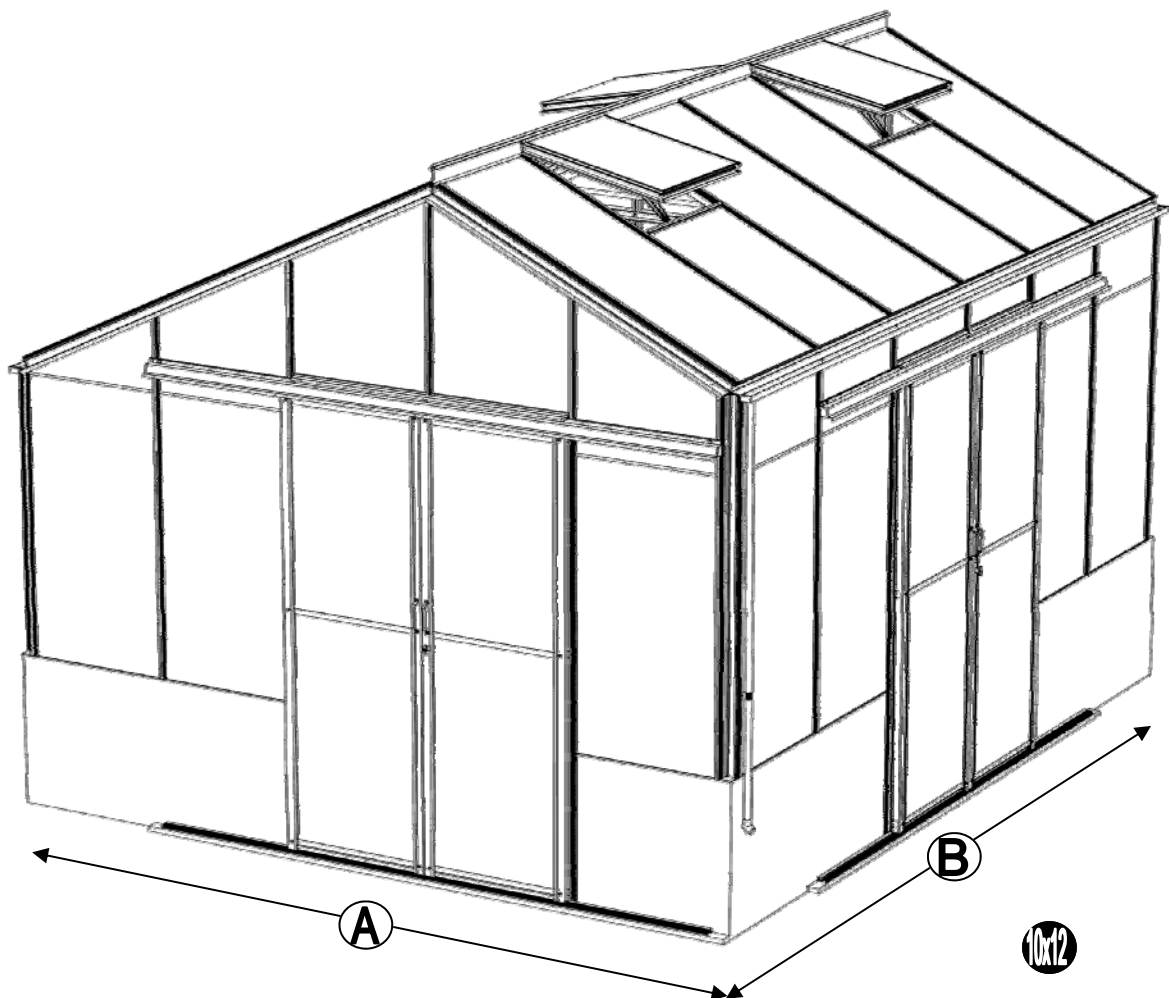


Redoubtable DWARF Assembly Instructions



NOMINAL SIZE	A (mm)	B (mm)
10 X 6	3210	1990
10 x 8		2610
10 x 10		3230
10 x 12		3850

NOMINAL SIZE	A (mm)	B (mm)
6ft extension	-	1860
8ft extension		2480
10ft extension		3100
12ft extension		3720



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, **1a / 1b**-sides, **2**-front gable, **3**-rear, **4**-joining the four sides together, **5**-roof, **6**-vent, **7**-door, **8**-glazing, **9**-vent attachment, **10**-door attachment, **11** anchoring down, **12** optional louvre, **13** optional shelf, **14** optional staging, **15** finishing touches, **Double doors in high side**. 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

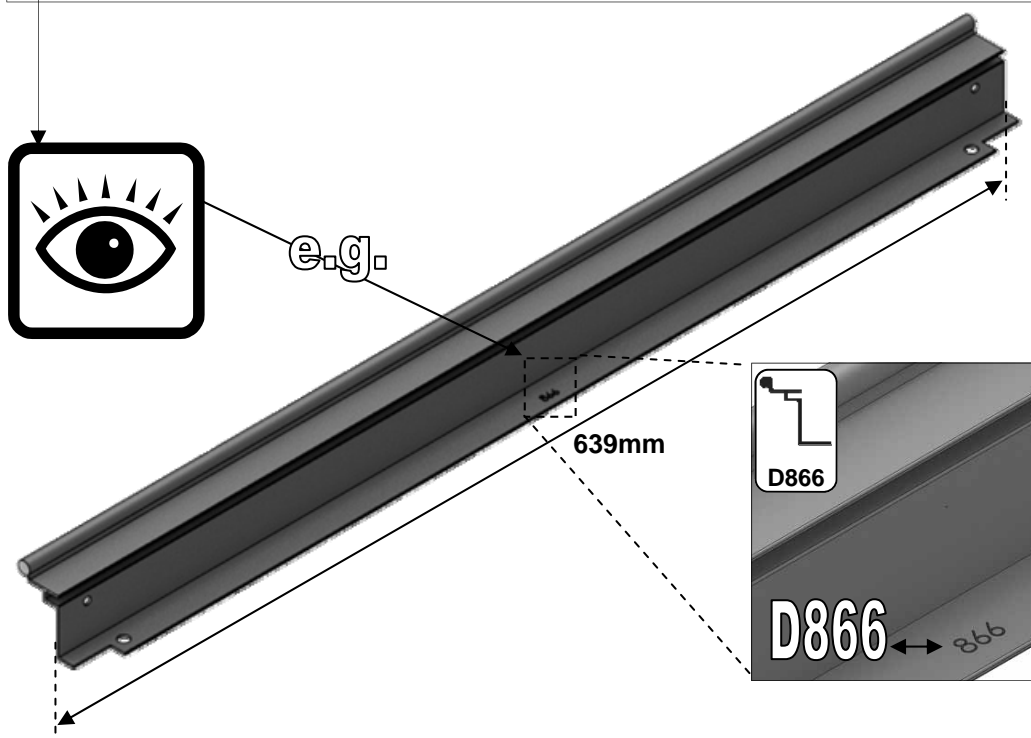
- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- **IMPORTANT:** Do **not** fix your building down until the building is fully assembled, including 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. Some parts are numbered and can be identified by a stamped or hand written number (without the 'D'). Alternatively, 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.











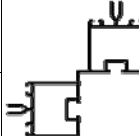


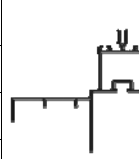



KEY SYMBOL	KEY DESCRIPTION
	EXTERNAL VIEW
	INTERNAL VIEW
	THINK
	THIS SECTION RELATES TO ANOTHER (e.g. 1 to 5)
	CORRECT
	DO NOT FIX DOWN!
	TWIST TO LOCK
	TIGHTEN
	PUSH AND HOLD
	CUT TO LENGTH

SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
B P 1a 1b 2 3 4 5 6a 6b 7 8 9 10 11 12 13 14 15	PARTS LIST	Most components should have a 'D' code punched into their metal surface. Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections 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. <u>IMPORTANT:</u> Use WD40 or similar in the glazing bar channels and insert the black glazing rubber prior to frame assembly.
	LOW AND HIGH SIDES	Take the side glazing bars with the rubber inserted and the diagonal braces and 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 notice how one side is taller than the other (1a < 1b) and that the taller side has a different profile cill enabling a door to be added.
	FRONT GABLE	Again ensuring that the gable framework is rubbered-up follow the diagrams to assemble each end of the building. The gable ends of this model can be built so that the roof can be orientated in two different way please choose the appropriate component layouts for your requirements. Make sure that you have inserted the extra bolts utilised in sections 4, 5 and 10. 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 GABLE	
	JOINING THE FOUR SIDES	Take the low and high sides (1a/1b) and both gables (2 & 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.
	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. Some tubular braces are supplied to add extra strength, they can be fitted now or later with crop head bolts.
	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 (9).
	DOOR/S	Construct the doors and then leave to one side ready for attachment in section (10).
	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. 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. A top tip is to not attach the door post capping (D814/D836) until you have fitted the door runner and threshold (10) to give you more room to manoeuvre. 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, On occasion a hacksaw may be required to make minor adjustments to the length of the capping / covers.
	VENT ATTACHMENT	Take the assembled vent and slide the vent hinge 'D866' into the end of the ridge allowing the vent the pivot open and closed. Vent stops go either side of the vent to stop any lateral movement (so insert stop / vent / stop). Attachment of the Bayliss XL autovents.
	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 (8) like a piece of glass with a black separator above and below them.
	OPTIONAL SHELVEING	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 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; ridge caps, downpipe fittings, eave bungs. Images showing cresting and finial attachment, this is often easiest to do after section (5) rather than using the vent apertures later on (i.e. before glazing).


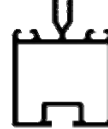


Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
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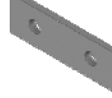


Redoubtable DWARF

1	D043		1894	2			
	D021		2514		2		
	D022		3134			2	
	D023		3754				2
	D042		1897	2			
	D014		2517		2		
	D015		3137			2	
	D016		3757				2
	D604		1316	2			
	D779		1586	2			
	D601		1460	2	3	4	5
	D609		1160	2	3	4	5
	RUBBER		1000 (1m)	11	16	22	27
	D174		N/A	4	4	8	8

2 + 3	D050		3130	1			
	D600		1270	1			
	D605		689	1?			
	D606		1309	1?			
	D676		1160	2			
	D677		1460	2			
	D608		1160	2			
	D778		1460	2			
	D601		1460	2			
	D603		1756	2			
	D629		2356	2			
	D679		2052	1			
	D918		3130	1			
	D604		1318	2			
	D779		1586	2			
	D035L		2082	1			
	D035R		2082	1			
	D852L		1395	1			
	D852R		1395	1			
	D111		N/A	2			
	RUBBER		1000 (1m)	47			
	D174		N/A	11			

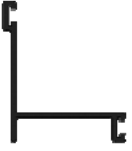


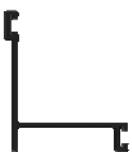

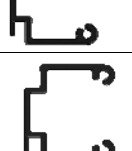
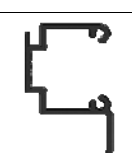
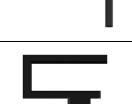


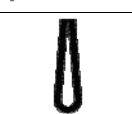

Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
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5	D044		1897	1			
	D001		2517		1		
	D002		3137			1	
	D003		3757				1
	D033		2082	2	3	4	5
	D064		1395	2	3	4	5
	D126		445	0	2	4	6
	D128		1015	0	1	2	2
	RUBBER		1000 (1m)	14	21	28	35

6	D866		639	1	2	3	4
	D863L		613	1	2	3	4
	D863R		613	1	2	3	4
	D862		593	1	2	3	4
	D079 PLUS FLUFF		590	1	2	3	4
	D114		N/A	2	4	6	8
	D220 PLUS FS6060 SCREW		N/A	2	4	6	8
	D205		N/A	2	4	6	8





Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
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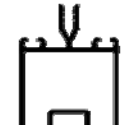
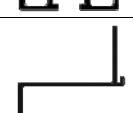

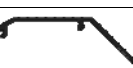



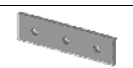

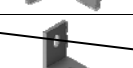
7	D090 + D347 lock = D301		1824	1
	D092 + D156 strike = D303		1824	1
	D093		1824	1
	D094		1824	1
	D096 + D217 wheel = D307		611	2
	D095		611	2
	D097		611	2
	D232		905	4
	D233		797	4
	P053		N/A	2
	D225		610	2
	D840B		4000	1

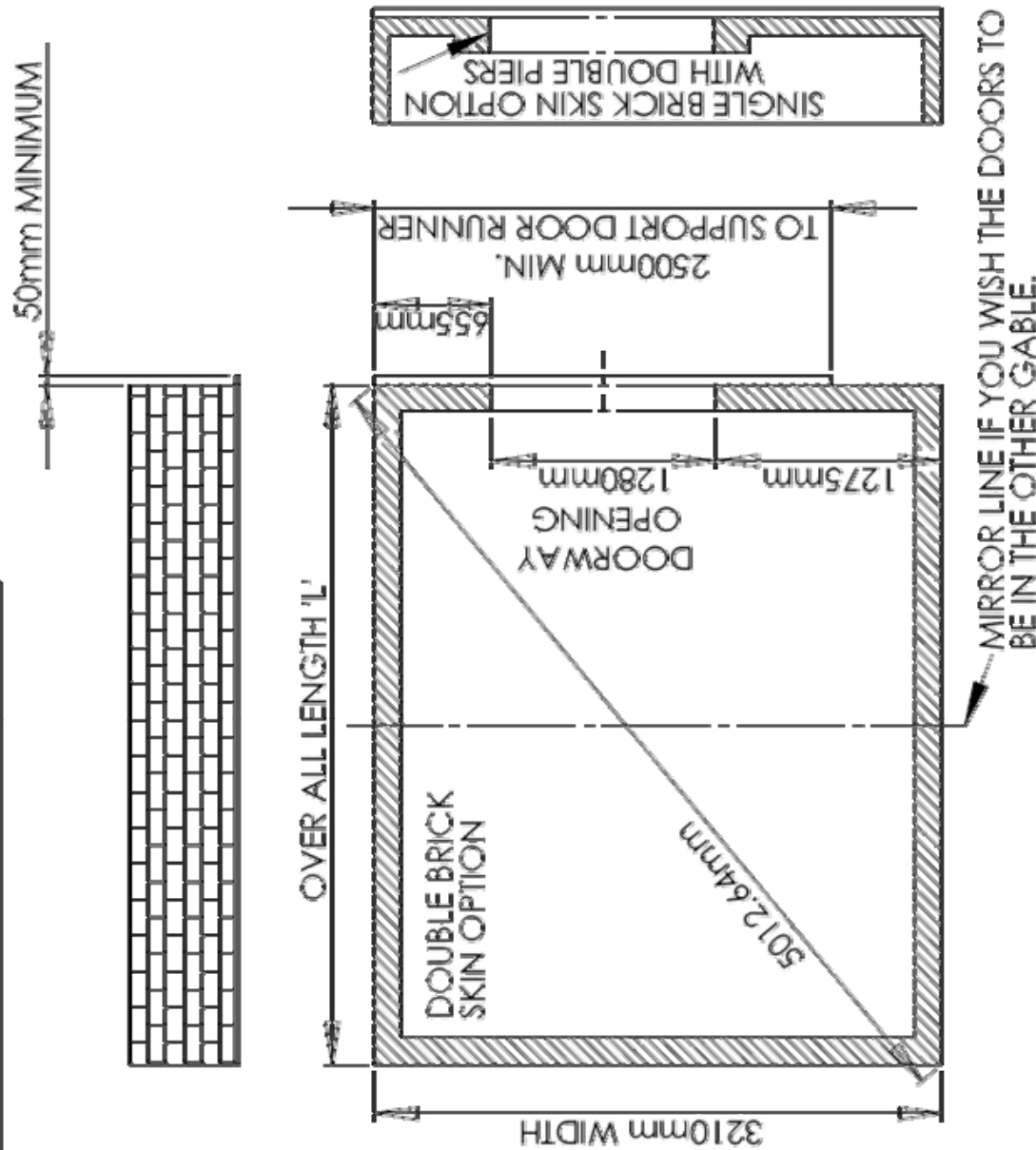
MAIN FRAME QUANTITIES VENTS / DOORS etc SEPERATE		10mm	29	35	41	47
		15mm	51	53	55	57
		m6	80	88	96	104

Redoubtable DWARF

Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
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8	1b	D611		1460	4	5	6	7
	3	D612		1756	2			
	1a	D618		1144	2	3	4	5
	2	D680		457	2			
	3	D681		2052	1			
	2	D682		746	1			
	5	D870		601	2	3	4	5
	5	D887		1490	2	3	4	5
	5	D896		1405	2	3	4	5
	2/3	D610		1160	2			
	1	D620		1144	2			
	1/2/3	D790		1460	4			
	2	D814		1883	2			
	5	D871		601	2			
	5	D888		1490	2			
	5	D897		1405	2			
10	2/3	D614		1162	2			
	1/2/3	D615		1462	8	9	10	11
	3	D616		1758	2			
	1a	D619		1144	4	5	6	7
	3	D683		2054	1			
	2	D684		748	1			
	2	D685		459	2			
	5	D810		1405	4	5	6	7
	2	D836		1883	2			
	5	D880		2092	4	5	6	7

10	D678		756	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



OVER ALL LENGTH "L" = BASIC GREENHOUSE LENGTH + EXTENSION IF REQUIRED			
BASIC GREENHOUSE	LENGTH	GREENHOUSE EXTENSION	LENGTH
6 LONG	1990mm	6ft EXT LONG	1840mm
8 LONG	2610mm	8ft EXT LONG	2480mm
10 LONG	3230mm	10ft EXT LONG	3100mm
12 LONG	3850mm	12ft EXT LONG	3720mm

GUIDANCE NOTE FOR ROBINSON'S DWARF WALL GREENHOUSES, FOOTINGS

CONCRETE STRIP FOOTINGS SHOULD BE A MINIMUM OF 400mm WIDE X 300mm 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 FLUTION TYPE BRICKS ARE NOT SUITABLE.

CABLE DOOR OPENING

ADJUSTABLE DOOR OPENING
THE DOOR THRESHOLD REQUIRES BRICK WORK ACROSS THE
OPENING WHICH SHOULD BE LEVEL WITH THE FINISHED FLOOR
LEVEL (F.F.) 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.

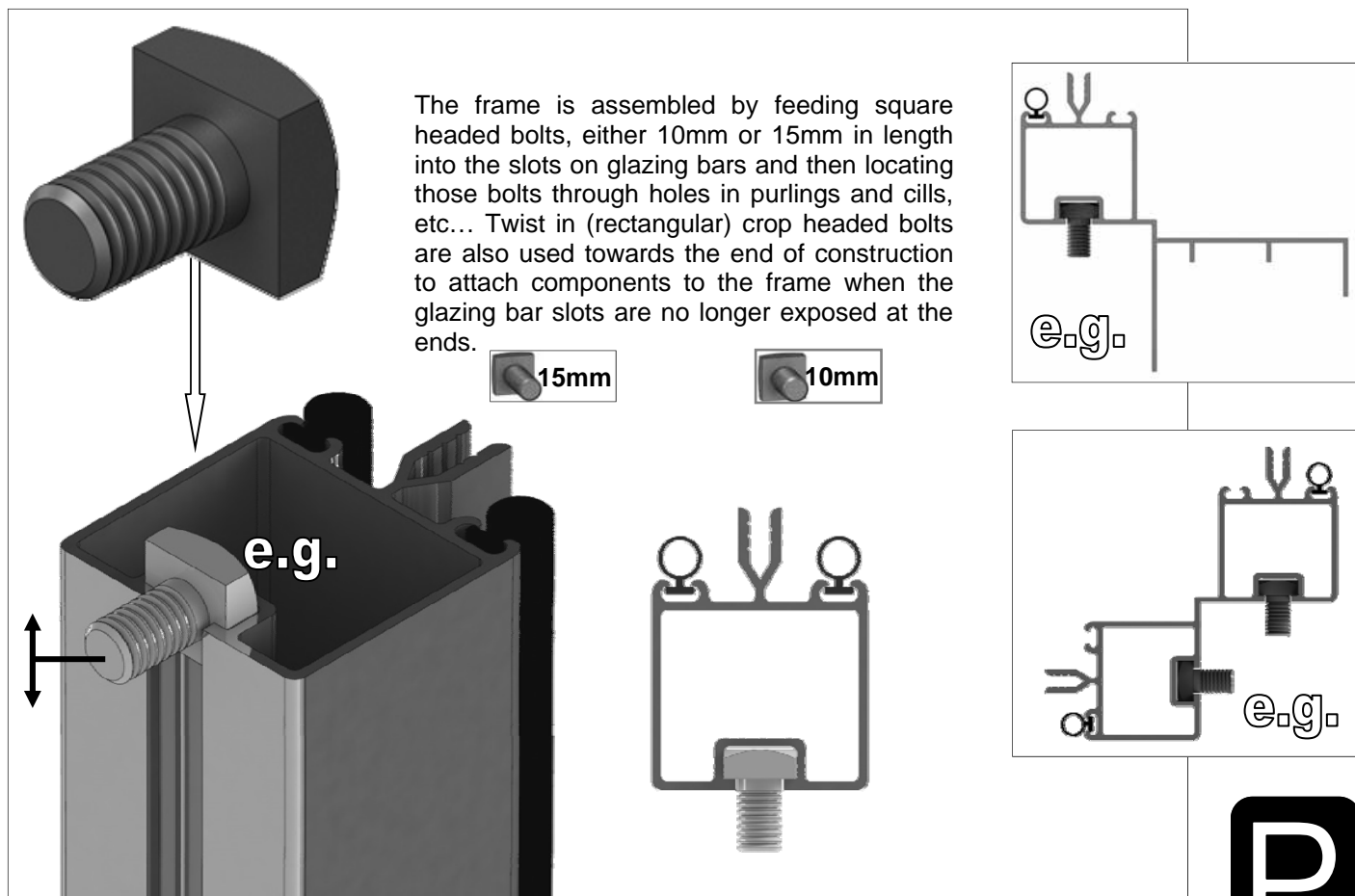
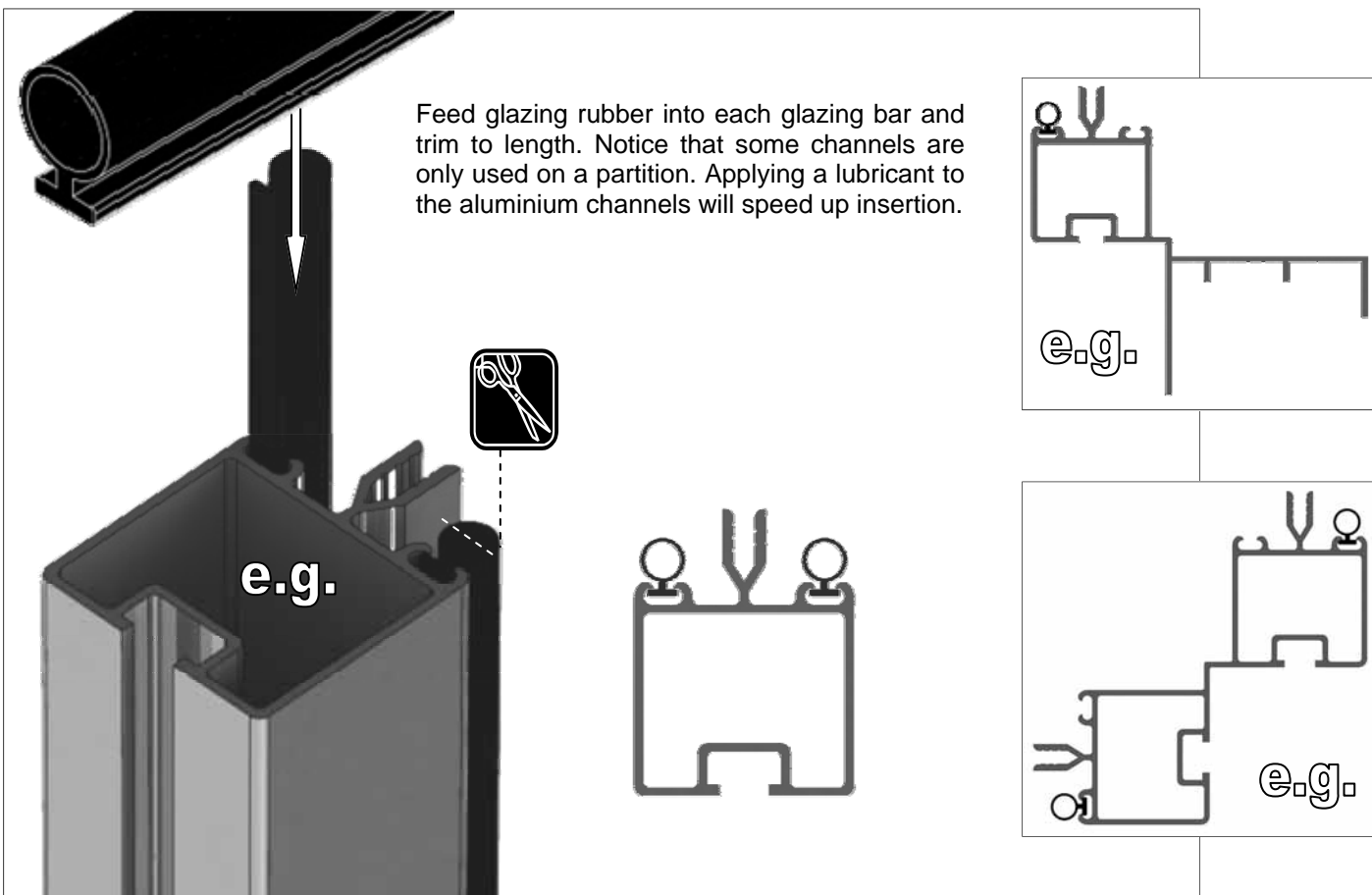
IF SINGLE SKIN WALLS ARE USED THEN PIER'S SHOULD BE FORMED AT THE DOOR OPENING.

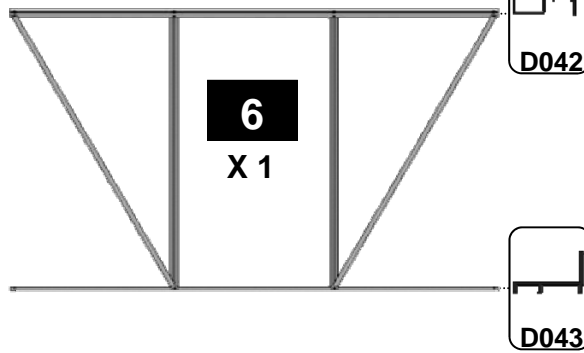
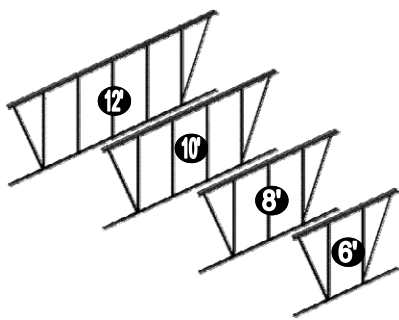
IN ORDER TO SUPPORT THE OUTER EDGE OF THE DOOR THRESHOLD THERE MUST BE A PROJECTION OF BRICKWORK / CONCRETE IN FRONT OF THE DOOR END WALL WITH A MINIMUM WIDTH OF 50mm. THIS NEEDS TO BE LEVEL WITH THE DOOR THRESHOLD OPENING.

