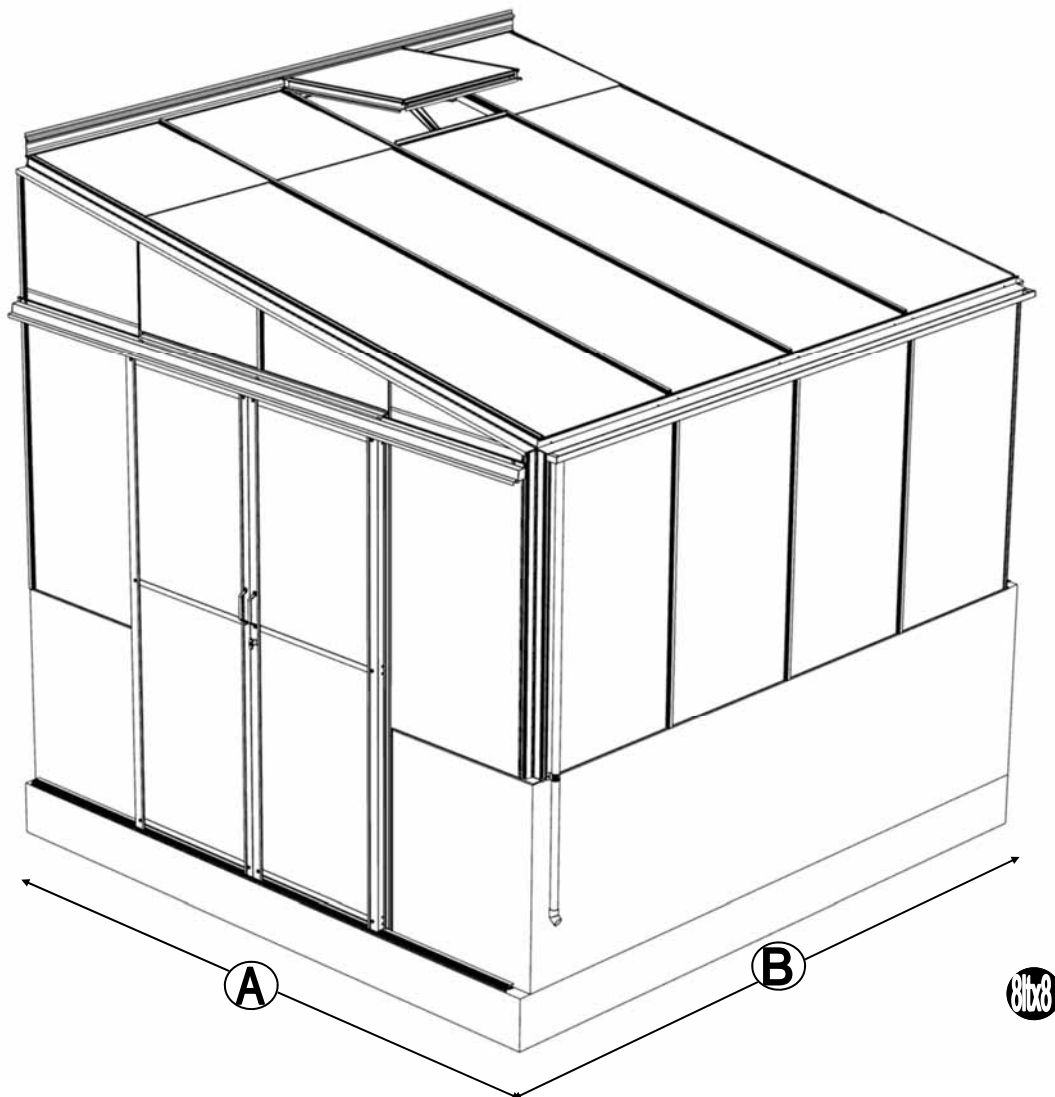




8' DWARF Lean-To Assembly Instructions



NOMINAL SIZE	A (mm)	B (mm)
8lt x 6	2549	1990
8lt x 8		2610
8lt x 10		3230
8lt x 12		3850

NOMINAL SIZE	A (mm)	B (mm)
6ft extension	-	1860



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**-side, **2**-front gable, **3**-rear, **4**-joining the three sides together, **5**-roof, **6**-wall attachment, **7**-vent, **8**-door, **9**-glazing, **10**-vent attachment, **11**-door attachment, **12**-anchoring down, **13**-optional louvre, **14**-optional shelf, **15**-optional staging, **16**-finishing touches, Door/s on side of structure rather than or in addition to the gable/s. 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.

Safety Warning

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

Site Preparation

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

Additional Considerations

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

Guarantee

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

UPDATE: Robinsons plastic / aluminium cover strips -

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

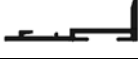
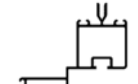
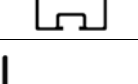


KEY SYMBOL	KEY DESCRIPTION
	EXTERNAL VIEW
	INTERNAL VIEW
	THINK
	THIS SECTION RELATES TO ANOTHER (e.g. 1 to 5)
	CORRECT
	DO <u>NOT</u> FIX DOWN!
	TWIST TO LOCK
	TIGHTEN
	PUSH AND HOLD
	CUT TO LENGTH

SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
B P 1 2 3 4 5 6 7a 7b 8 9 10 11 12 13 14 15 16	PARTS LIST	Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections 1 - 12 shown below. Parts can also be identified by their profile pictures and stated lengths etc..
	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.
	PREPARATION	Tools required. IMPORTANT: Use WD40 or similar in the glazing bar channels and insert the black glazing rubber prior to frame assembly.
	SIDE	Take the side glazing bars 'D609' with the rubber inserted and the diagonal braces 'D604', use 12mm bolts to join them to the gutter and 16mm bolts to the cills (note how the head of the bolt slides into each glazing bar during construction).
	FRONT	Again ensuring that the gable framework is rubbered-up follow the diagrams to assemble each end of the building. Make sure that you have inserted the extra bolts utilised in sections 4, 5 and 11. 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).
	REAR	
	JOINING THE THREE SIDES	Take the side (1) and both gables (2 & 3) and join them together on your base. It is a good idea to tie some ladders to the side to support them if you do not have anyone to hold them for you.
	ROOF	Attach the ridge and then the rubbered-up roof bars ensuring that they are fully butted up to the ridge and down onto the gutter. In order to make fitting the roof purling (D593-596) easier slide one 10mm bolt into each roof bar, they are less fiddly than using the twist in crop heads. Some tubular braces are supplied to add extra strength, they can be fitted now or later with crop head bolts.
	REAR WALL ATTACHMENT	The main body of the frame is complete it can be attached to the wall. Make sure that the wall bars are vertical and the ridge is horizontal then drill and screw the building to the wall. Do not attach the base to the ground until section (12) as your building may not be square.
	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.
	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).
	DOOR/S	Construct the door using the diagrams and then leave to one side ready for attachment in section (11).
	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. You will notice that your roof cappings (D924 / D929) are in one long section however you can cut this into two sections if you wish due to the glass overlap in the roof. This will remove the bulge in the roof capping, however keep the roof cover strips (D928) full lengths for the neatest finish. The glass in the ends has to bevel on the black separator strip, this bevelling action allows the glass to tuck underneath the roof corner 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.
	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). Attachment of autovent/s.
	DOOR ATTACHMENT	Use the bolts inserted in section (2) to attach the upper door track. The lower door runner 'D861' and ramp threshold 'D088' push down and lock together.
	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.
	OPTIONAL LOUVRE	They attach to the building during the glazing process (9) like a piece of glass with a black separator above and below them.
	OPTIONAL SHELIVING	Robinsons integral cantilever staging and shelving attaches to the inside of the greenhouse frame using either square / hex head bolts (insert four into each side glazing bar 'D609' during construction of the sides (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...
	OPTIONAL STAGING	
	FINISHING TOUCHES	Now that the main body of the structure is complete you can add; downpipe fittings, eave bungs.

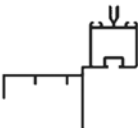
Section Ref	Part No.	Section	Size (mm)	8lt 6	8lt 8	8lt 10	8lt 12
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1	D043		1894	1			
	D021		2514		1		
	D022		3134			1	
	D023		3754				1
	D975		1897	1			
	D974		2517		1		
	D979		3137			1	
	D978		3757				1
	D604		1316	2			
	D609		1160	2	3	4	5
RUBBER			1000 (1m)	5	7	10	12
D174			N/A	2	2	4	4

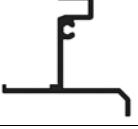
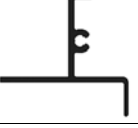
2 +	D037		2510	1			
	D600		1270	1			
	D605(R)		690	1?			
	D606(L)		690				
	D632L		650	1?			
	D632R		650				
	D604		1316	2			
	D608		1160	2			
	D955		2037	1			
	D957		2257	1			
	D985		1487	1			
	D992		1267	1			
	D993		1377	1			
	D997		1590	2			
	D113		2510	1			

to lean DWARF 8'

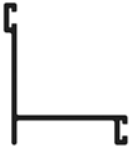
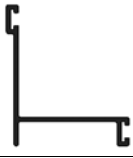
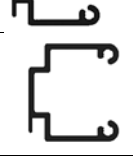
Section Ref	Part No.	Section	Size (mm)	8lt 6	8lt 8	8lt 10	8lt 12
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2 +	D925		2545	2			
	RUBBER		1000 (1m)	34			
	D174		N/A	9			

5	D976		1897	1			
	D973		2517		1		
	D981		3137			1	
	D977		3757				1
	D593		1897	1			
	D594		2517		1		
	D595		3137			1	
	D596		3757				1
	D927		2545	2	3	4	5
	RUBBER		1000 (1m)	11	16	21	26

7	D866		639	1	1	2	2
	D863L		613	1	1	2	2
	D863R		613	1	1	2	2
	D862		593	1	1	2	2
	D079 PLUS FLUFF		590	1	1	2	2
	D114		N/A	2	2	4	4
	D220 PLUS FS6060 SCREW		N/A	2	2	4	4
	D205		N/A	2	2	4	4

Section Ref	Part No.	Section	Size (mm)	8lt 6	8lt 8	8lt 10	8lt 12
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8	D090 + D347 lock = D301		1824	1			
	D092 + D156 strike = D303		1824	1			
	D093		1824	1			
	D094		1824	1			
	D096 + D217 wheel = D307		611	2			
	D095		611	2			
	D097		611	2			
	D232		905	4			
	D233		797	4			
	P053		N/A	2			
	D225		610	2			
	D840B		4000	1			

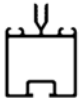
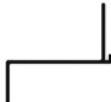
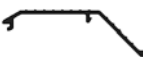
MAIN FRAME QUANTITIES VENTS / DOORS etc SEPERATE		FS6505 HEX 12mm	19	22	25	28
		FS6506 HEX 16mm	38	39	40	41
		FS6504 M6	57	61	65	69

Section Ref	Part No.	Section	Size (mm)	8lt 6	8lt 8	8lt 10	8lt 12
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9	1	D618	1144	2	3	4	5
	2	D819	227	1			
	2	D821	366	1			
	3	D887	1480	1			
	5	D929	2553	2	3	4	5
	2	D969	140	1			
	3	D987	1370	1			
	3	D991	1260	1			
	2/3	D999	1590	2			

2/3	D610		1160	2			
1	D620		1144	2			
2	D814		1883	2			
5	D924		2553	2			

2/3	D614	 OR 	1162	2			
1	D619		1144	4	5	6	7
2	D831		368	1			
2	D836		1883	2			
2	D846		229	1			
5	D928		2553	4	5	6	7
2	D970		140	1			
3	D988		1370	1			
3	D989		1480	1			
3	D990		1260	1			
2/3	D998		1590	2			

11	D930		246	1			
	D865		1210	1			
	D861		2450	1			
	D088		1207	1			
	D086		2510	1			
	D085		2510	1			
	D153		198	2			
	D163		90	2			
	D150		N/A	1			
	D154		N/A	2			

8' DWARF lean to

GUIDANCE NOTE FOR ROBINSONS DWARF WALL GREENHOUSES.
FOOTINGS

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 DIMENSIONS PROVIDED AND IS SQUARE, LEVEL AND UPRIGHT, THE DIAGONAL MEASUREMENTS SHOULD BE EQUAL.

WALLS CAN BE EITHER DOUBLE OR SINGLE 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.

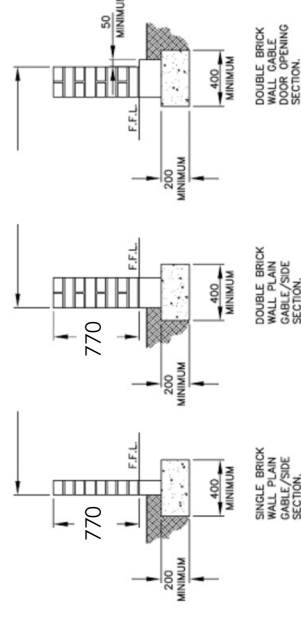
THE OPENING FOR THE DOORWAY AND THE HEIGHT TO THE TOP OF THE WALL FROM THE THRESHOLD LEVEL REQUIRE THE HIGHEST ACCURACY AND ARE MOST IMPORTANT SO THAT THE DOOR FITS THE APERTURE CORRECTLY.

IF SINGLE SKIN WALLS ARE USED THEN PIERS SHOULD BE FORMED AT THE DOOR OPENING.

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

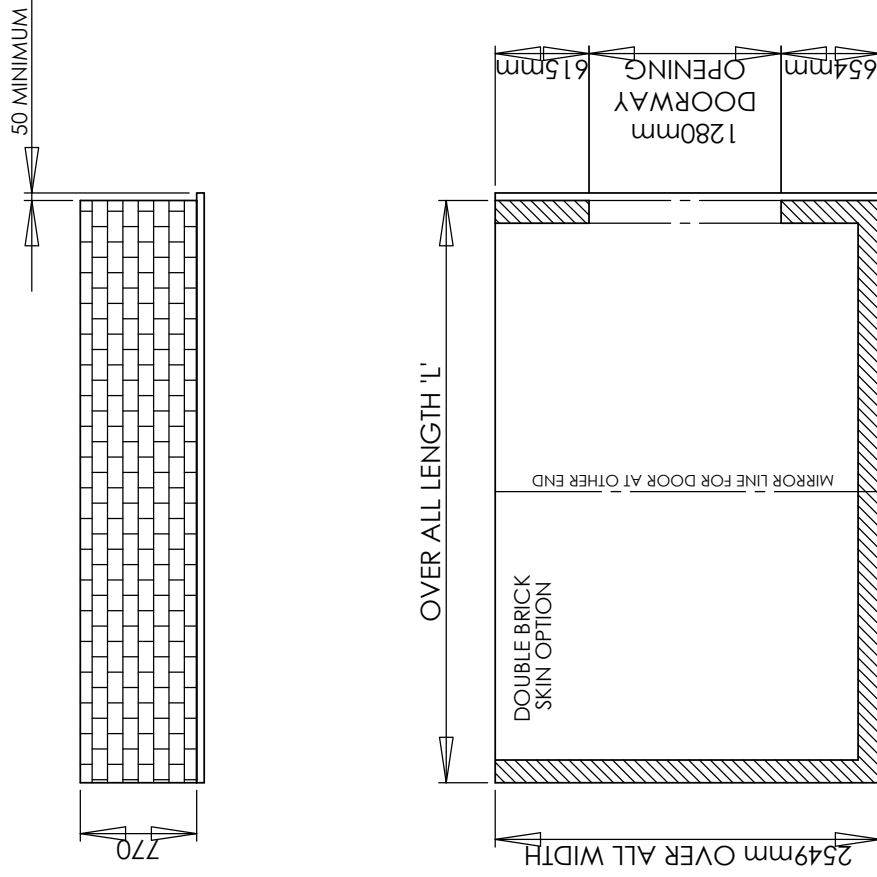


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TITLE:

8LT DWARF WALL PLAN



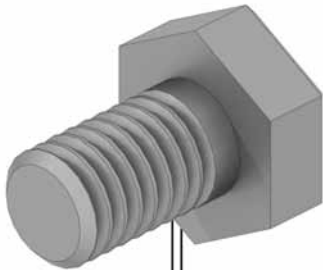
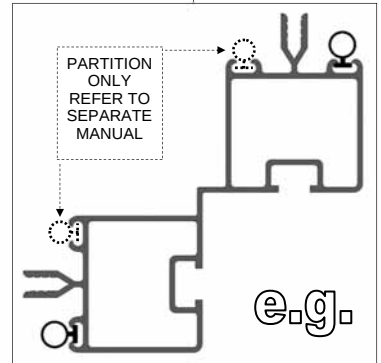
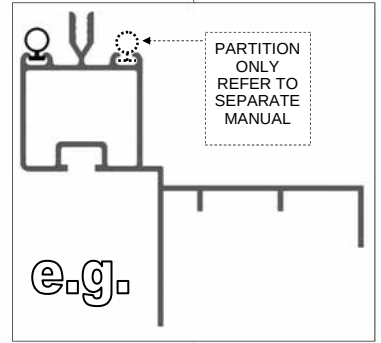
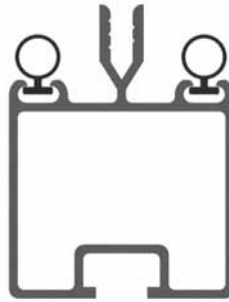
OVER ALL LENGTH 'L' = BASIC GREENHOUSE LENGTH + EXTENSION IF REQUIRED			
BASIC GREENHOUSE	LENGTH	GREENHOUSE EXTENSION	LENGTH
6ft LONG	1990mm	6ft EXT LONG	1860mm
8ft LONG	2610mm		
10ft LONG	3230mm		
12ft LONG	3850mm		



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.



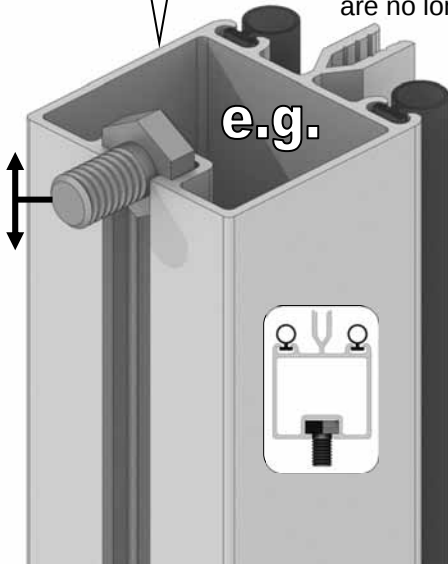
e.g.



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

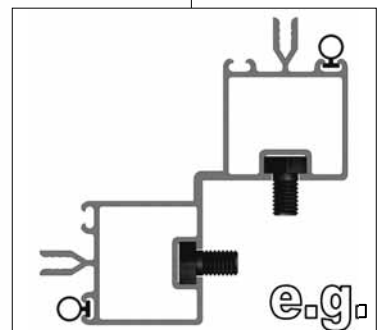
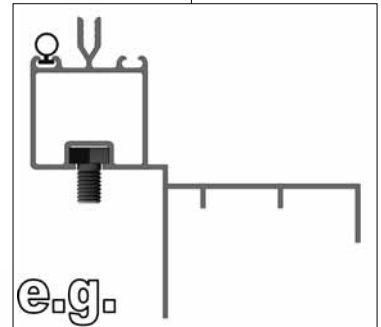
Twist in (rectangular) crop headed bolts are also used towards the end of construction to attach components to the frame retrospectively when the glazing bar slots are no longer exposed at the ends.

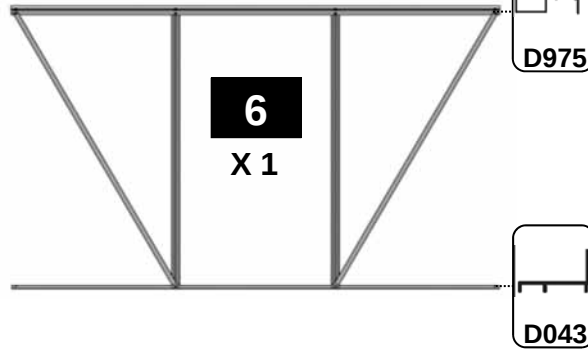
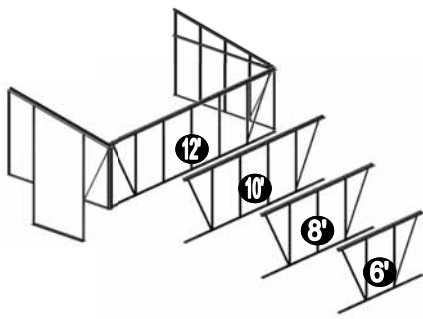
e.g.



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

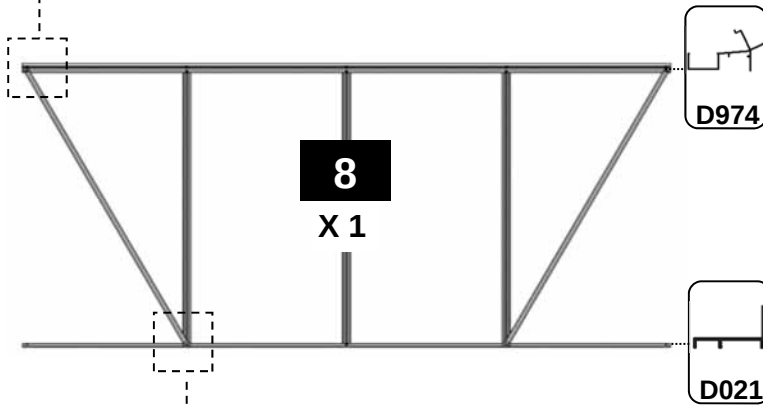
	ORIGINAL SQUARE HEAD		NEW HEX HEAD
10mm		12mm	
15mm		16mm	





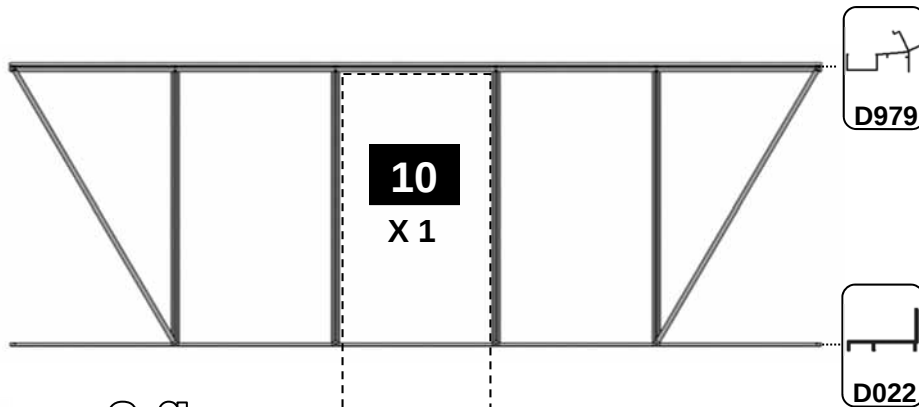
6 X 1 DWARF		
Part No	mm	Quantity
D975	1897	1
D043	1894	1
D609	1160	2
D604	1316	2
D174		2
M6-12mm		2
M6-16mm		4
M6-NUT		6
Rubber	1000	5

e.g. ①

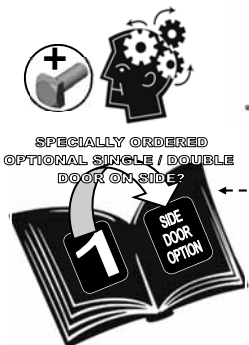


8 X 1 DWARF		
Part No	mm	Quantity
D974	2517	1
D021	2514	1
D609	1160	3
D604	1316	2
D174		2
M6-12mm		3
M6-16mm		5
M6-NUT		8
Rubber	1000	7

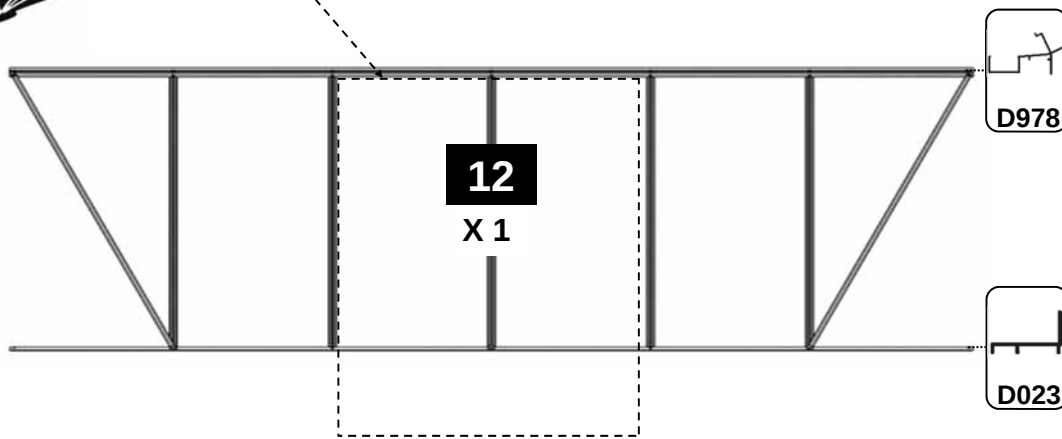
e.g. ②



10 X 1 DWARF		
Part No	mm	Quantity
D979	3137	1
D022	3134	1
D609	1160	4
D604	1316	2
D174		4
M6-12mm		4
M6-16mm		6
M6-NUT		10
Rubber	1000	10

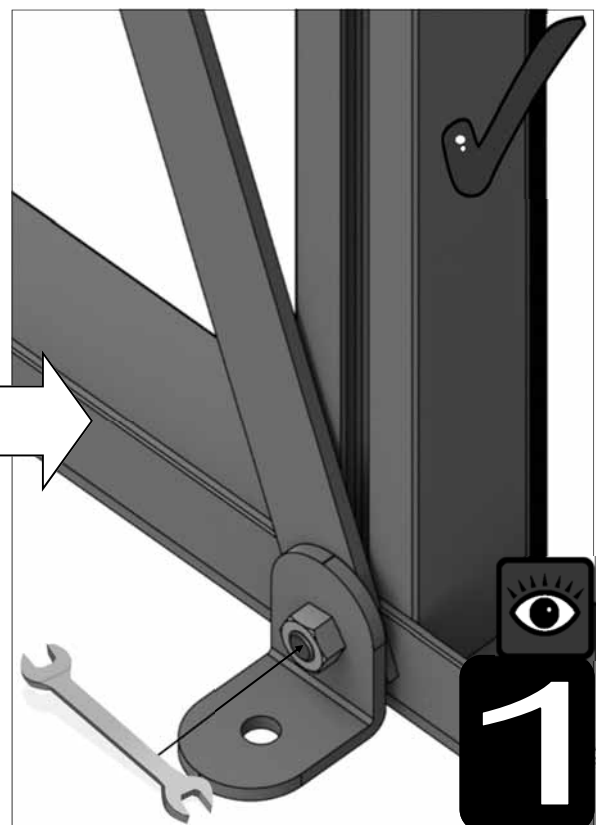
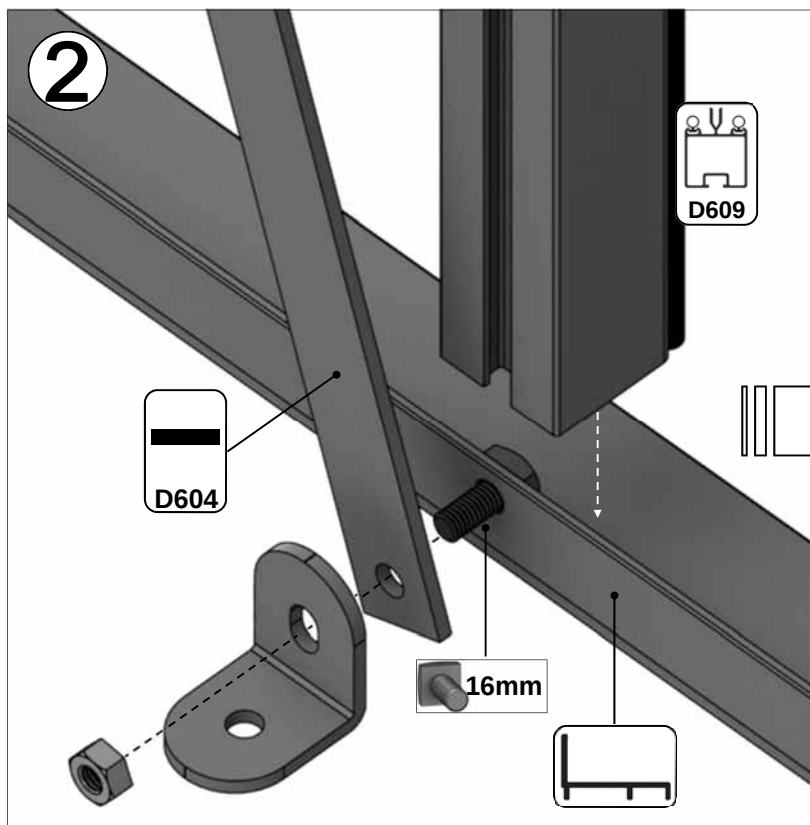
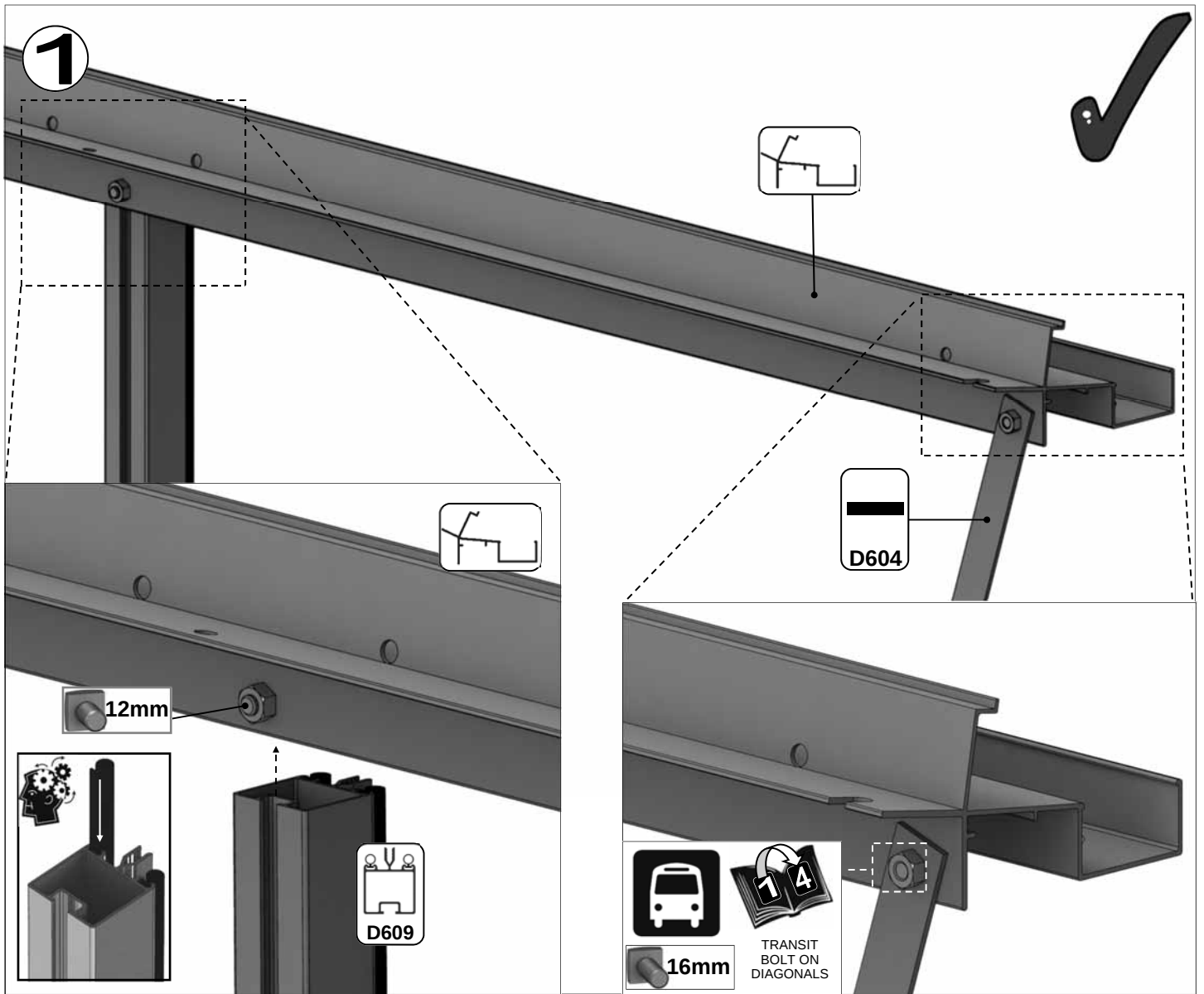


e.g.

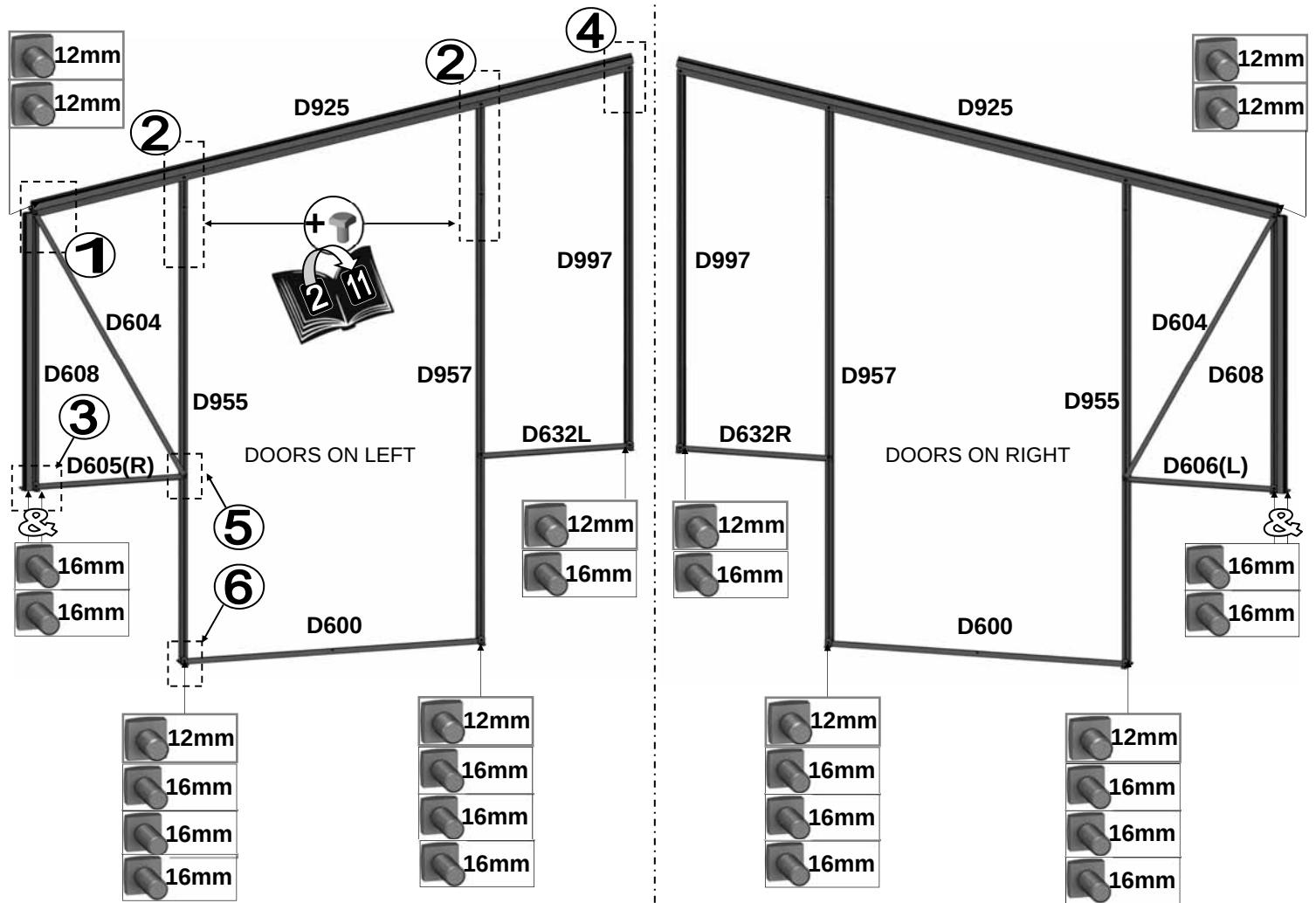


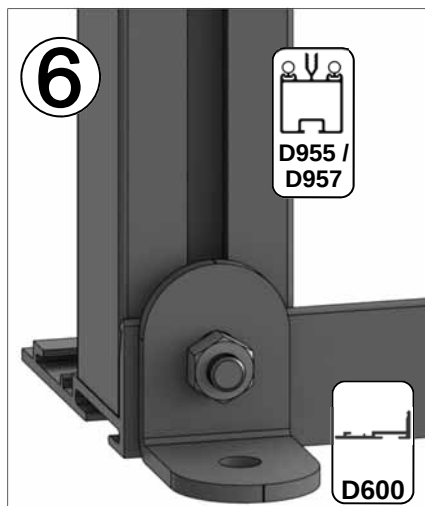
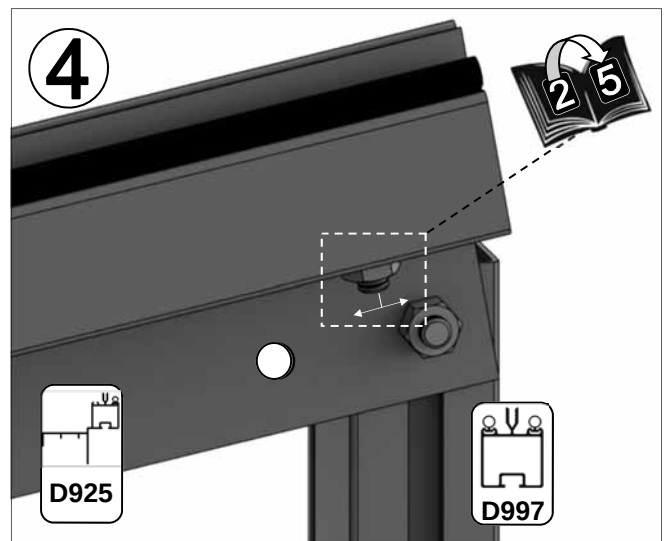
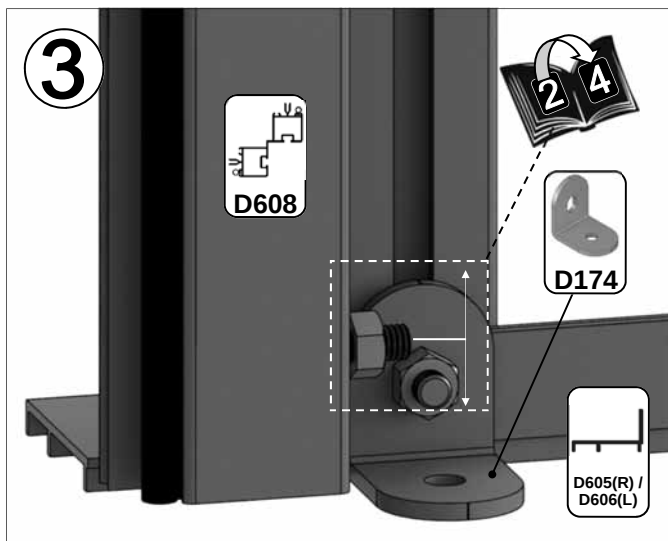
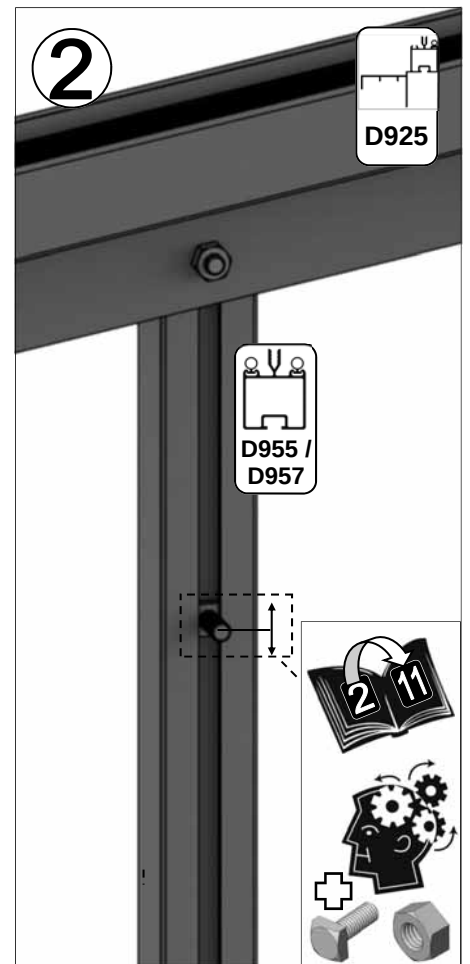
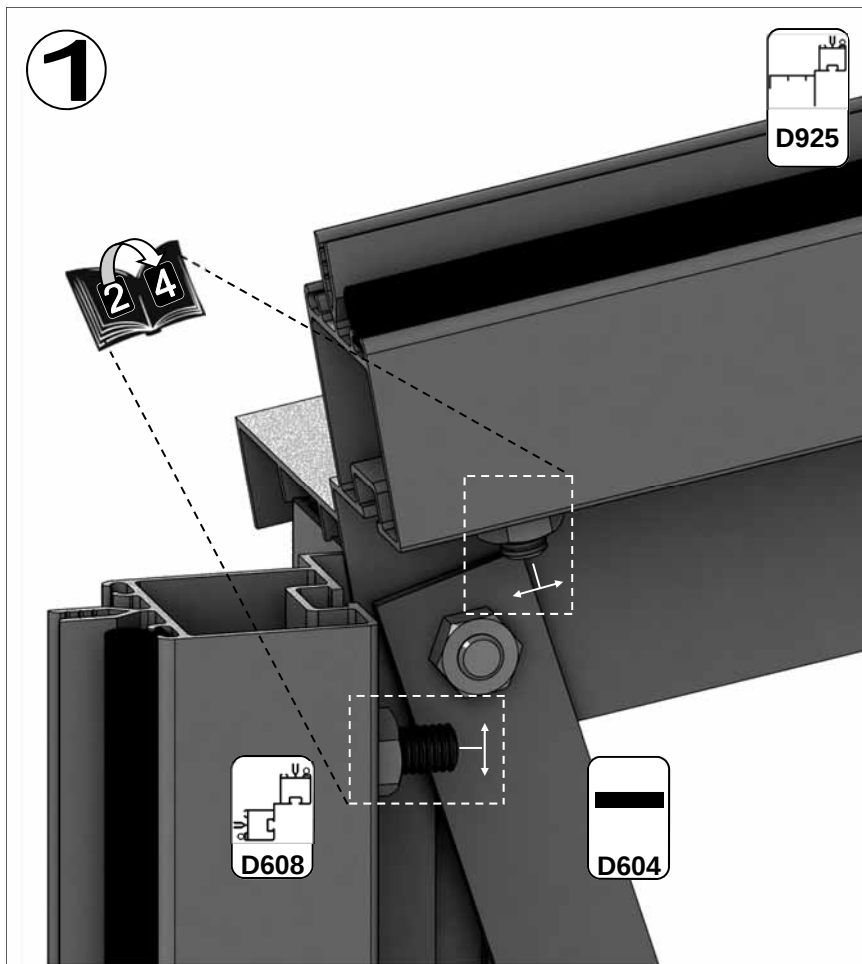
12 X 1 DWARF		
Part No	mm	Quantity
D978	3757	1
D023	3754	1
D609	1160	5
D604	1316	2
D174		4
M6-12mm		5
M6-16mm		7
M6-NUT		12
Rubber	1000	12





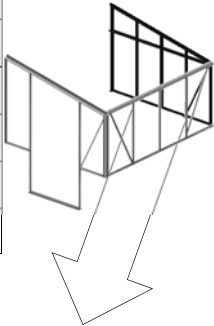
Part No	mm	Quantity	DOORS ON LEFT EXTERNAL VIEW	Part No	mm	Quantity	DOORS ON RIGHT EXTERNAL VIEW	Part No	mm	Quantity
D600	1270	1		D174		4		D600	1270	1
D604	1316	1		D227		17m		D604	1316	1
D605(R)	690	1		M6X12		5		D606(L)	690	1
D608	1160	1		M6X16		11		D608	1160	1
D632L	650	1		M6NUT		16		D632R	650	1
D925	2545	1						D925	2545	1
D955	2037	1						D955	2037	1
D957	2257	1						D957	2257	1
D997	1590	1						D997	1590	1





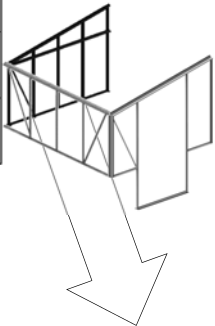
Part No	mm	Quantity
D037	2510	1
D113	2510	1
D604	1316	1
D608	1160	1
D925	2545	1
D985	1487	1
D992	1267	1
D993	1377	1
D997	1590	1

DOORS ON LEFT EXTERNAL VIEW

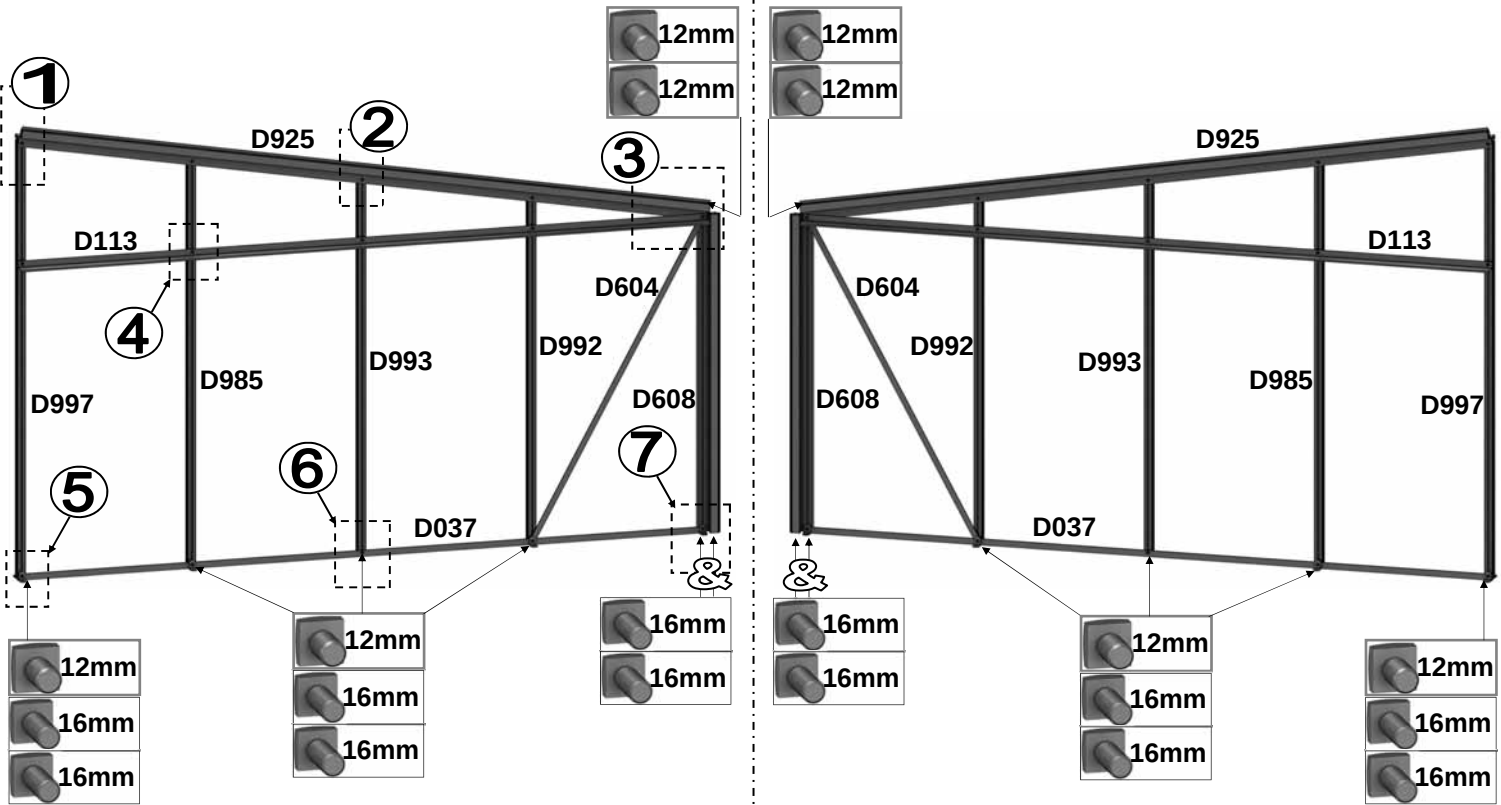


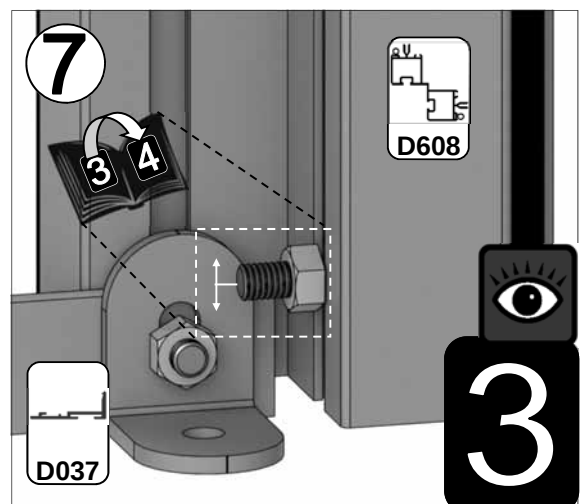
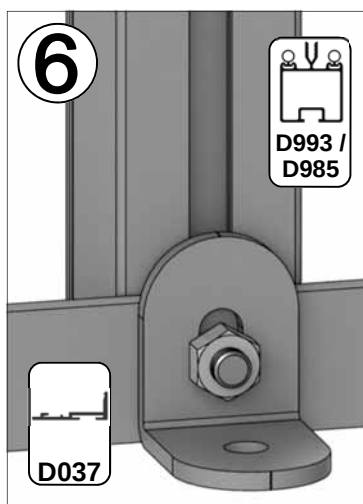
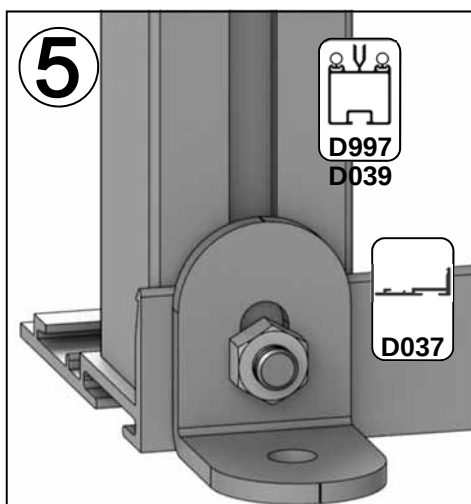
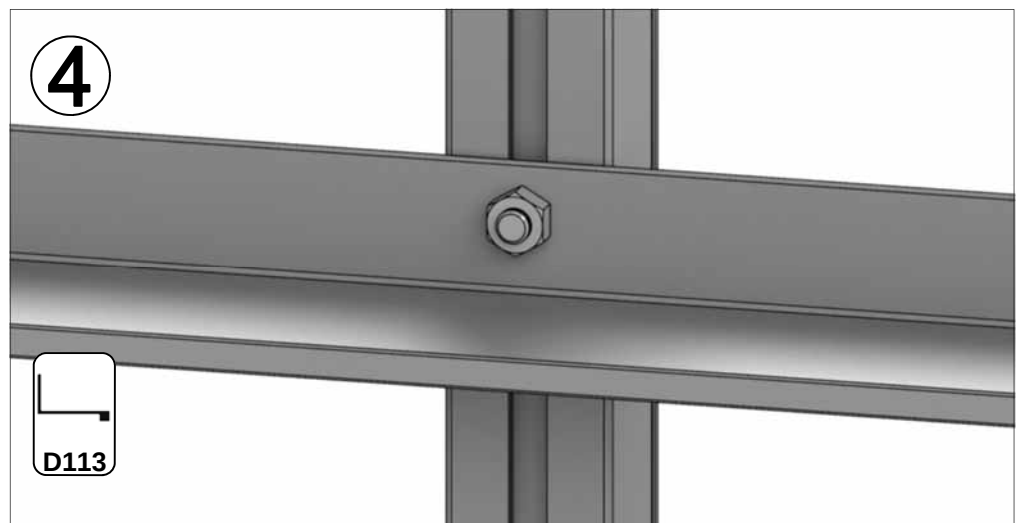
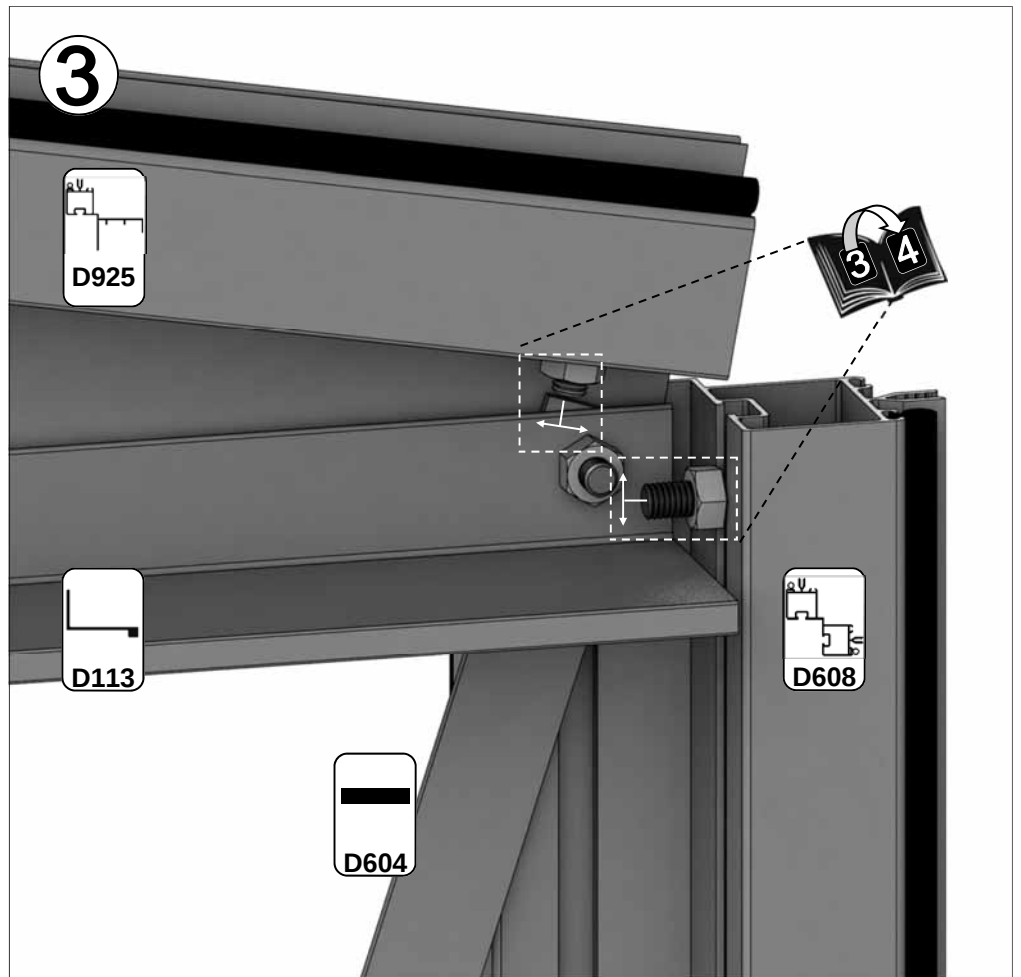
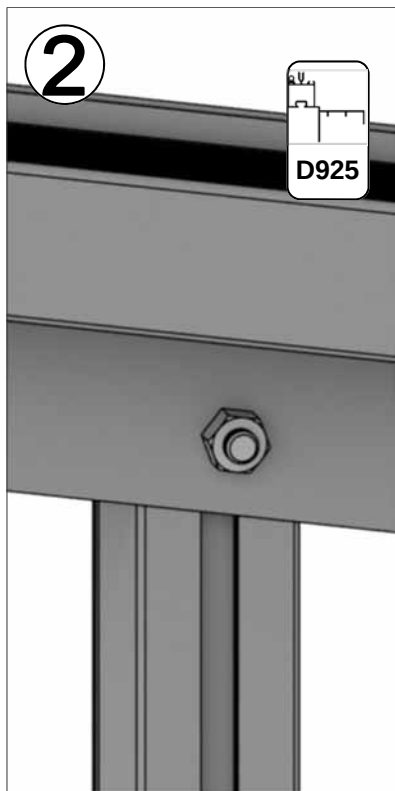
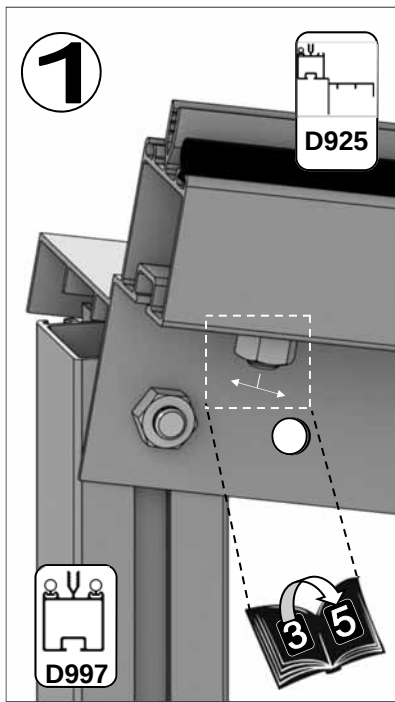
Part No	mm	Quantity
D174		5
D227		17m
M6X12		6
M6X16		12
M6NUT		18