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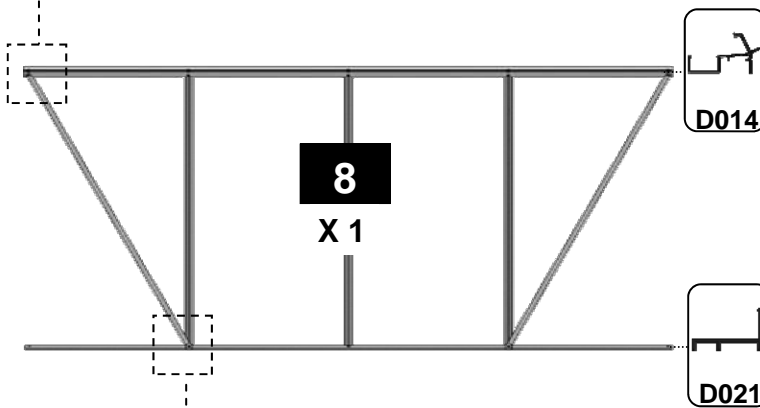
TITLE: REDOUBTABLE
DWARF WALL PLAN





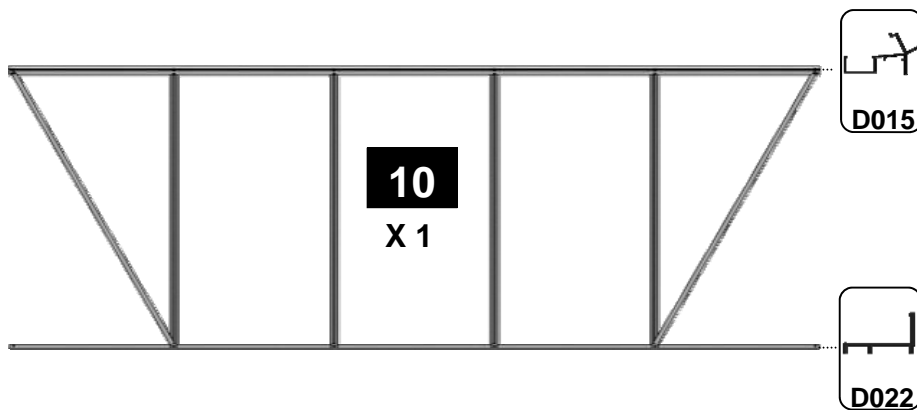
LOW SIDE 6 X 1		
Part No	mm	Quantity
D042	1897	1
D043	1894	1
D609	1160	2
D604	1316	2
D174		2
M6-10mm		2
M6-15mm		4
M6-NUT		6
Rubber	1000	5

e.g. ①

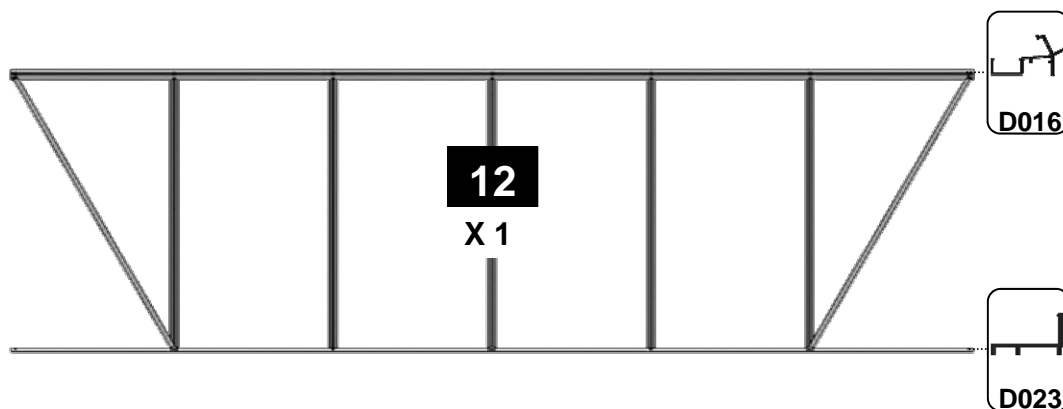


LOW SIDE 8 X 1		
Part No	mm	Quantity
D014	2517	1
D021	2514	1
D609	1160	3
D604	1316	2
D174		2
M6-10mm		3
M6-15mm		5
M6-NUT		8
Rubber	1000	7

e.g. ②

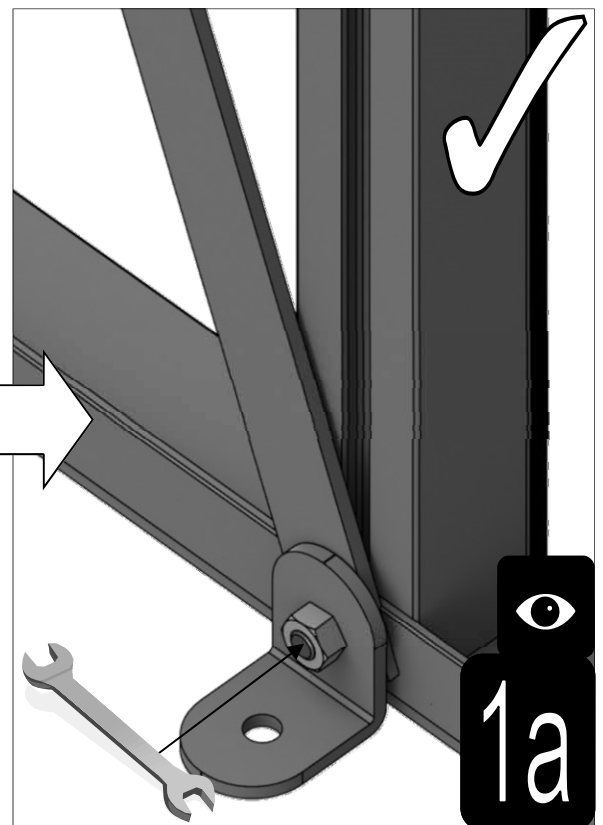
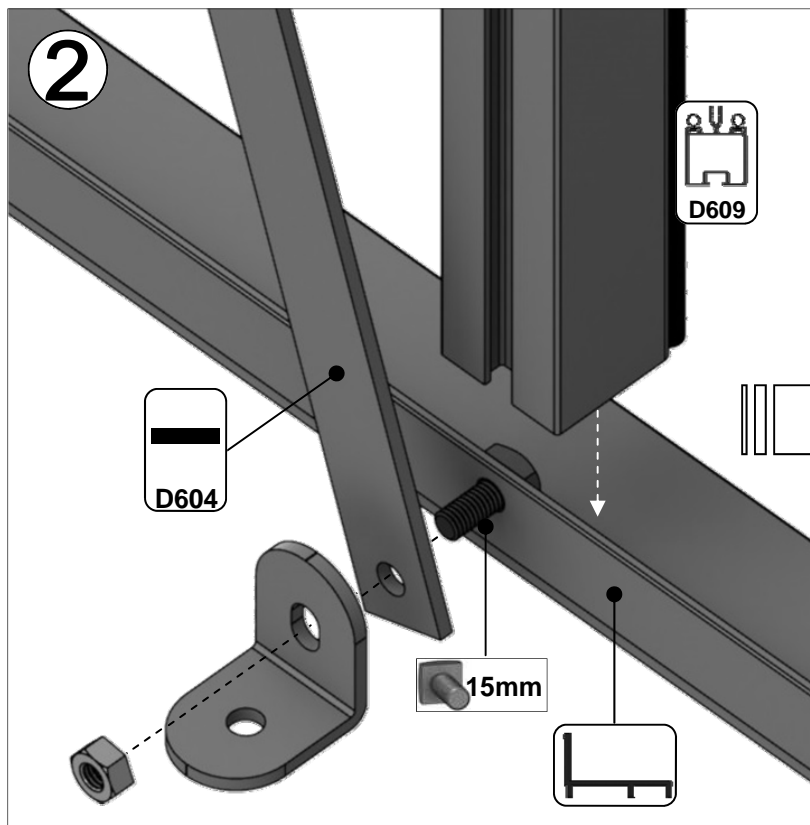
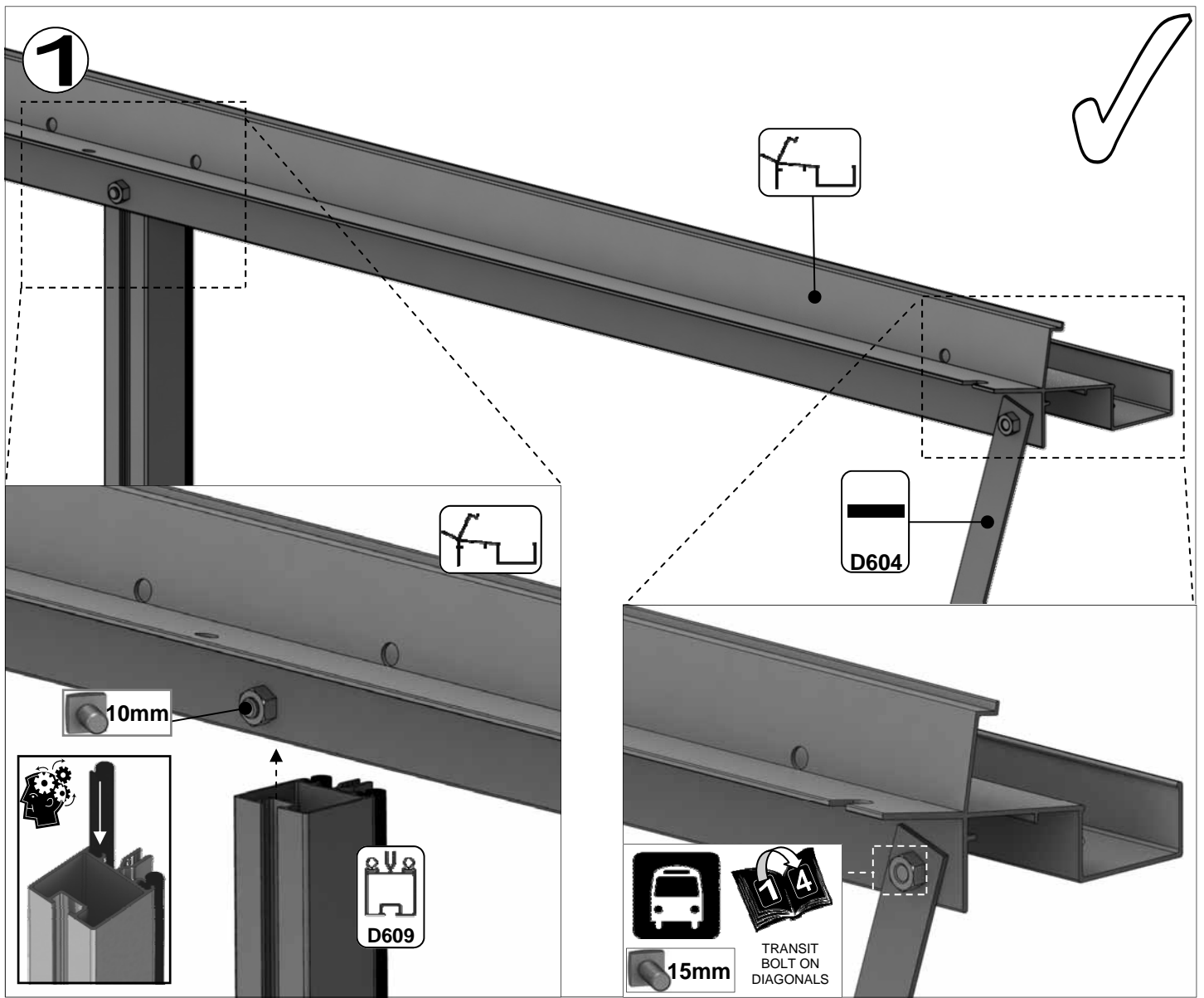


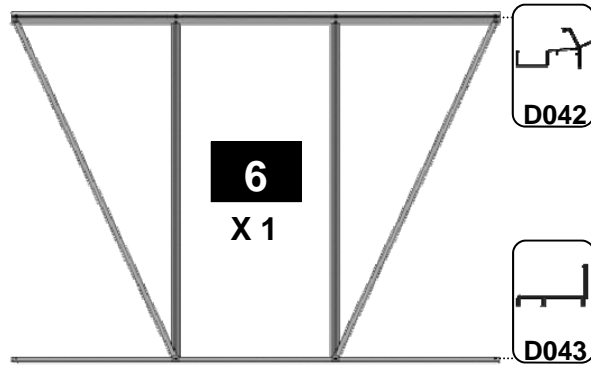
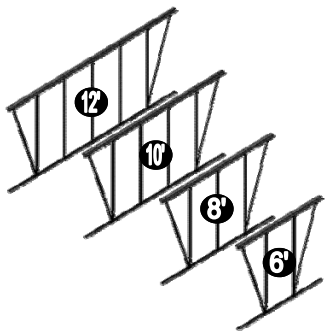
LOW SIDE 10 X 1		
Part No	mm	Quantity
D015	3137	1
D022	3134	1
D609	1160	4
D604	1316	2
D174		4
M6-10mm		4
M6-15mm		6
M6-NUT		10
Rubber	1000	9.5



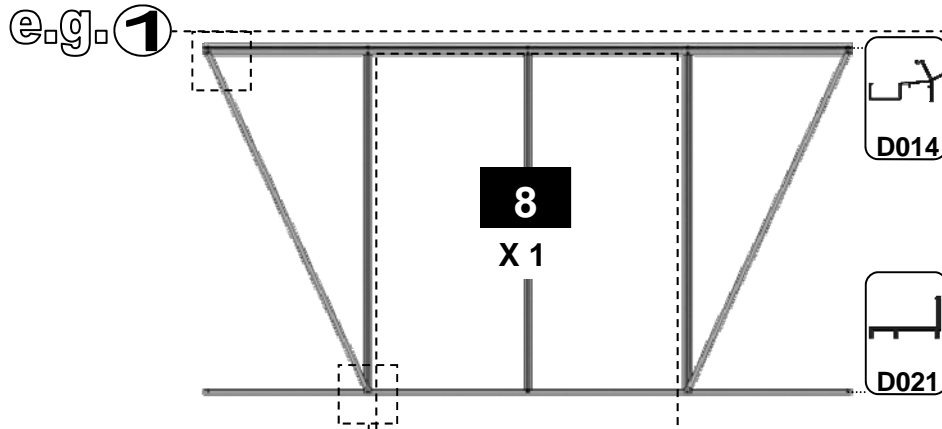
LOW SIDE 12 X 1		
Part No	mm	Quantity
D016	3757	1
D023	3754	1
D609	1160	5
D604	1316	2
D174		4
M6-10mm		5
M6-15mm		7
M6-NUT		12
Rubber	1000	12



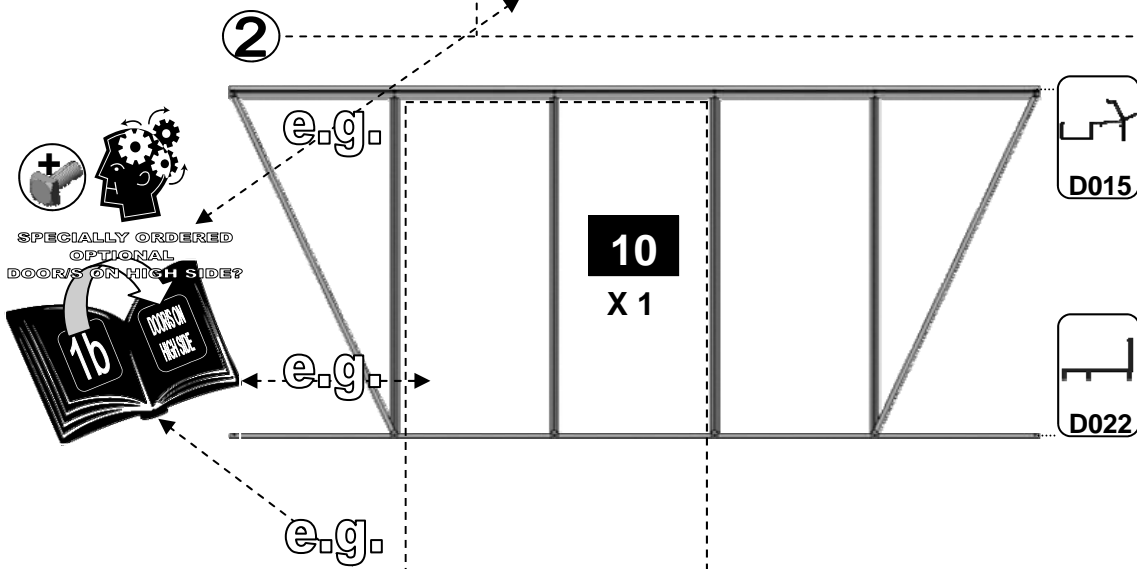




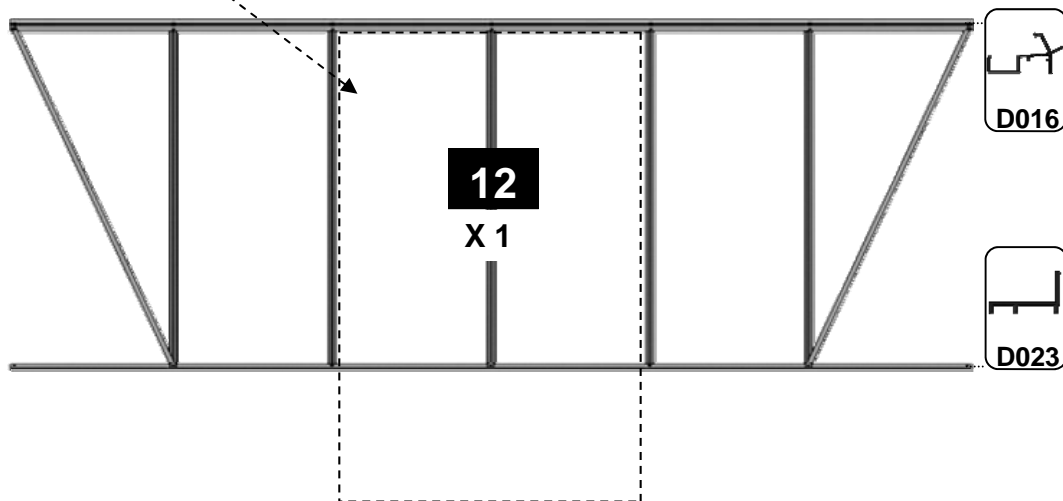
HIGH SIDE 6 X 1		
Part No	mm	Quantity
D042	1897	1
D043	1894	1
D601	1460	2
D779	1586	2
D174		2
M6-10mm		2
M6-15mm		4
M6-NUT		6
Rubber	1000	6



HIGH SIDE 8 X 1		
Part No	mm	Quantity
D014	2517	1
D021	2514	1
D601	1460	3
D779	1586	2
D174		2
M6-10mm		3
M6-15mm		5
M6-NUT		8
Rubber	1000	9

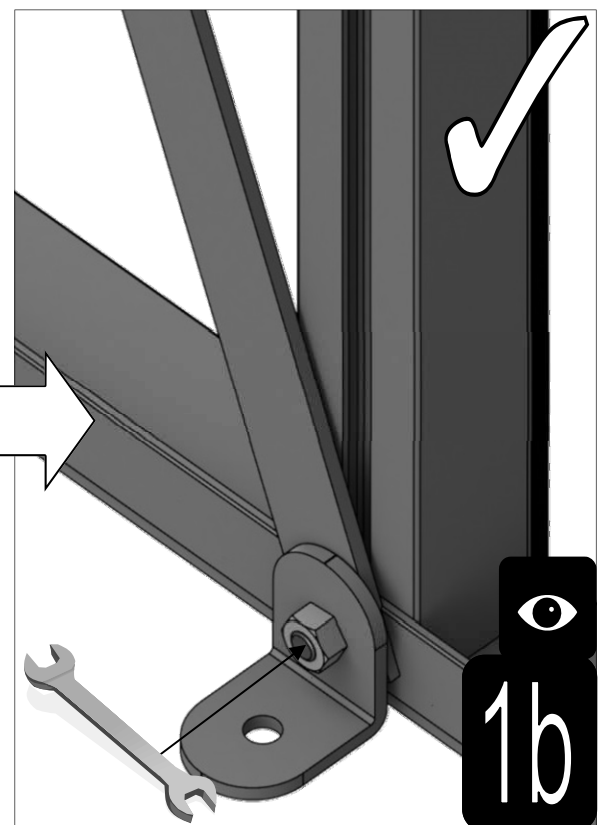
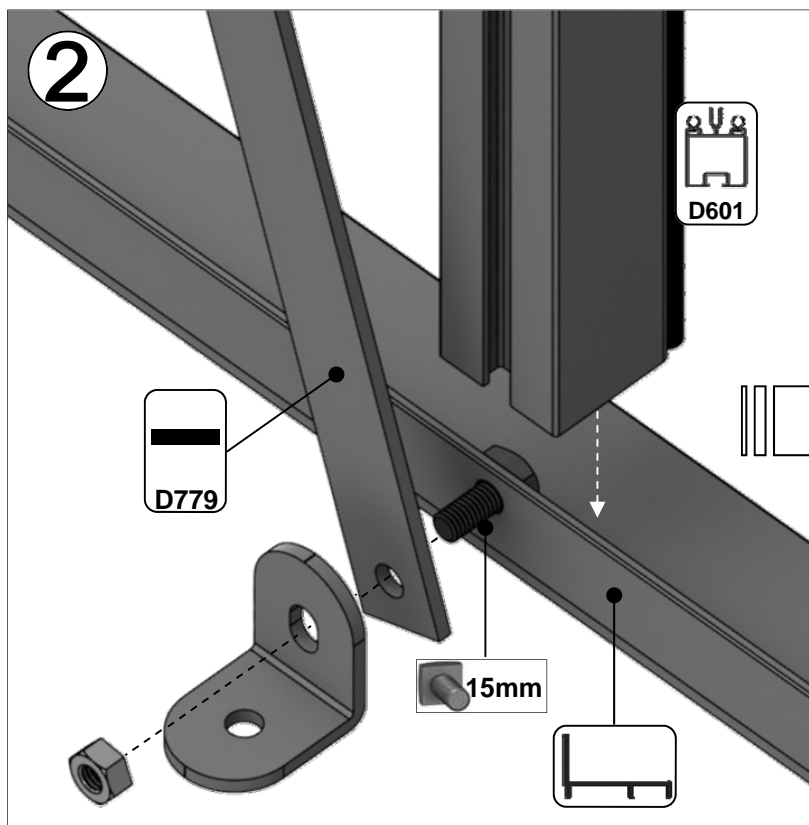
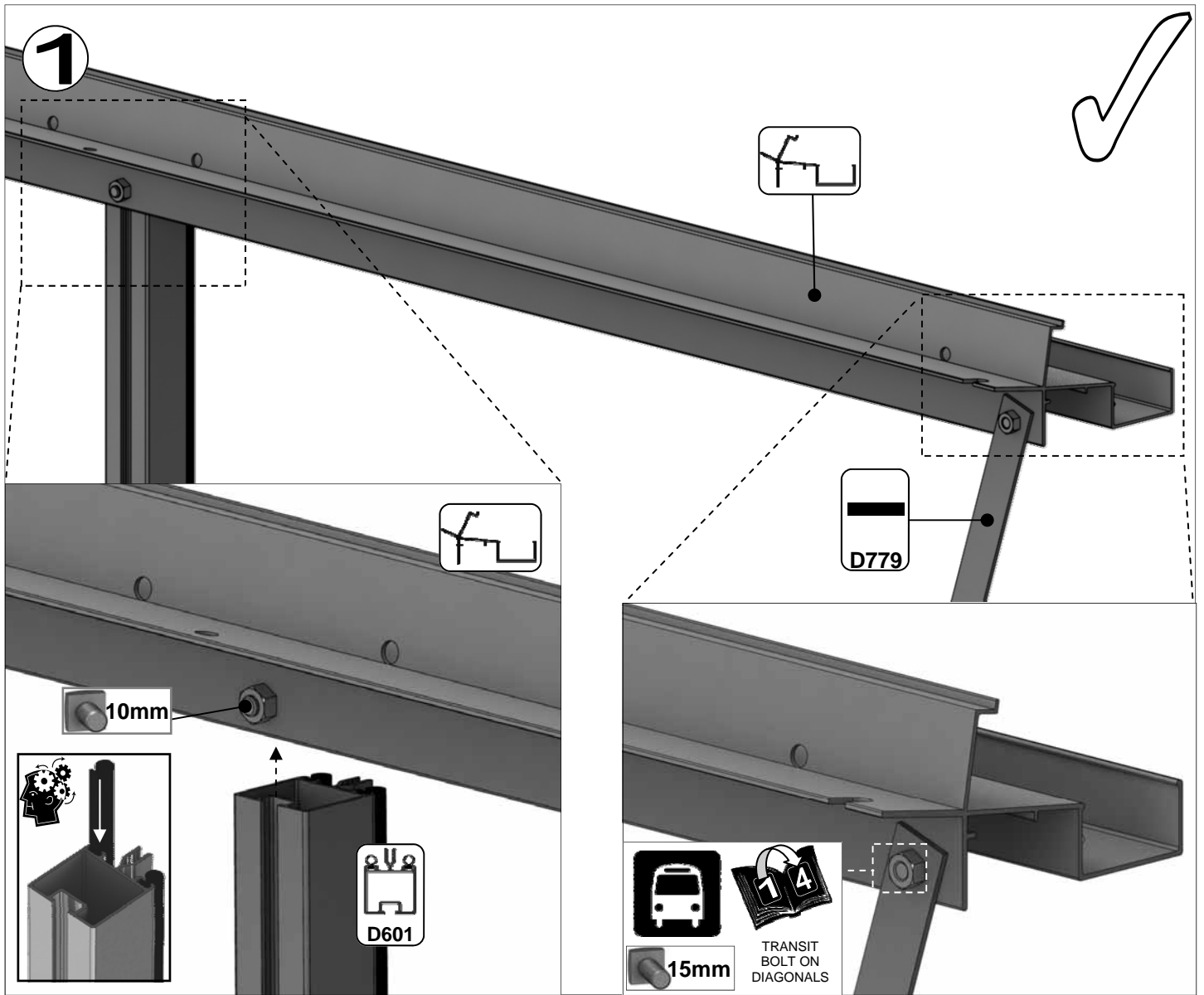