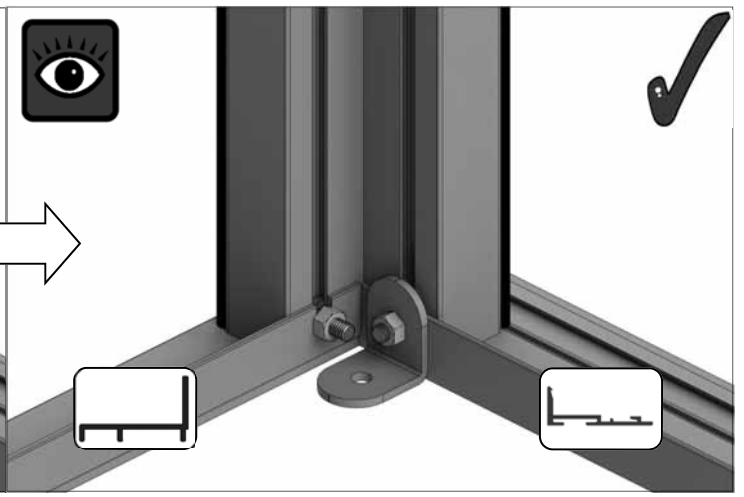
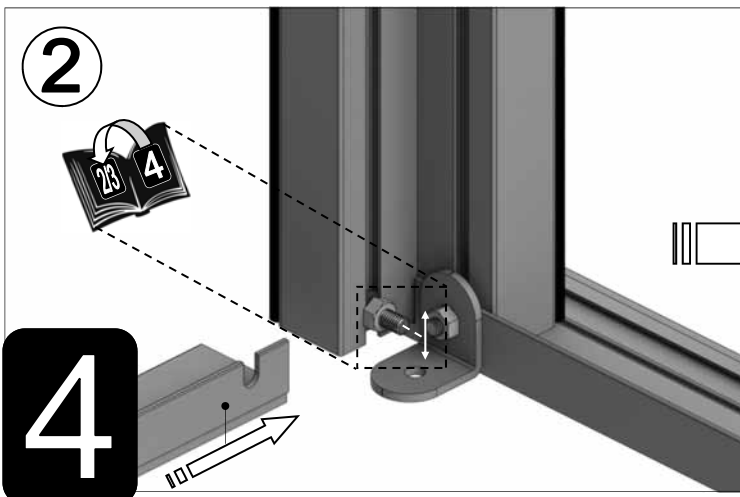
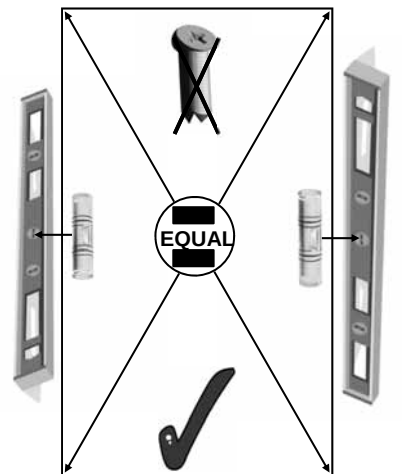
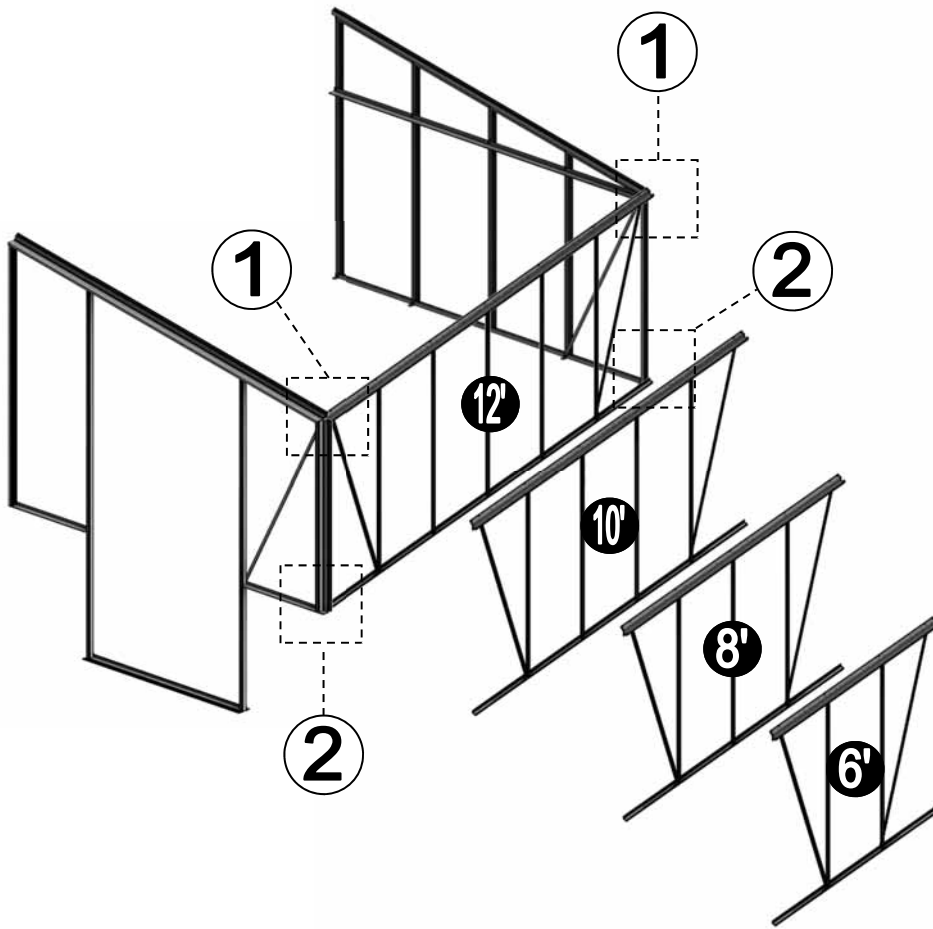
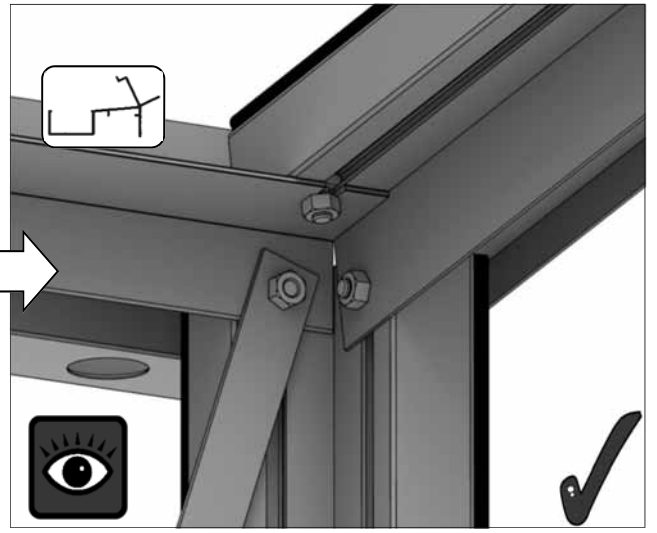
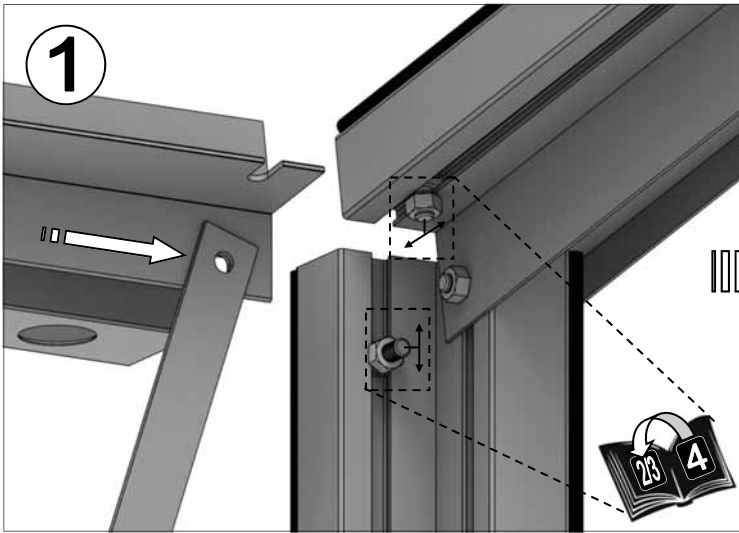
DOORS ON RIGHT EXTERNAL VIEW



Part No	mm	Quantity
D037	2510	1
D113	2510	1
D604	1316	1
D608	1160	1
D925	2545	1
D985	1487	1
D992	1267	1
D993	1377	1
D997	1590	1





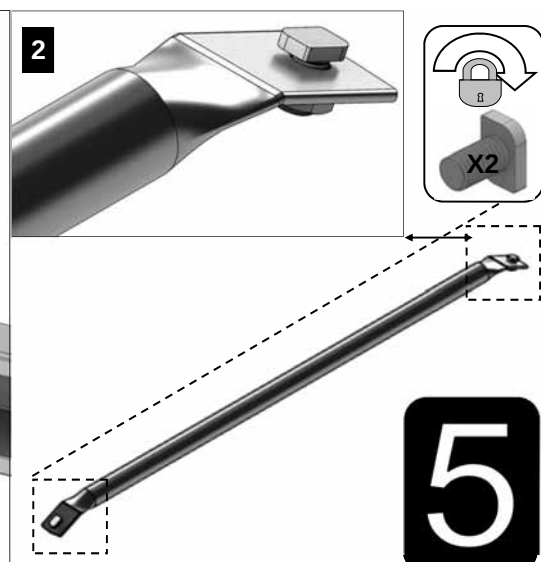
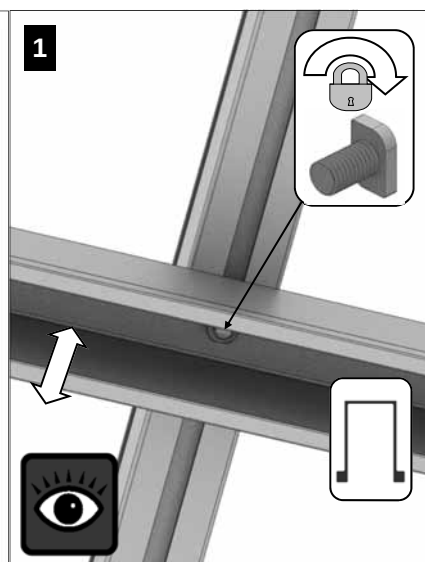
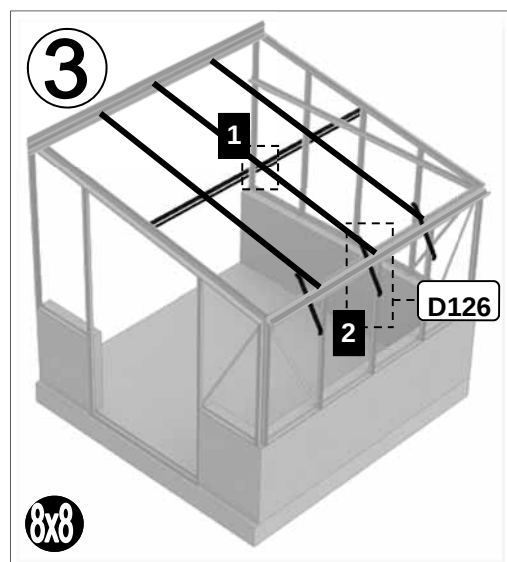
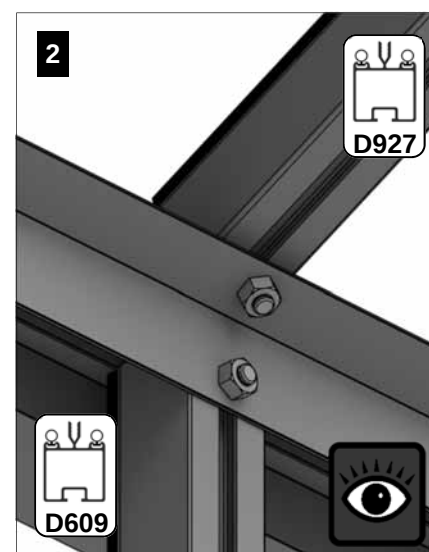
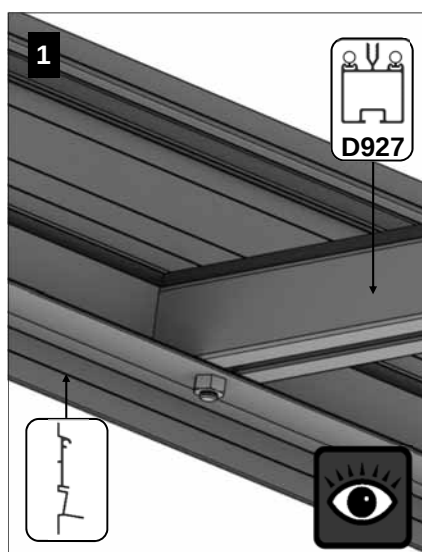
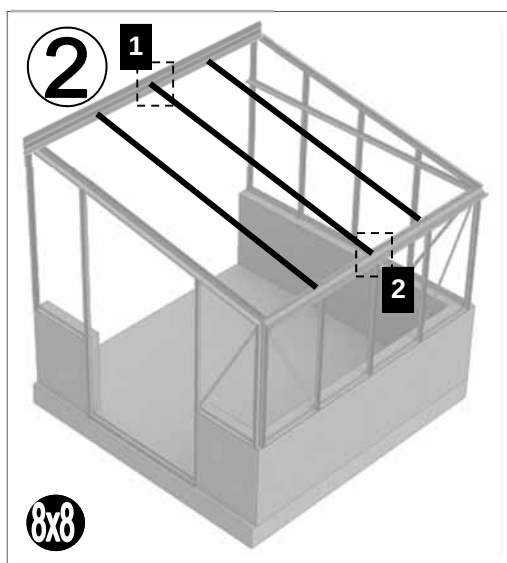
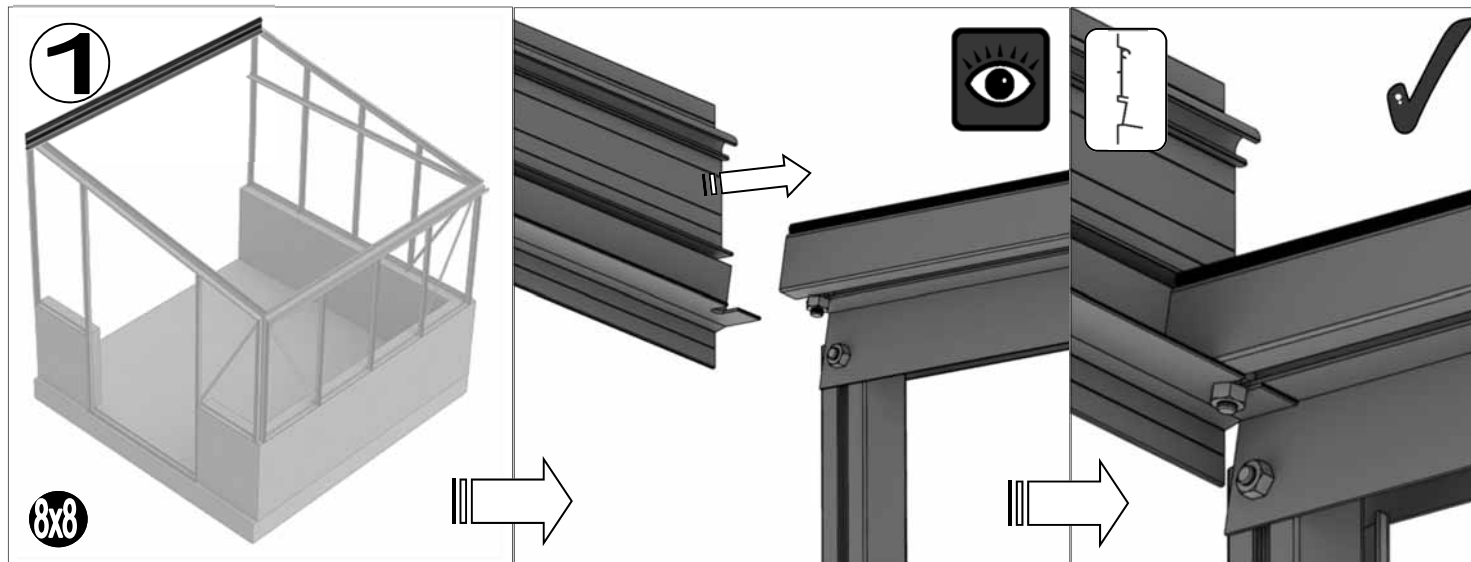


6'		
		4
Part No	mm	Quantity
D976	1897	1
D927	2545	2
D593	1897	1
RUBBER	1000	11

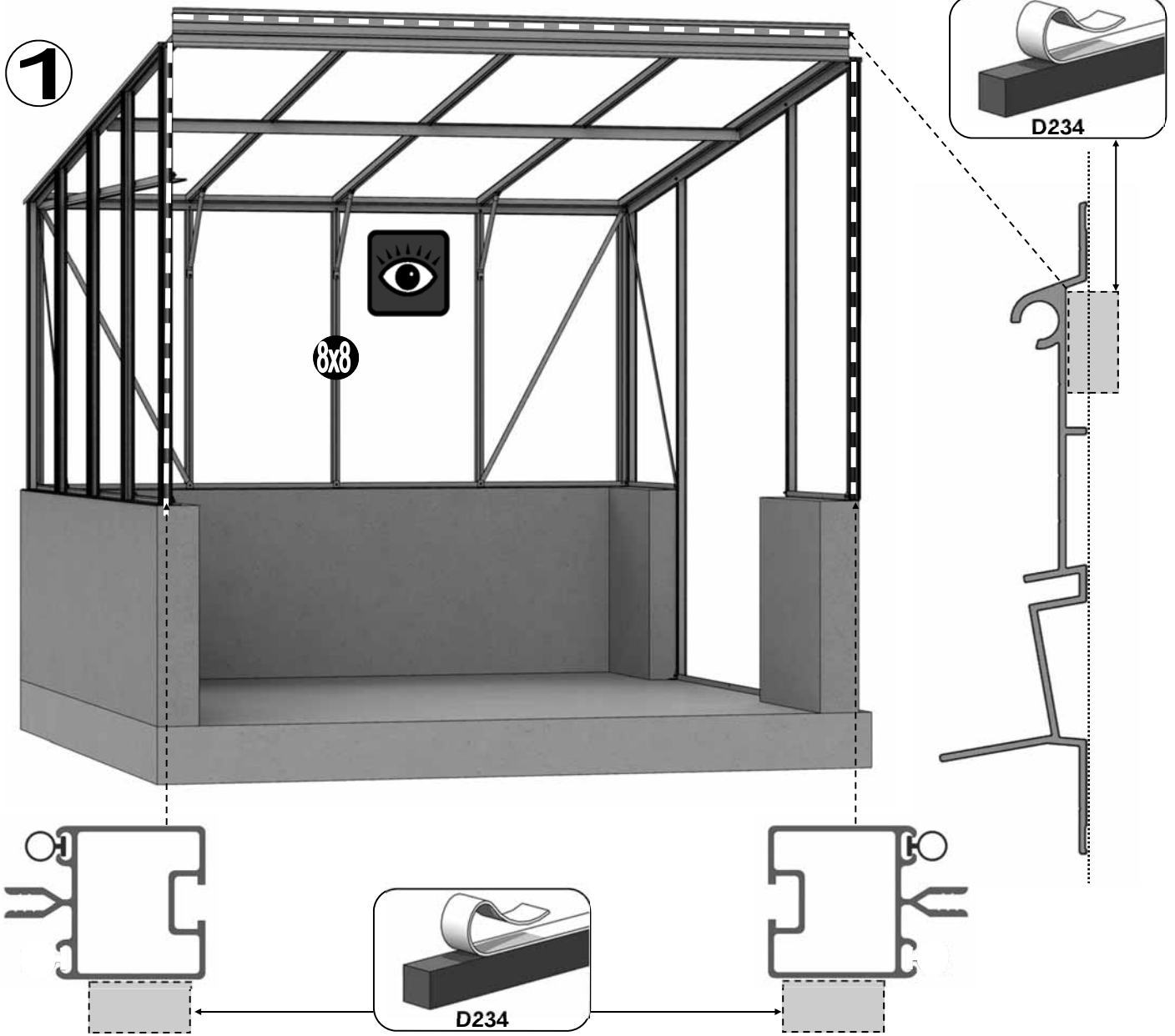
8'		
		6
Part No	mm	Quantity
D973	2517	1
D927	2545	3
D594	2517	1
RUBBER	1000	16

10'		
		8
Part No	mm	Quantity
D981	3137	1
D927	2545	4
D595	3137	1
RUBBER	1000	21

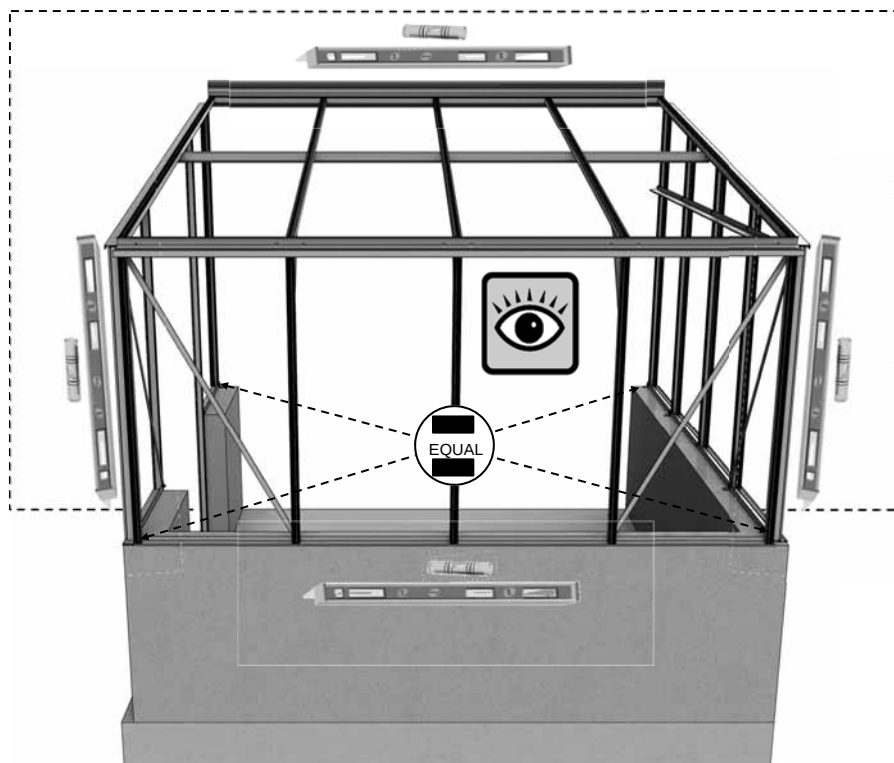
12'		
		10
Part No	mm	Quantity
D977	3757	1
D927	2545	5
D596	3757	1
RUBBER	1000	26



1



2

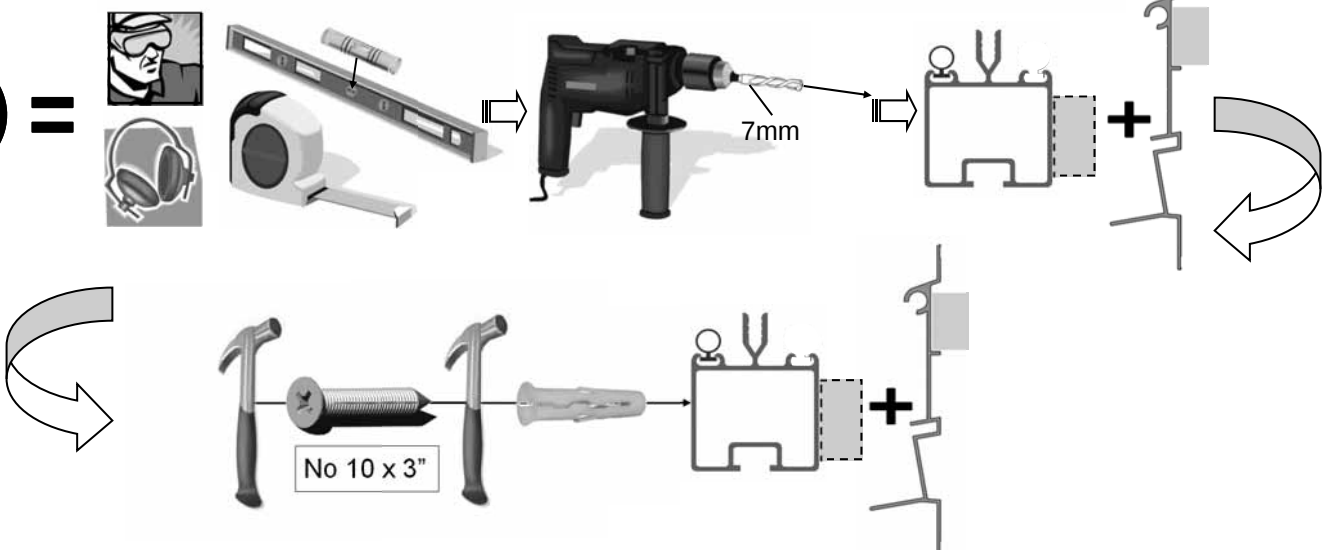
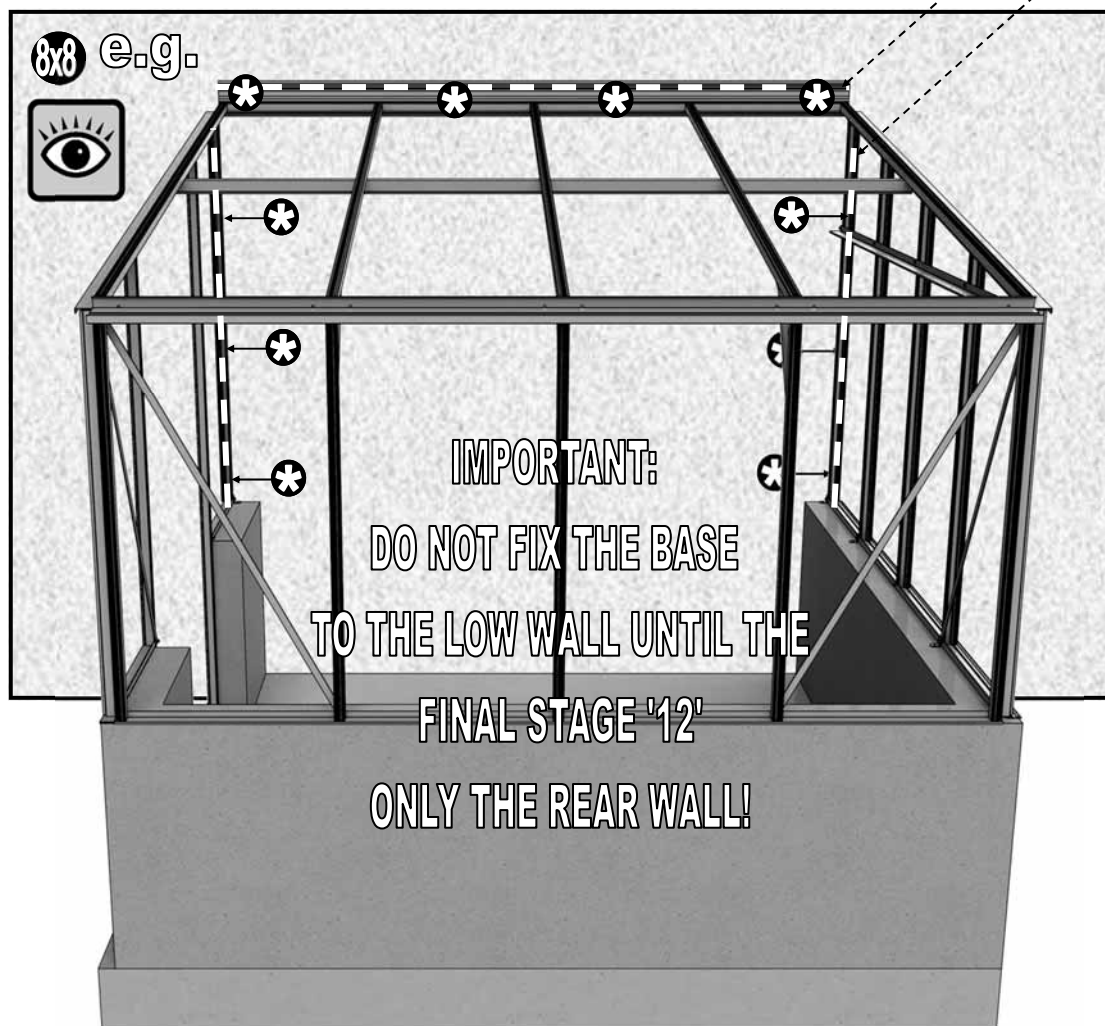


6

			8x6	8x8	8x10	8x12
Part No		mm	Quantity			
SYSCR3		75	9	10	11	12
SYRAWL		50	9	10	11	12



3



There are various methods for attaching your greenhouse frame to its wall.

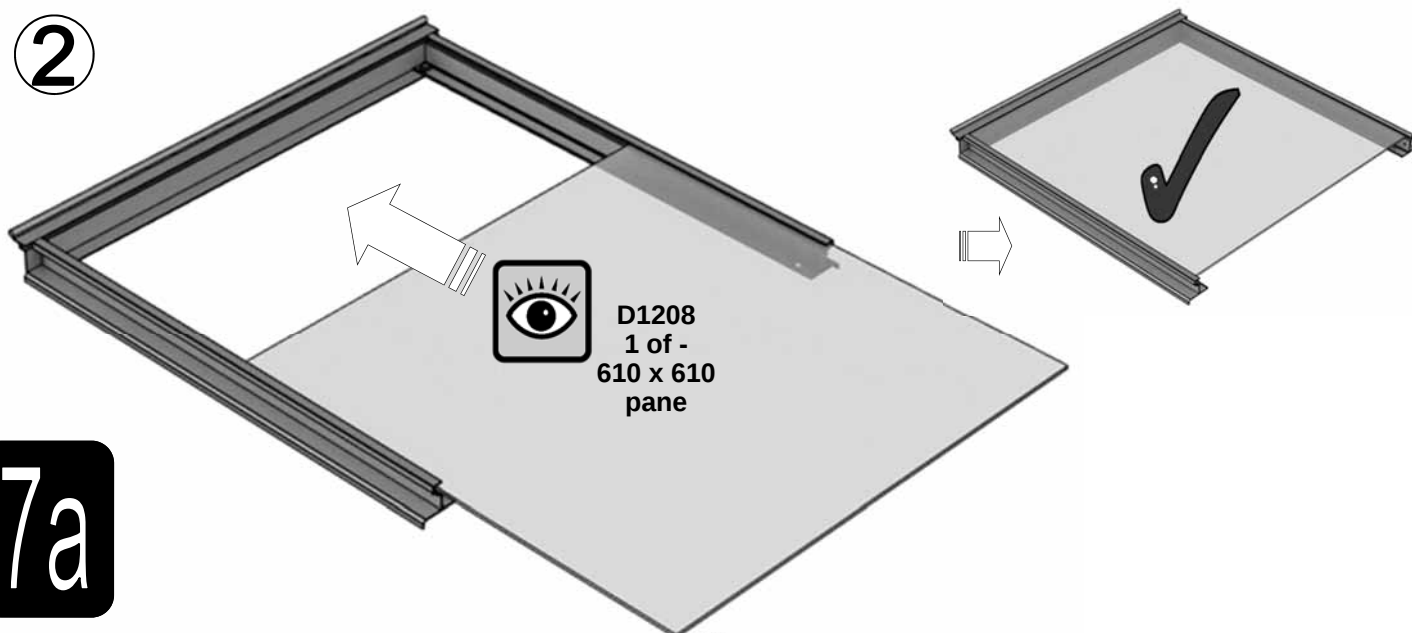
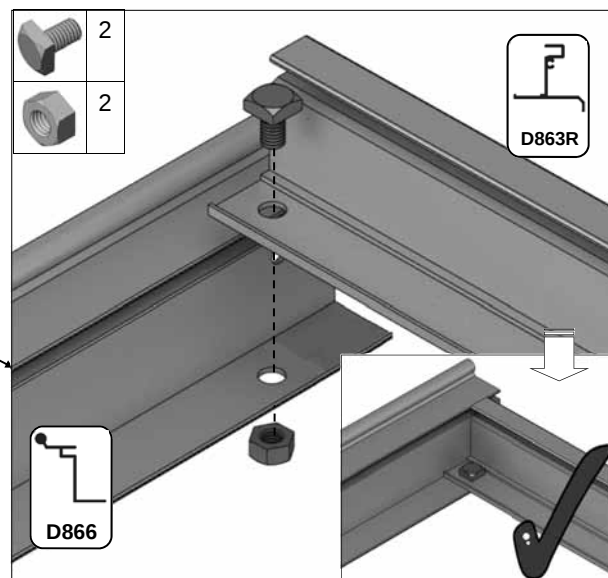
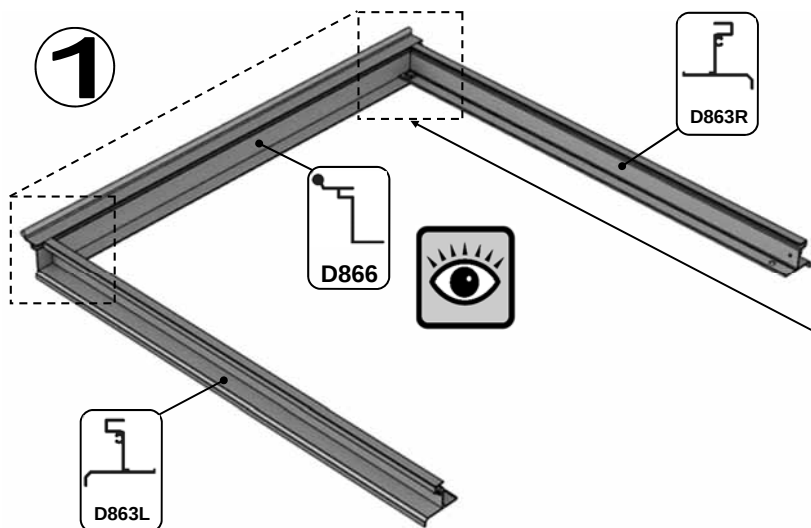
- 1) Drill through the vertical wall bars with a 7mm drill/hammer drill using a 7mm masonry bit, Use 3" screws to secure the wall bars.
- 2) Drill through the vertical wall bars with a 7mm drill bit and enlarge the inner hole to 10mm. Use 2" screws to secure the wall bars hiding the screw heads inside the bars to give a neat finish.
- 3) Use L-shaped brackets and 2" screws to secure the frame to the wall similar to anchoring the greenhouse down (e.g. section 12).

6



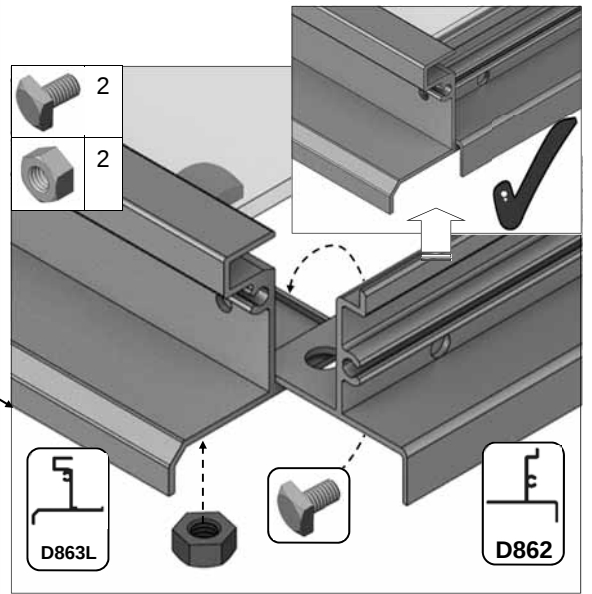
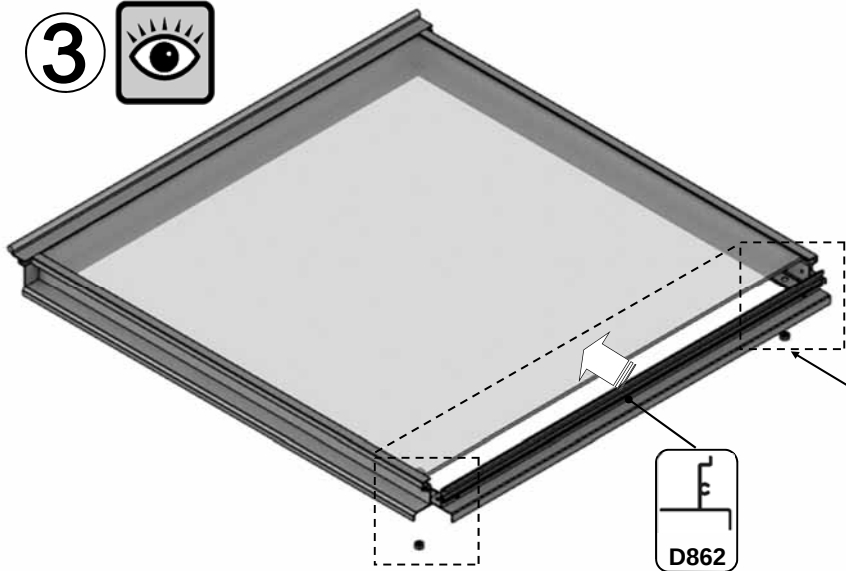
Part No		mm	Quantity
D866		639	1
D863L		613	1
D863R		613	1
D862		593	1

Part No		mm	Quantity
D220 PLUS FS6060 SCREW		N/A	2
D205		N/A	2
M6X12		10	4
NUTM6		M6	4
8 X 12 S/T FS6017		10	2
8 x 19 S/T FS6018		19	2

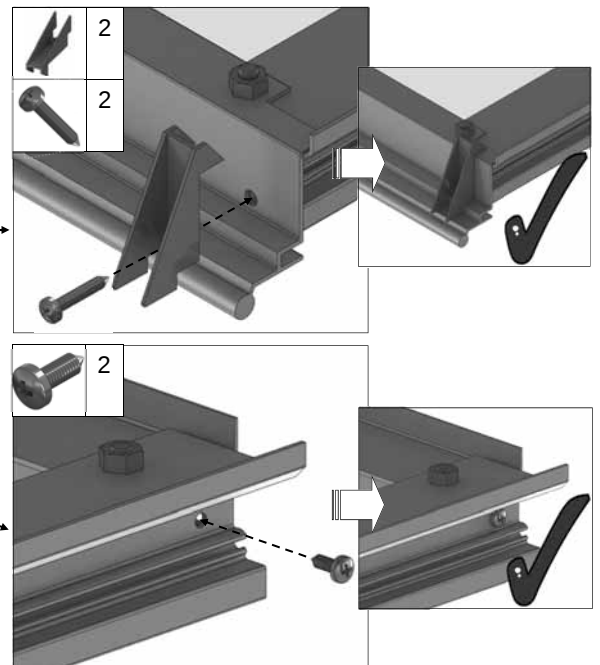
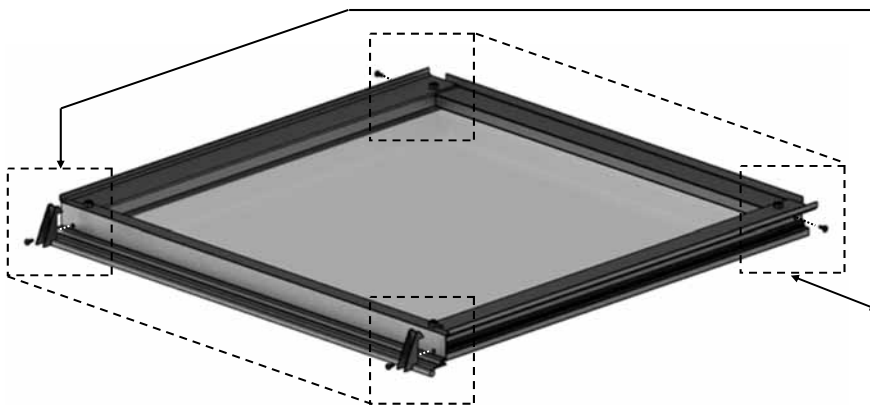
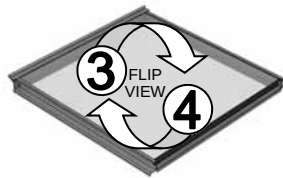


7a

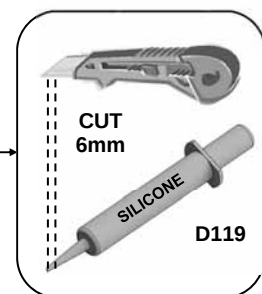
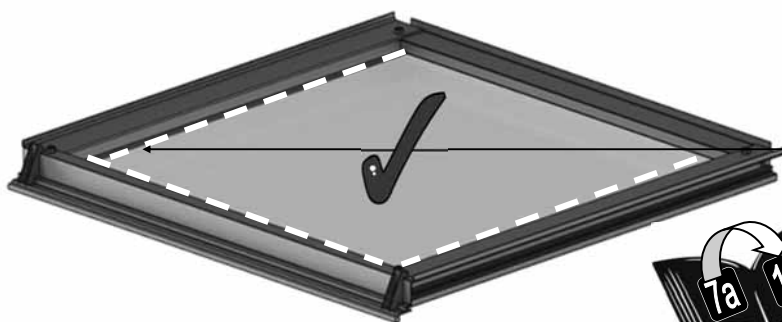
3 



4 



5 



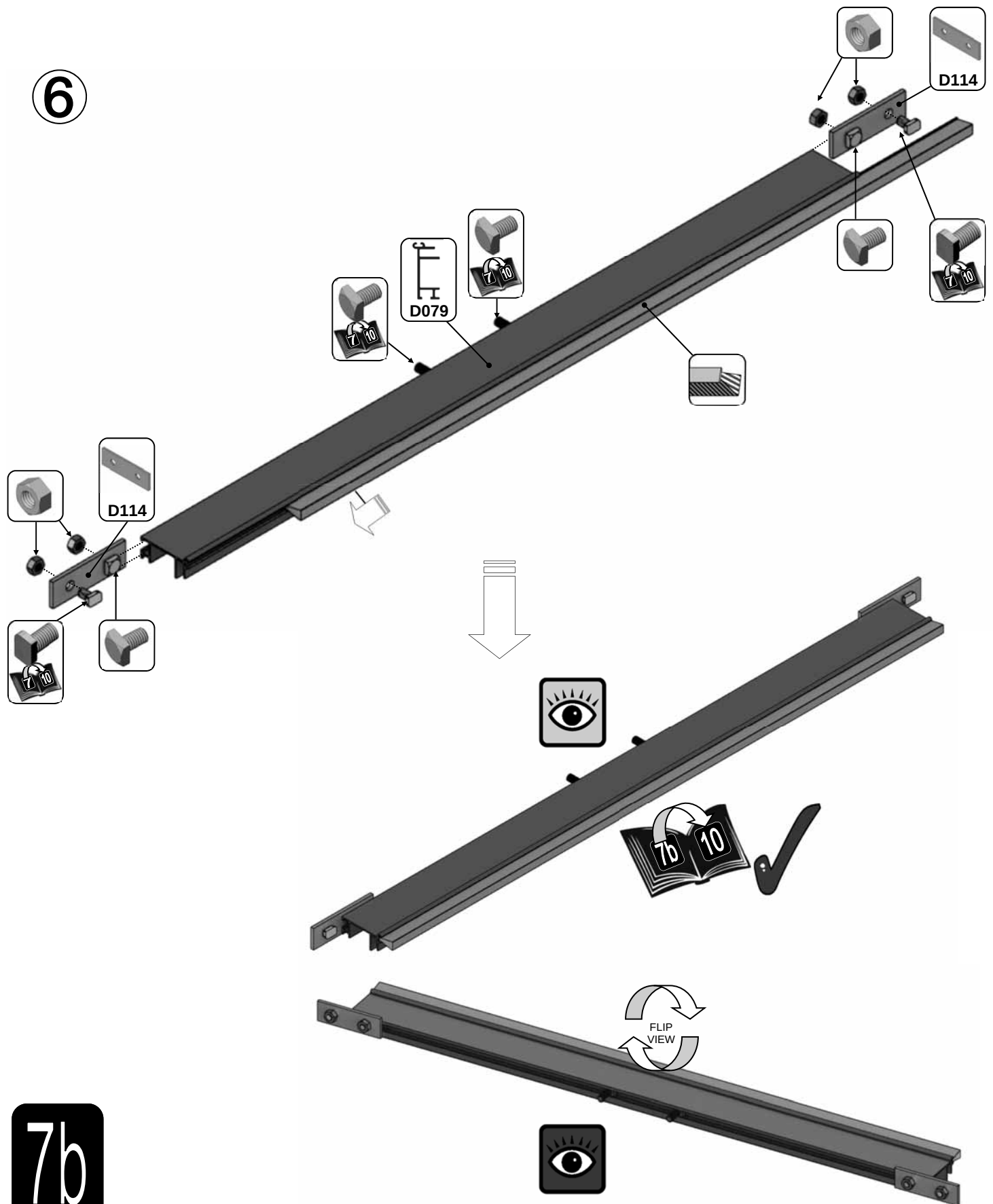
7a

1 vent
slam bar = {

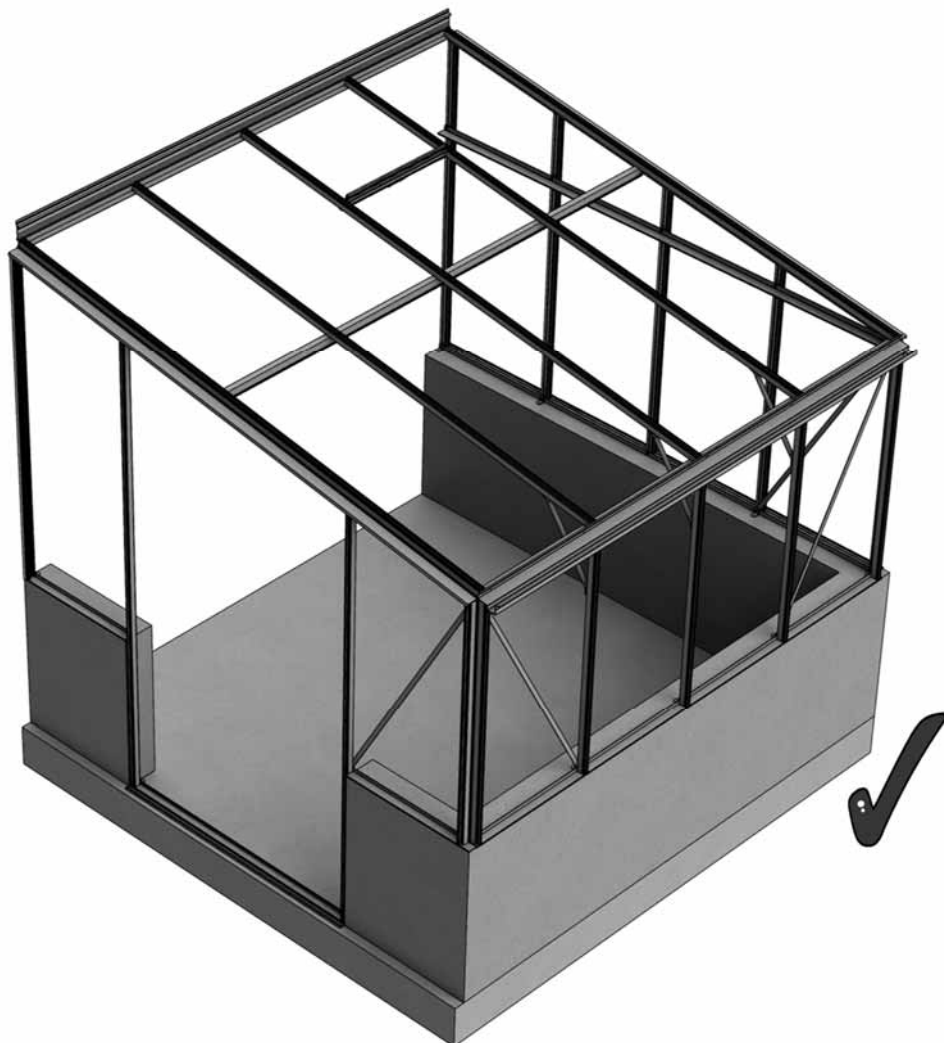
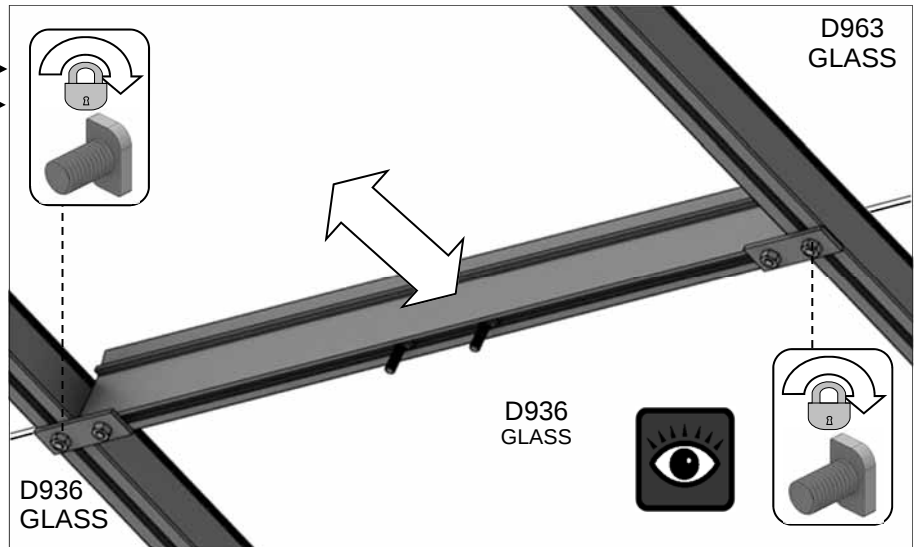
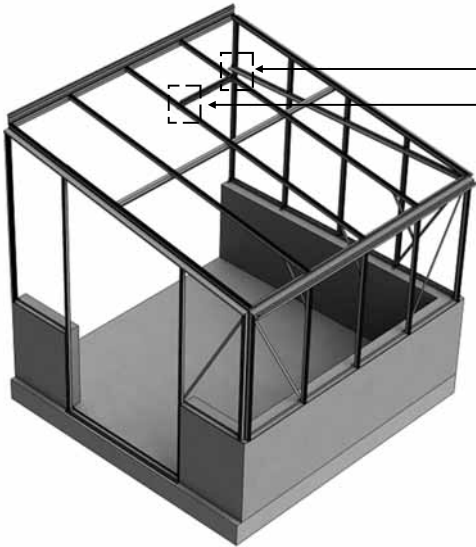
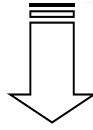
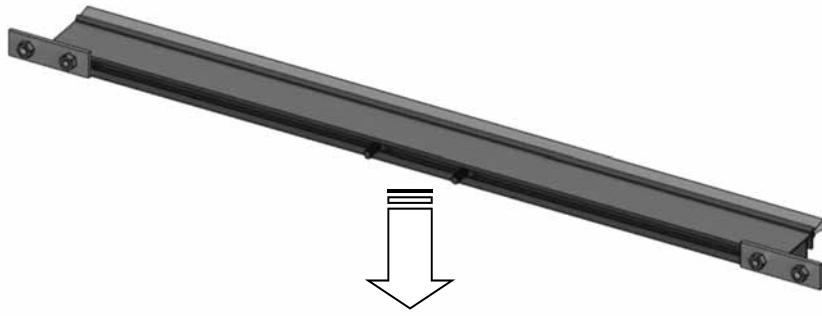
Part No		mm	Quantity
BOLM6X12		12	4
M6 crop		10	2
NUT M6		N/A	4

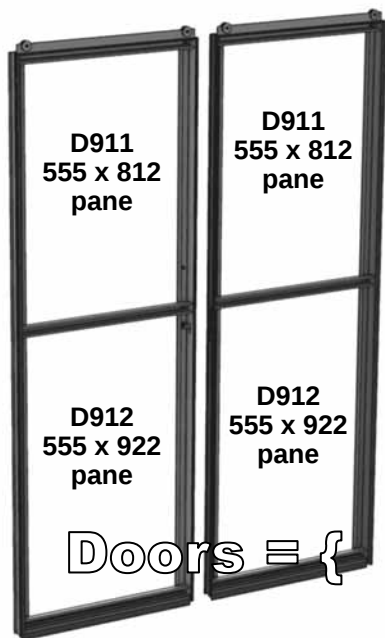
Part No		mm	Quantity
D079 PLUS FLUFF		590	1
D114		N/A	2

6



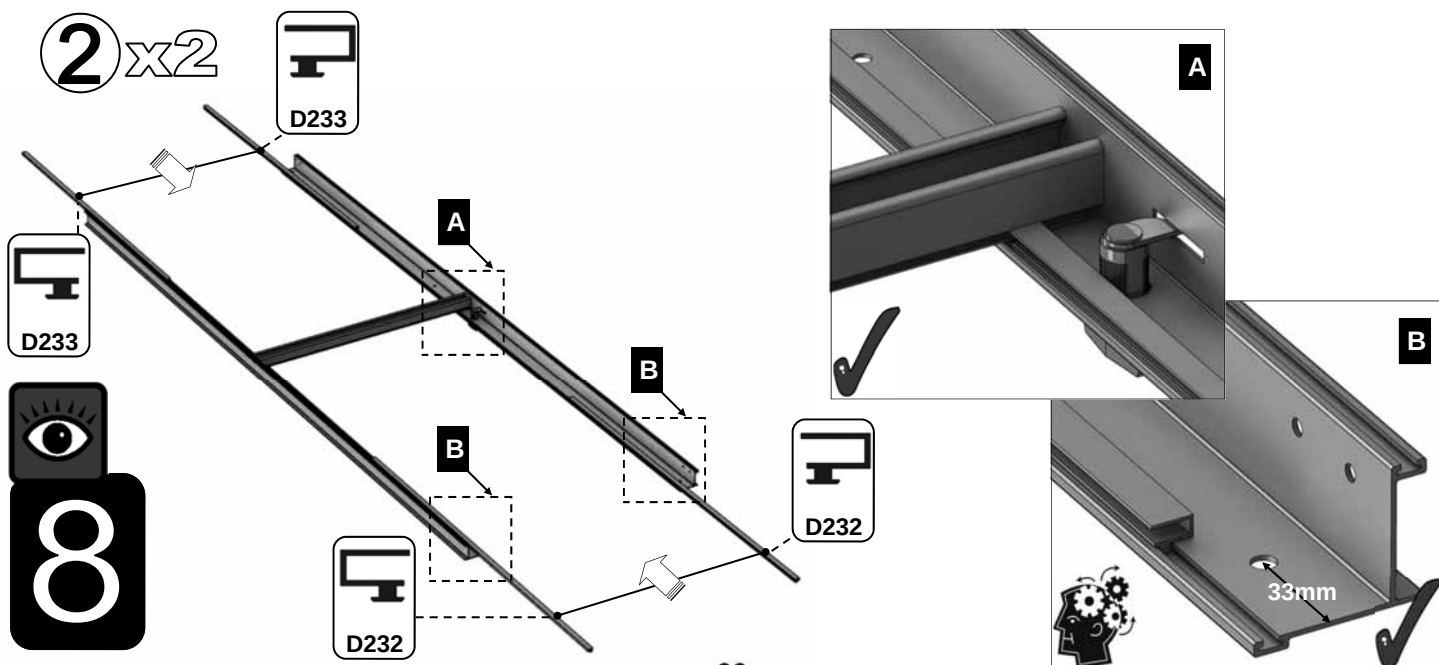
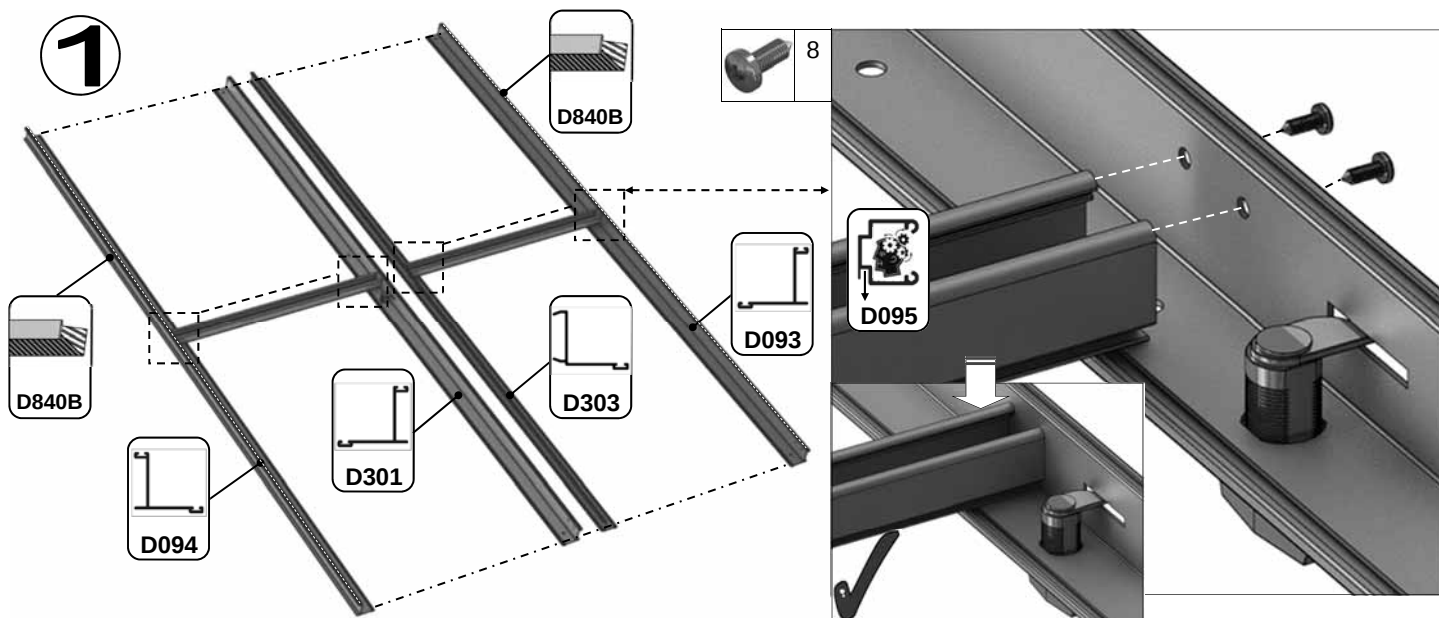
7b