HIGH SIDE 10 X 1		
Part No	mm	Quantity
D015	3137	1
D022	3134	1
D601	1460	4
D779	1586	2
D174		4
M6-10mm		4
M6-15mm		6
M6-NUT		10
Rubber	1000	12



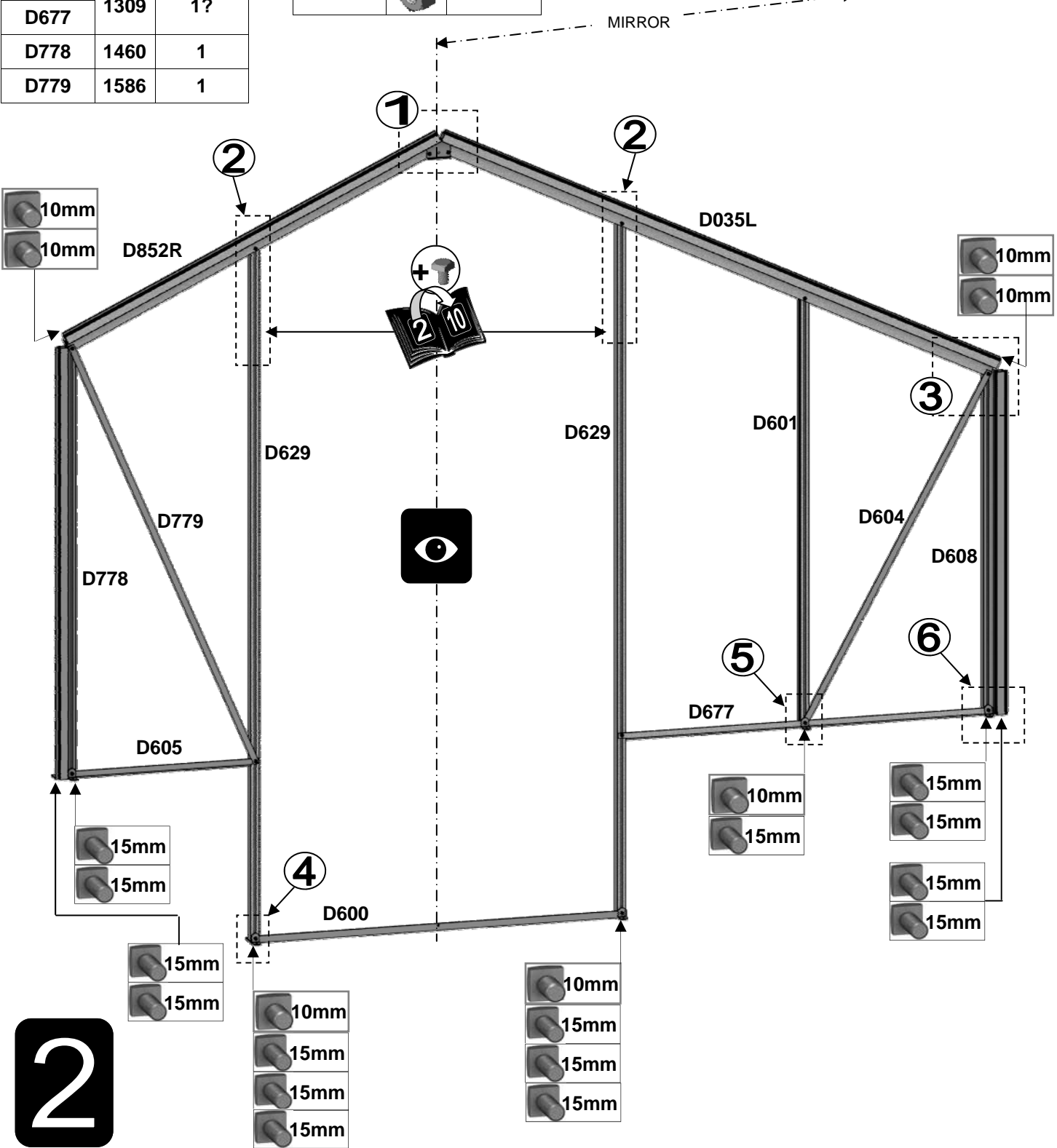
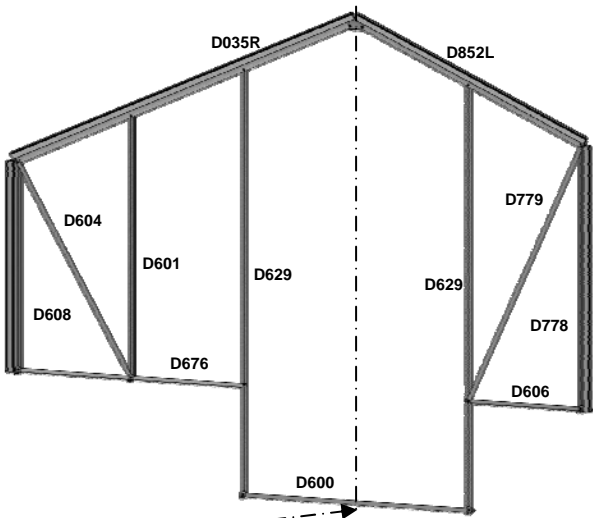
HIGH SIDE 12 X 1		
Part No	mm	Quantity
D016	3757	1
D023	3754	1
D601	1460	5
D779	1586	2
D174		4
M6-10mm		5
M6-15mm		7
M6-NUT		12
Rubber	1000	15

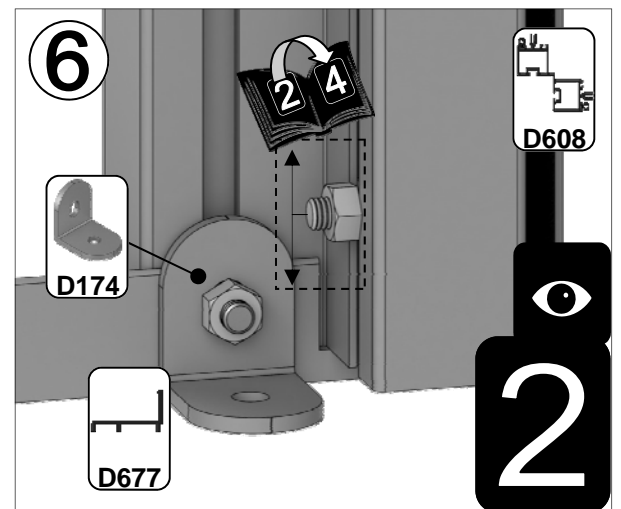
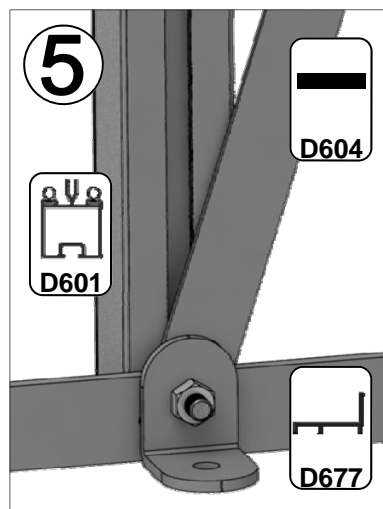
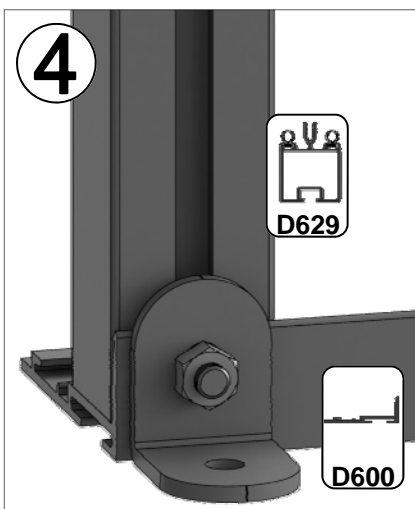
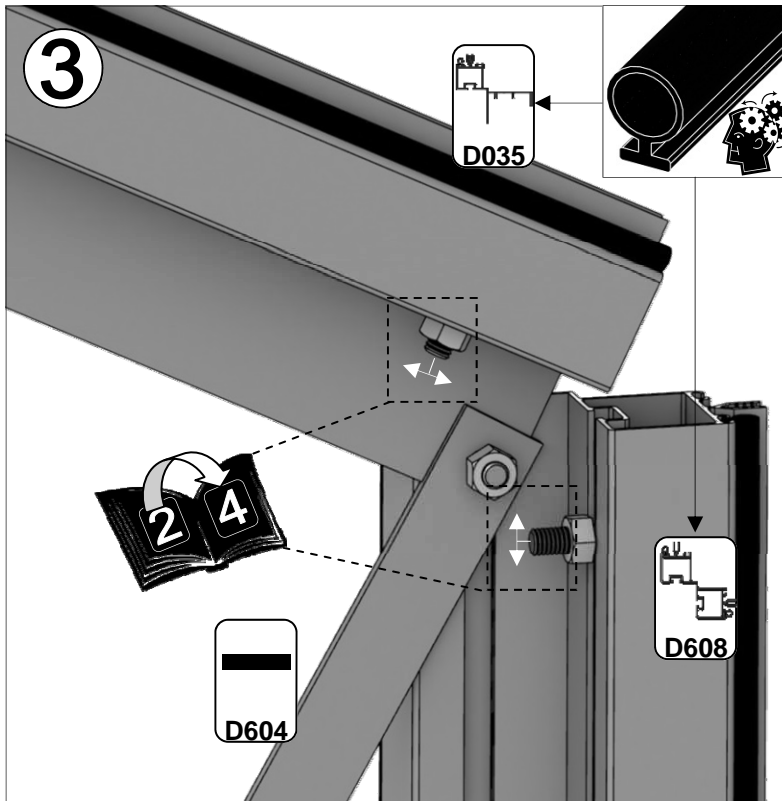
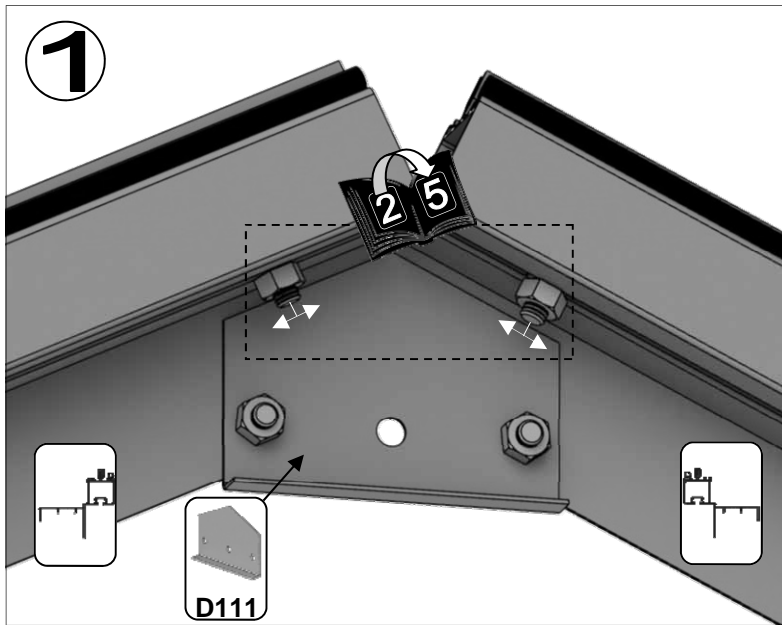










Part No	mm	Quantity
D035L	2082	1?
D035R		
D600	1270	1
D601	1460	1
D604	1318	1
D605	689	1?
D606		
D608	1160	1
D629	2356	2
D676	1309	1?
D677		
D778	1460	1
D779	1586	1

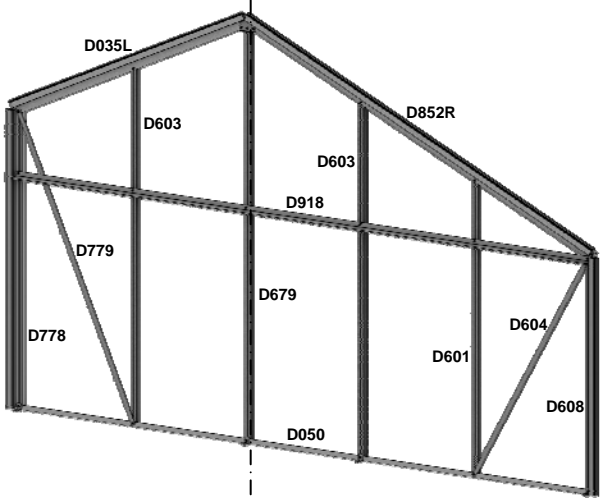
Part No	mm	Quantity
D852L	1395	1?
D852R		
D111		1
D174		5
D227		23m
M6X10		7
M6X15		15
M6NUT		22



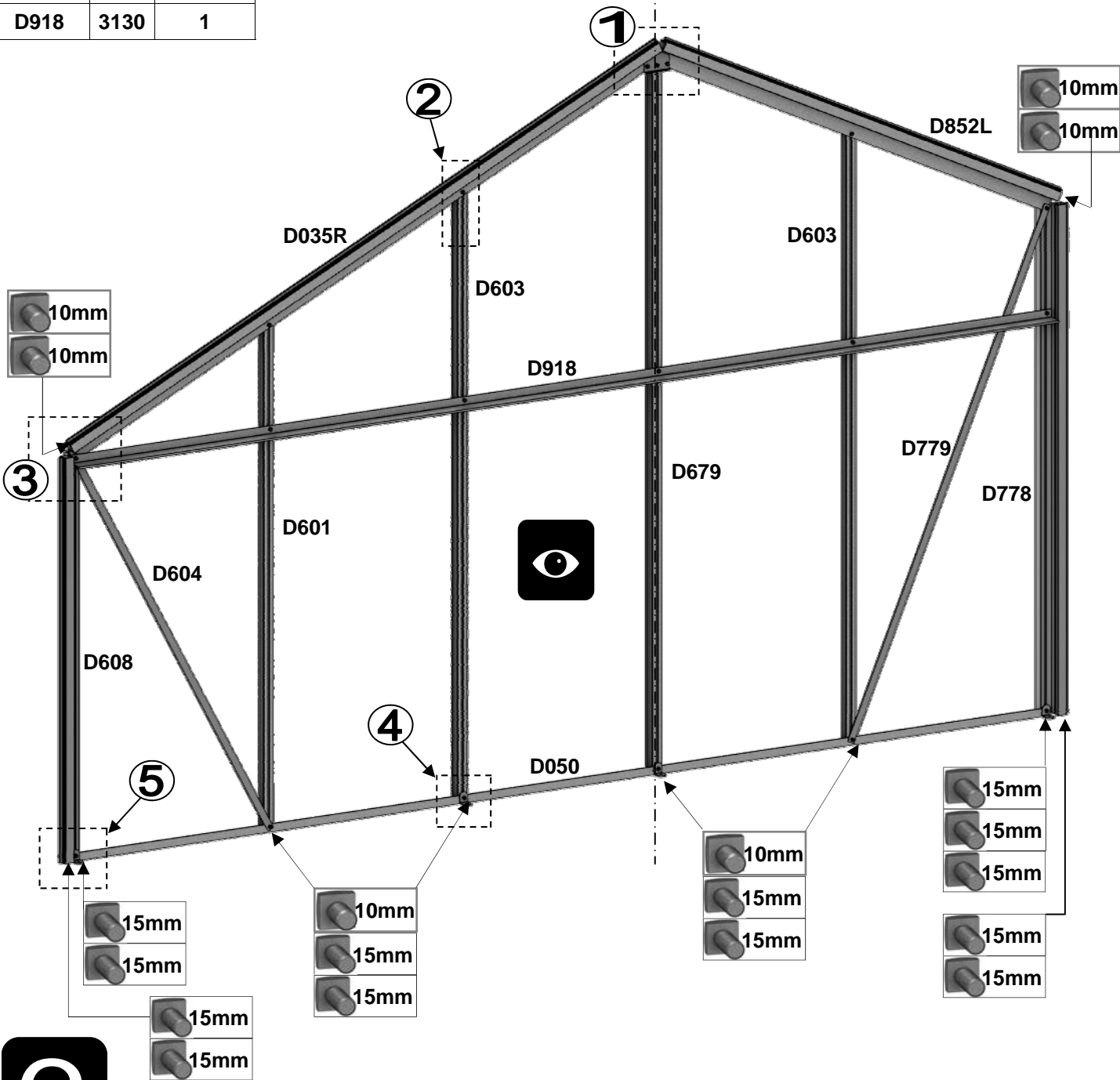


Part No	mm	Quantity
D035L	2082	1?
D035R		
D050	3130	1
D601	1460	1
D603	1756	2
D604	1318	1
D608	1160	1
D679	2052	1
D778	1460	1
D779	1586	1
D852L	1395	1?
D852R		
D918	3130	1

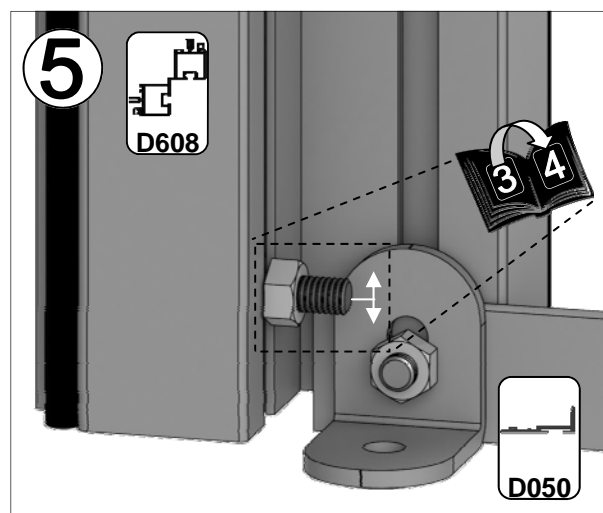
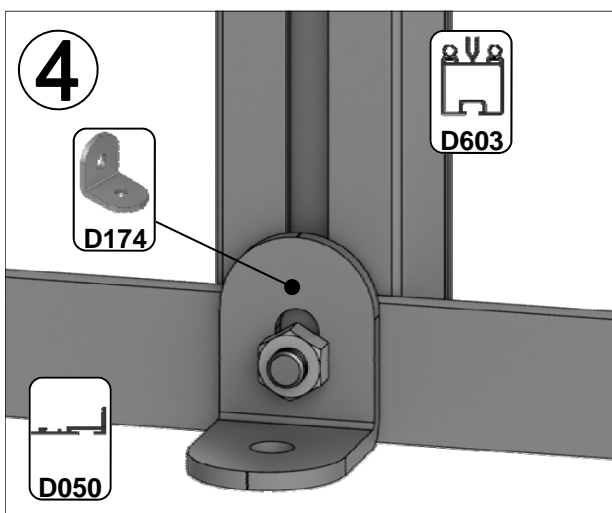
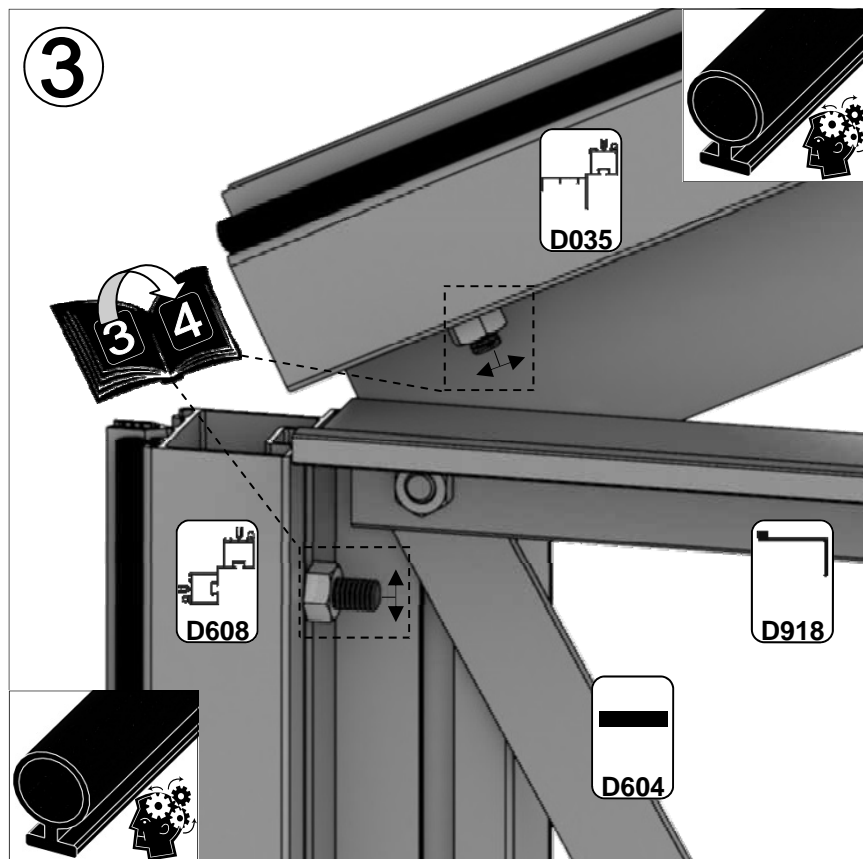
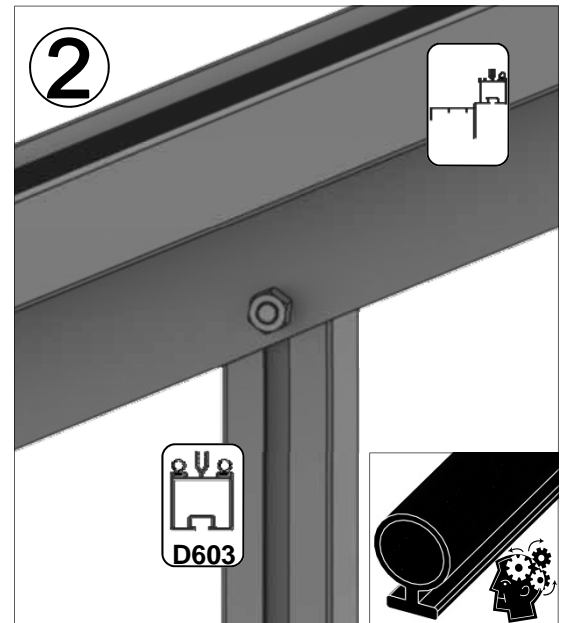
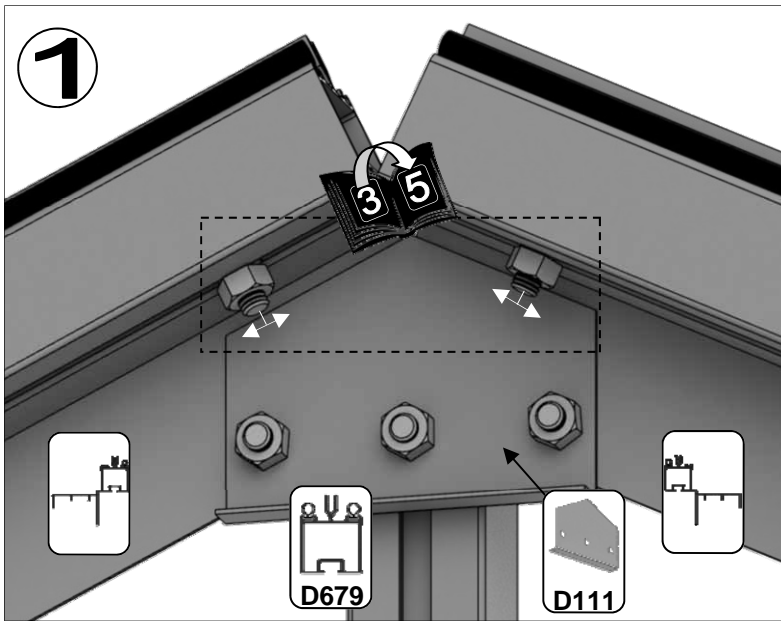
Part No	mm	Quantity
D111		1
D174		6
D227		24m
M6X10		8
M6X15		17
M6NUT		25