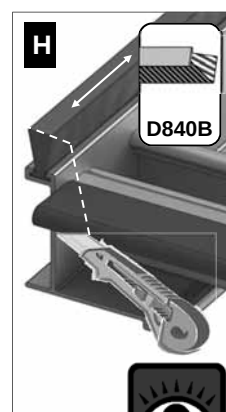
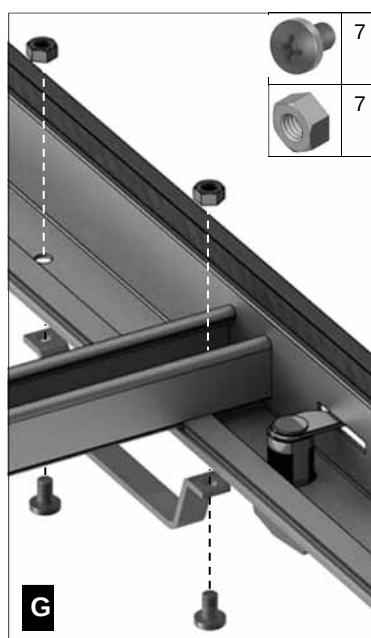
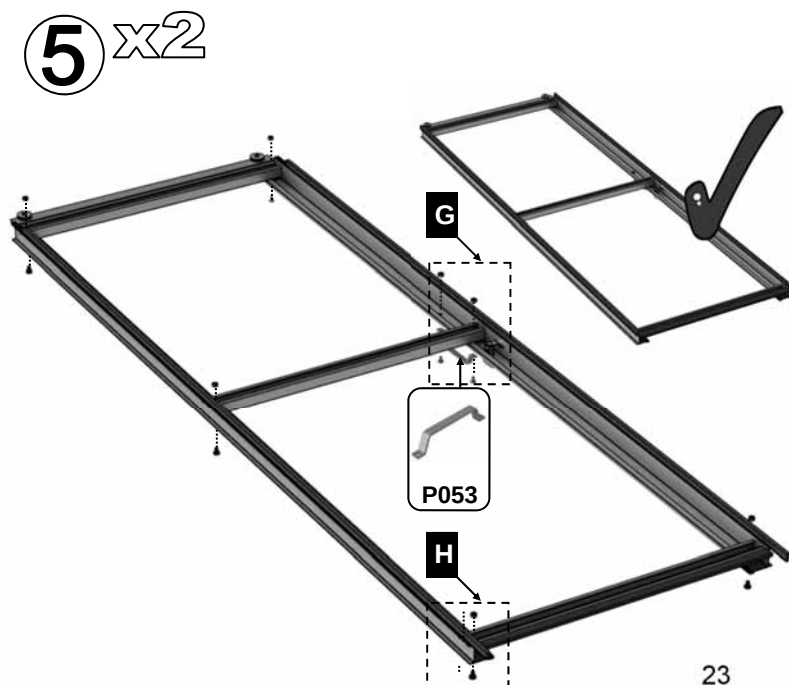
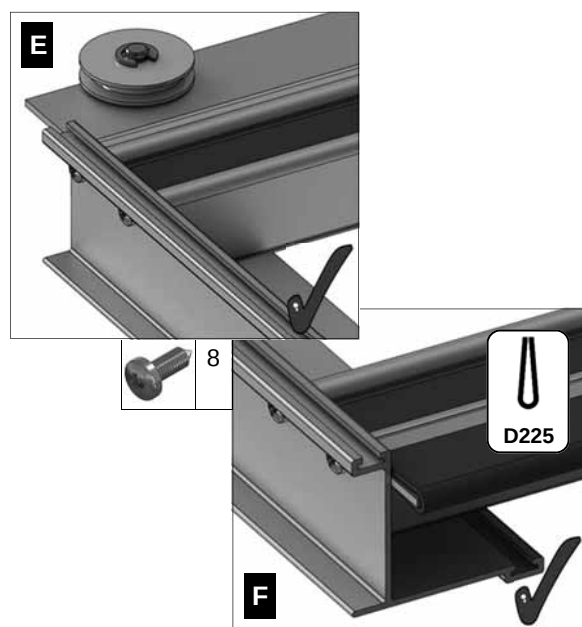
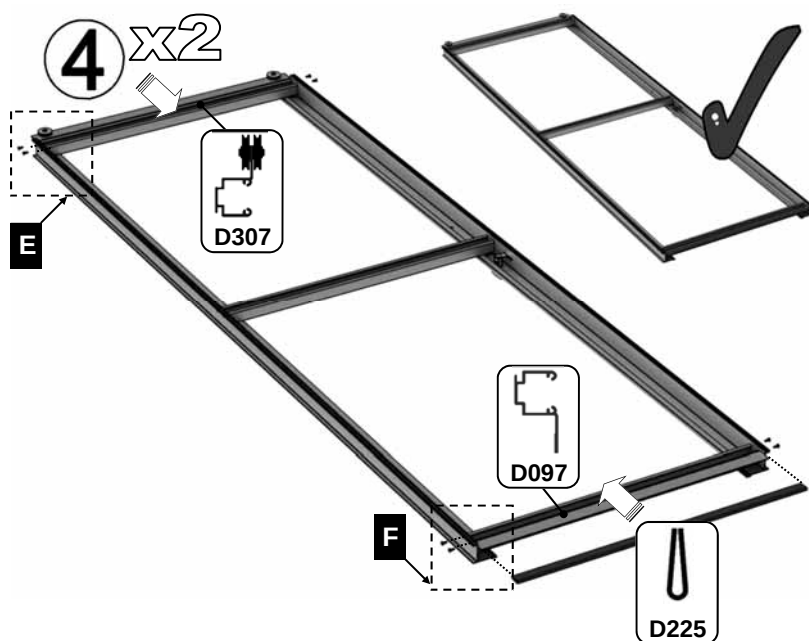
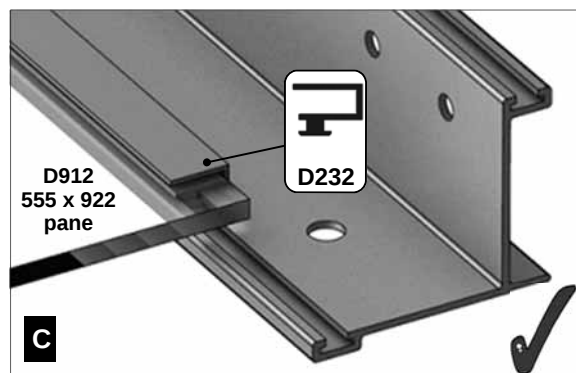
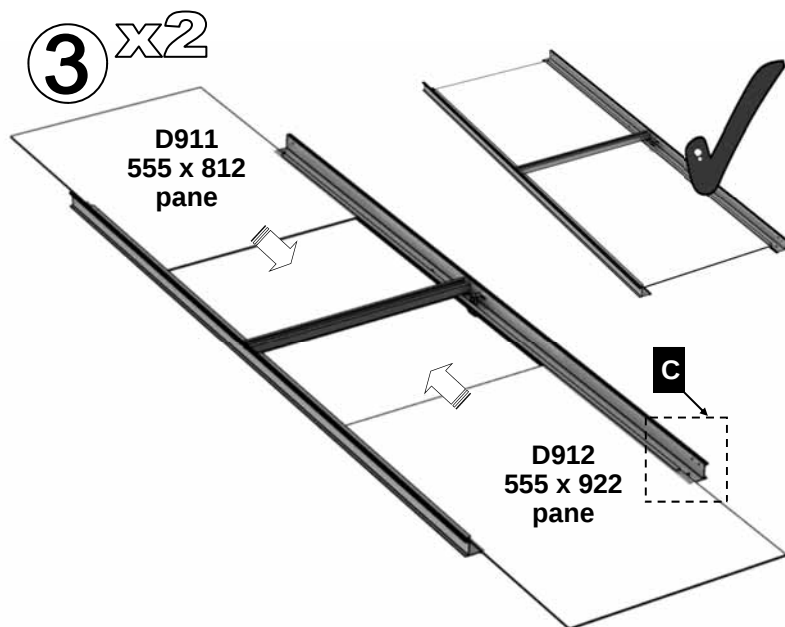




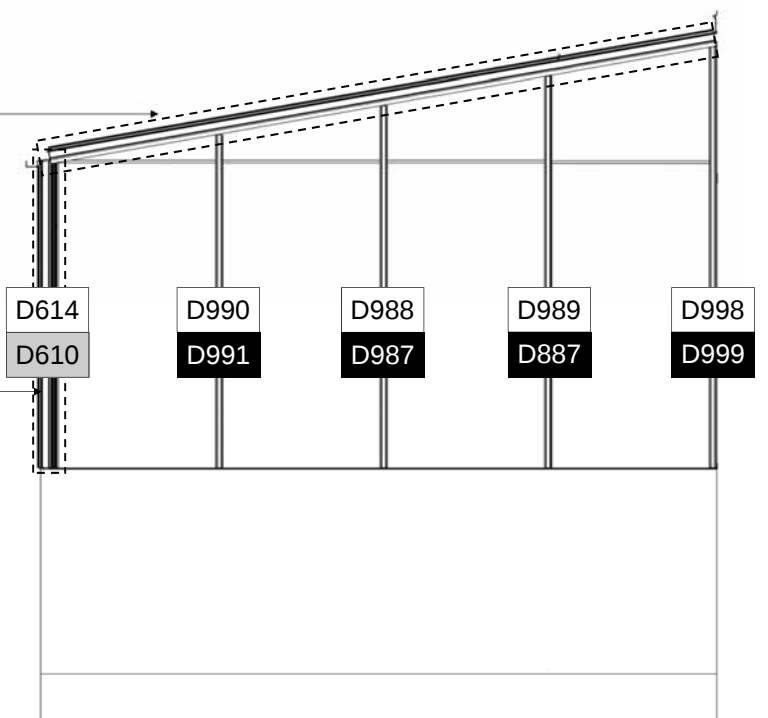
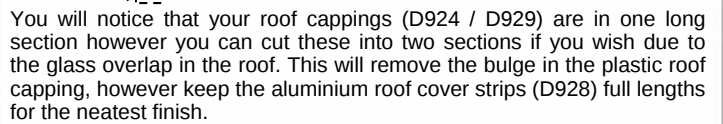
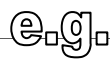
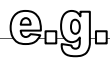
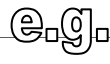
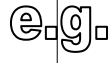
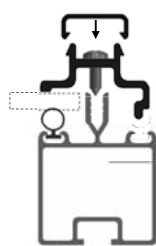
Part No		mm	Q
D094		1824	1
D090 + D347 lock = D301		1824	1
D092 + D156 strike = D303		1824	1
D093		1824	1
D096 + D217 wheel = D307		611	2
D095		611	2
D097		611	2

Part No		mm	Q
D232		905	4
D233		797	4
P053		N/A	2
D225		610	2
D840B		4000	1
D263 PACK x 2		N/A	14
		N/A	14
D261 PACK		N/A	24



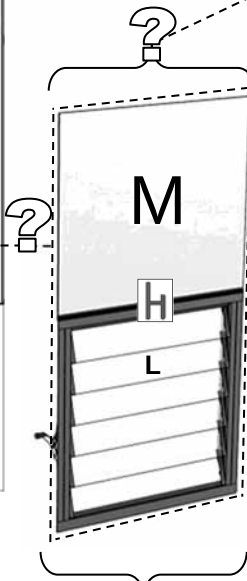
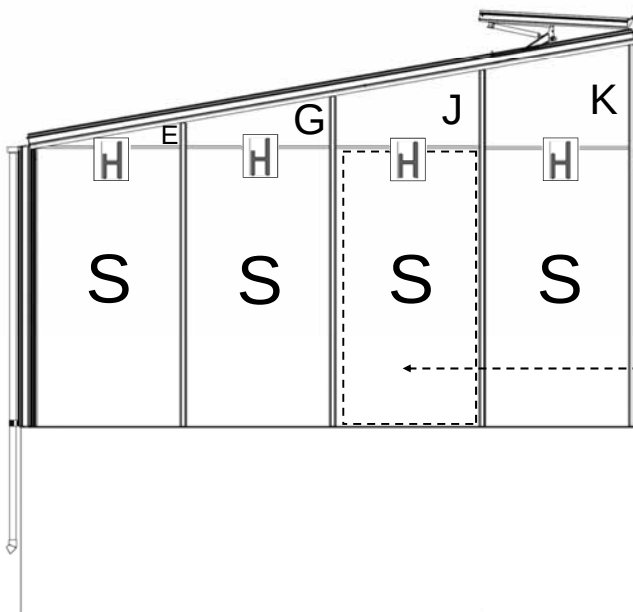
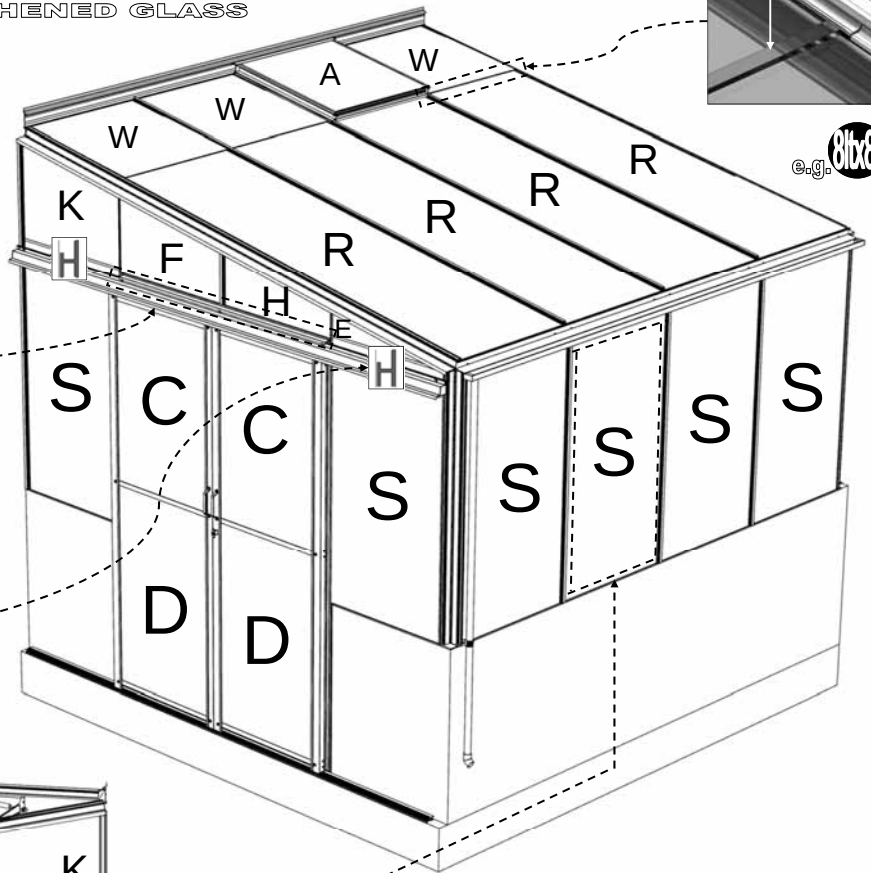
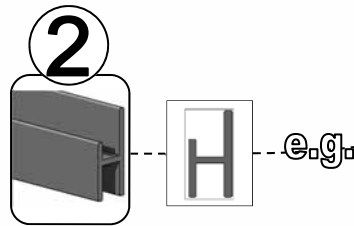
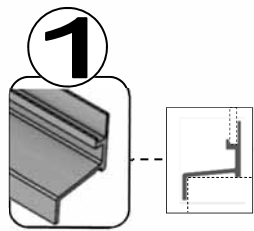
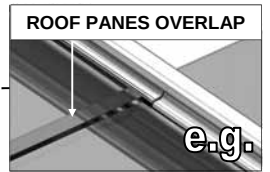


e.g.



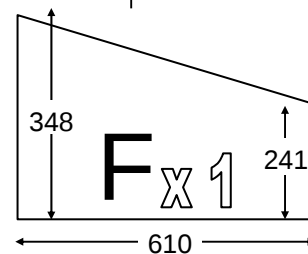
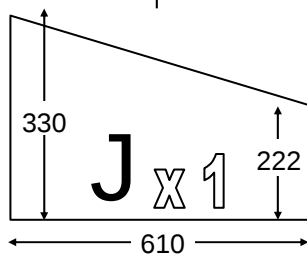
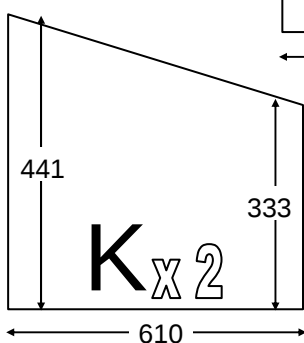
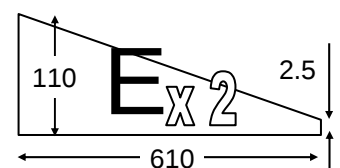
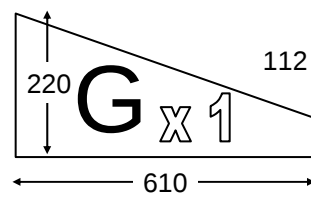
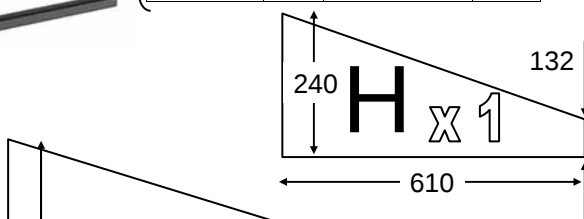


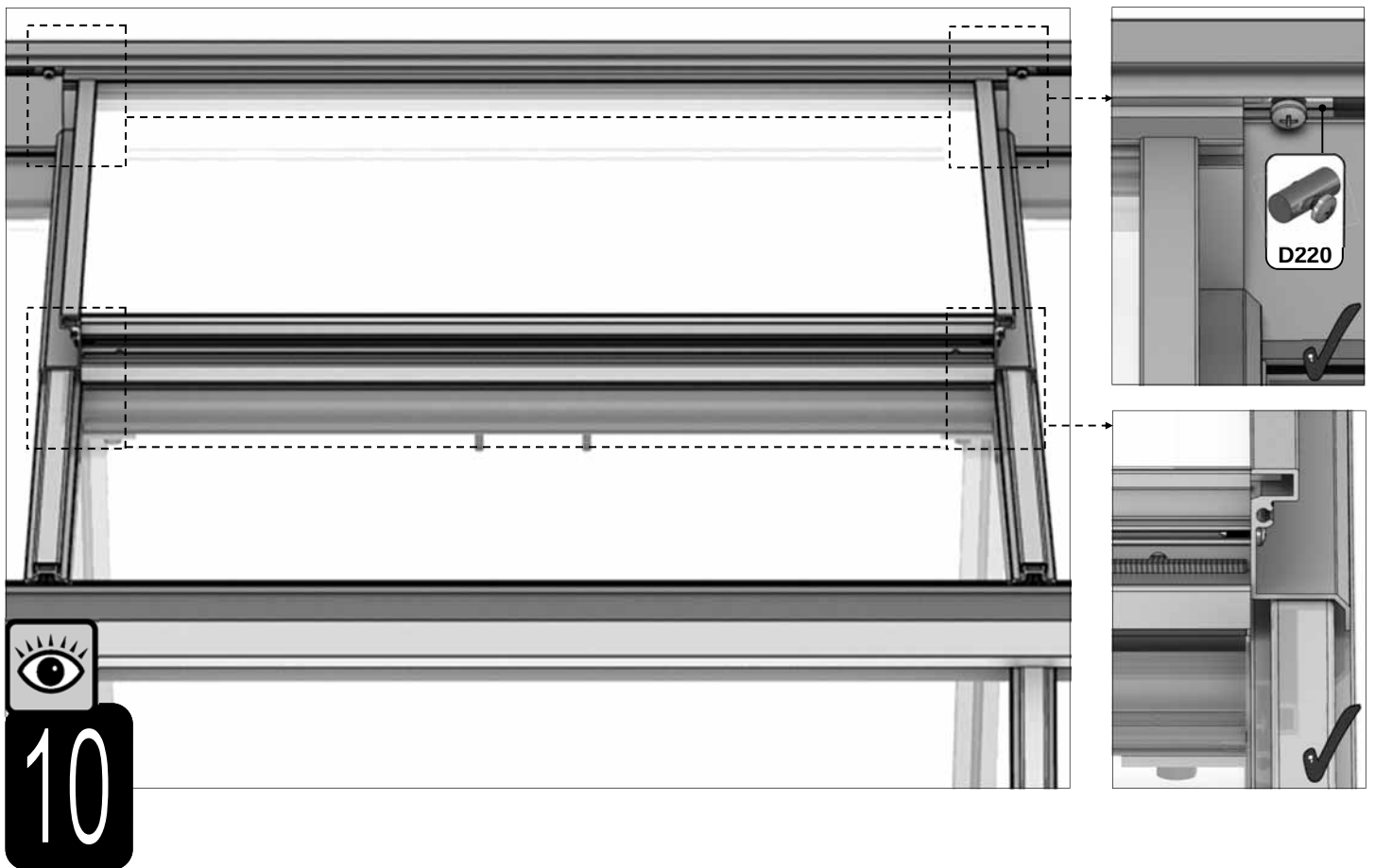
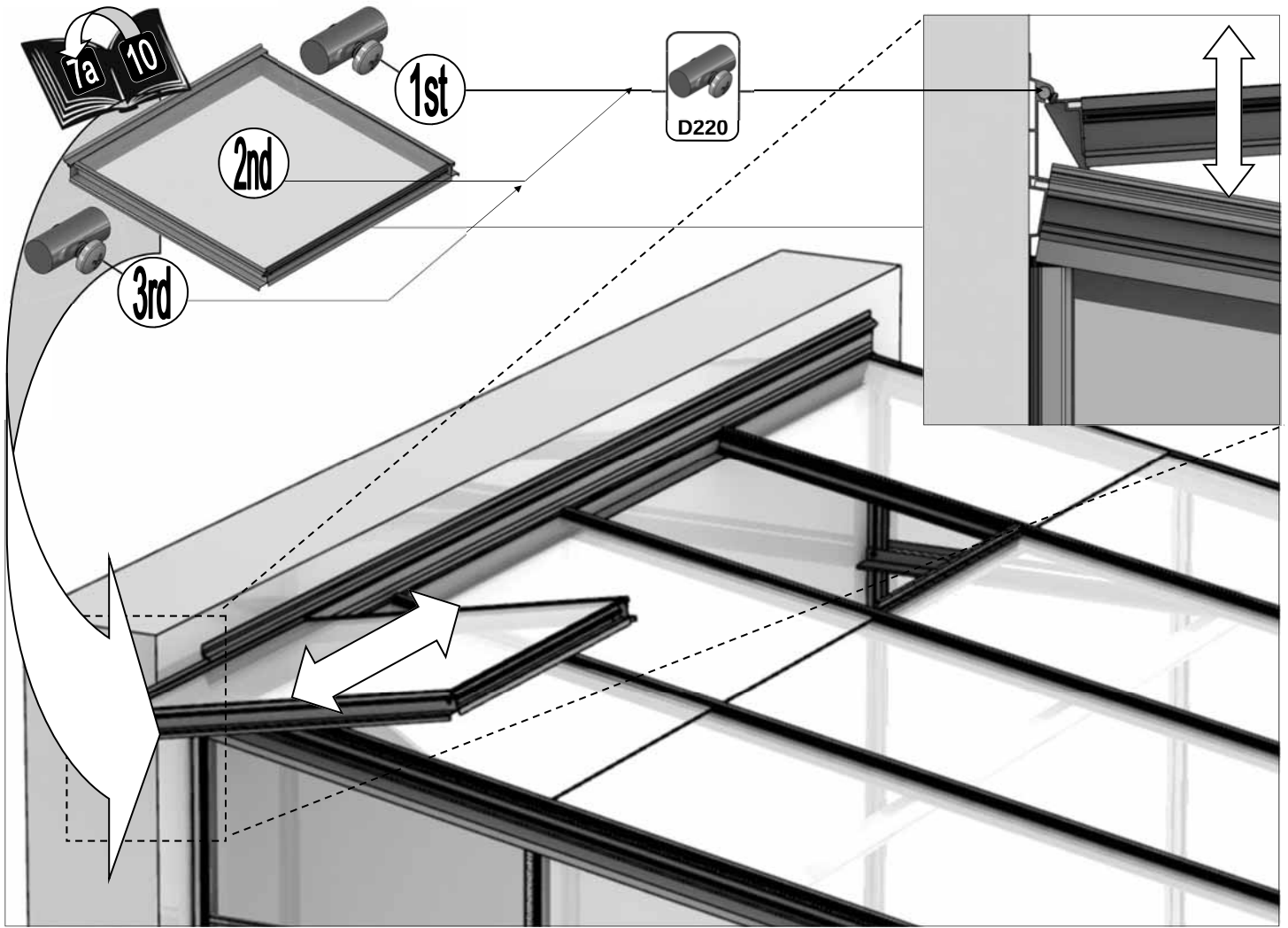
8' DWARF LEAN-TO
TOUGHENED GLASS

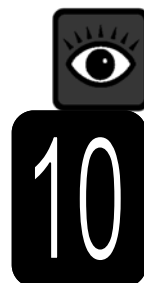
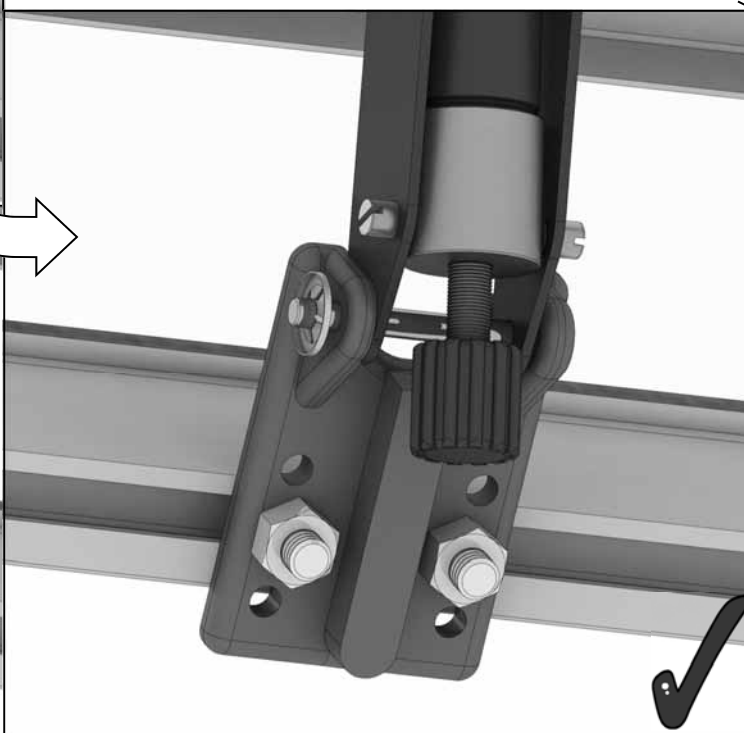
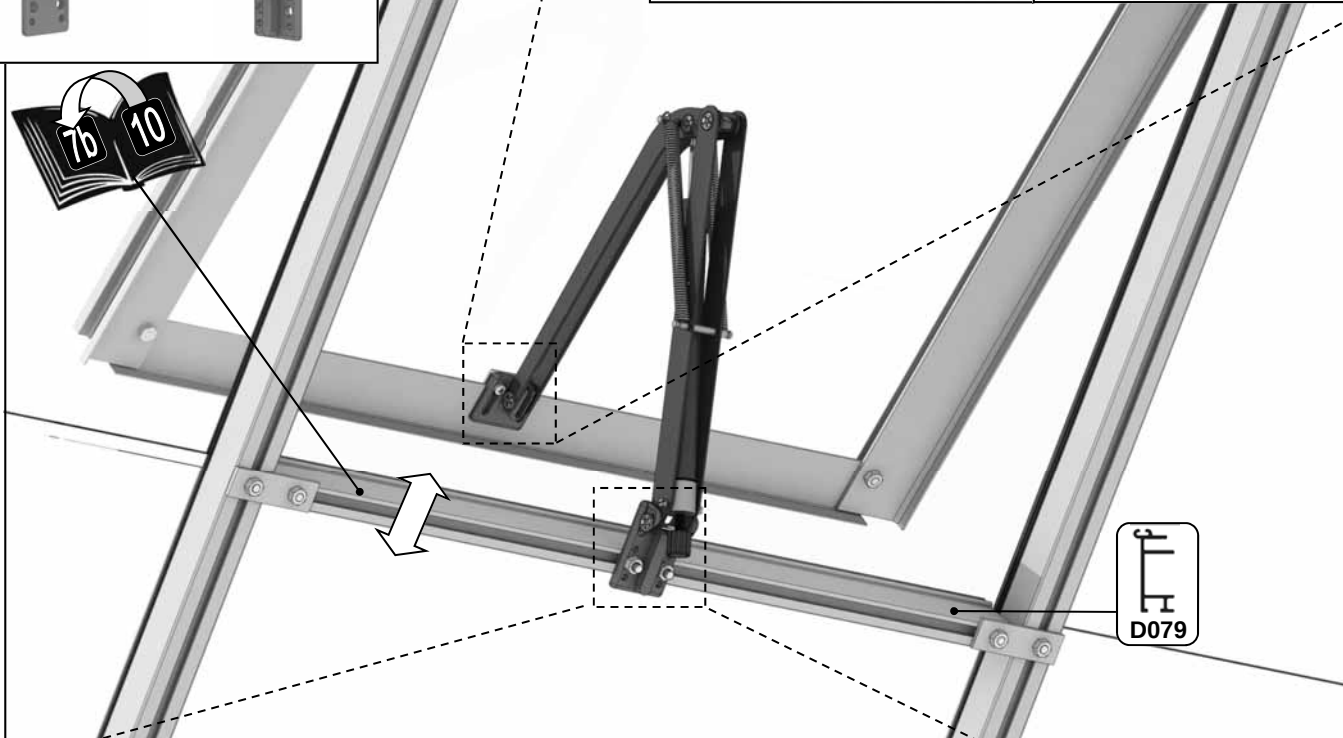
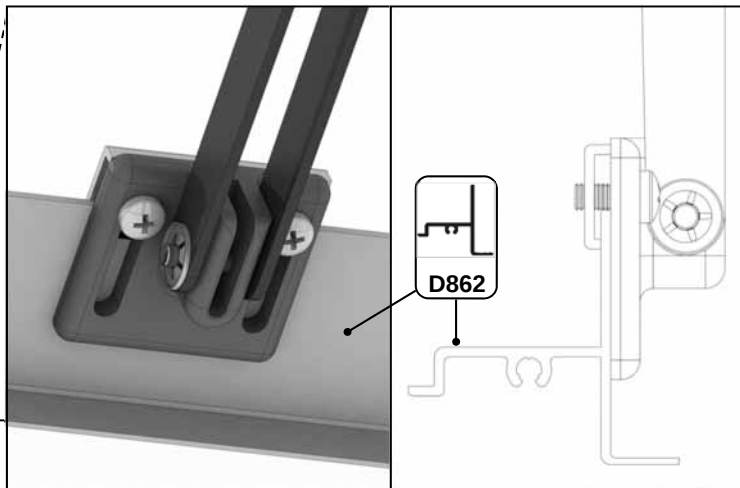


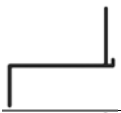
PART No		Size (mm)	6'	8'	10'	12'
D1216	S	610 X 1162	9	10	11	12
D936	R	610 X 1945	3	4	5	6
D963	W	610 X 630	2	3	3	4
D1208	A	610 X 610	1	1	2	2
D911	C	555 X 812	2			
D912	D	555 X 922	2			
D937	F	ANGLE	1			
D966	E	ANGLE	2			
D967	G	ANGLE	1			
D968	H	ANGLE	1			
D965	J	ANGLE	1			
D938	K	ANGLE	2			
D223/B		1210 long	1			
D101 / ROSEPS	H	610 long	6			

D624	M	610 X 550	1
D729	L	525X 100	6
D101 / ROSEPS	H	610 long	1

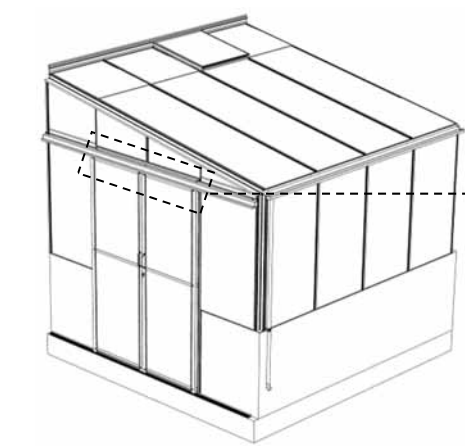
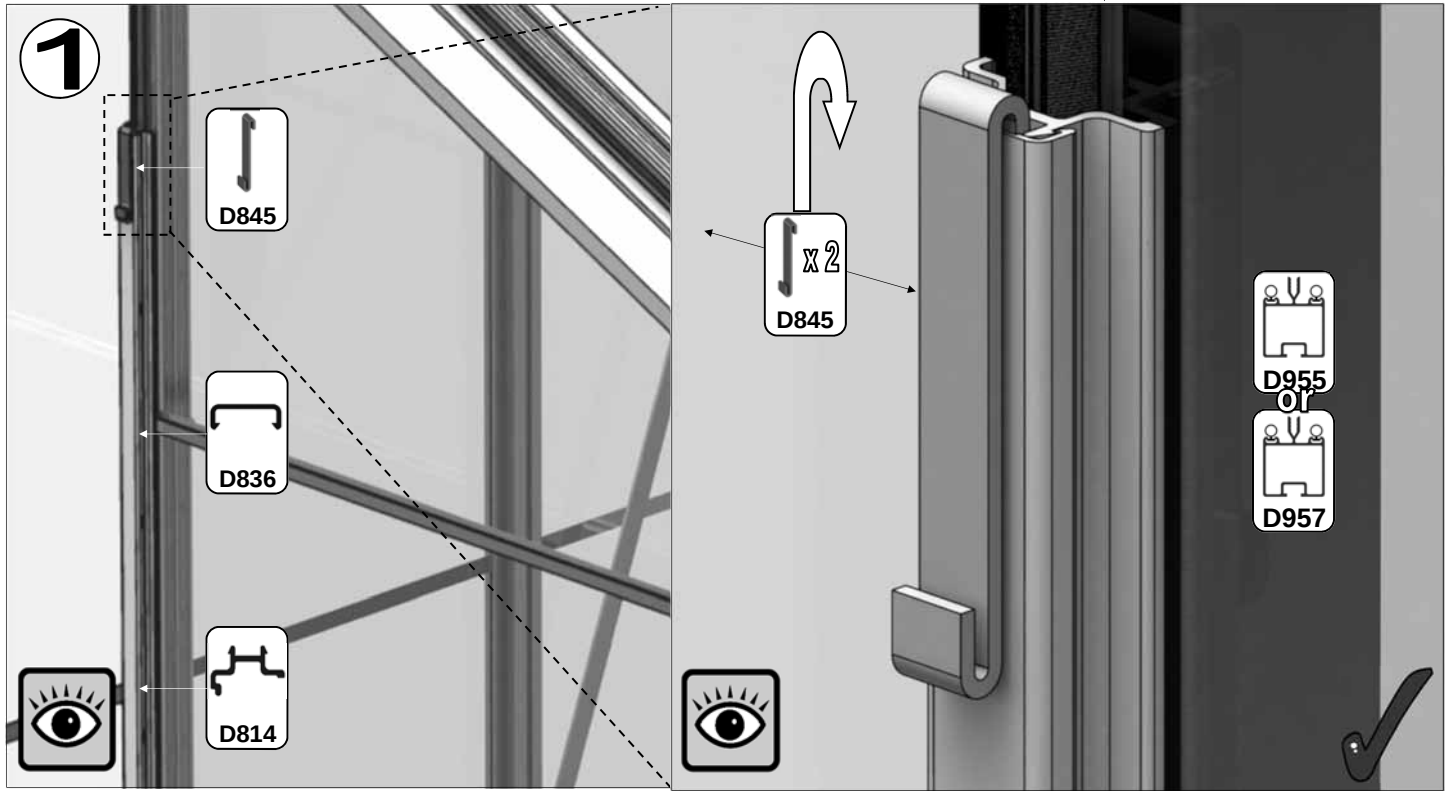
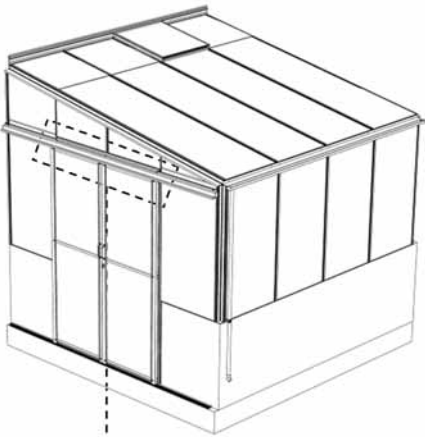




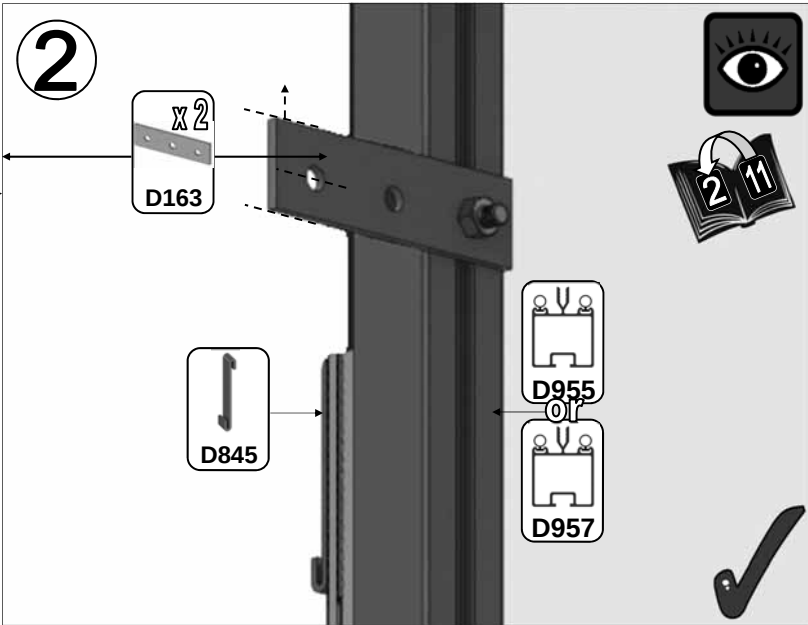


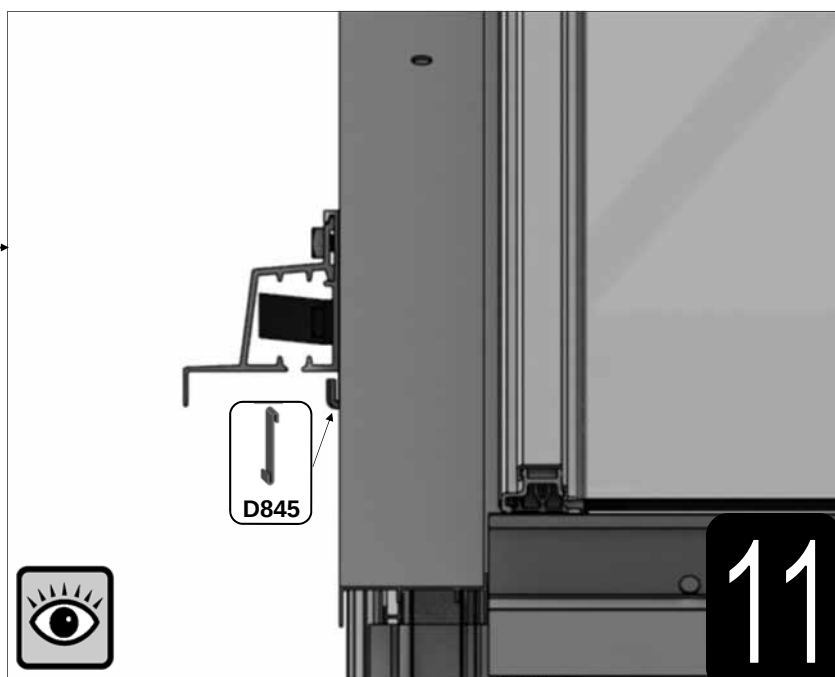
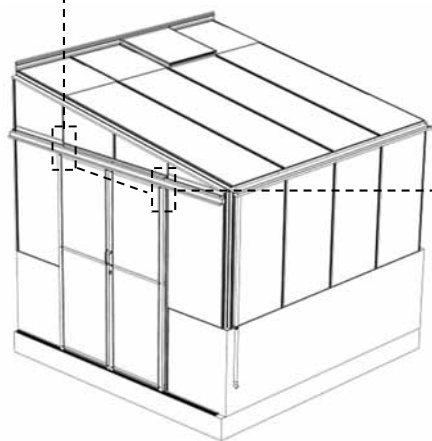
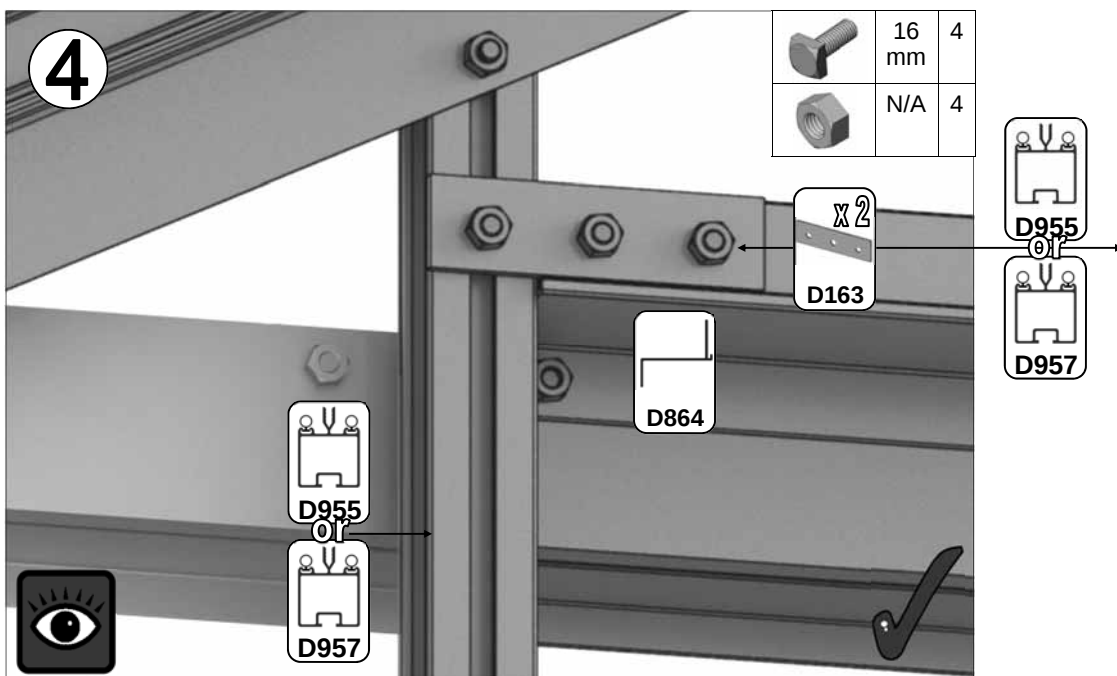
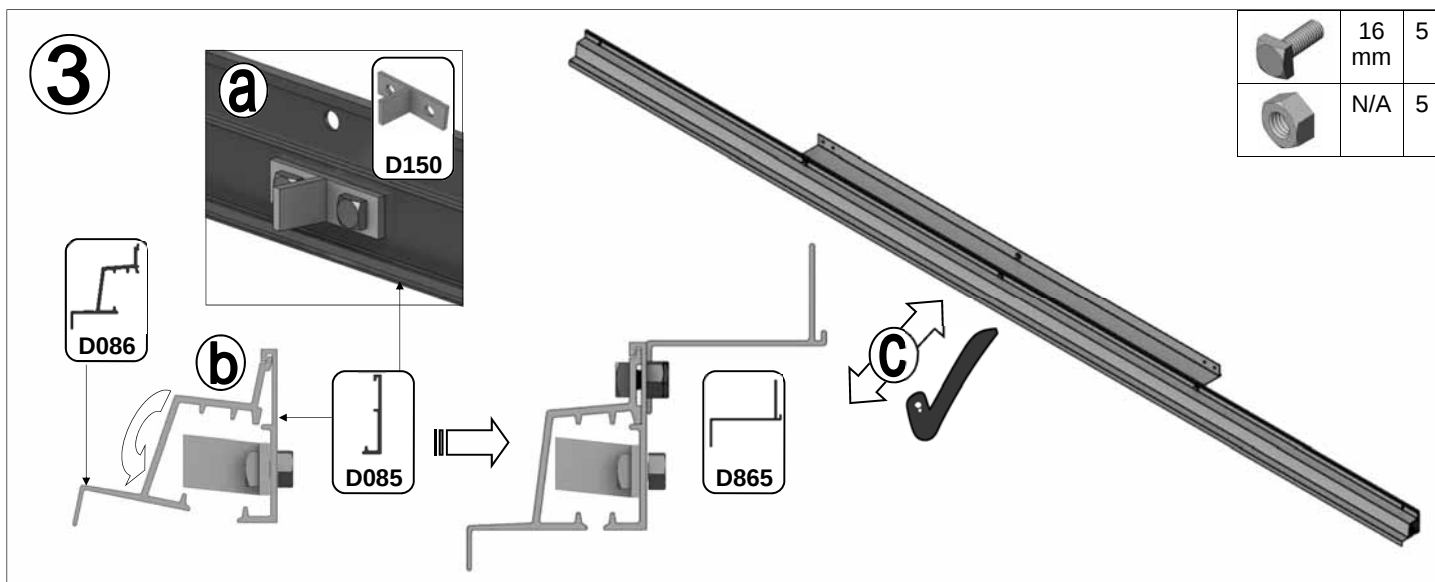
Part No		mm	Q
D865		1210	1
D086		2510	1
D085		25100	1

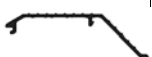
Part No		mm	Q
D150			1
D163		90	2
D845			2
BOLM6X16			11
NUT M6			11

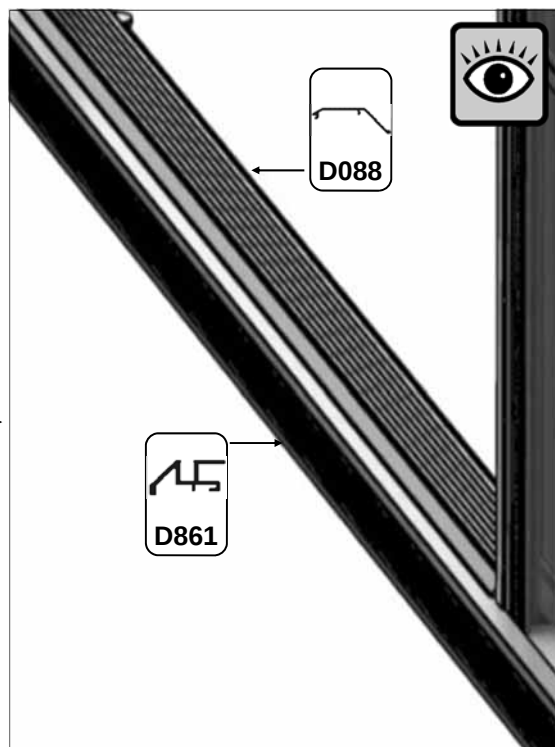
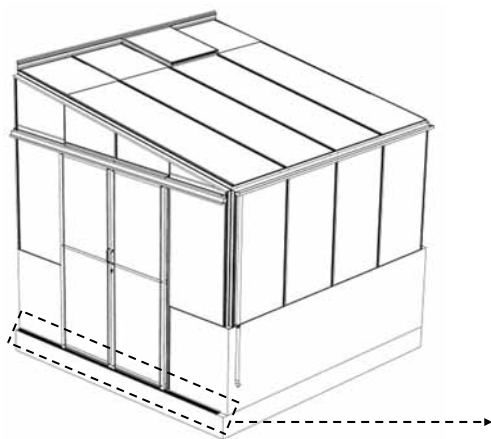


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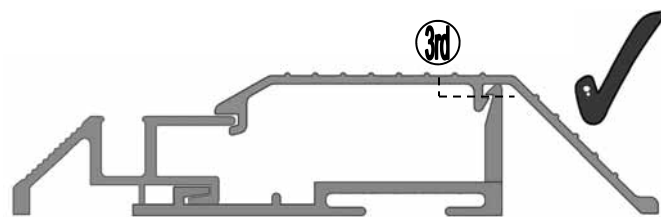
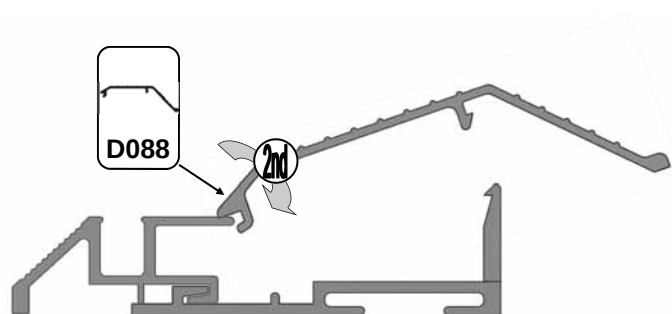
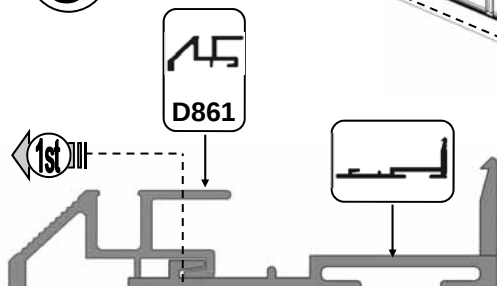




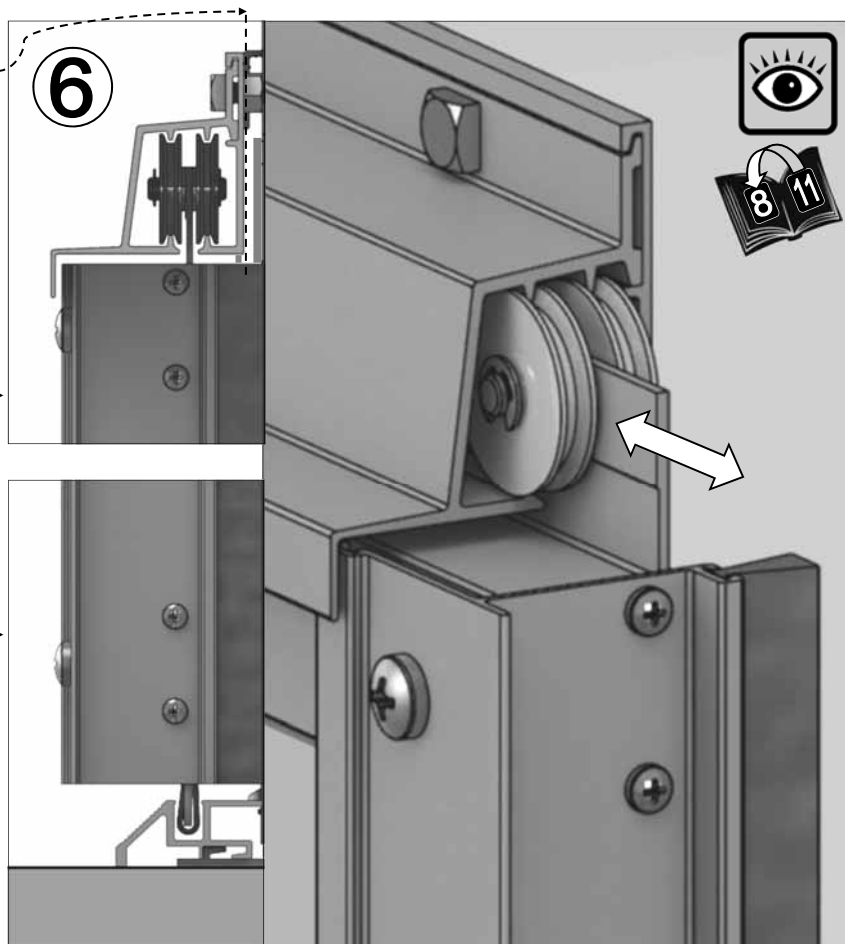
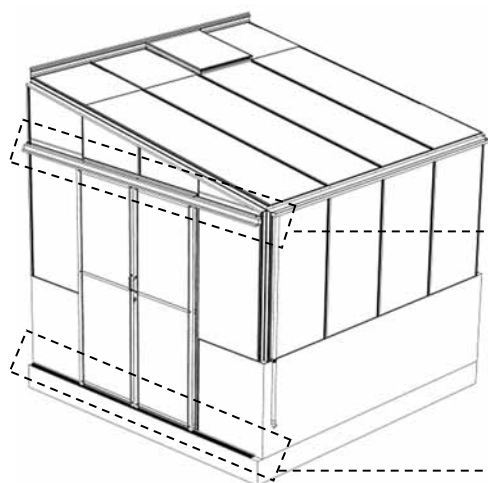
Part No		Q
D861		1
D088		1



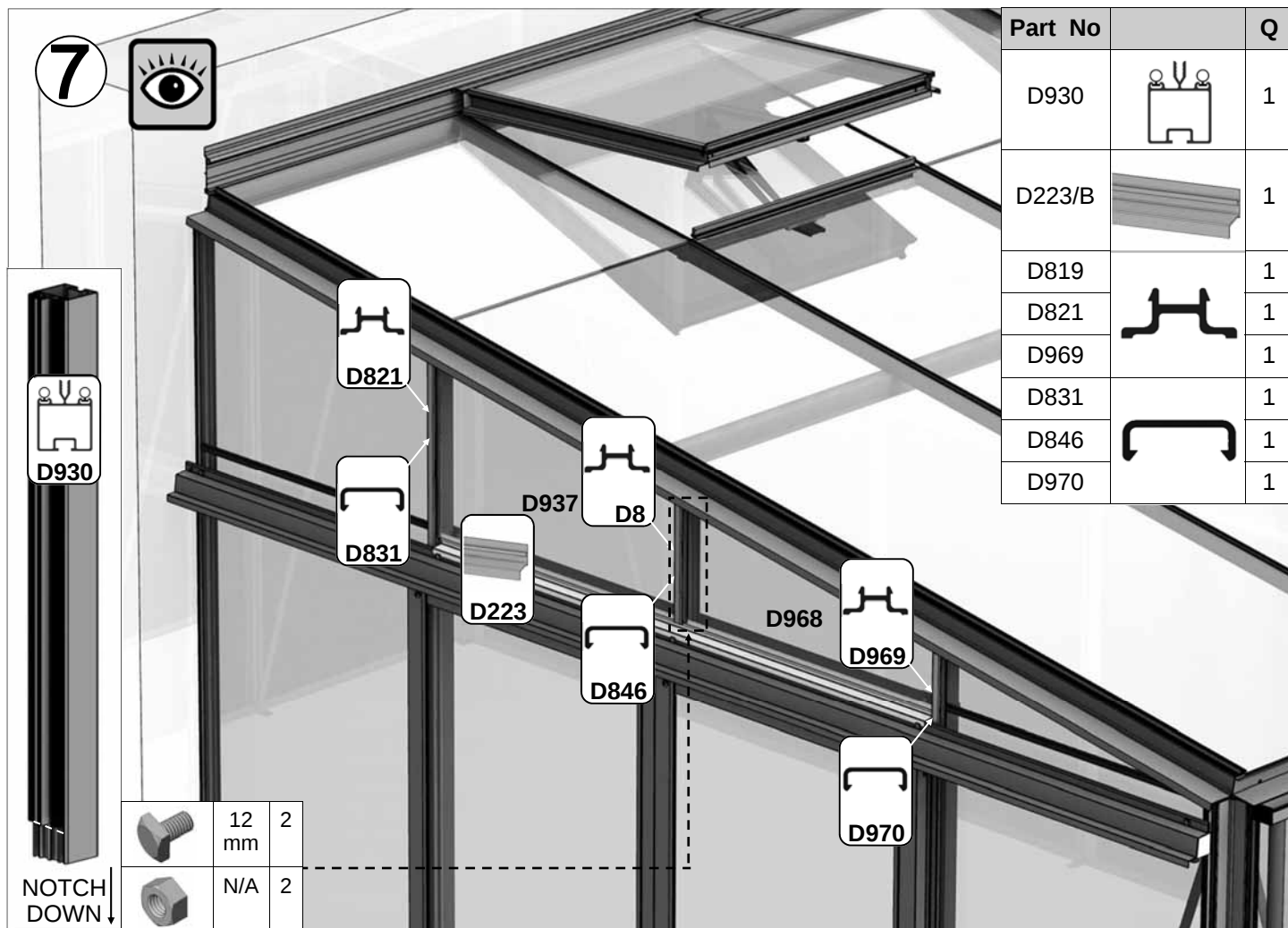
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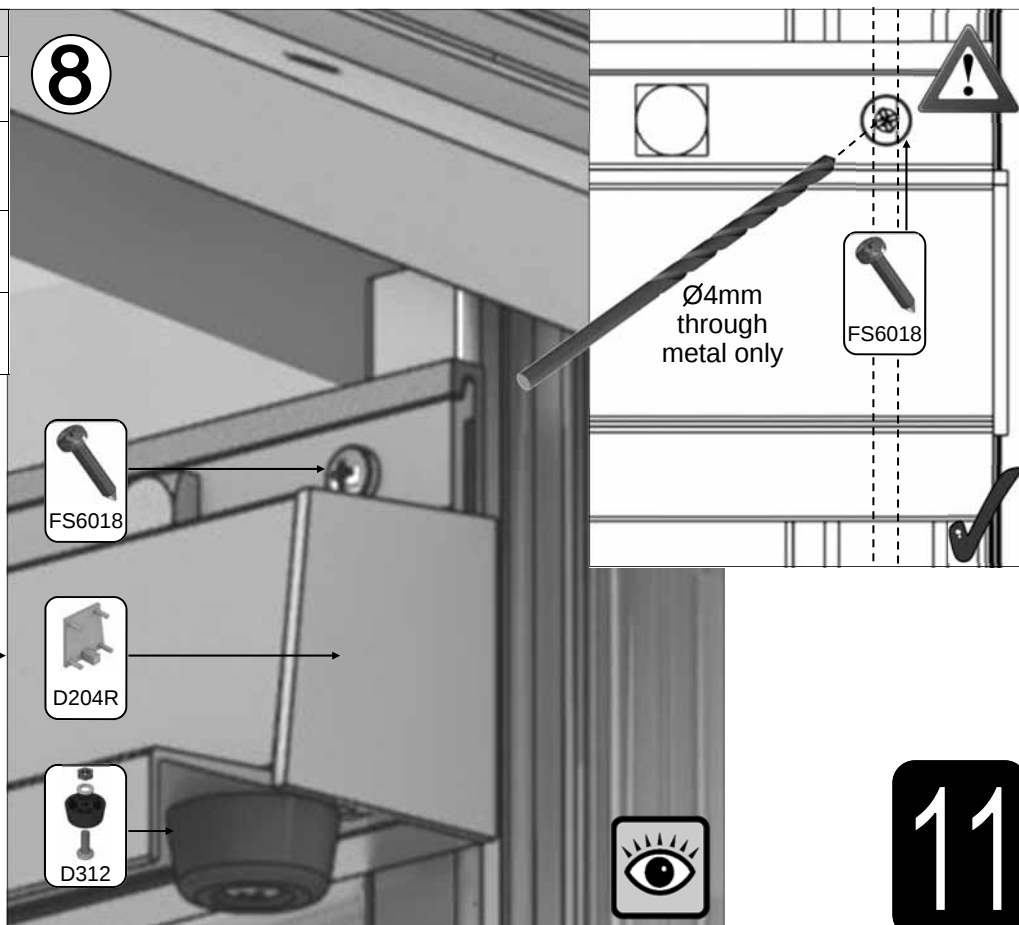
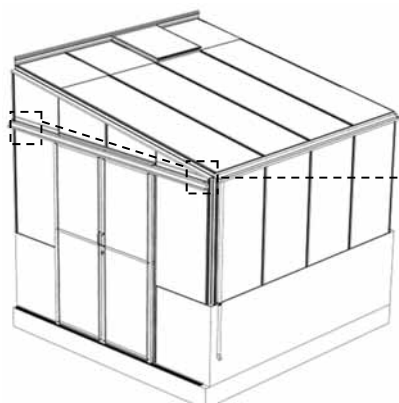
Please note that you will need to detach (three nuts and bolts) your upper door track assembly momentarily from the D864 header in order to slide on the door adjacent to the back wall.