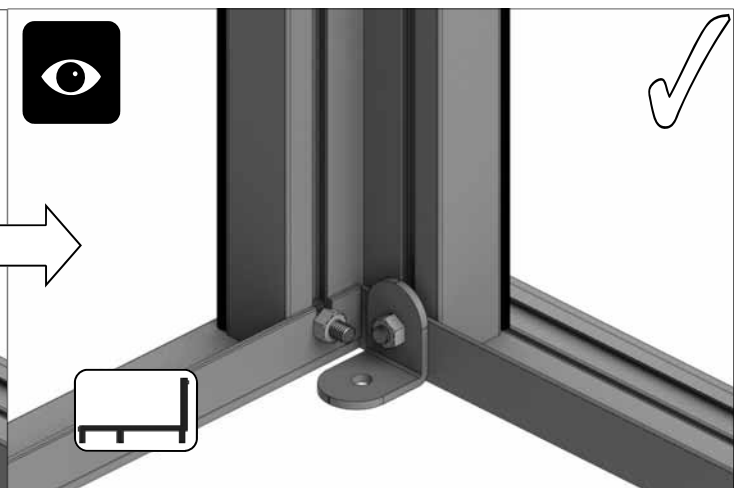
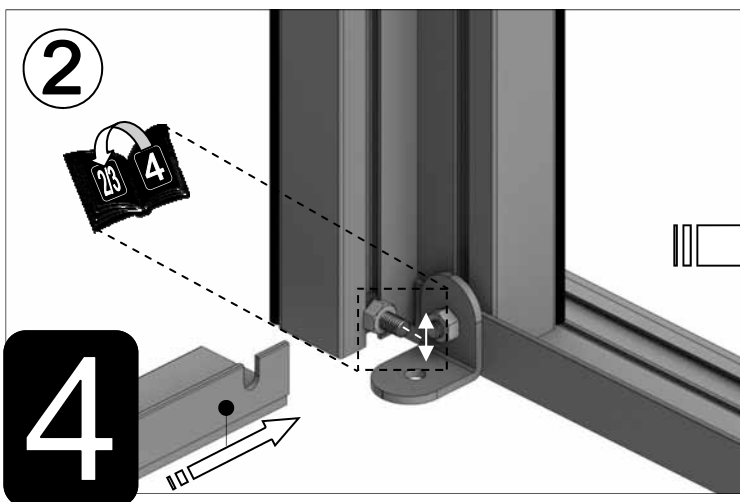
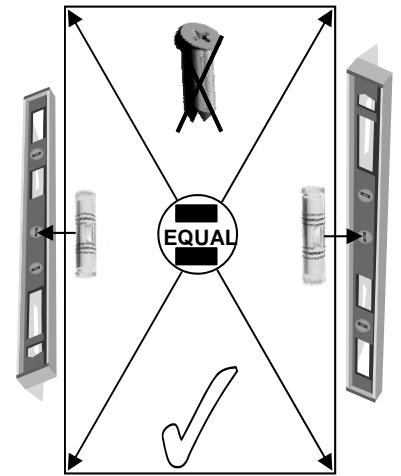
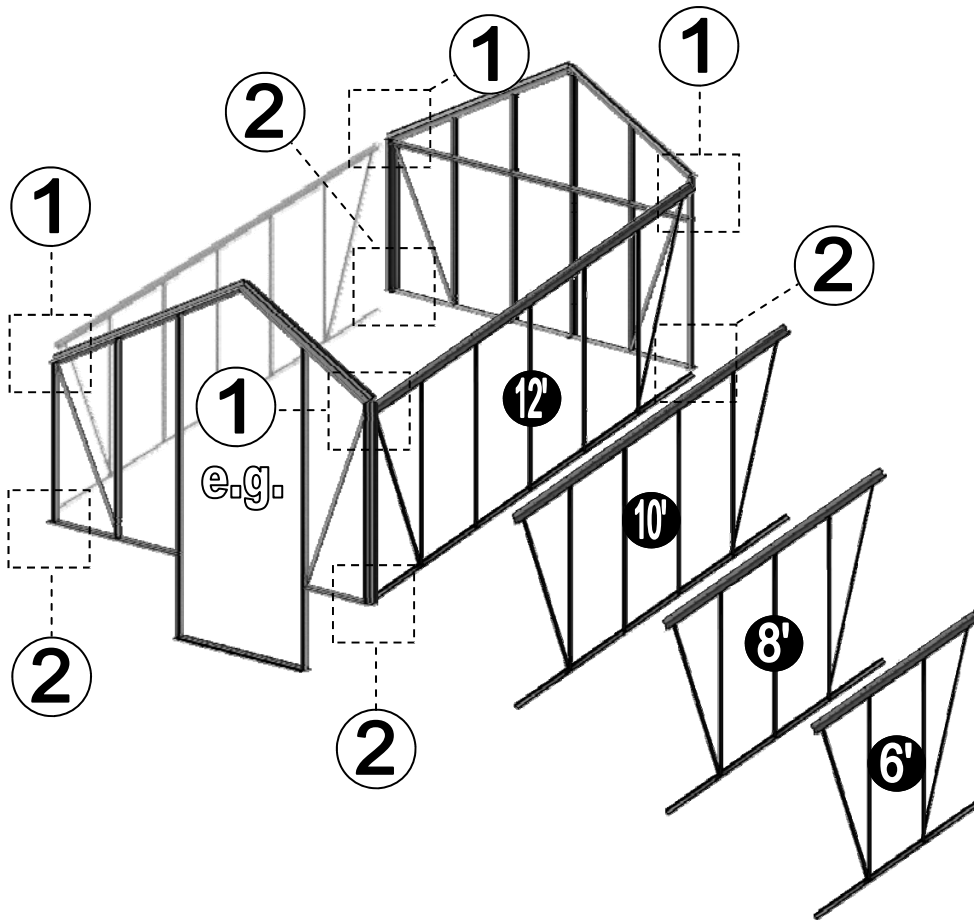
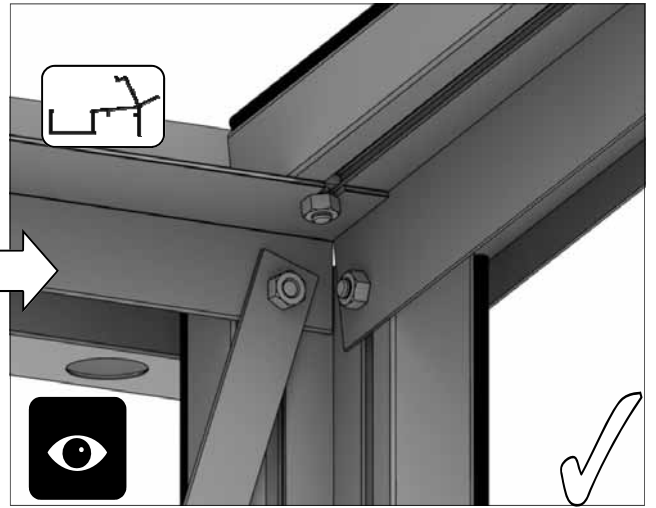
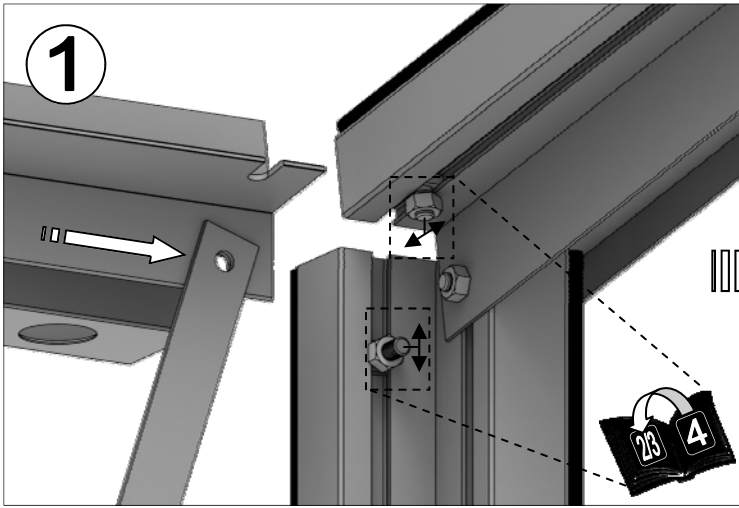




MIRROR





3







6'			8
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
Part No	mm	Quantity
D044	1897	1
D033	2082	2
D064	1395	2
D126	445	0
D128	1015	0
RUBBER	1000	14

8'			12
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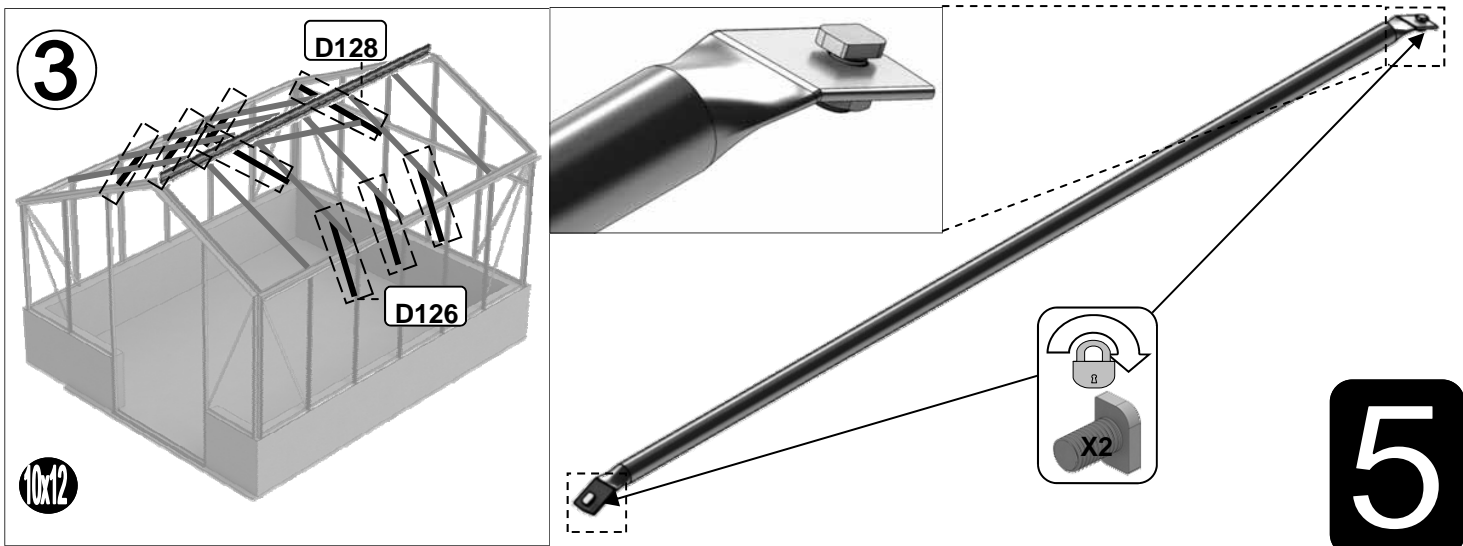
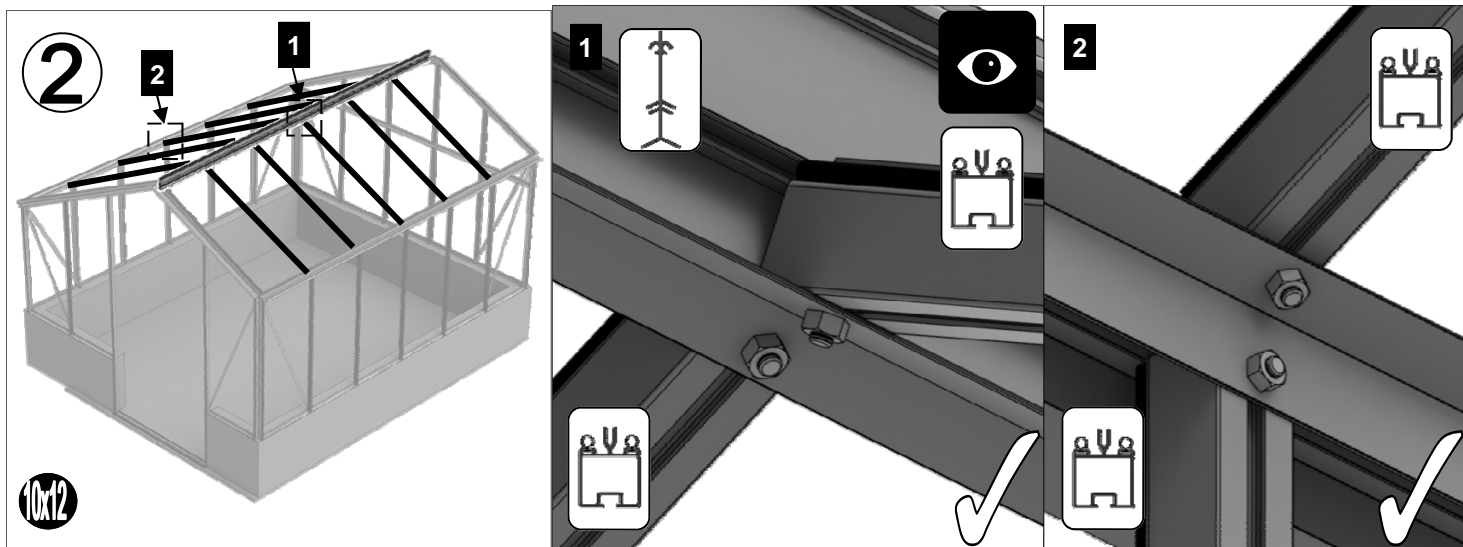
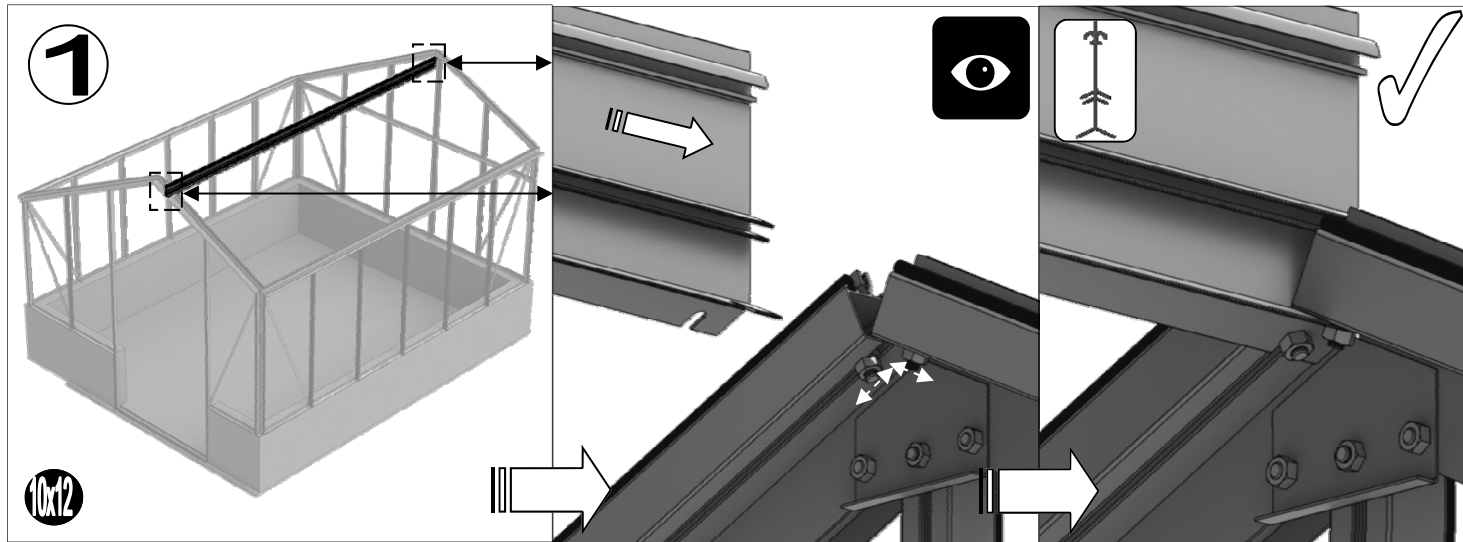
Part No	mm	Quantity
D001	2517	1
D033	2082	3
D064	1395	3
D126	445	2
D128	1015	1
RUBBER	1000	21

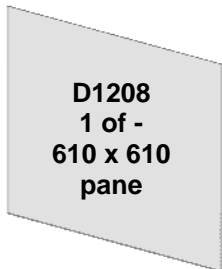
10'			16
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Part No	mm	Quantity
D002	3137	1
D033	2082	4
D064	1395	4
D126	445	4
D128	1015	2
RUBBER	1000	28

12'			20
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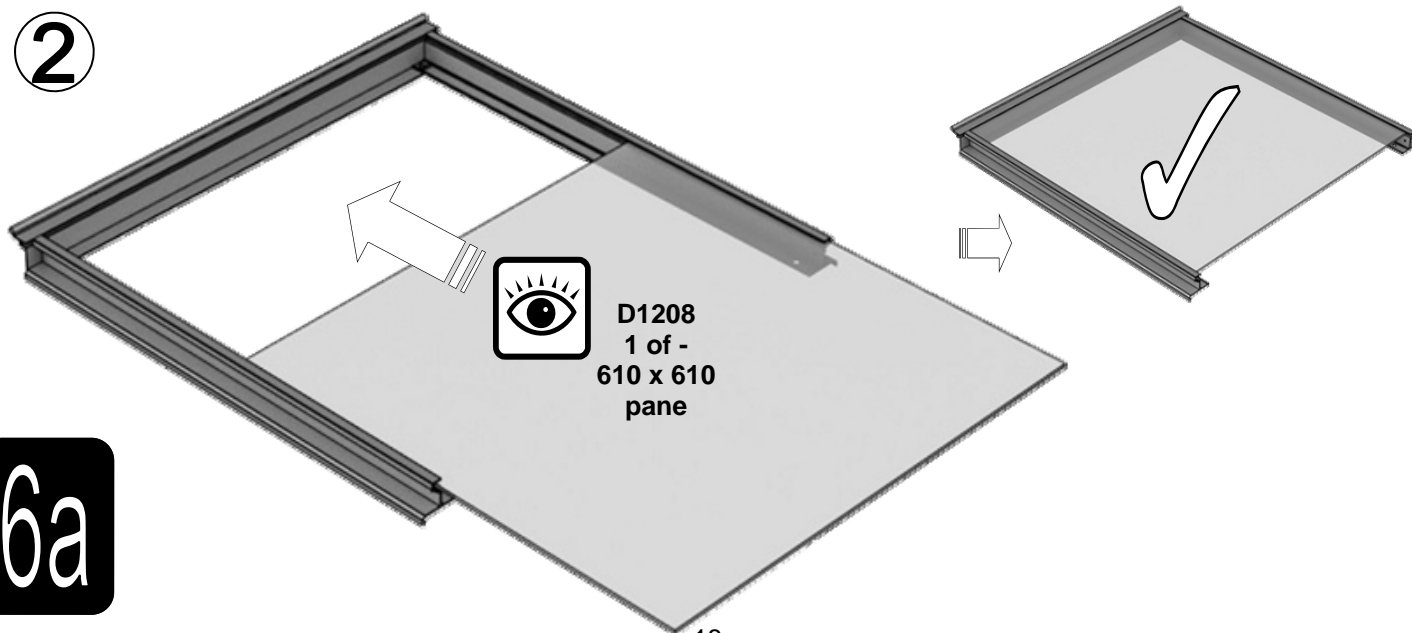
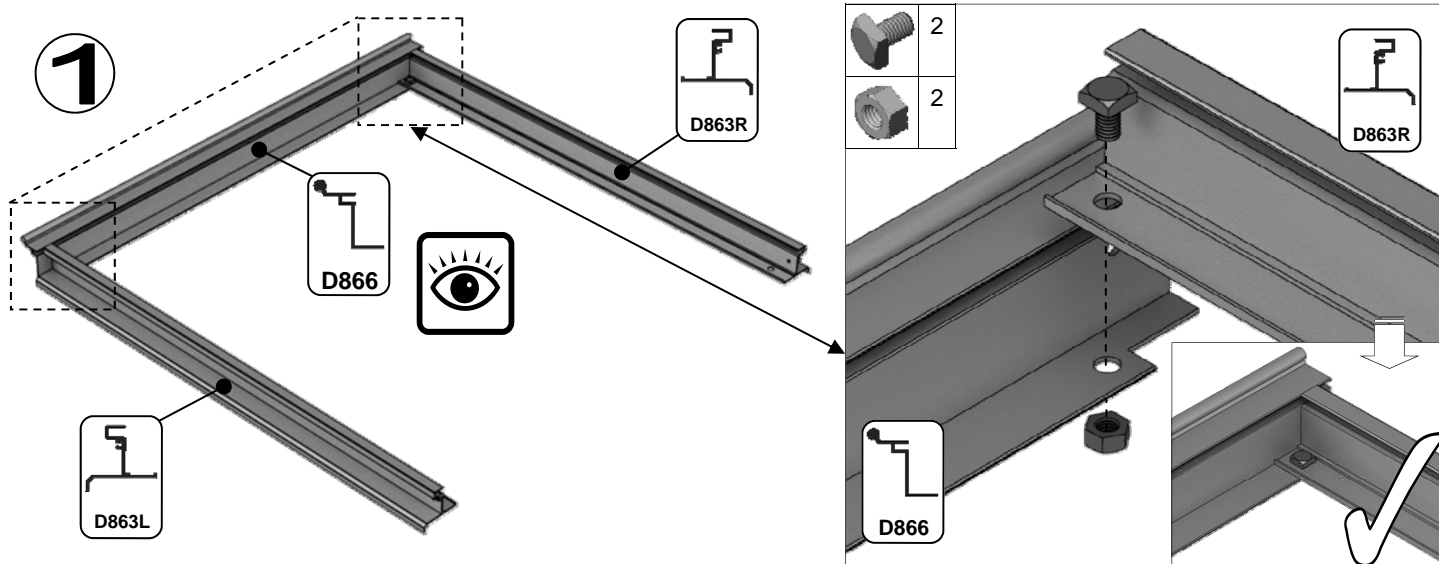
Part No	mm	Quantity
D003	3757	1
D033	2082	5
D064	1395	5
D126	445	6
D128	1015	2
RUBBER	1000	35




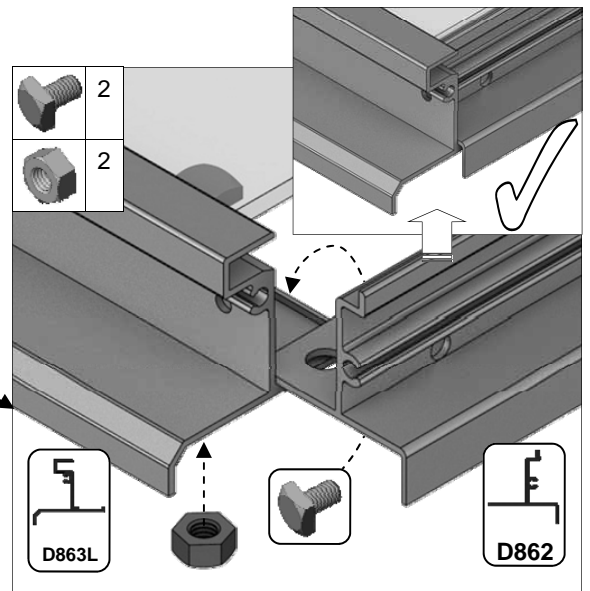
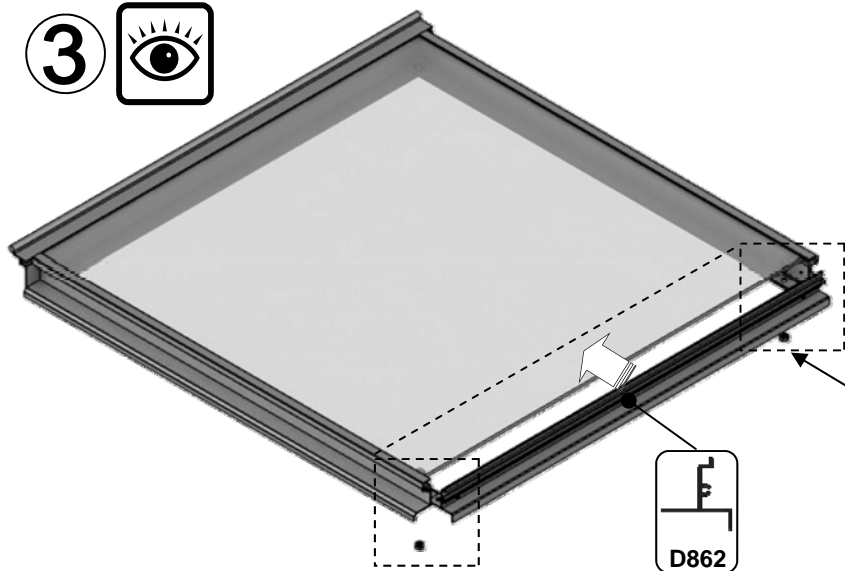


Part No		mm	Quantity
D866		639	1
D863L		613	1
D863R		613	1
D862		593	1

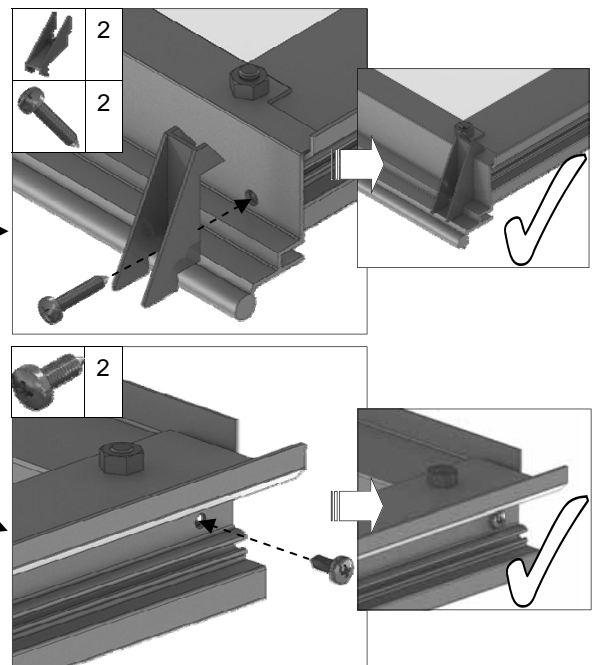
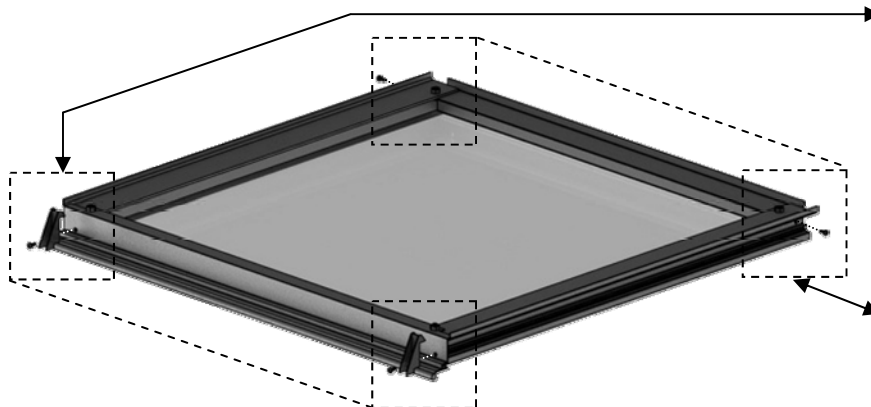
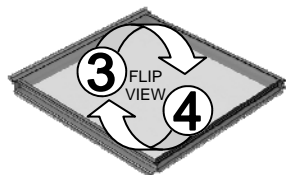
Part No		mm	Quantity
D220 PLUS FS6060 SCREW		N/A	2
D205		N/A	2
SY-BOLM6X11		10	4
SYNUTM6		M6	4
8 X 12 S/T FS6017		10	2
8 x 19 S/T FS6018		19	2



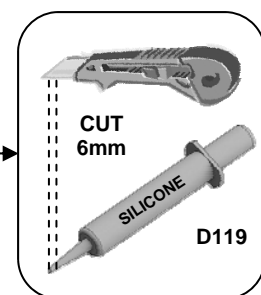
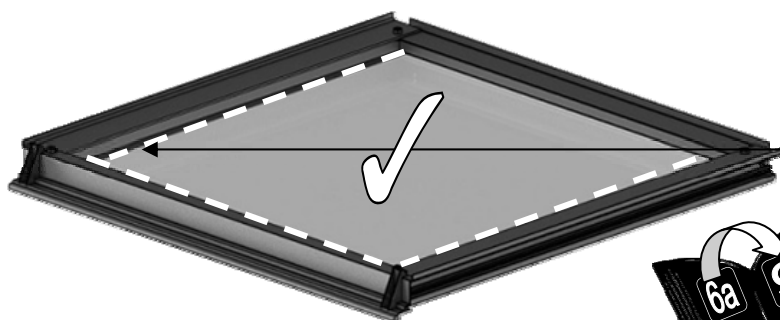
3 