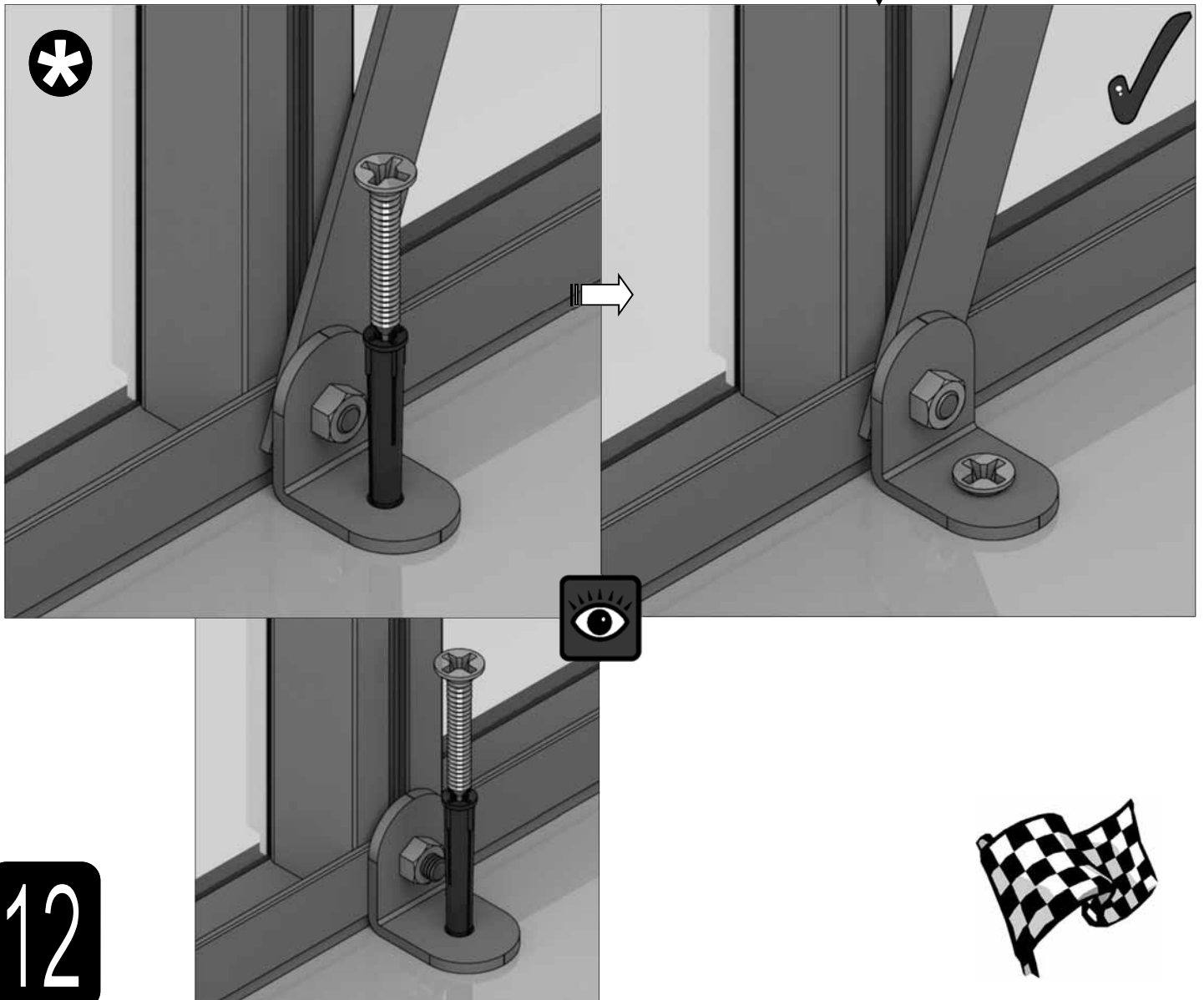
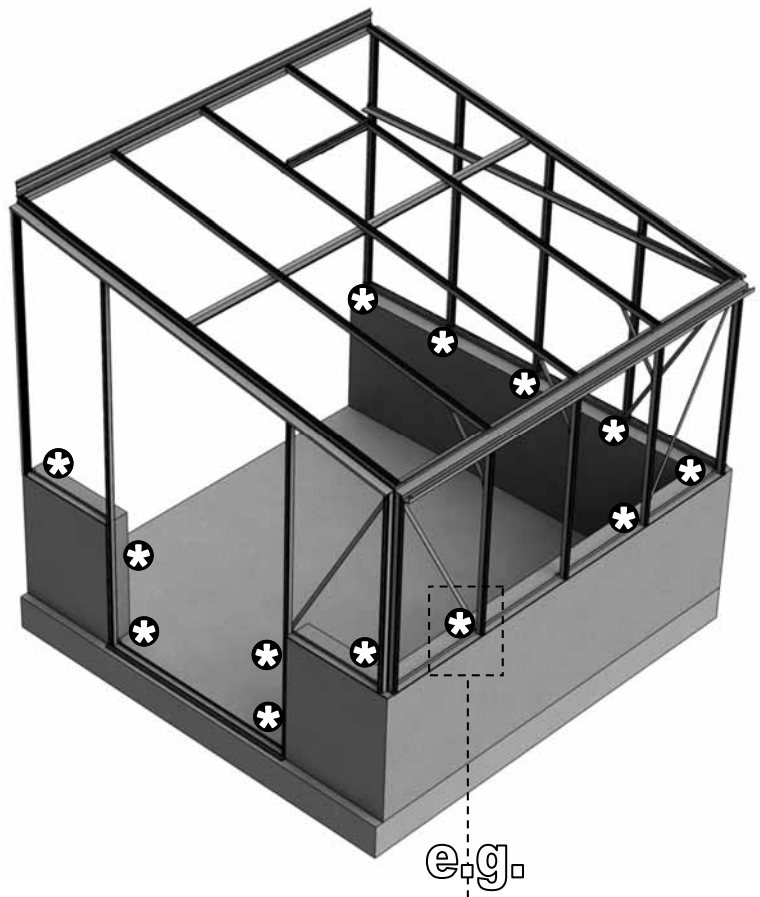
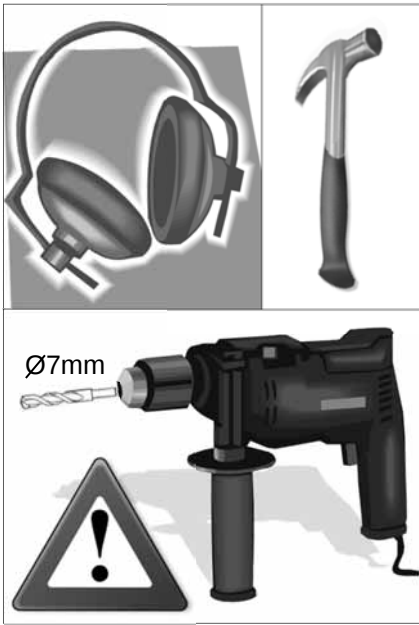


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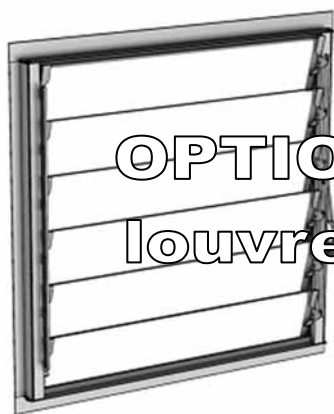


Part No		Quantity
FS6018		2
D312		2
D204L /B		1
D204R /B		1



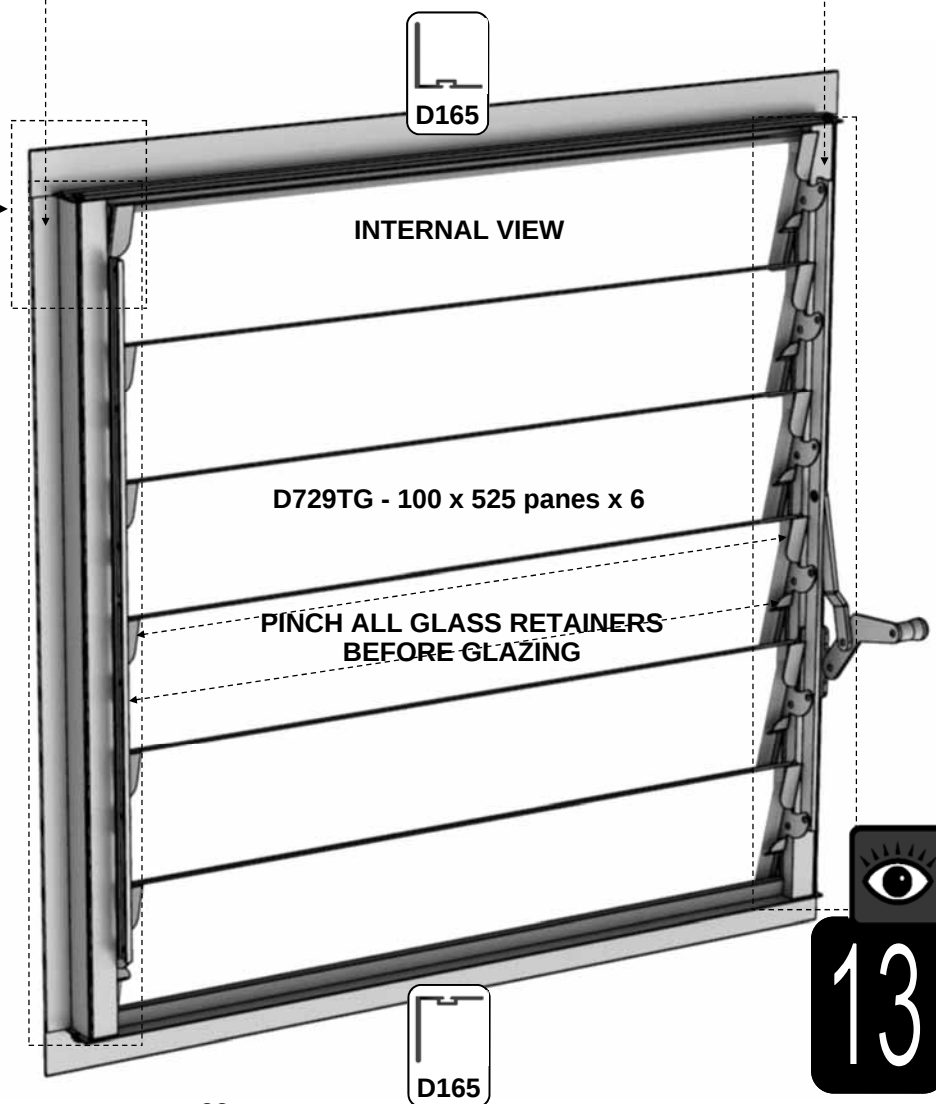
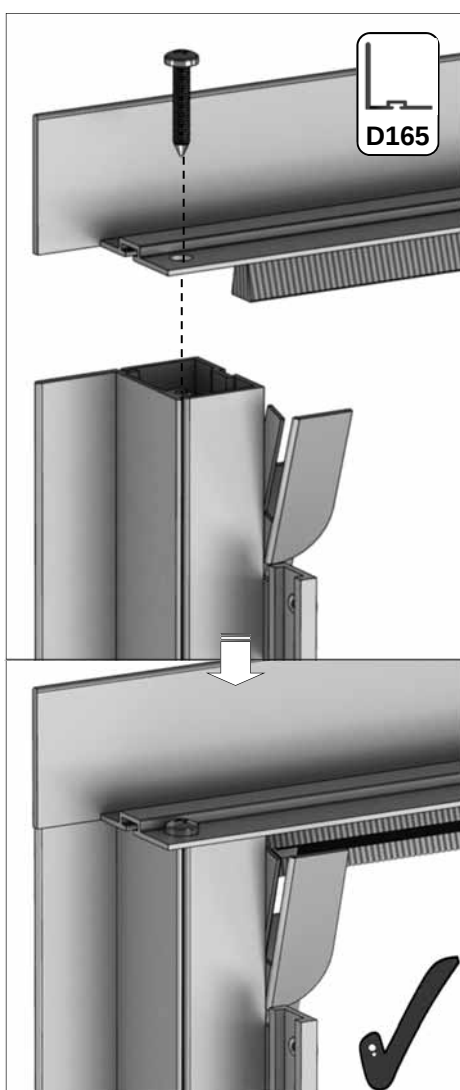
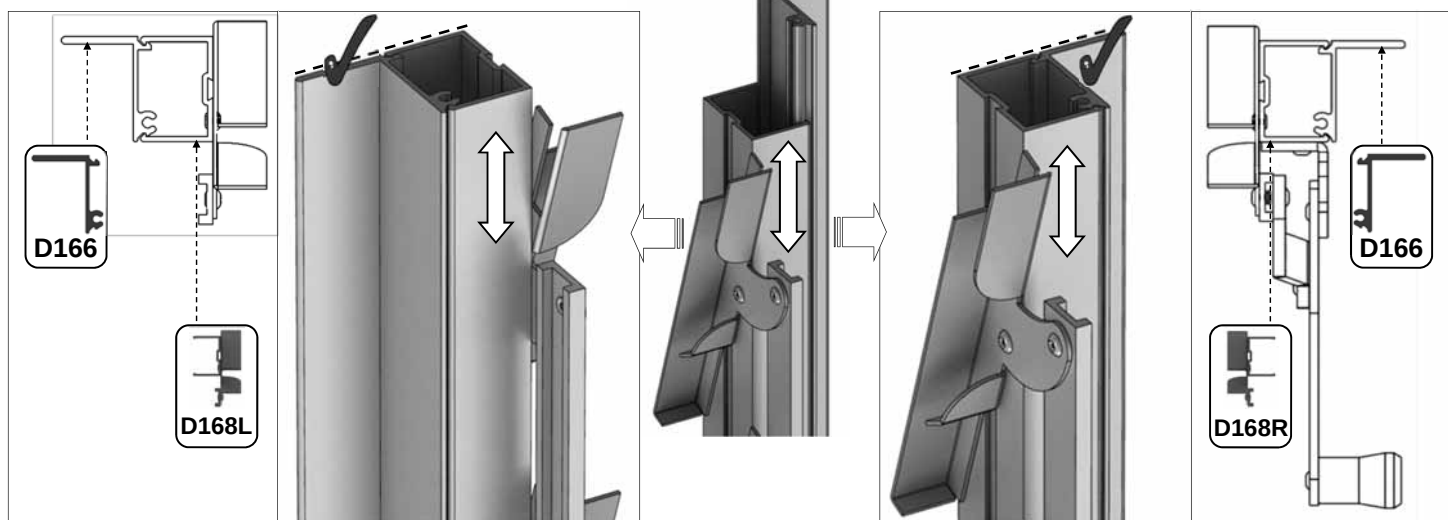


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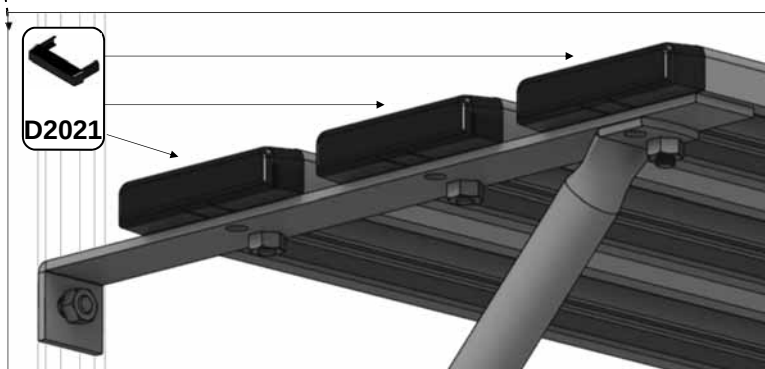
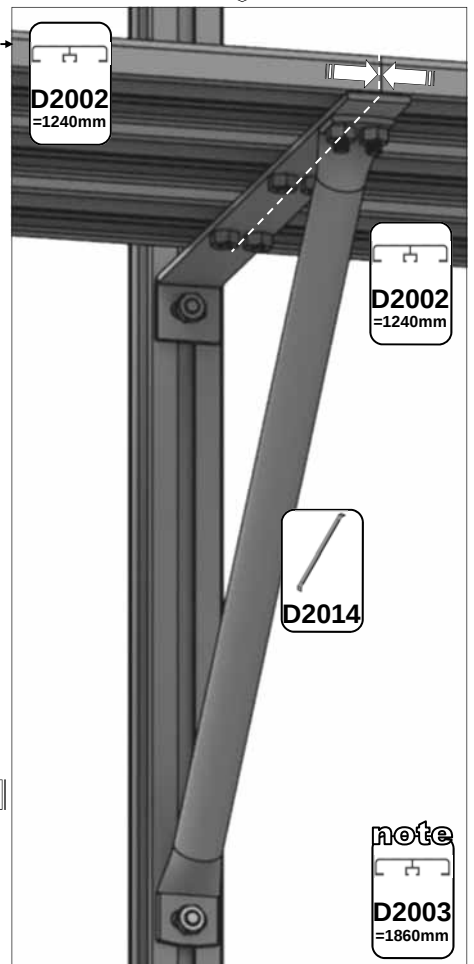
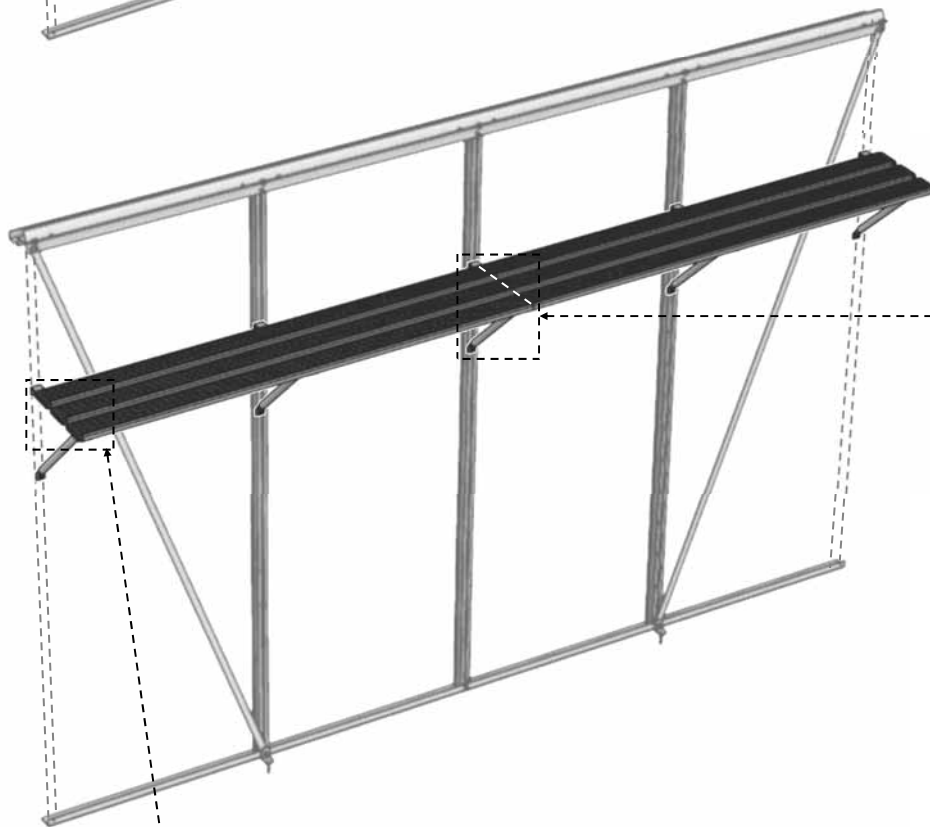
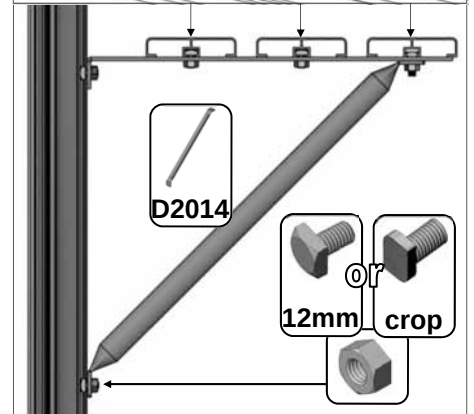
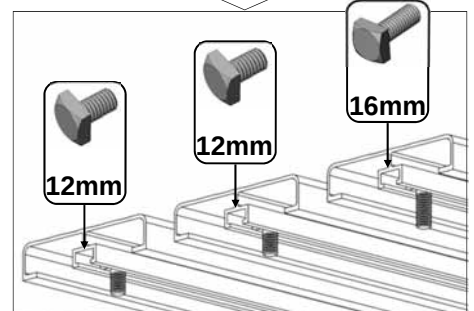
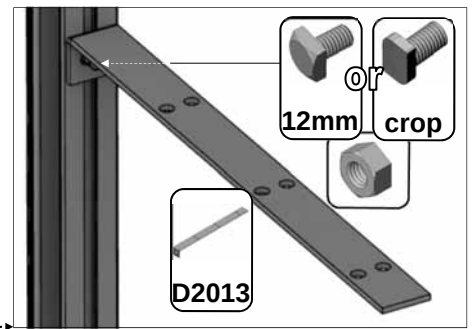
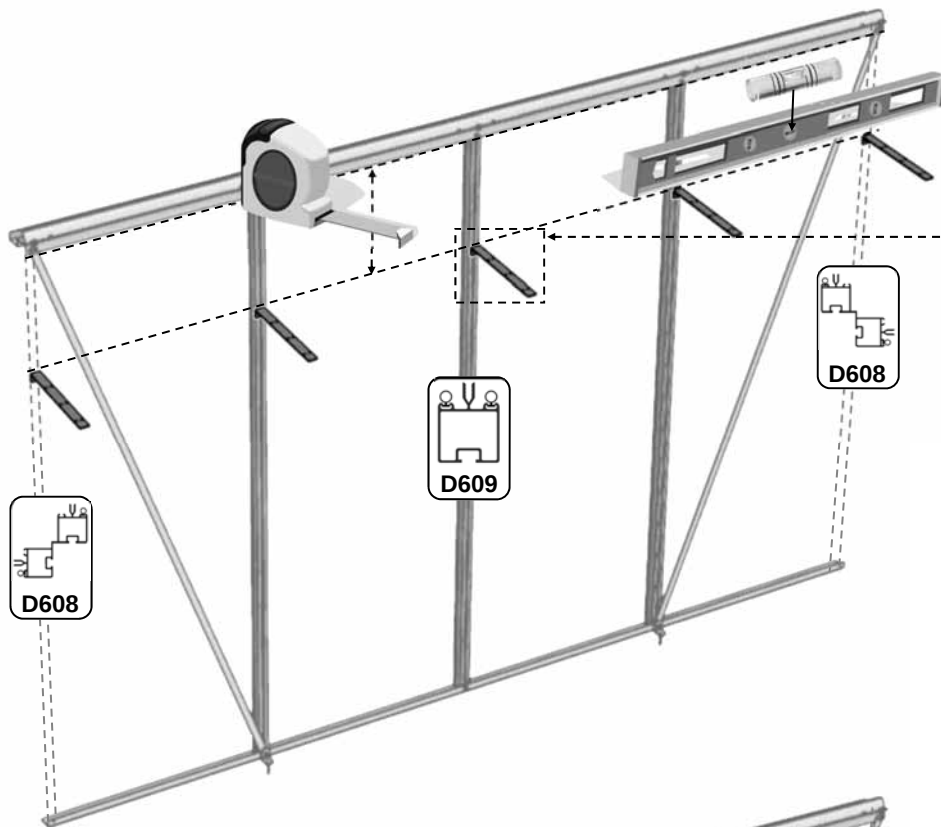


OPTIONAL
louvre = {

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

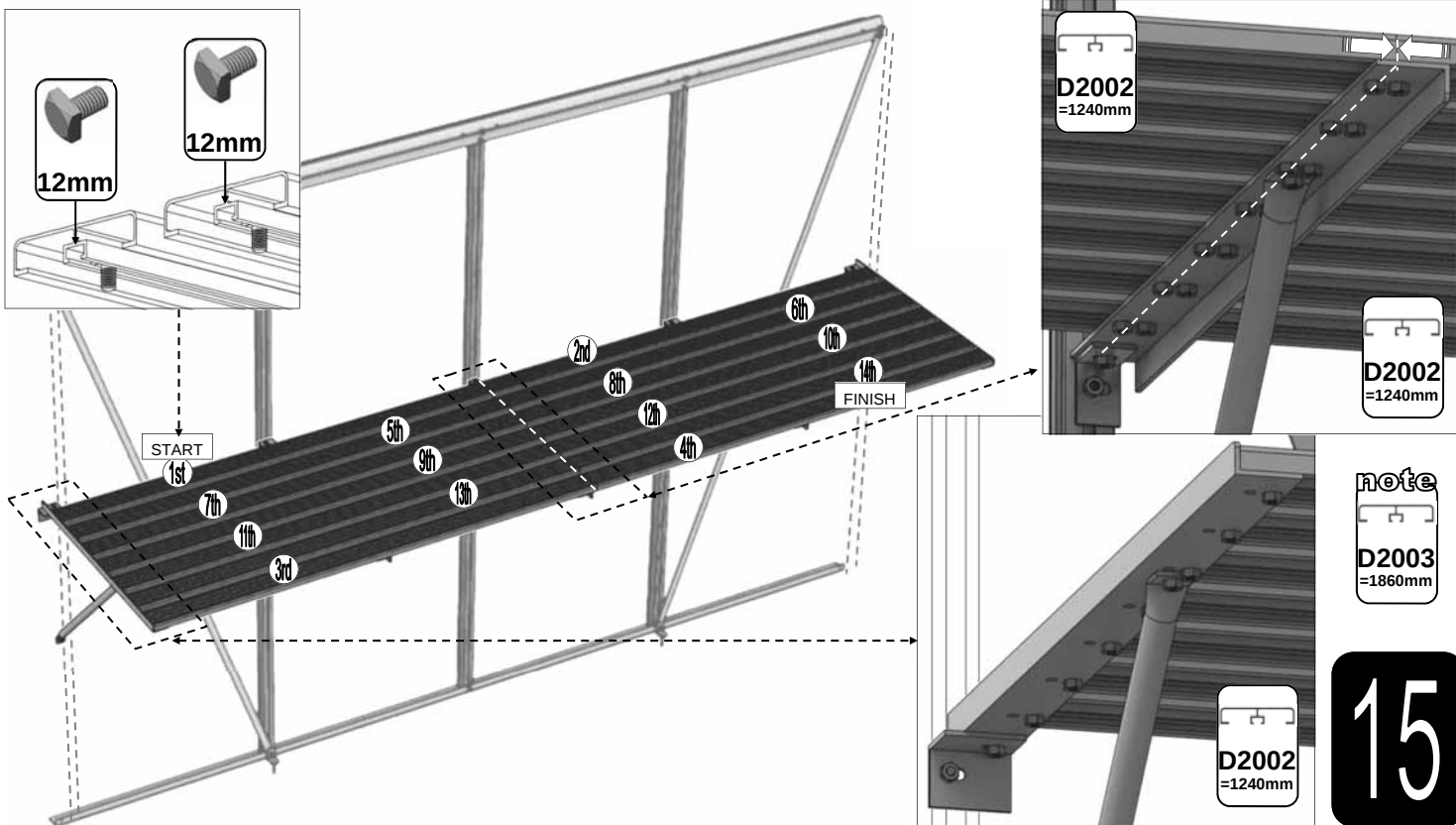
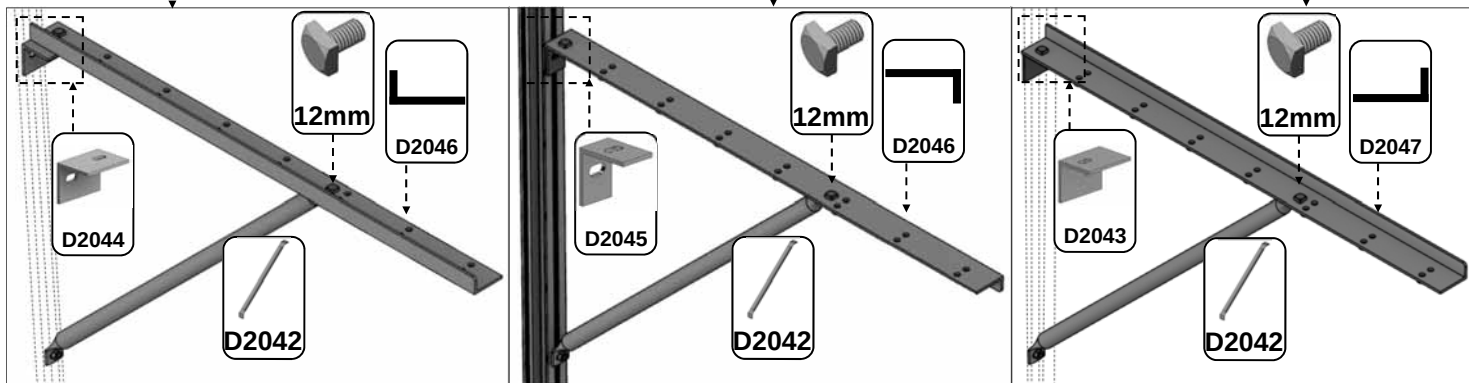
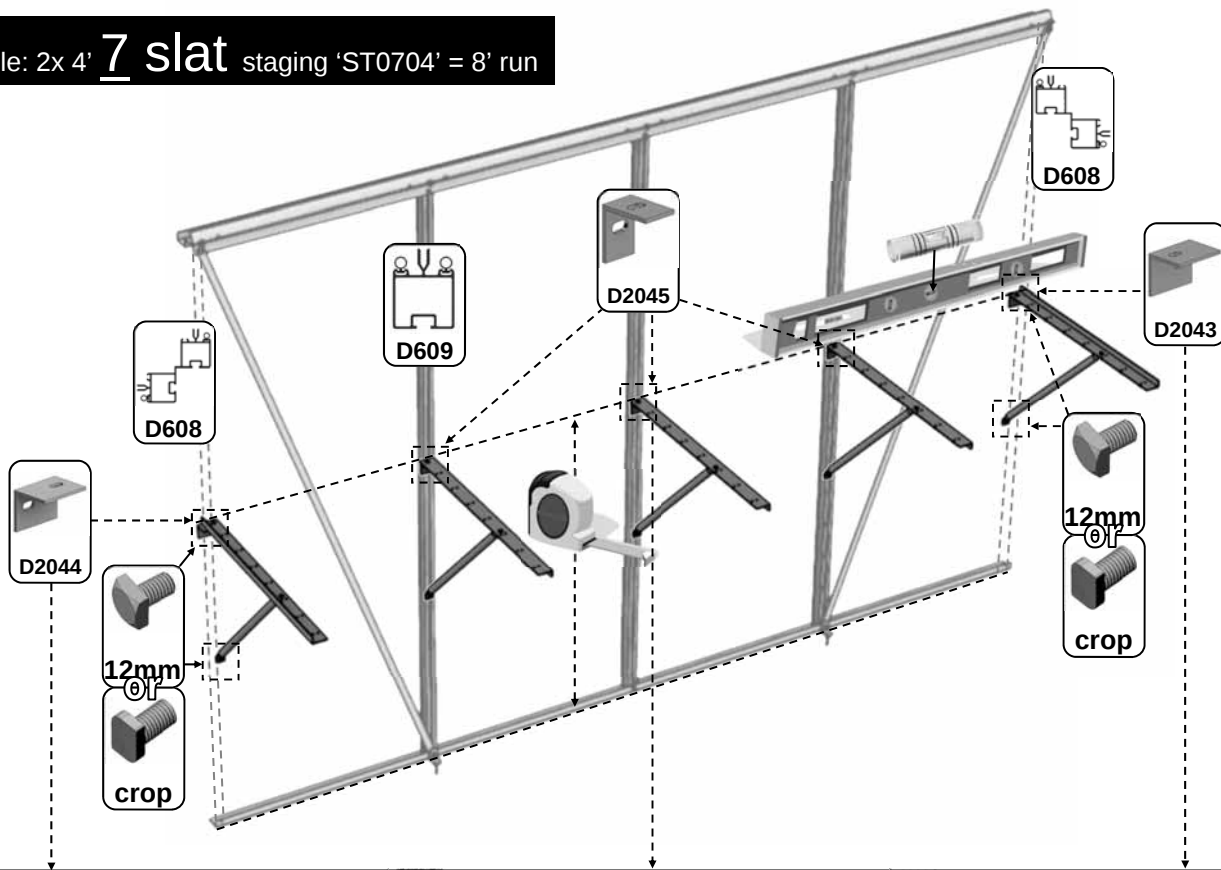