4 









5 



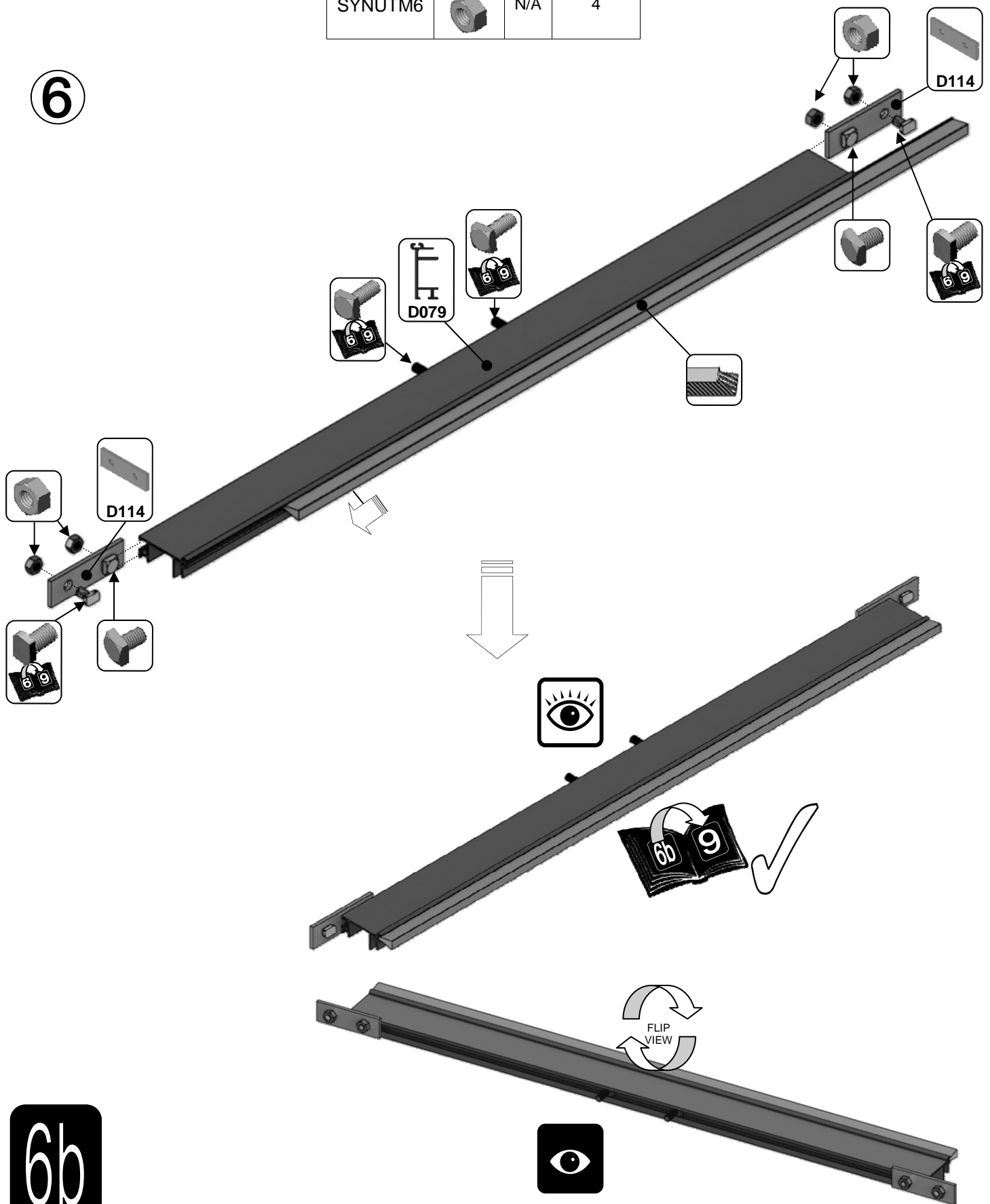
6a

1 vent
slam bar = {

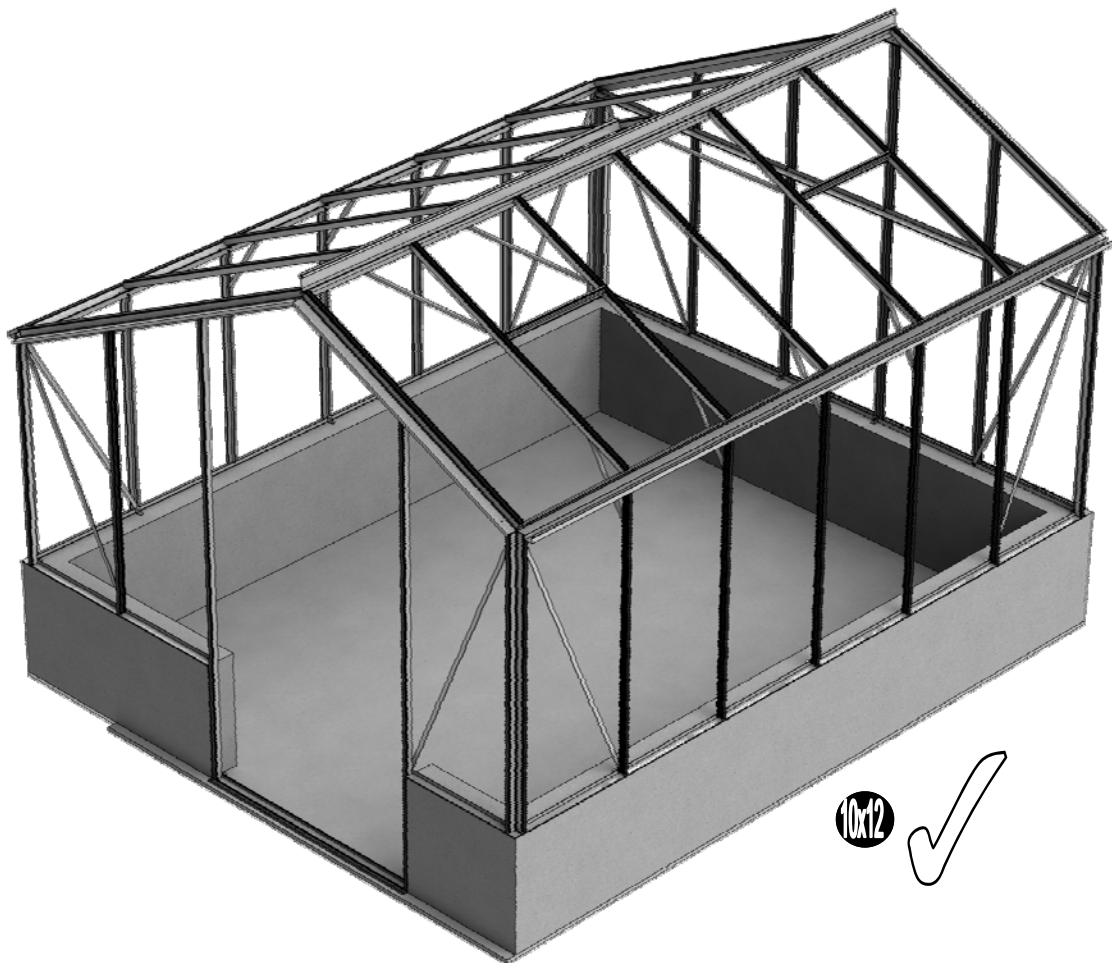
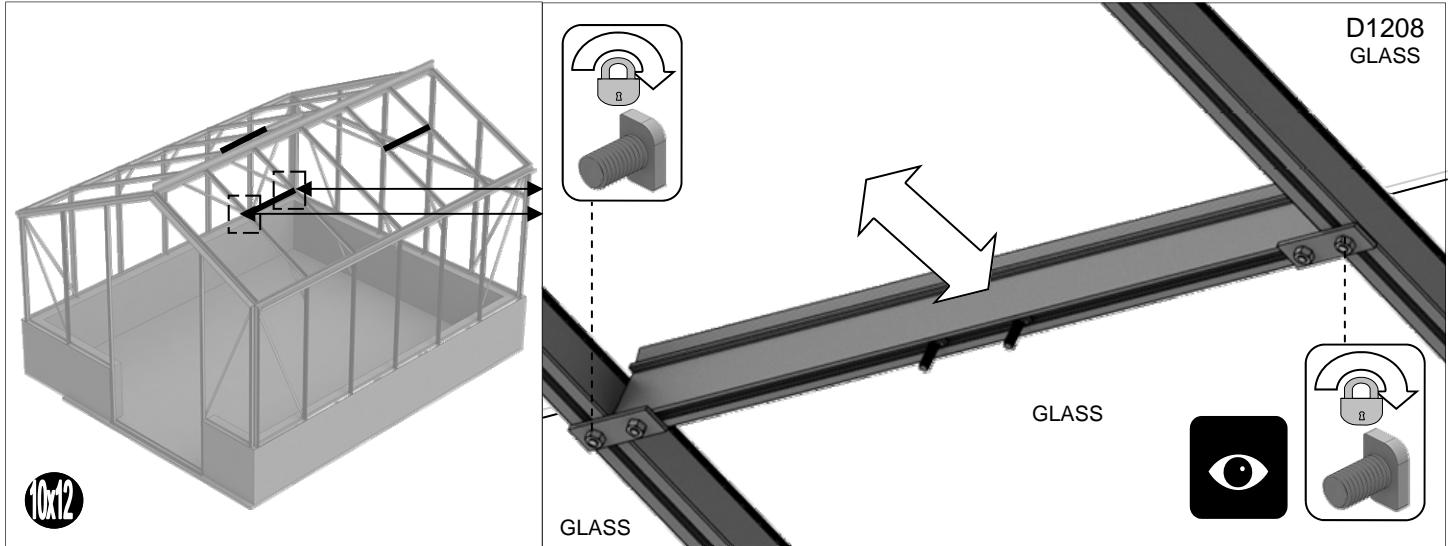
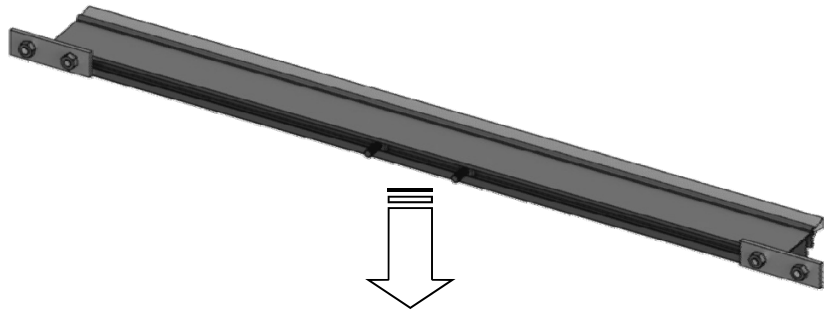
Part No		mm	Quantity
SY-BOLM6X11		10	2
SY-BOLM6X15		15	2
SYBOLM6 X11CROP		10	2
SYNUTM6		N/A	4

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

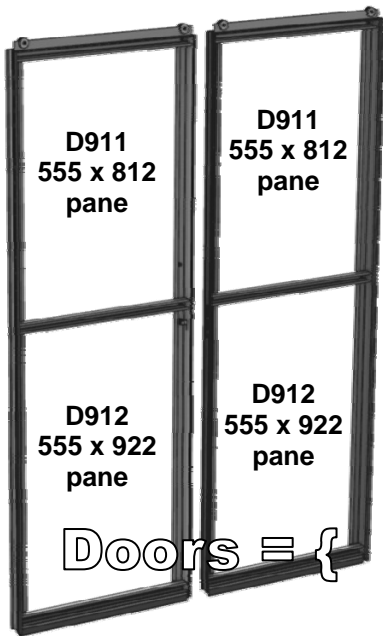
6



6b

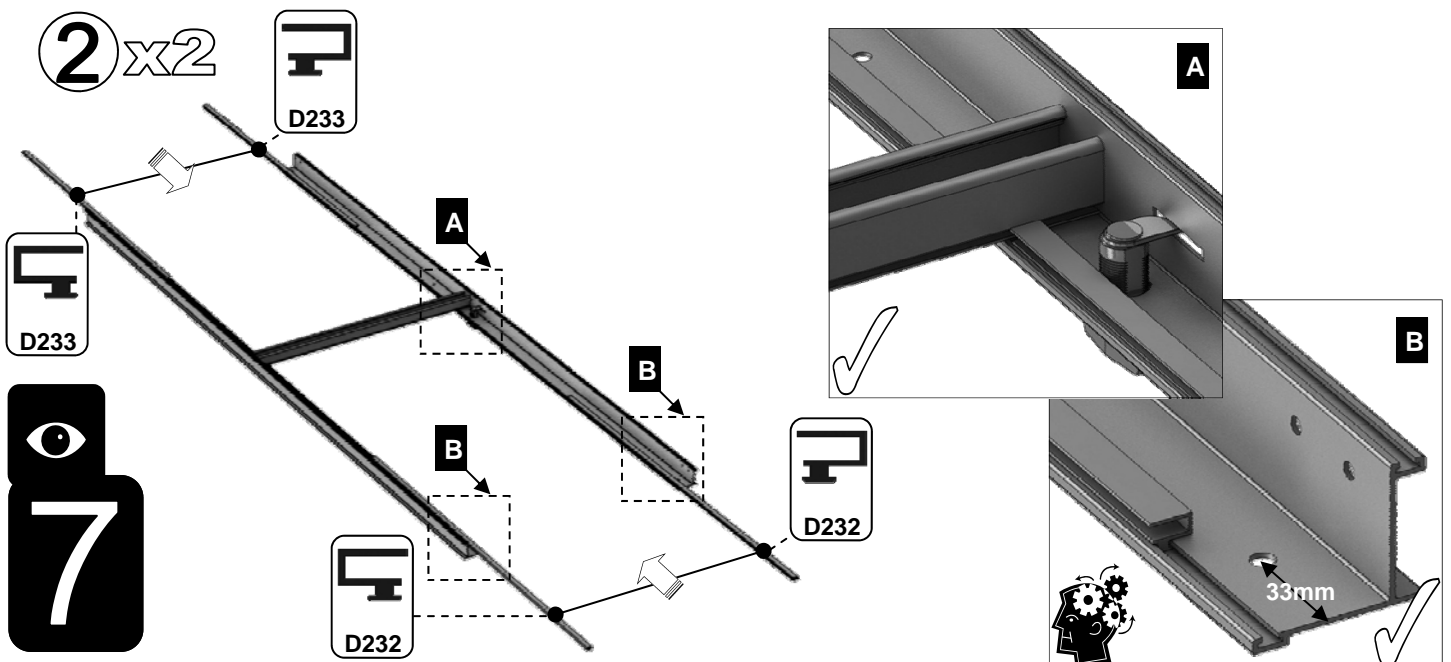
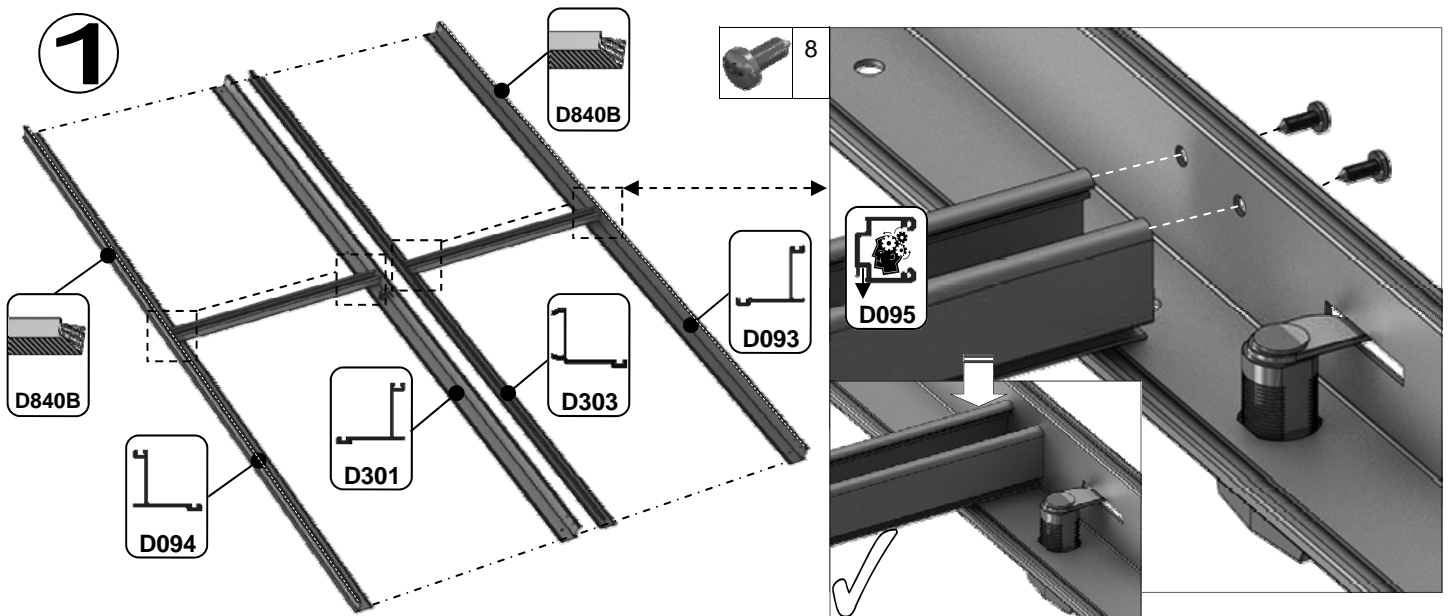


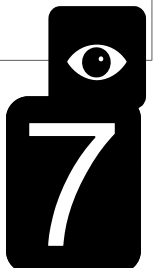
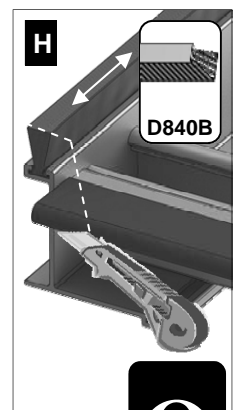
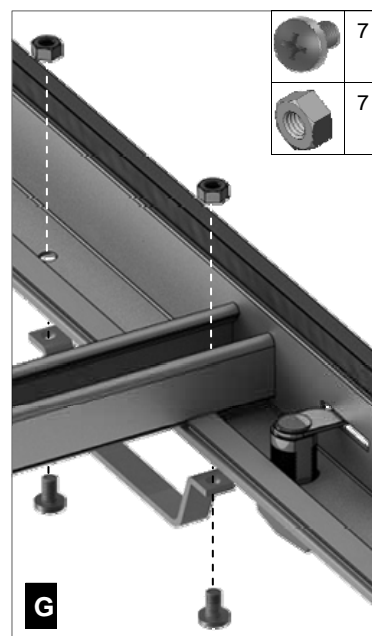
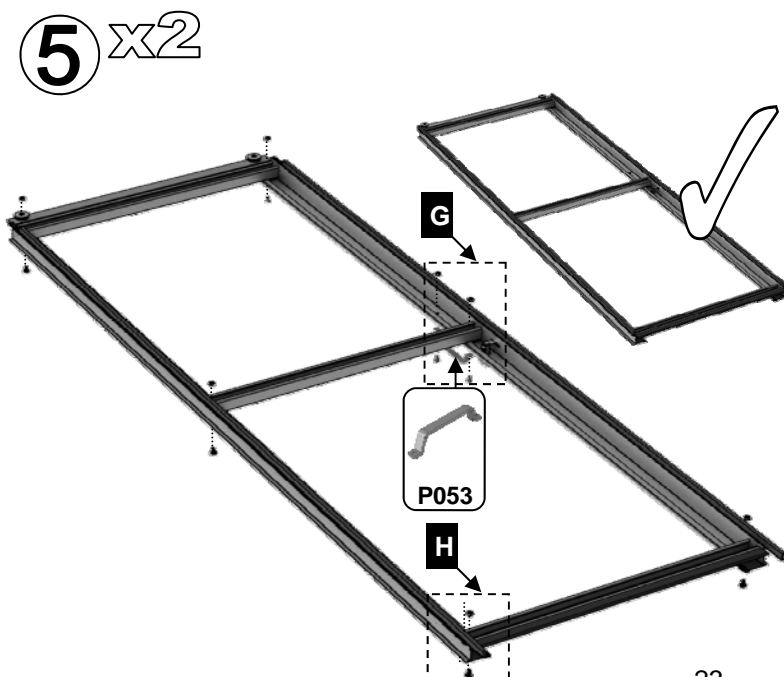
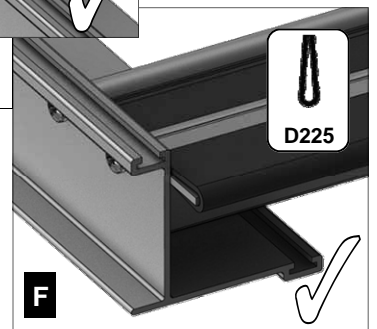
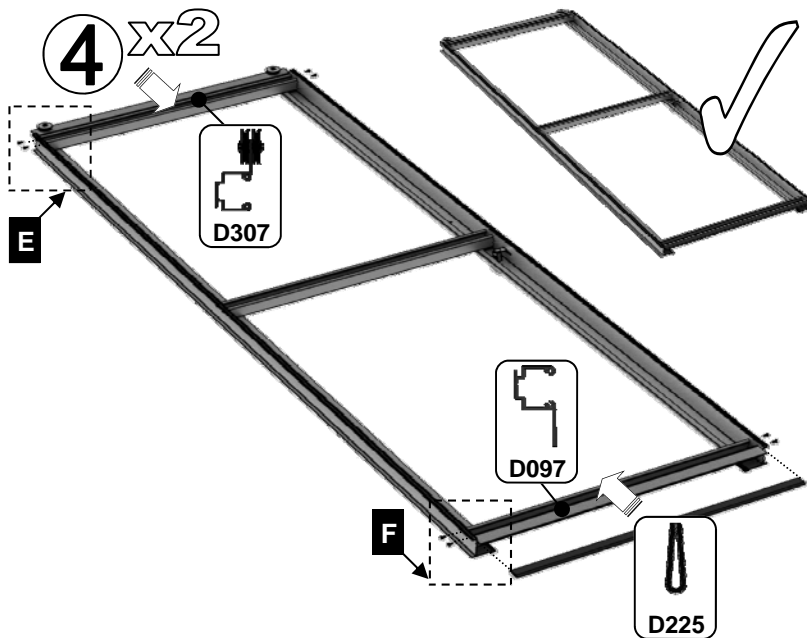
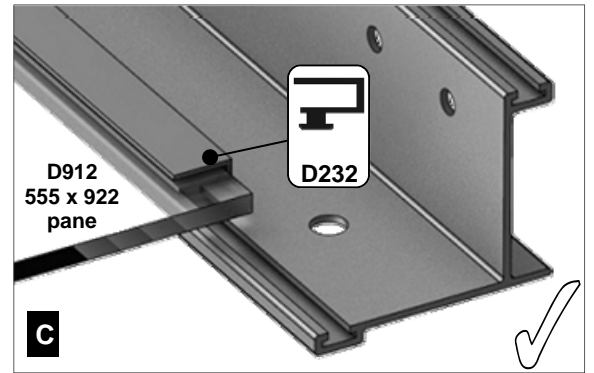
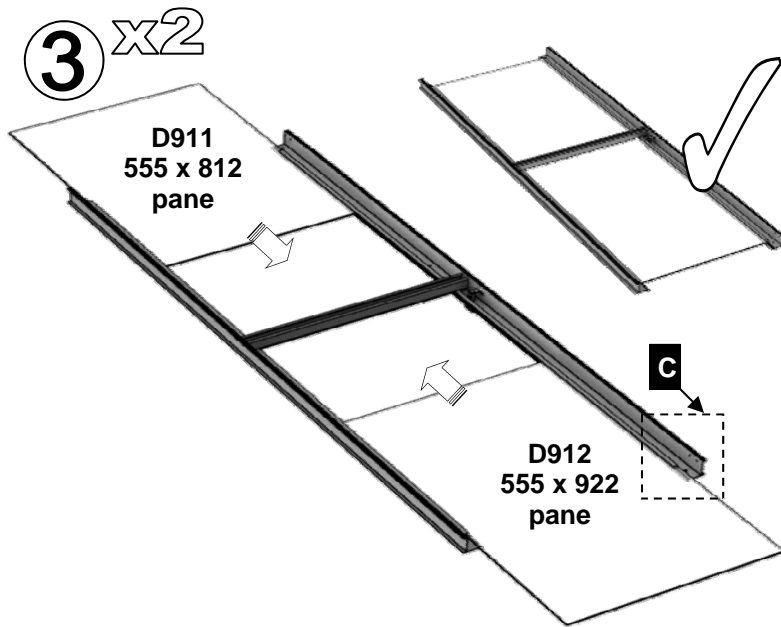
6b



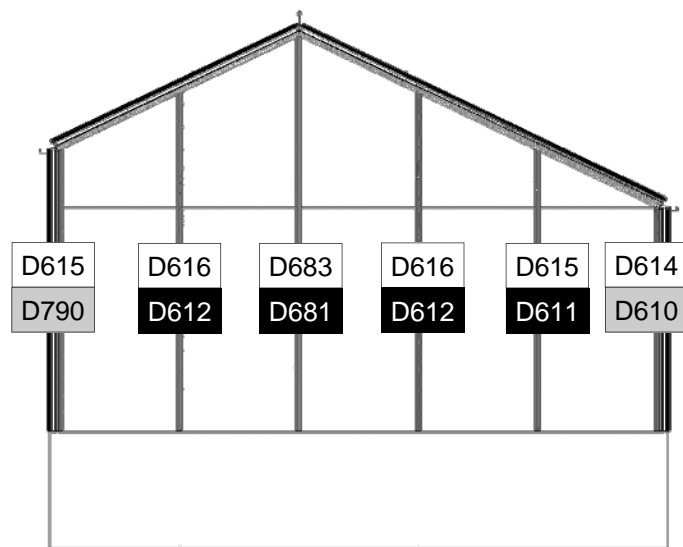
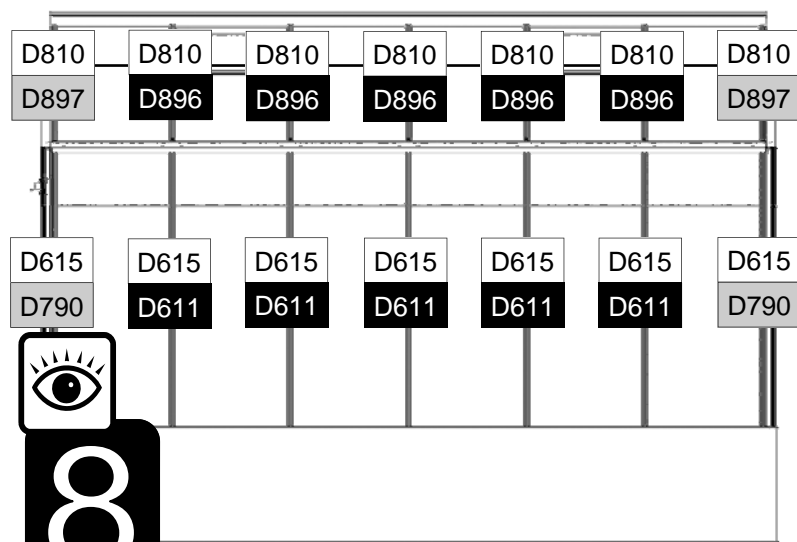
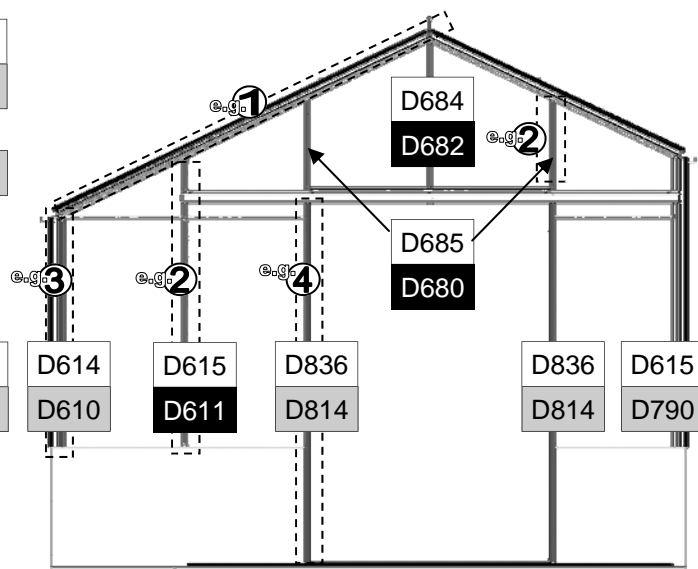
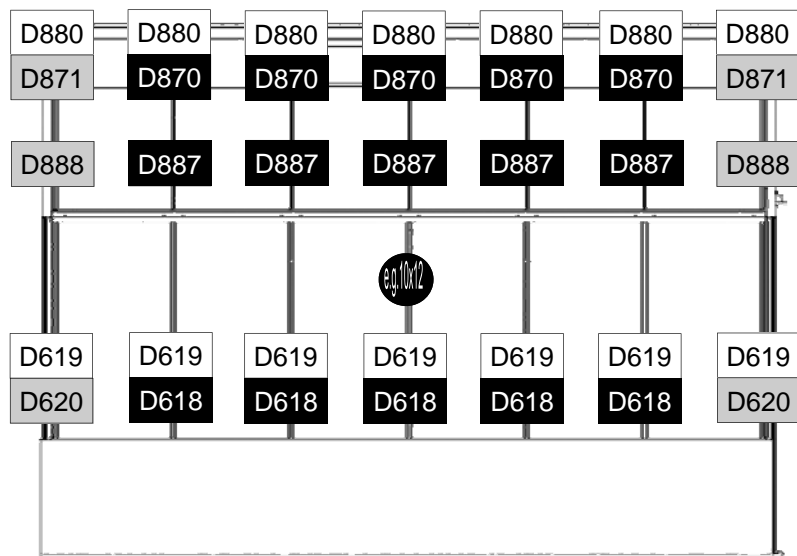
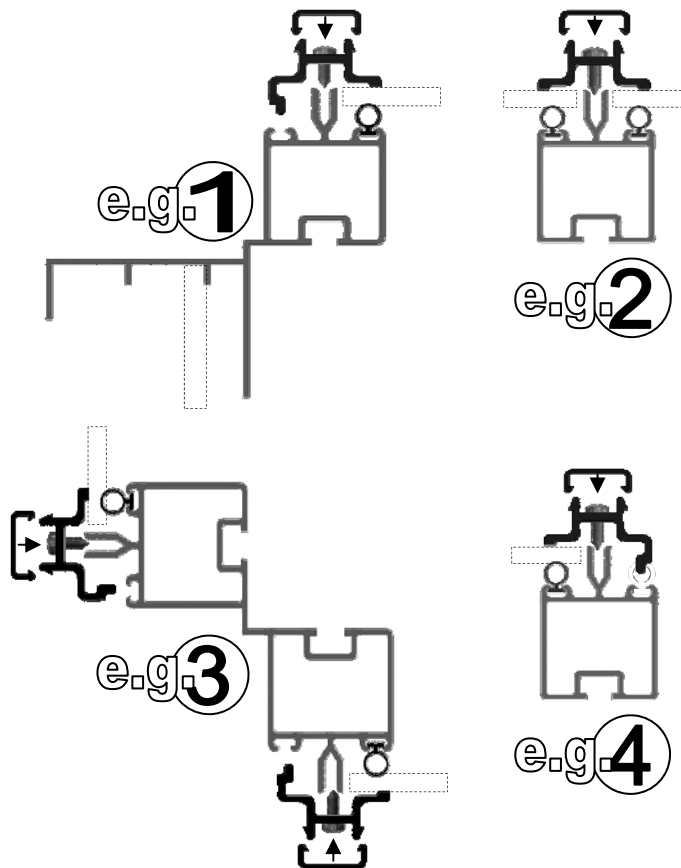
Part No		mm	Q
D094		1824	1
D090 + D347 lock = D301		1824	1
D092 + D156 strike = D303		1824	1
D093		1824	1
D096 + D217 wheel = D307		611	2
D095		611	2
D097		611	2

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

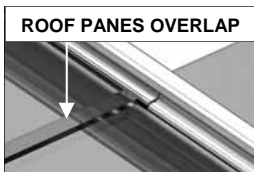




PART No	Section	Size (mm)	e.g.
D611		1460	
D612		1756	
D618		1144	
D680		457	
D681		2052	
D682		746	
D870		601	
D887		1490	
D896		1405	
D610		1160	
D612		1756	
D620		1144	
D790		1460	
D814		1883	
D871		601	
D888		1490	
D897		1405	
D614		1162	
D615		1462	
D616		1758	
D619		1144	
D683		2054	
D684		748	
D685		459	
D810		1405	
D836		1883	
D880		2092	

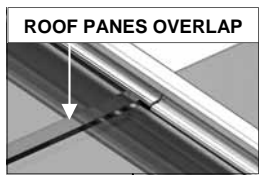
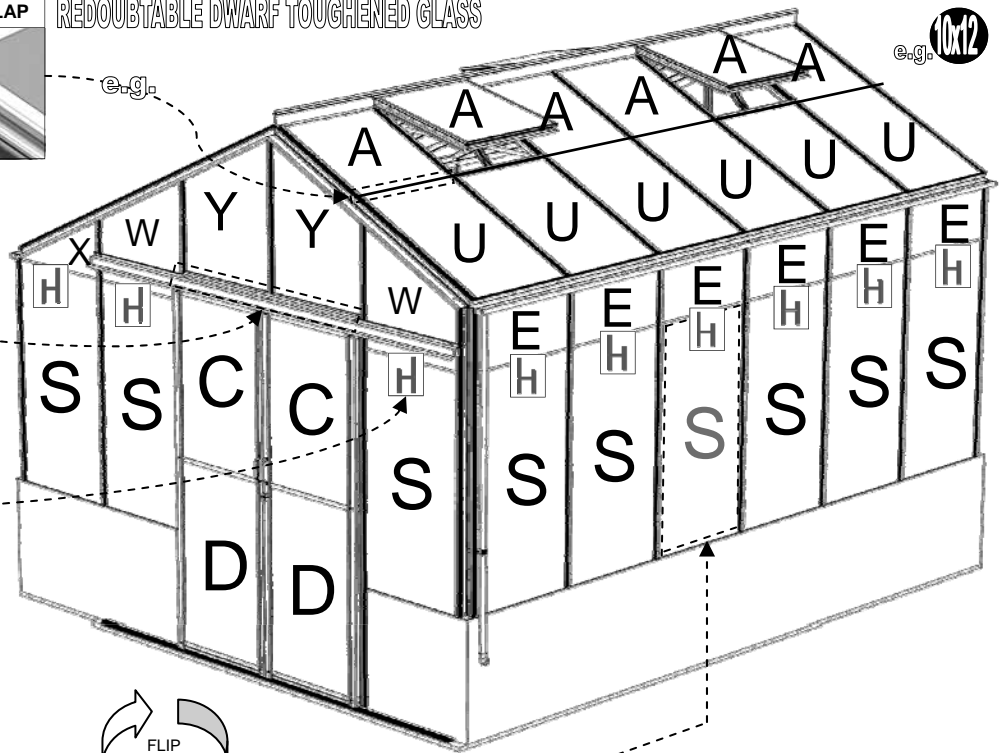
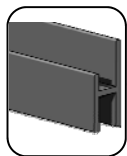
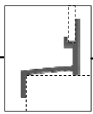
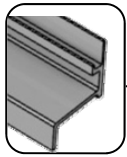


8

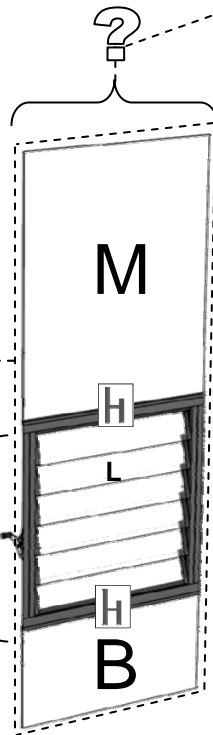
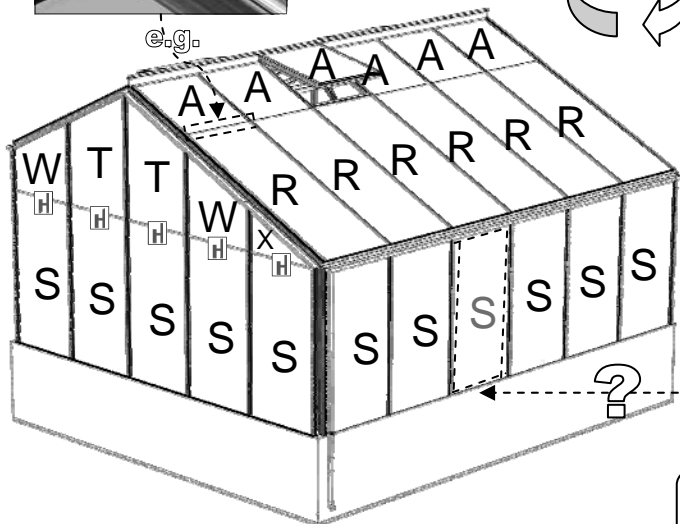
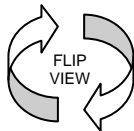


REDOUTABLE DWARF TOUGHENED GLASS

e.g. 10x12



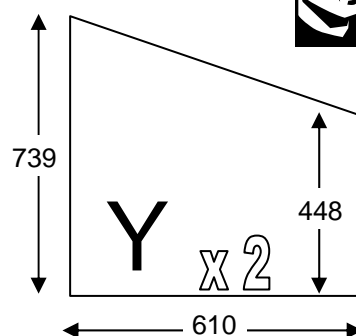
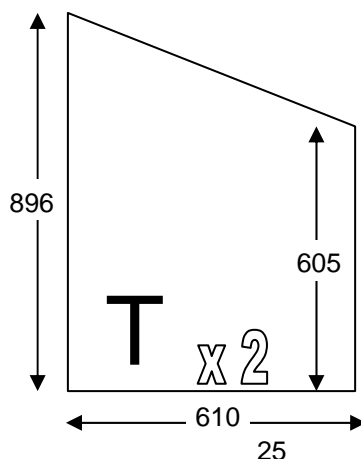
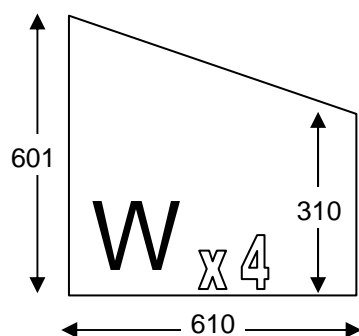
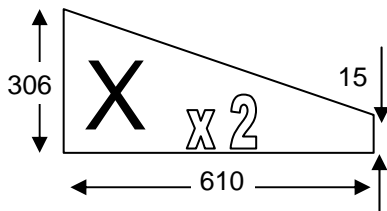
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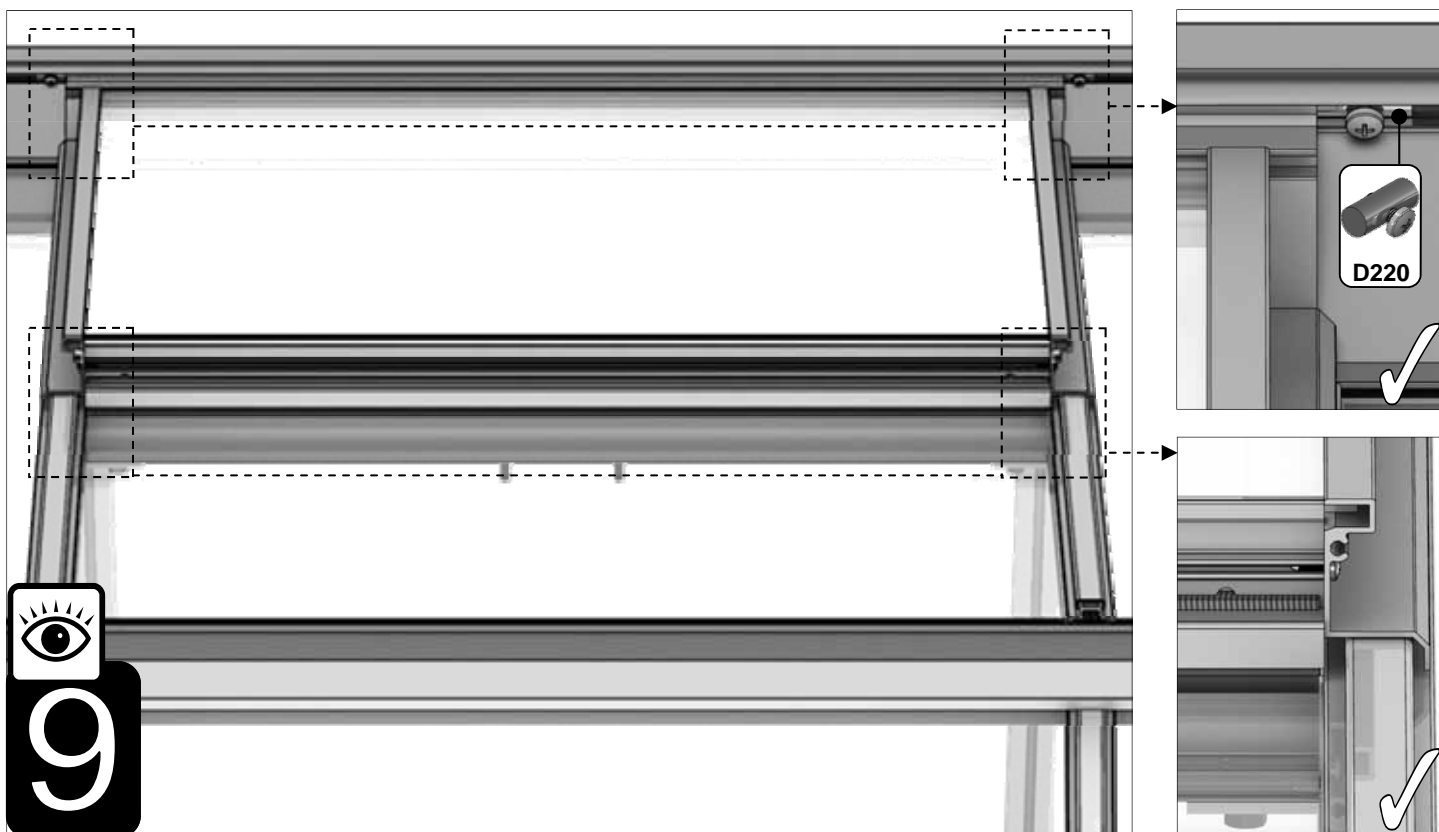
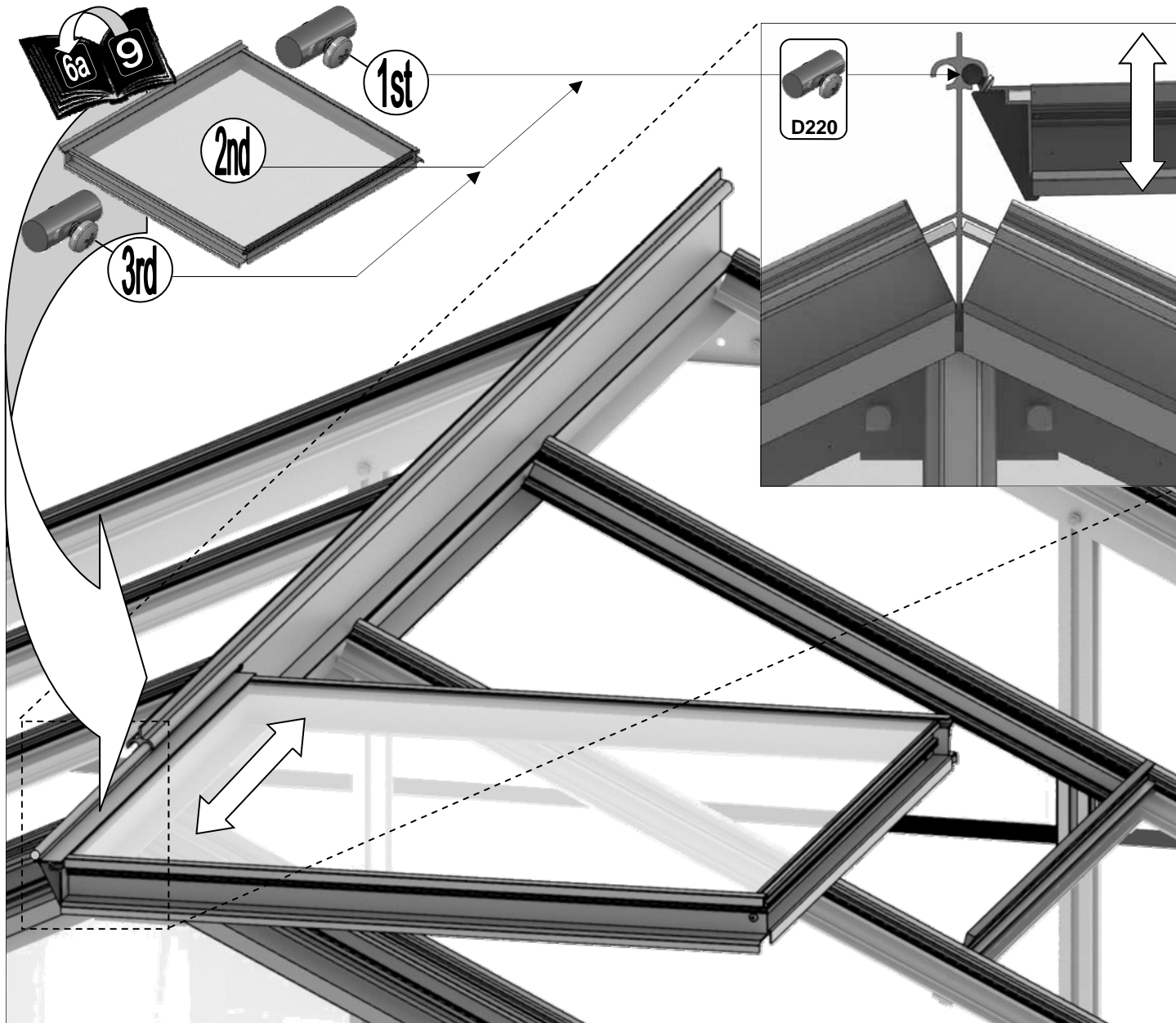


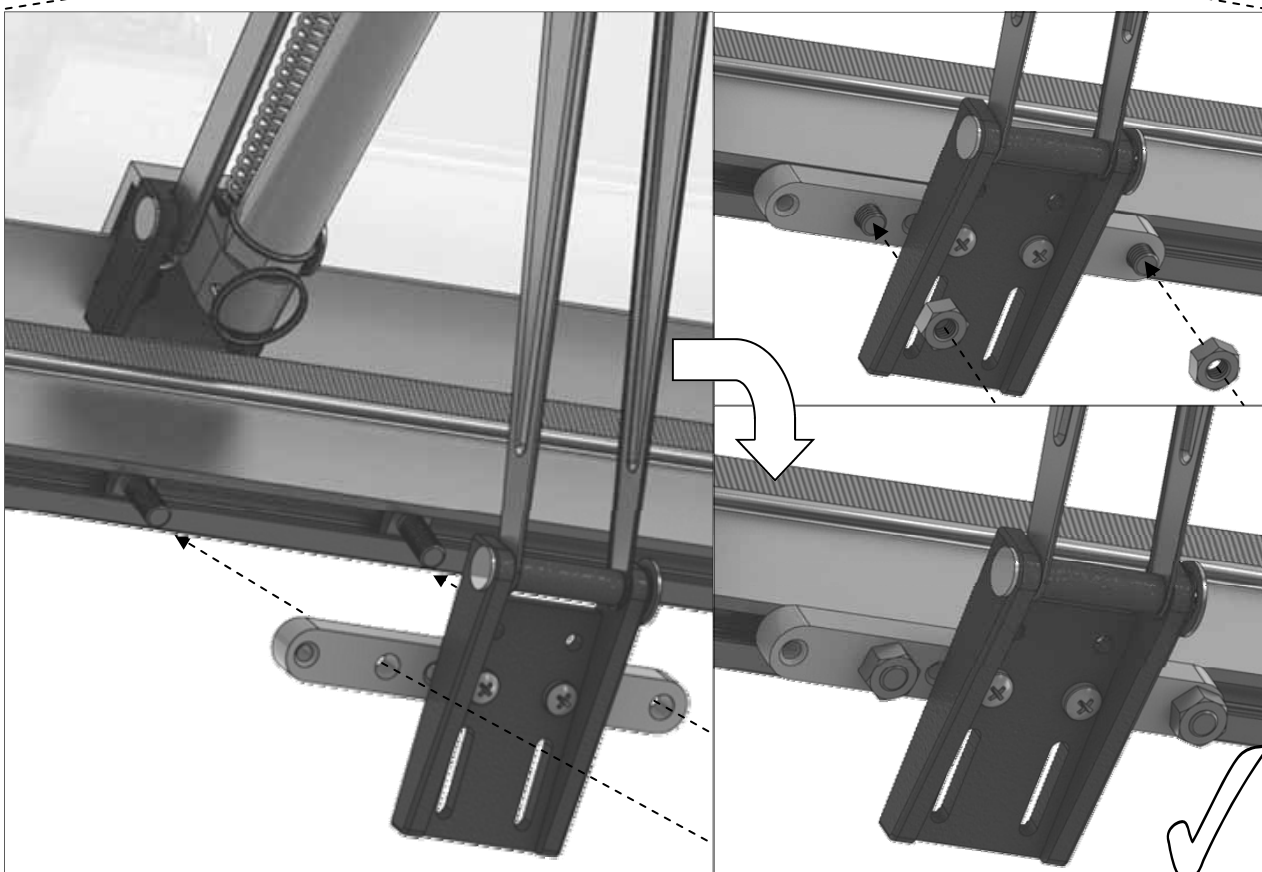
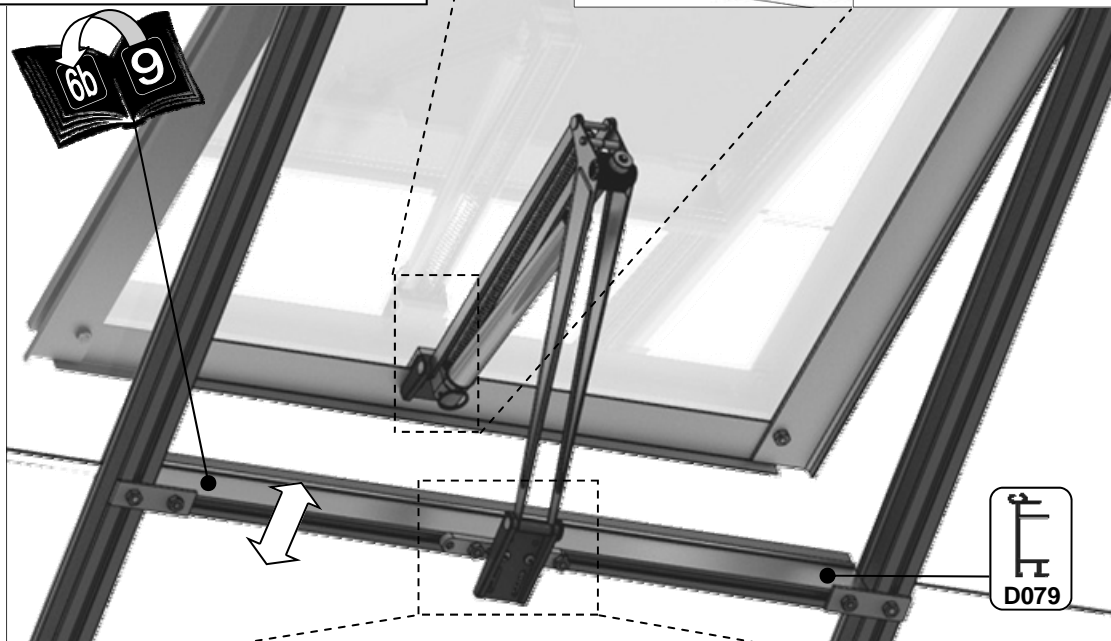
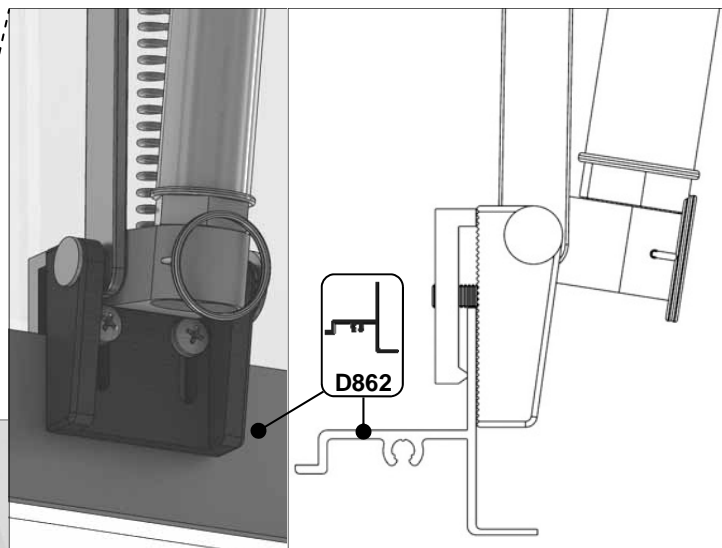
PART No		Size (mm)	6'	8'	10'	12'
D1216	S	610 X 1162	13	14	16	18
-	E	610 X 300	3	4	5	6
D1208	A	610 X 610	6	8	10	12
D892	R	610 X 1500	3	4	5	6
D1212	U	610 X 812	3	4	5	6
D911	C	555 X 812	2			
D912	D	555 X 922	2			
D900	X	ANGLE	2			
D908	W	ANGLE	4			
D890	T	ANGLE	2			
D623	Y	ANGLE	2			
D223/B		1210 LONG	1			
D101 / ROSEPS	H	610 LONG	11	12	13	14