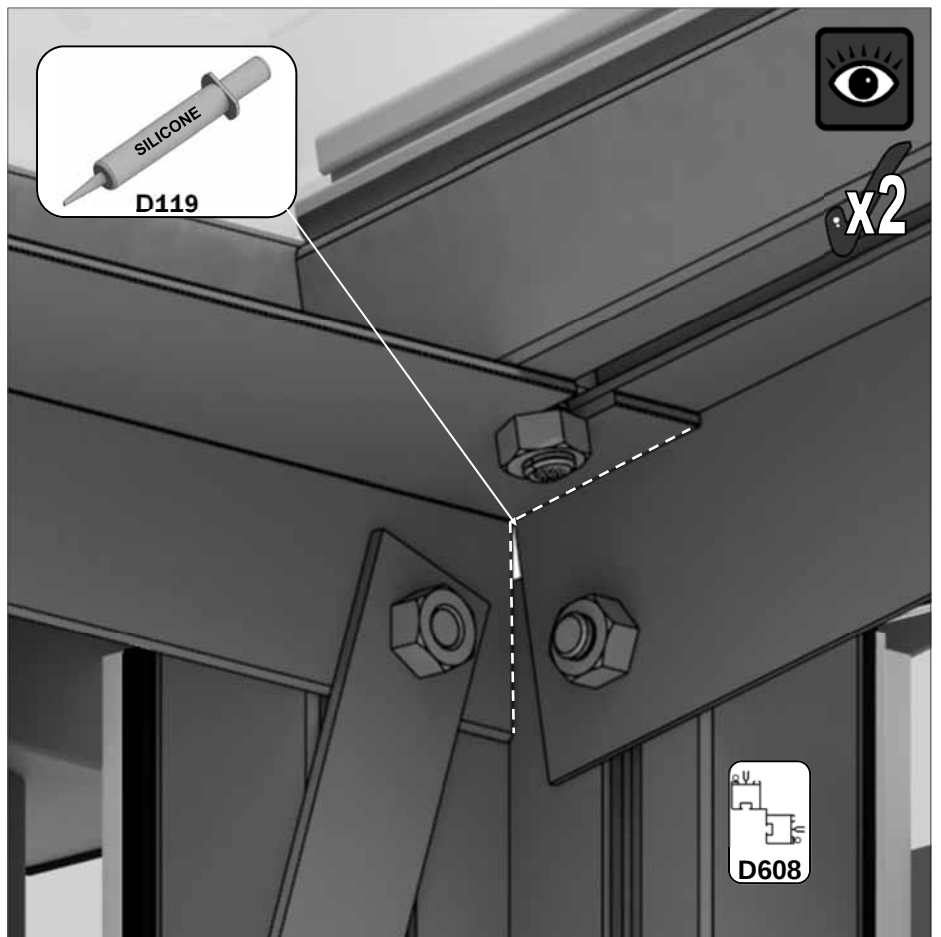
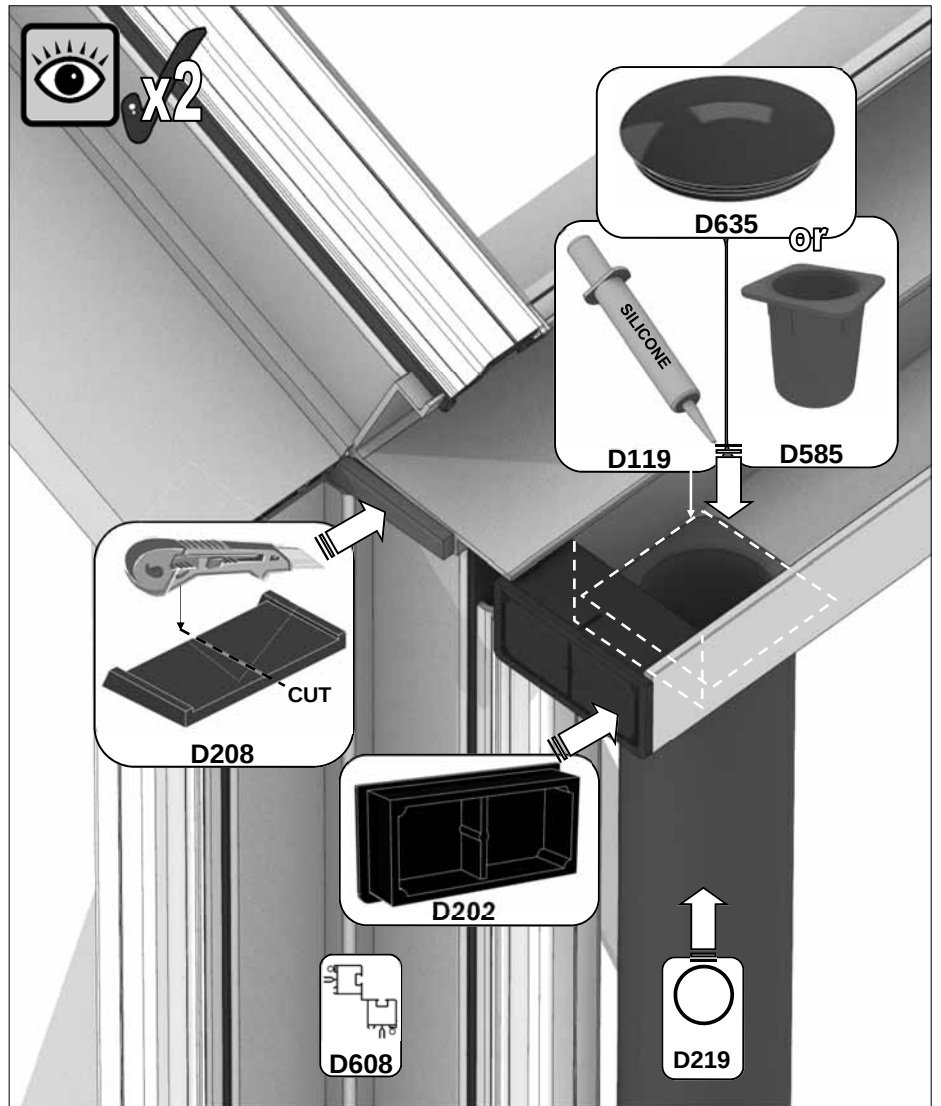
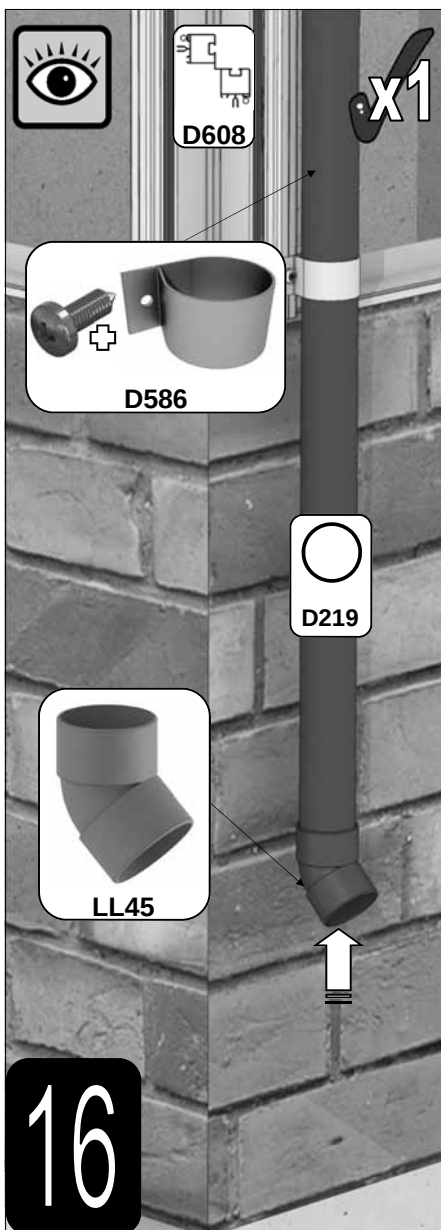
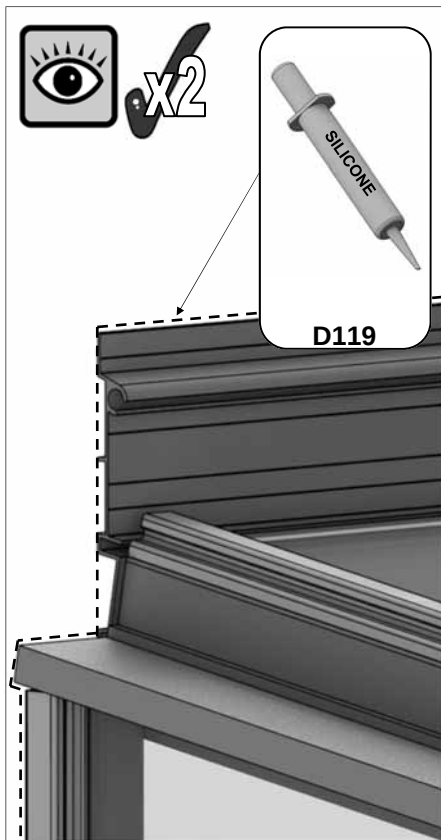
Example: 2x 4' 3 slat shelves 'ST0304' = 8' run



14

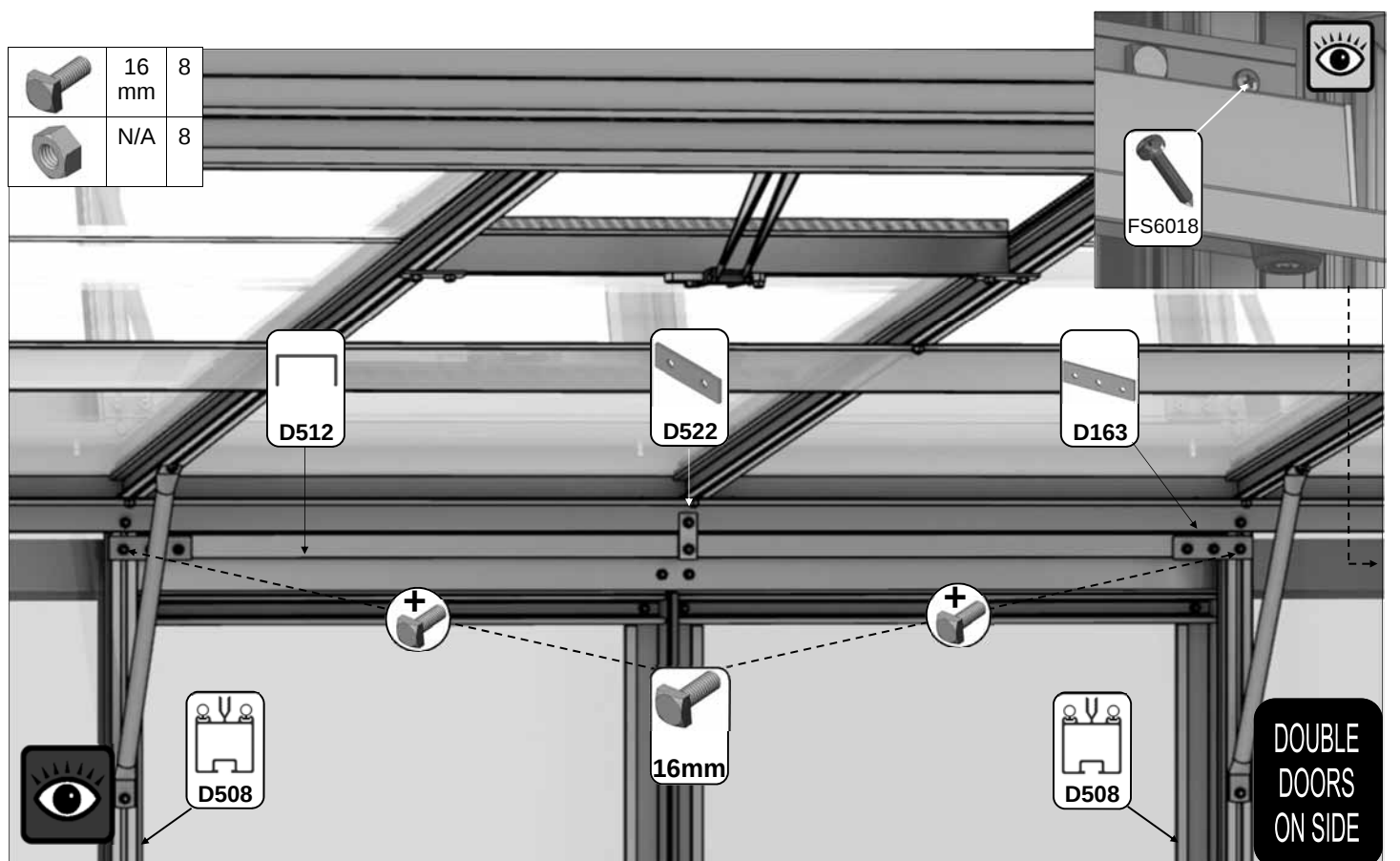
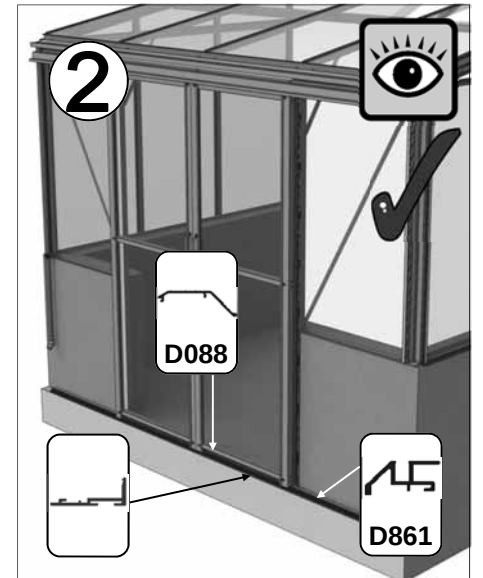
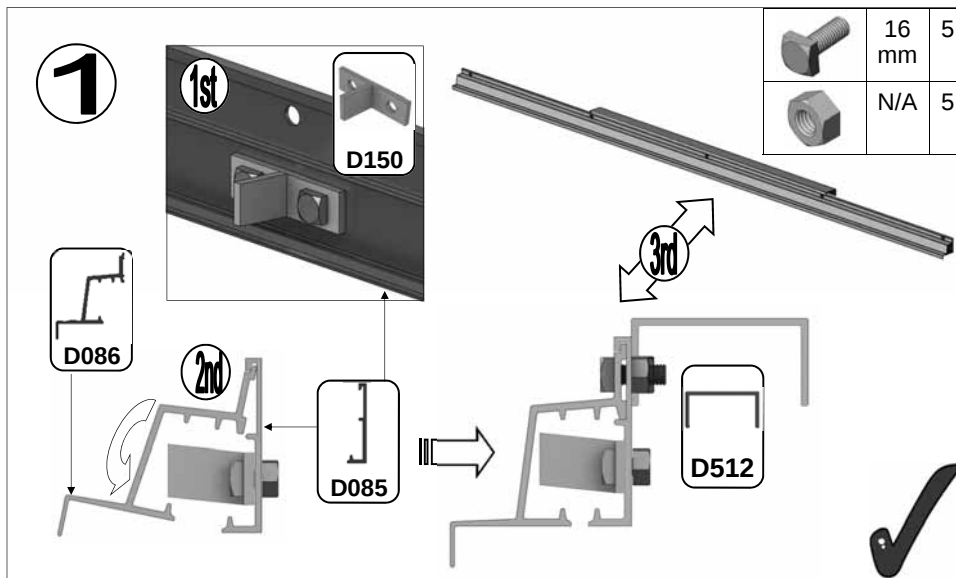
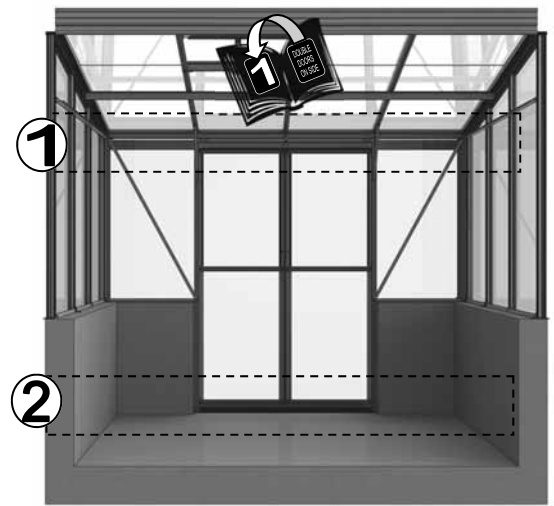
Example: 2x 4' 7 slat staging 'ST0704' = 8' run

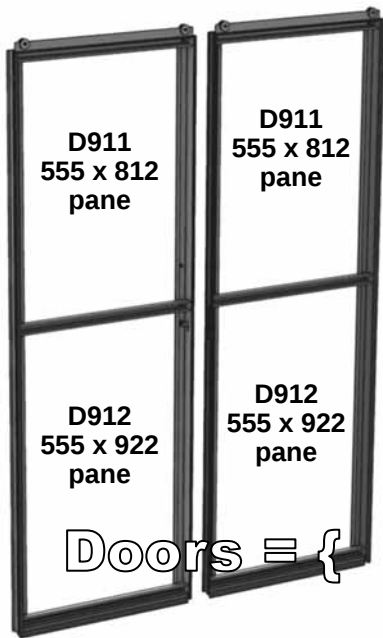




Part No		mm	Q
D512		1210	1
D086		2510	1
D085		2510	1

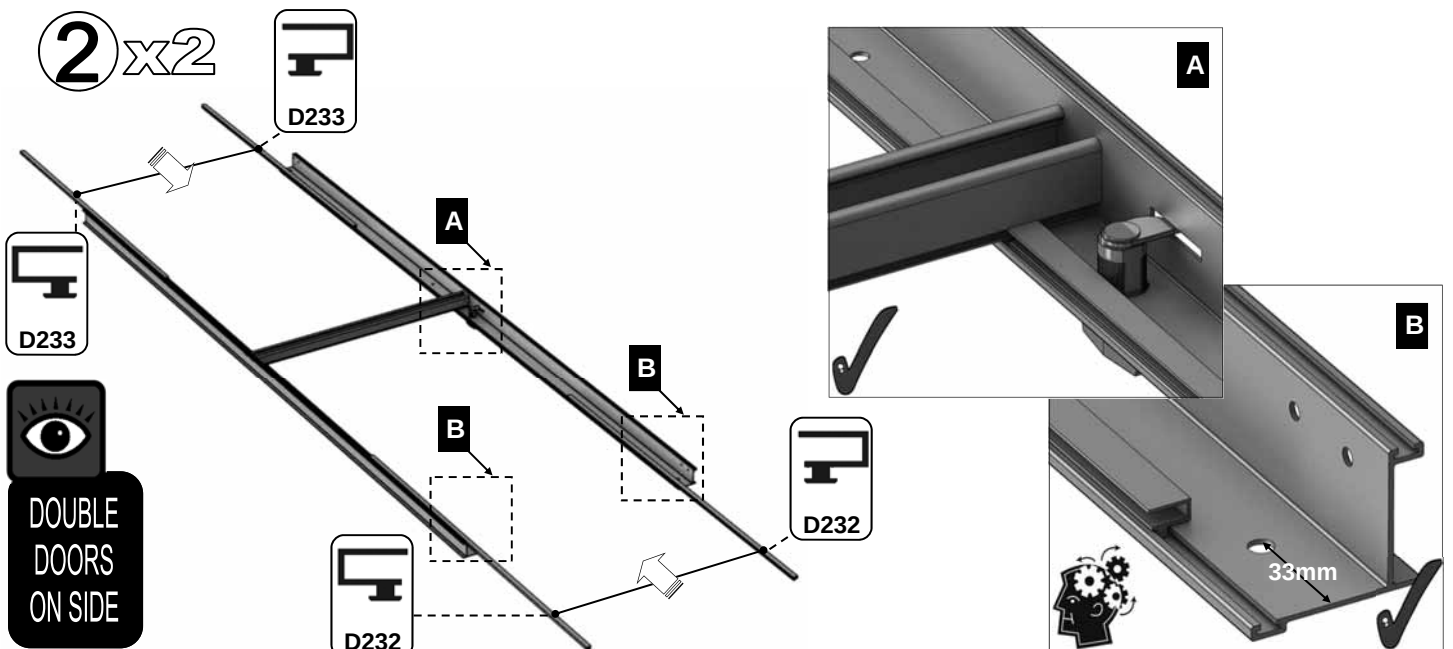
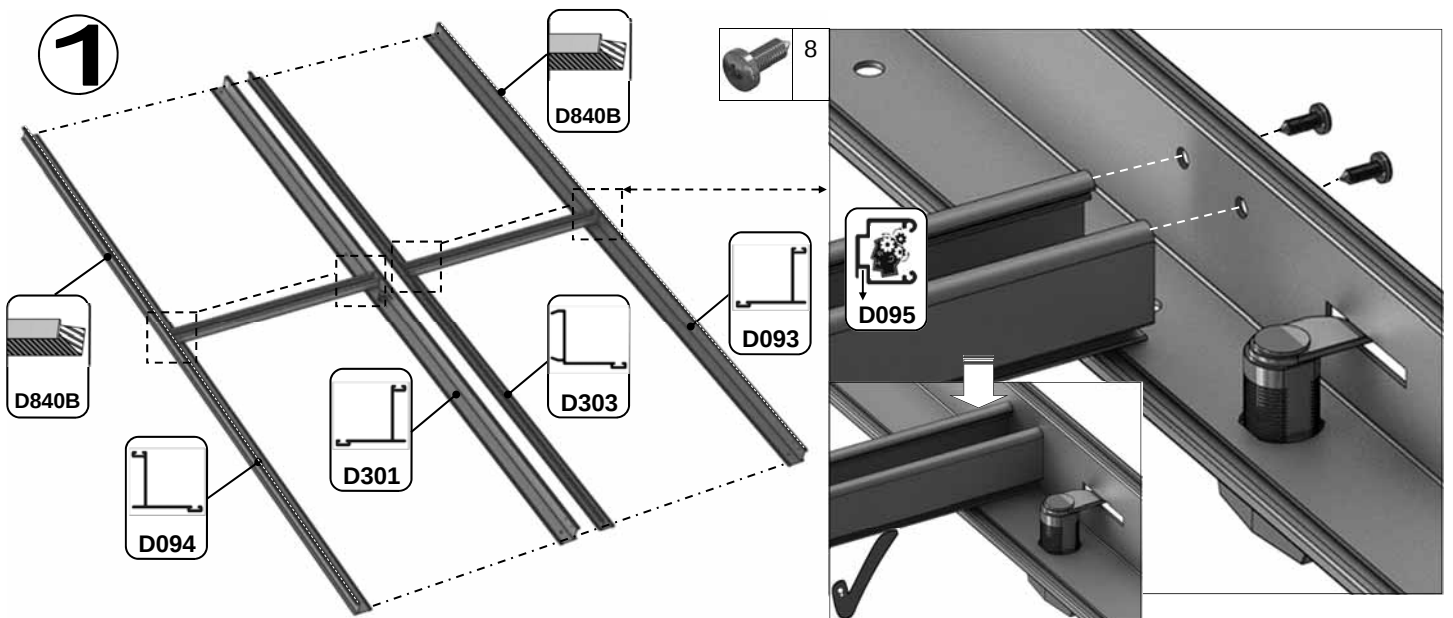
Part No		mm	Q
D522		50	1
D163		90	2
D150			1
D845			2
BOLM6X16			13
NUTM6			13

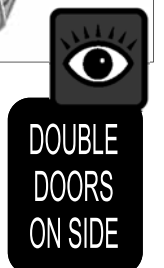
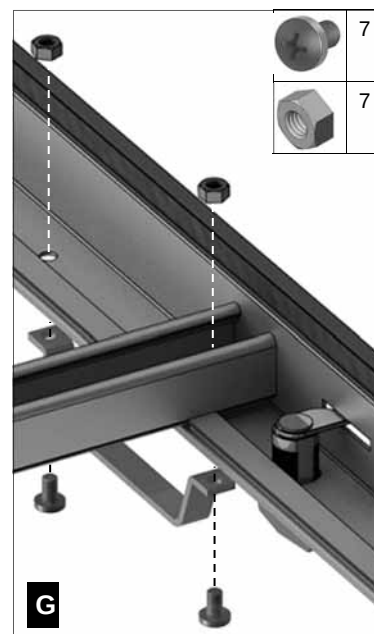
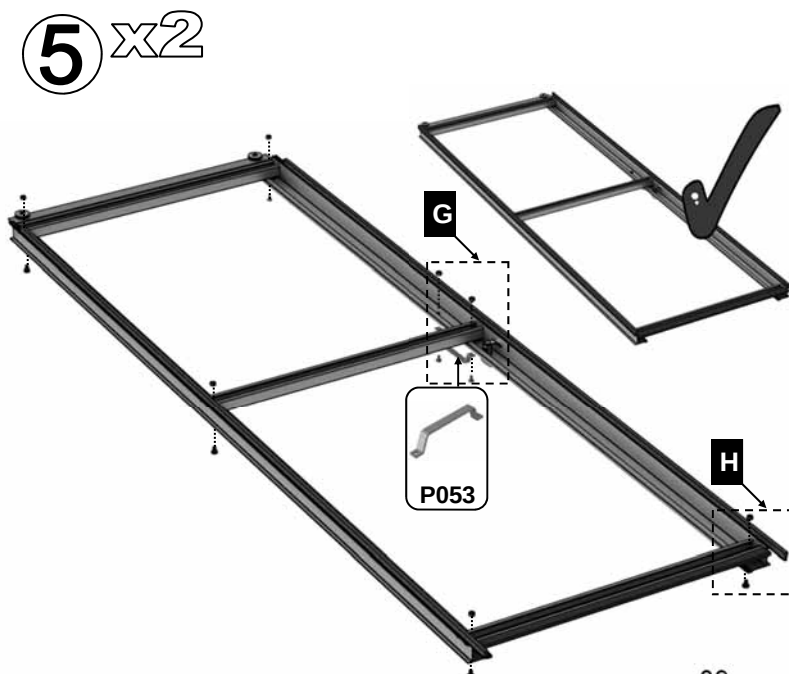
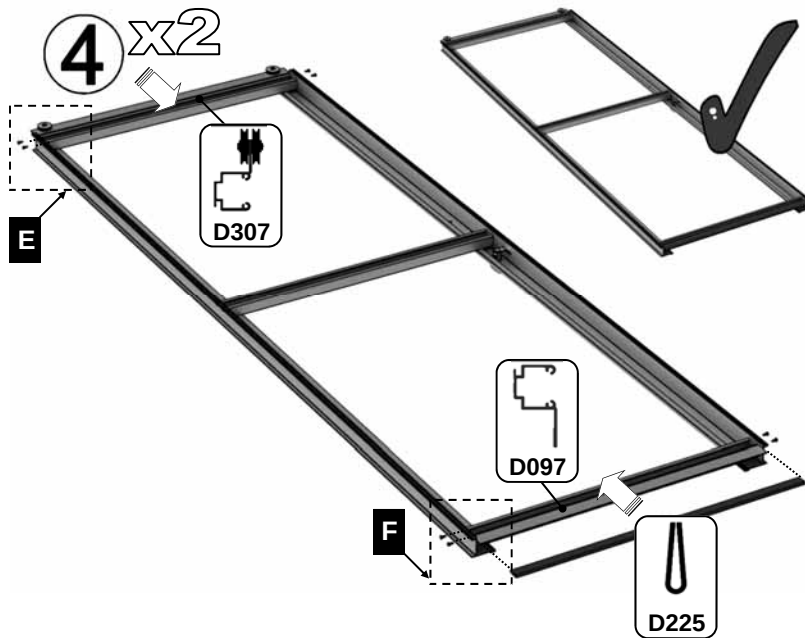
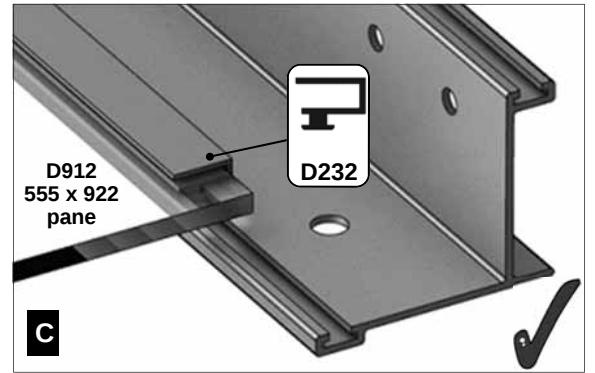
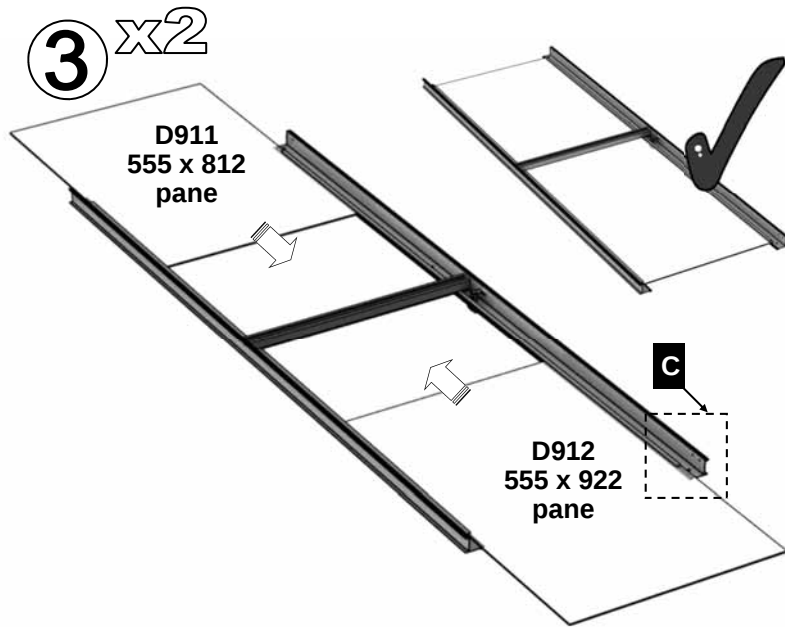




Part No		mm	Q
D094		1824	1
D090 + D347 lock = D301		1824	1
D092 + D156 strike = D303		1824	1
D093		1824	1
D096 + D217 wheel = D307		611	2
D095		611	2
D097		611	2

Part No		mm	Q
D232		905	4
D233		797	4
P053		N/A	2
D225		610	2
D840B		4000	1
D263 PACK x 2		N/A	14
		N/A	14
D261 PACK		N/A	24





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

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

THIS GREENHOUSE BOX WAS PACKED BY:

DATE: _____



www.robinsonsgreenhouses.co.uk

To contact Robinsons Customer Services email us at sales@robinsonsgreenhouses.co.uk or call us on 01782 385 409.

Our address is Robinsons Greenhouses, Unit 19 Blythe Park, Cresswell, Stoke-on-Trent, Staffordshire, ST11 9RD