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








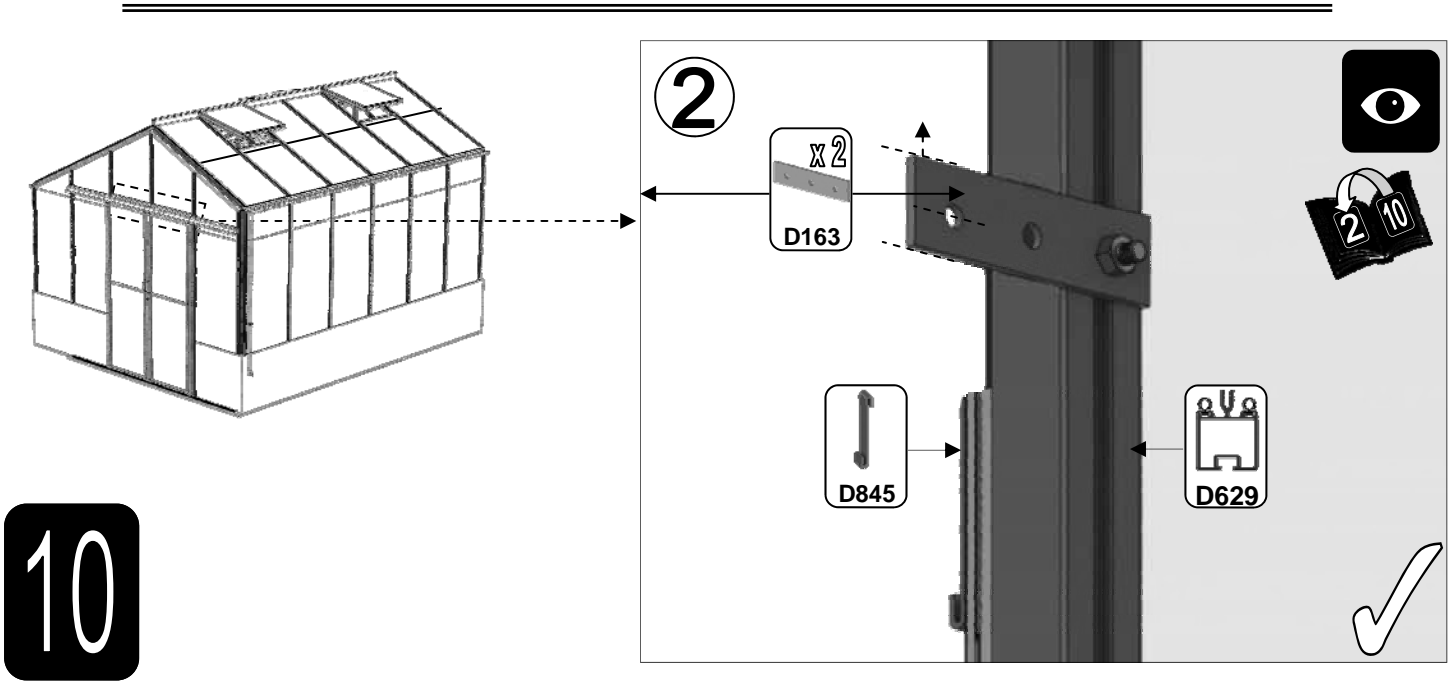
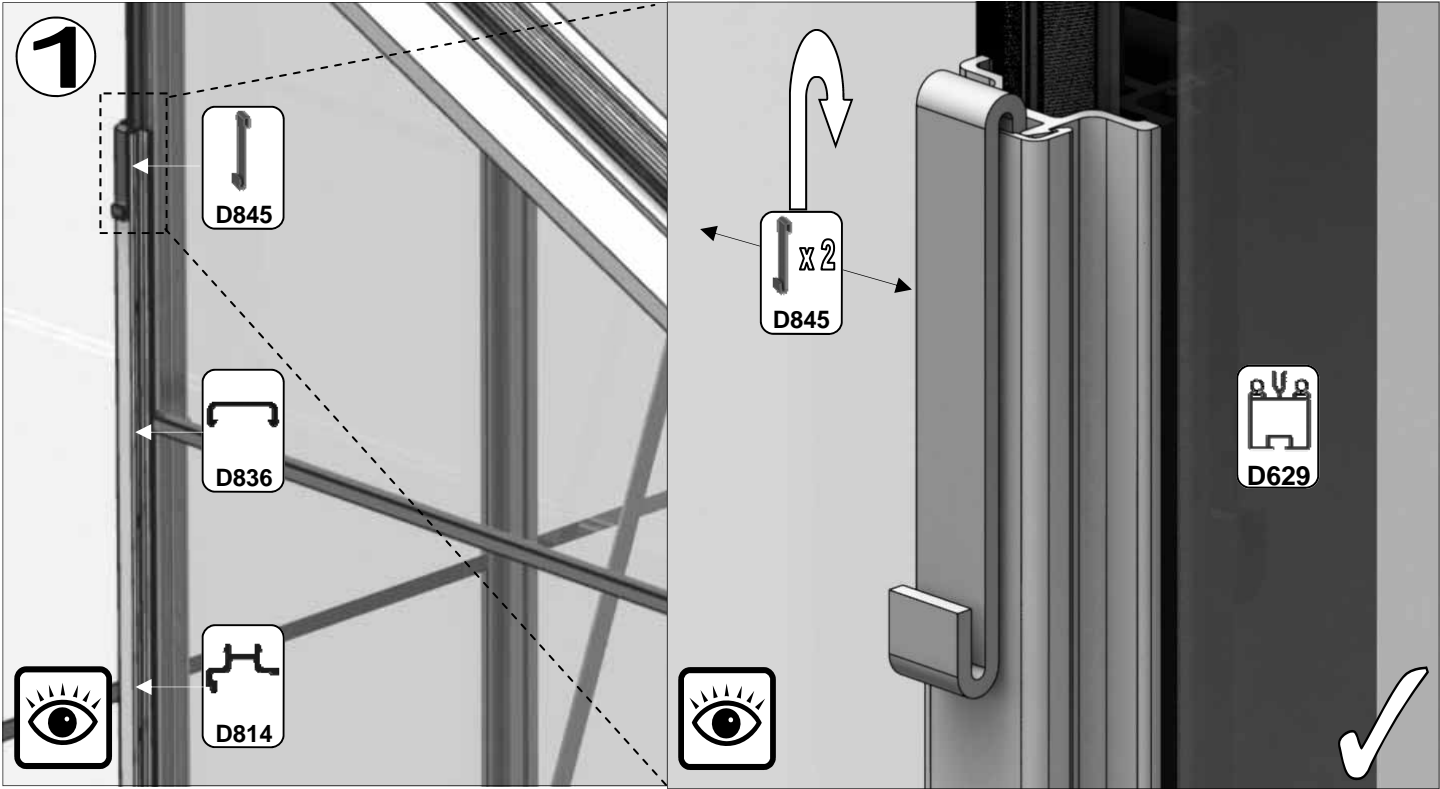
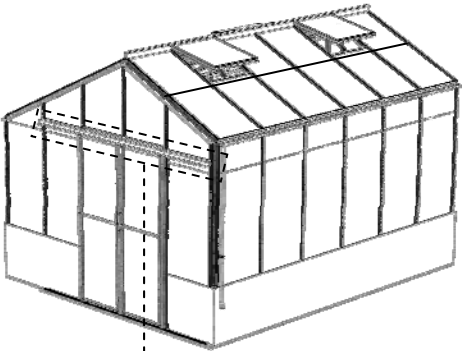




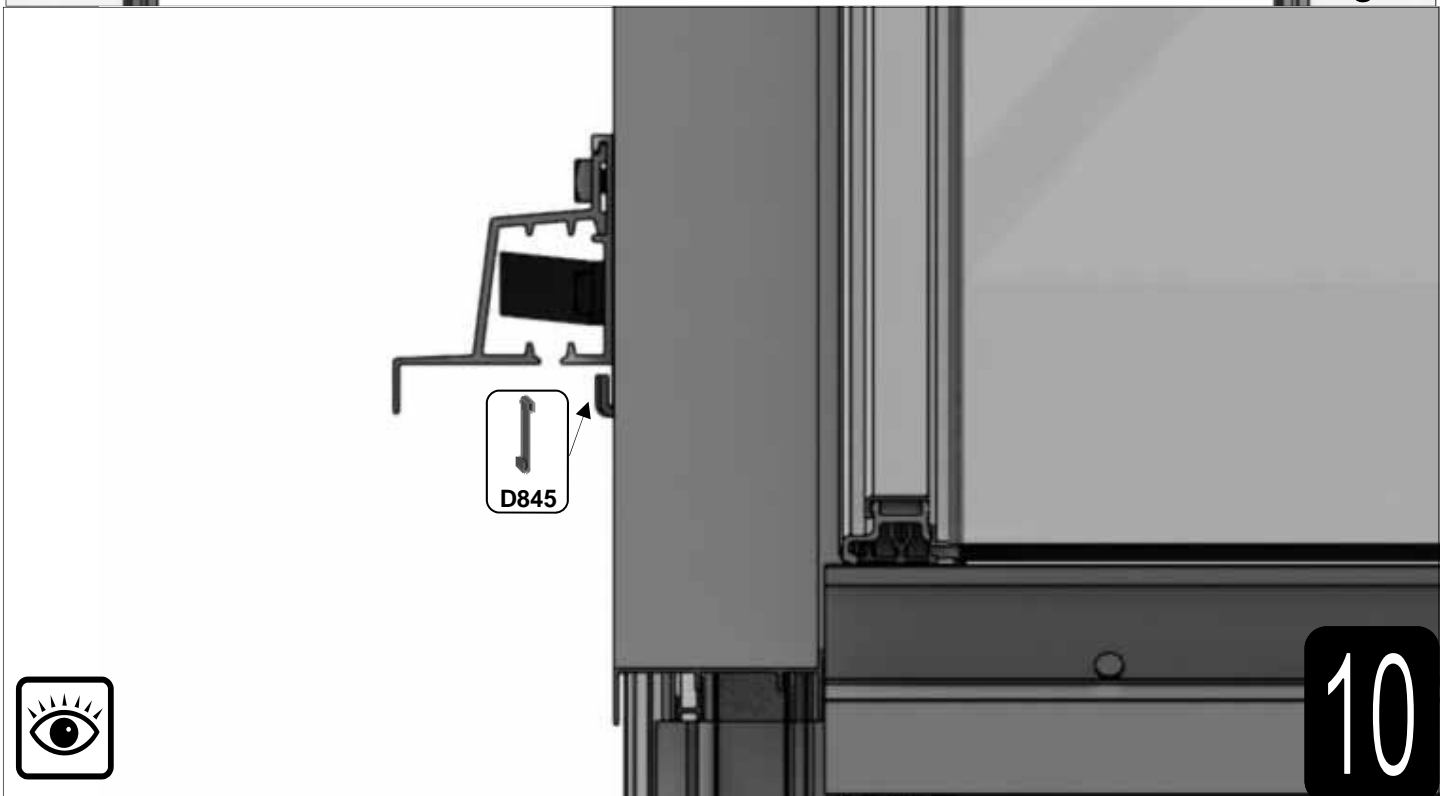
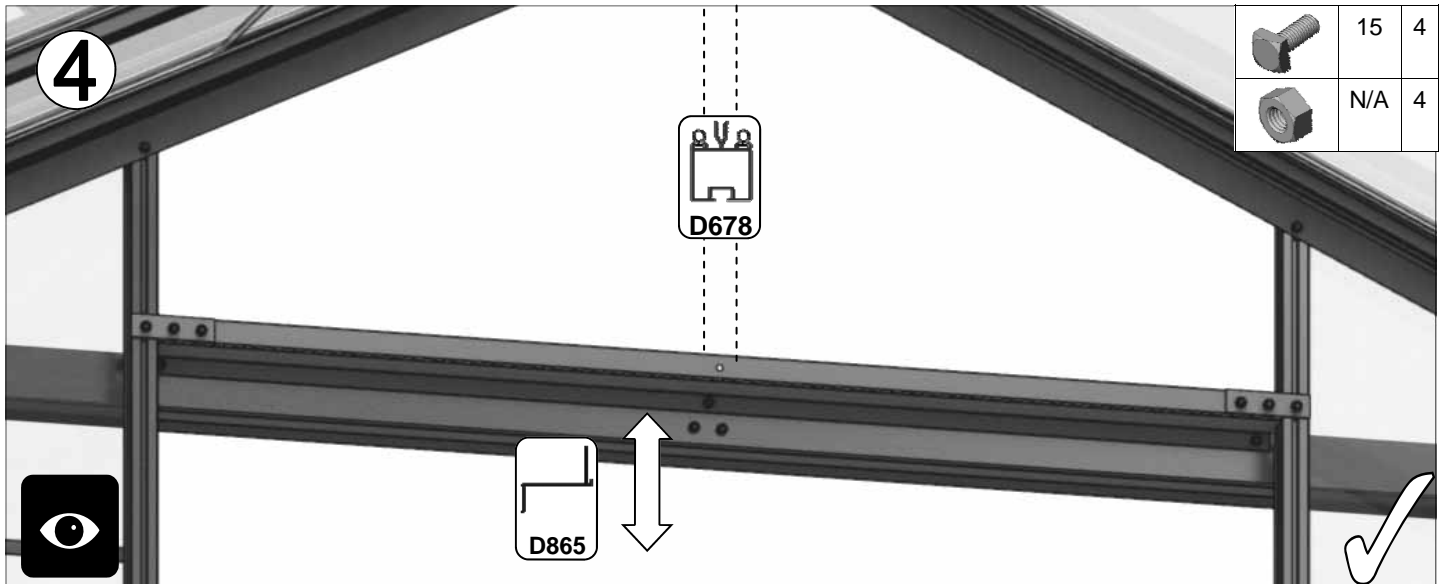
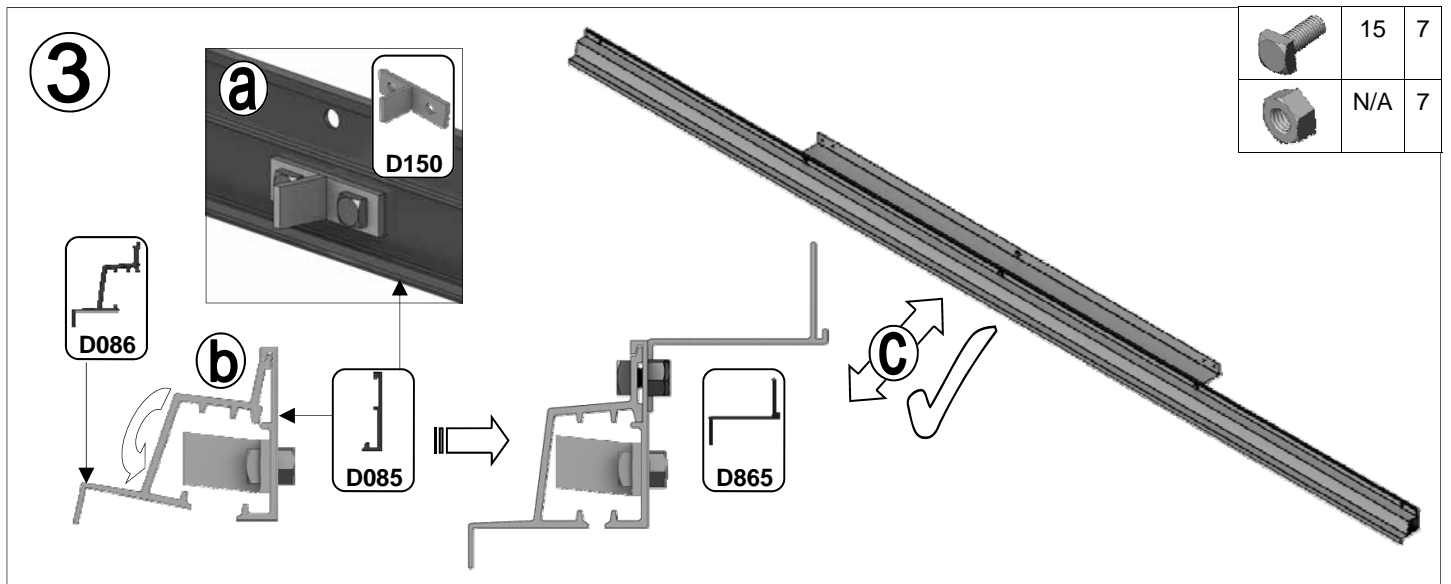
9



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

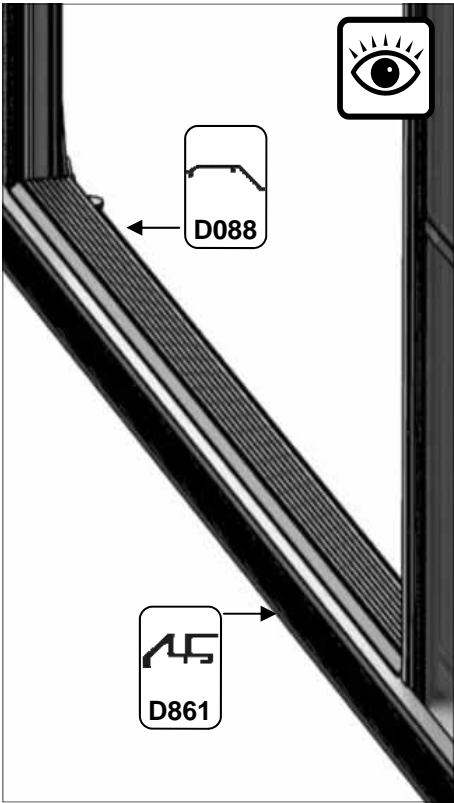
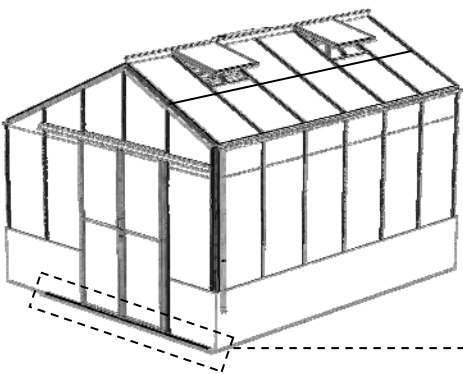
Part No		mm	Q
D163		90	2
D150			1
D845			2
SY-BOLM6X15			11
SYNUTM6			11



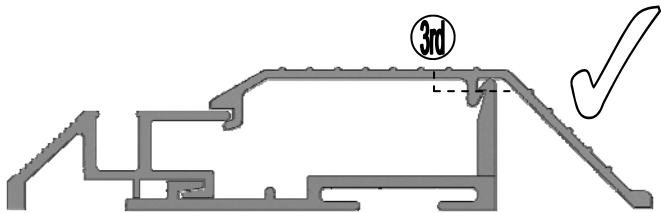
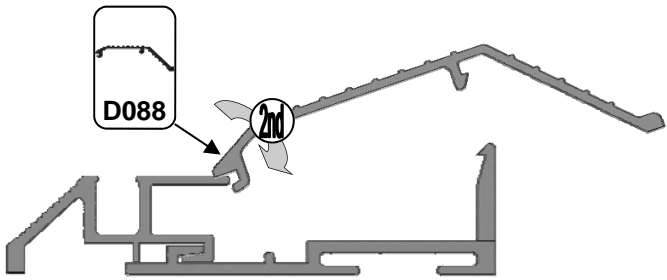
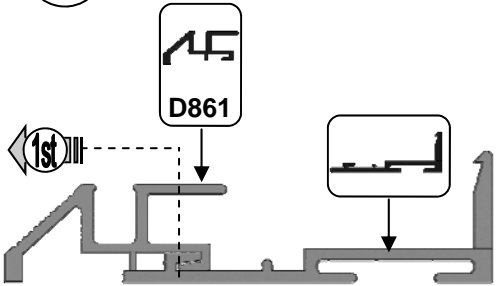
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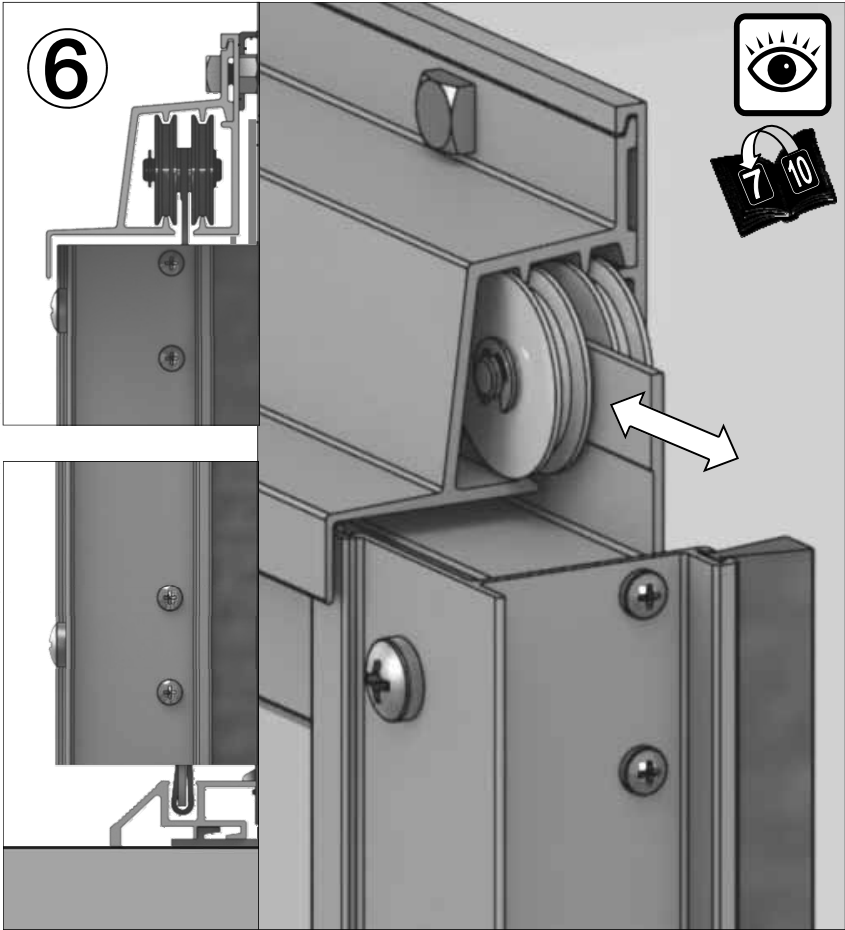
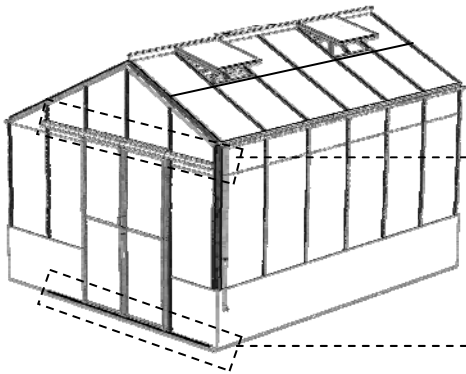
Part No		Q
D861		1
D088		1

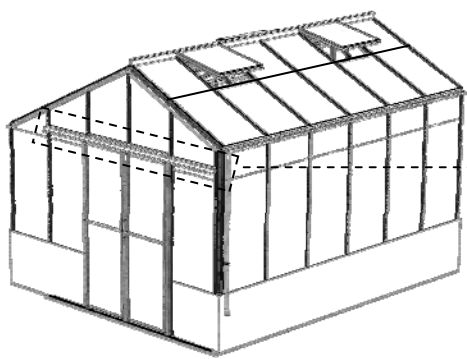


5

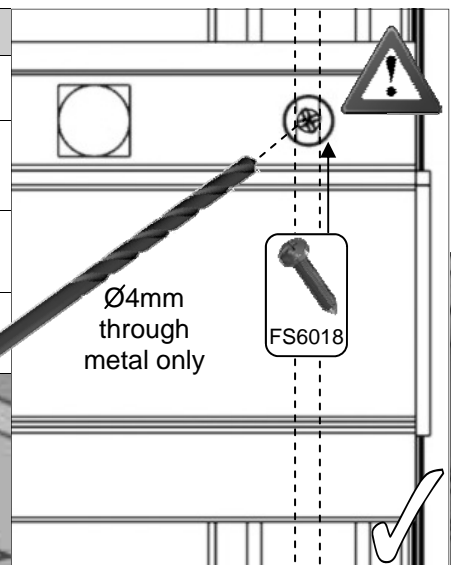


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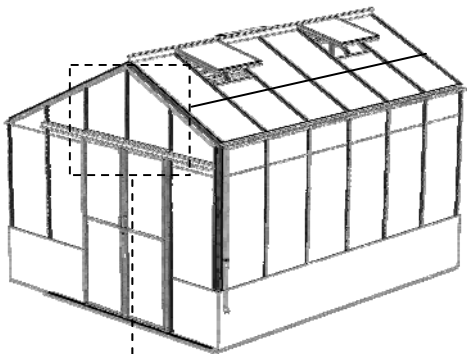
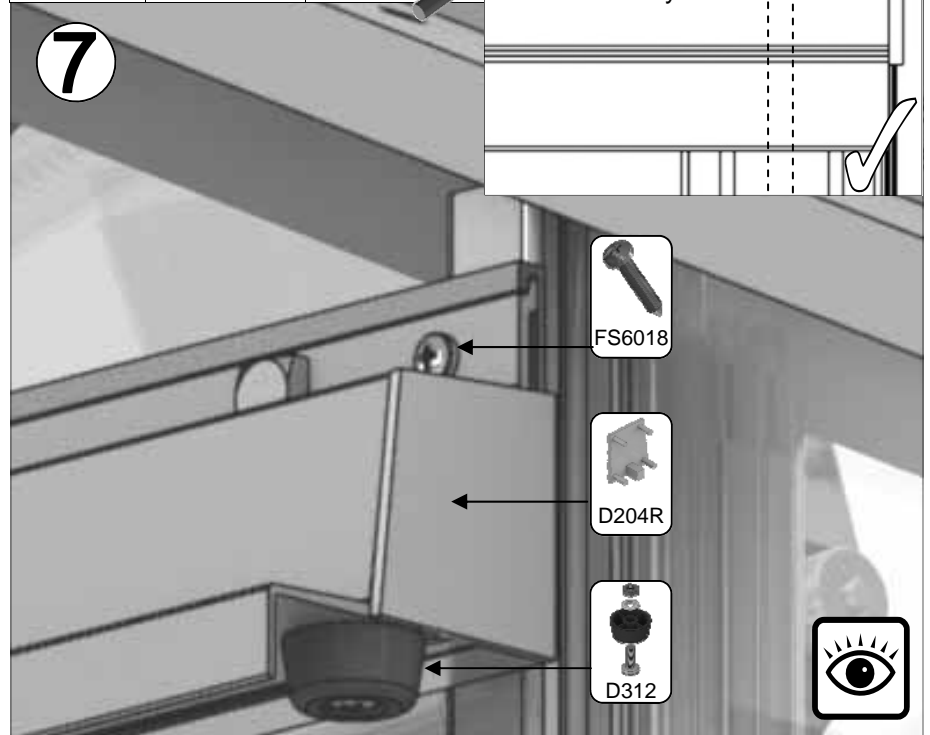




Part No		Quantity
FS6018		2
D312		2
D204L /B		1
D204R /B		1

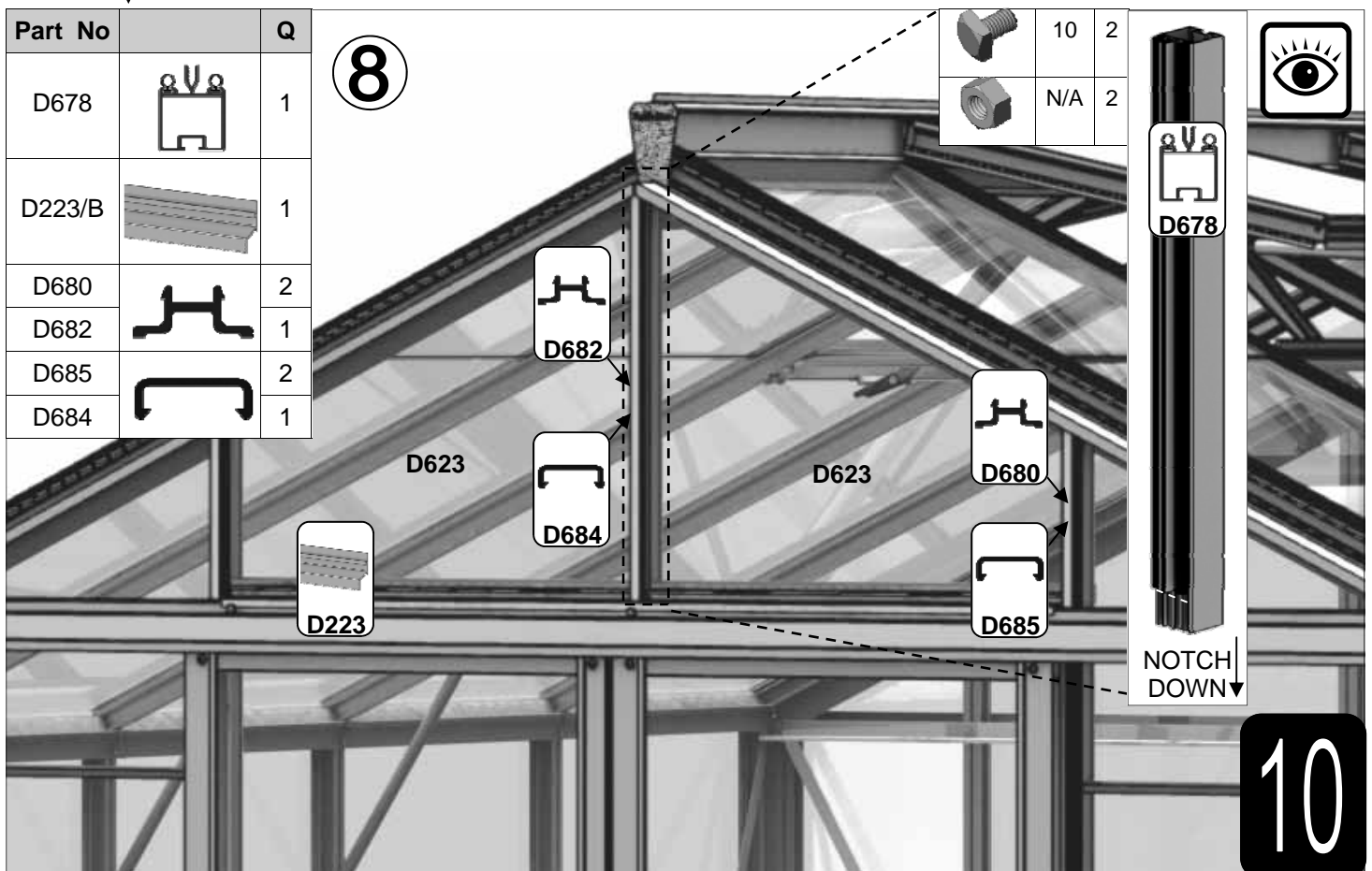


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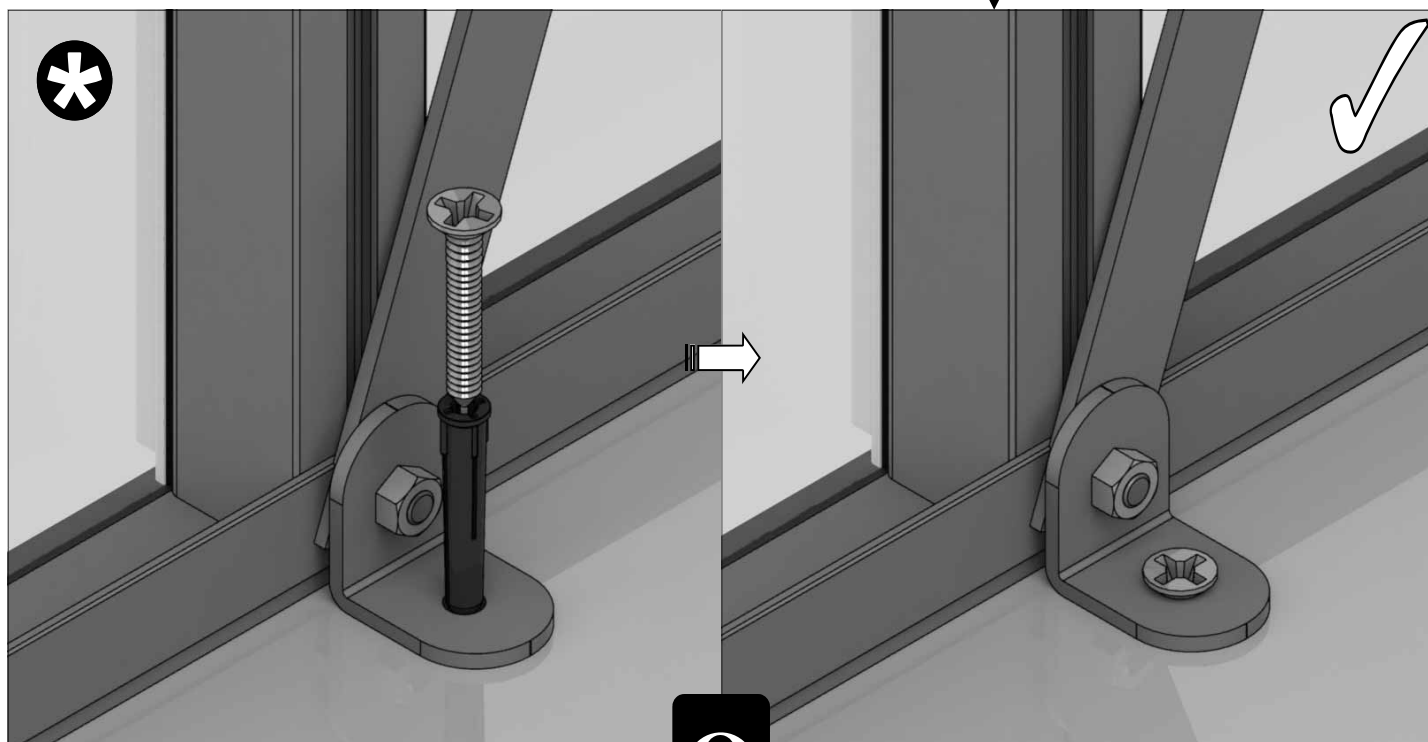
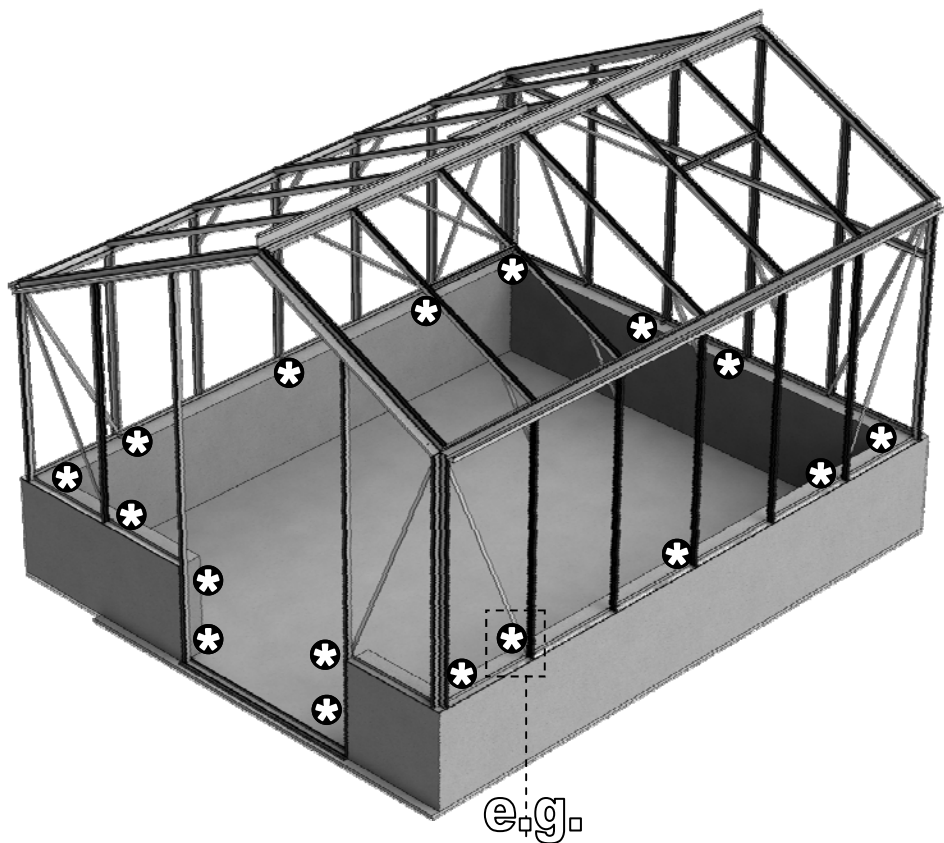
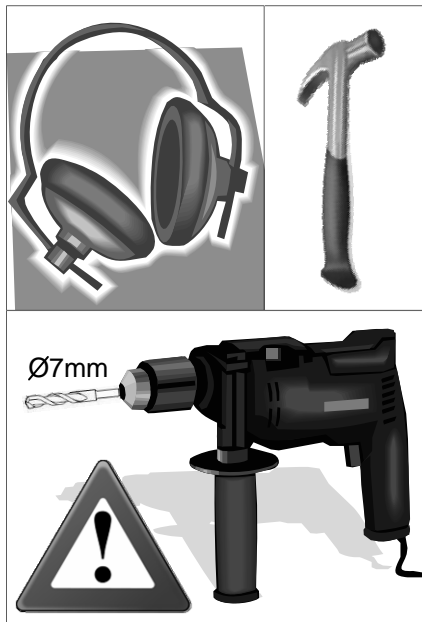


Part No		Q
D678		1
D223/B		1
D680		2
D682		1
D685		2
D684		1

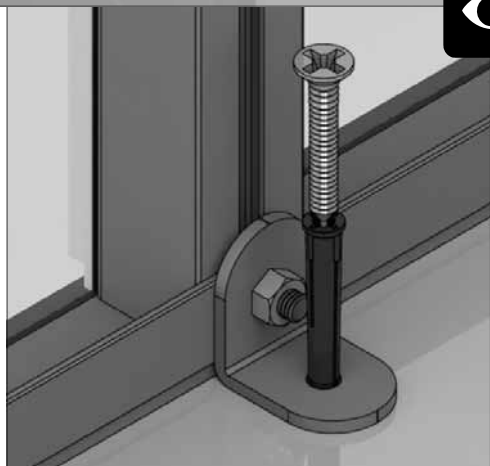
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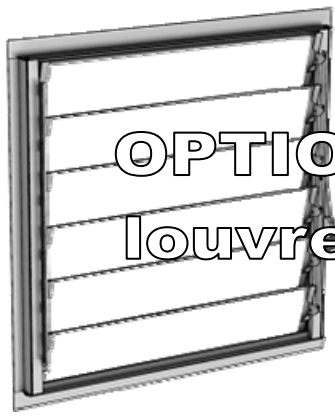


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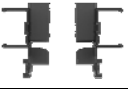
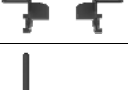
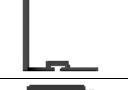




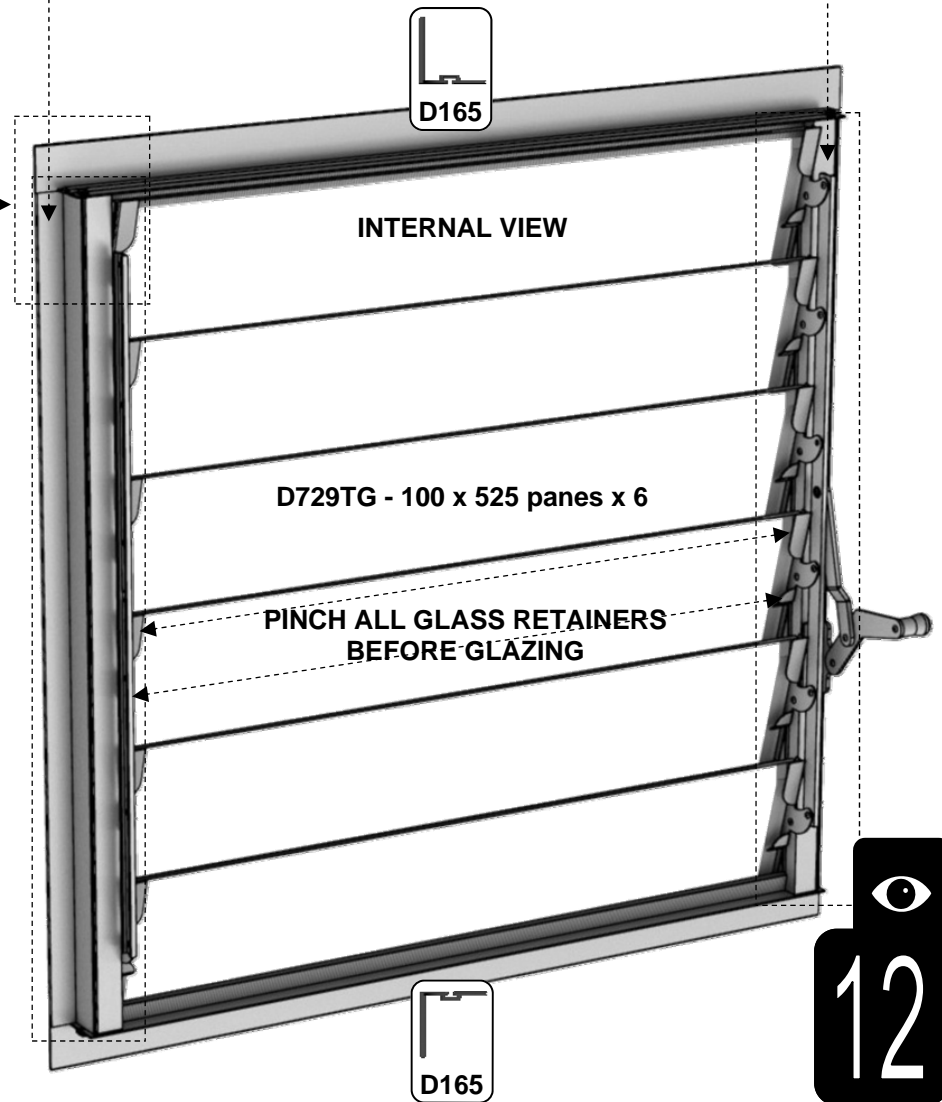
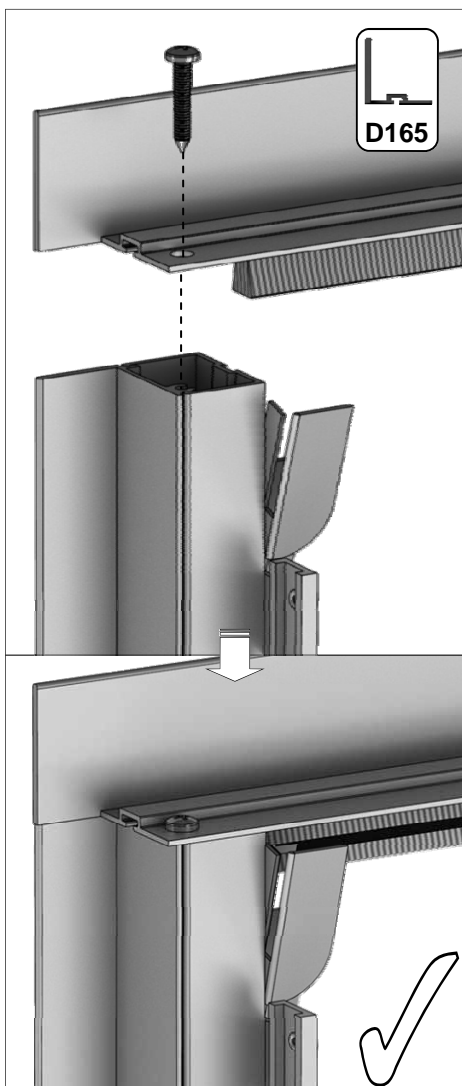
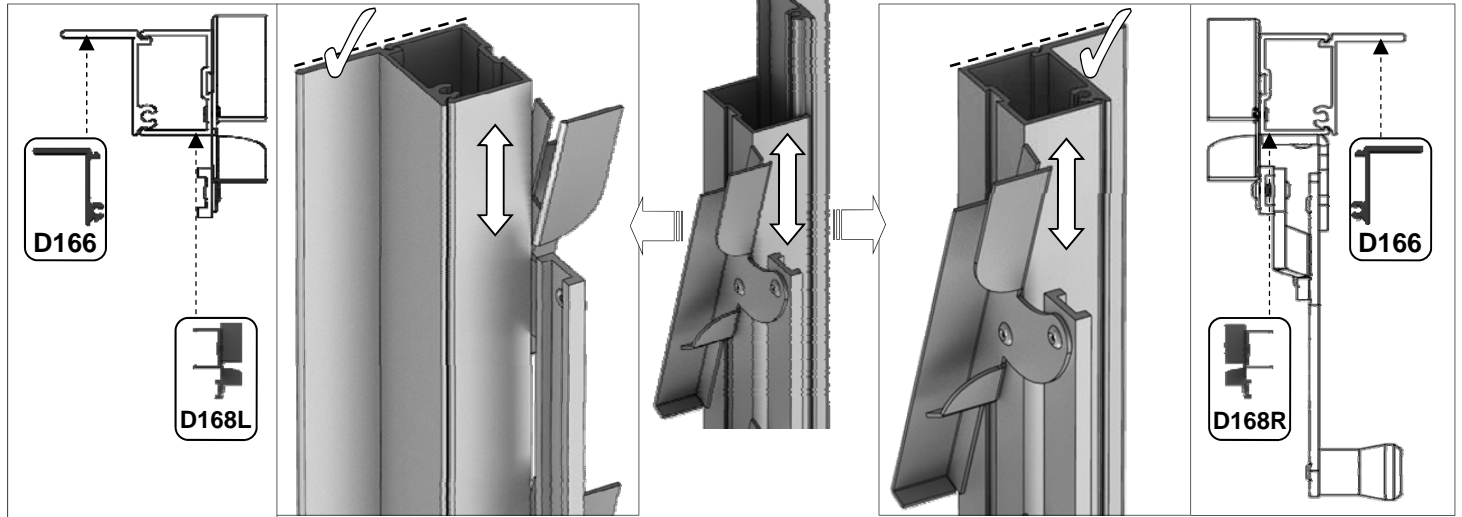
11



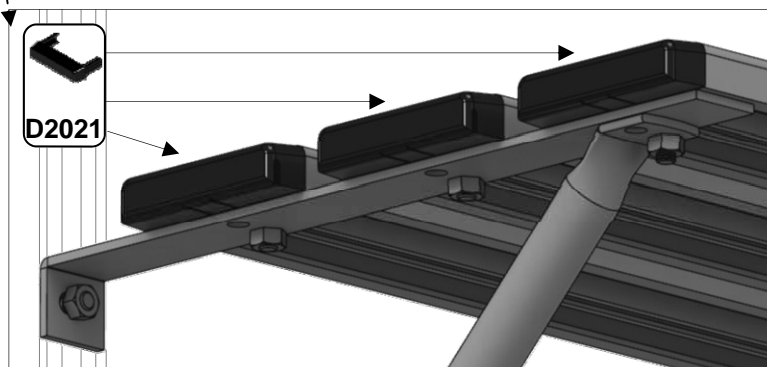
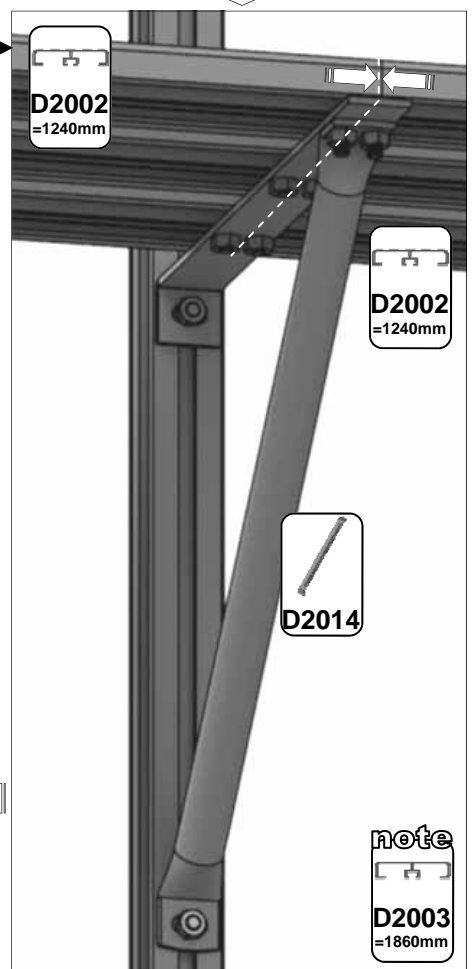
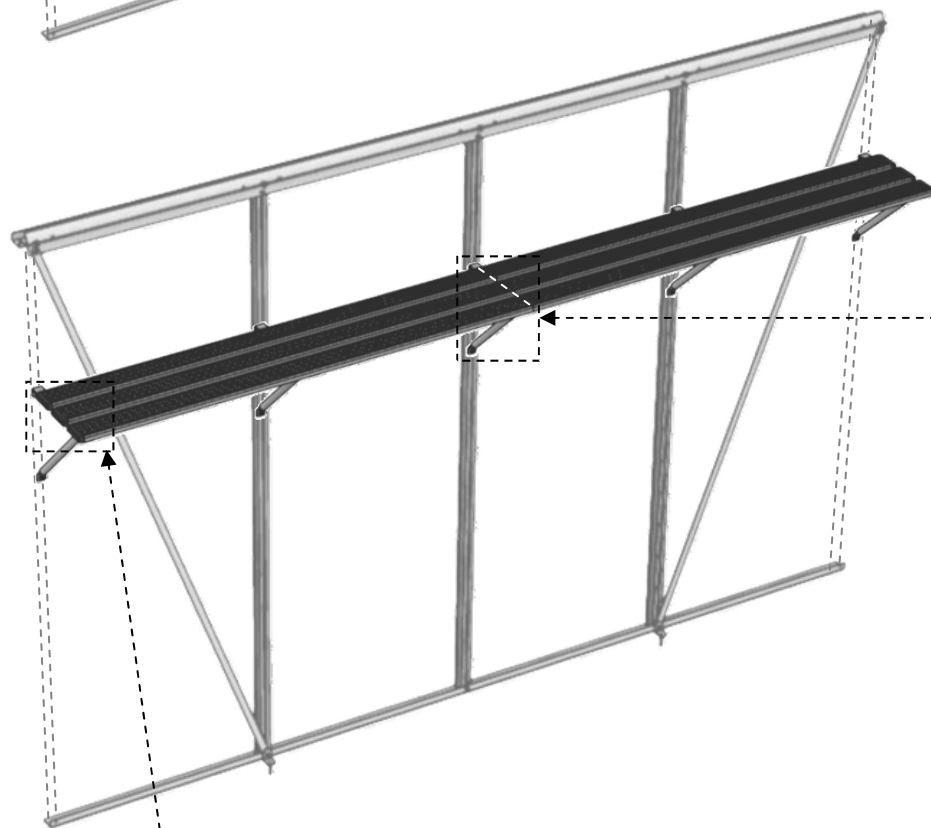
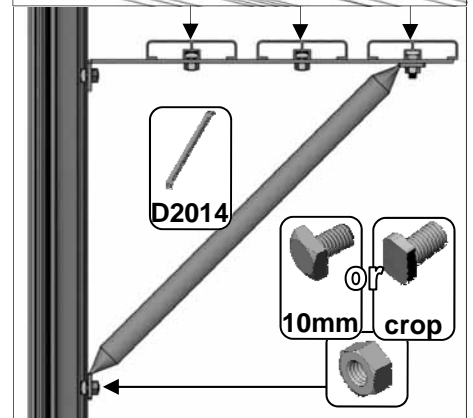
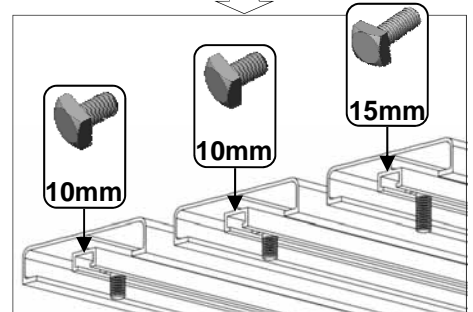
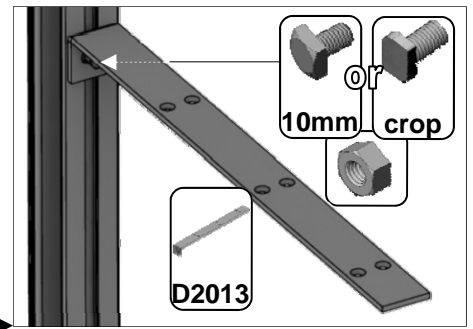
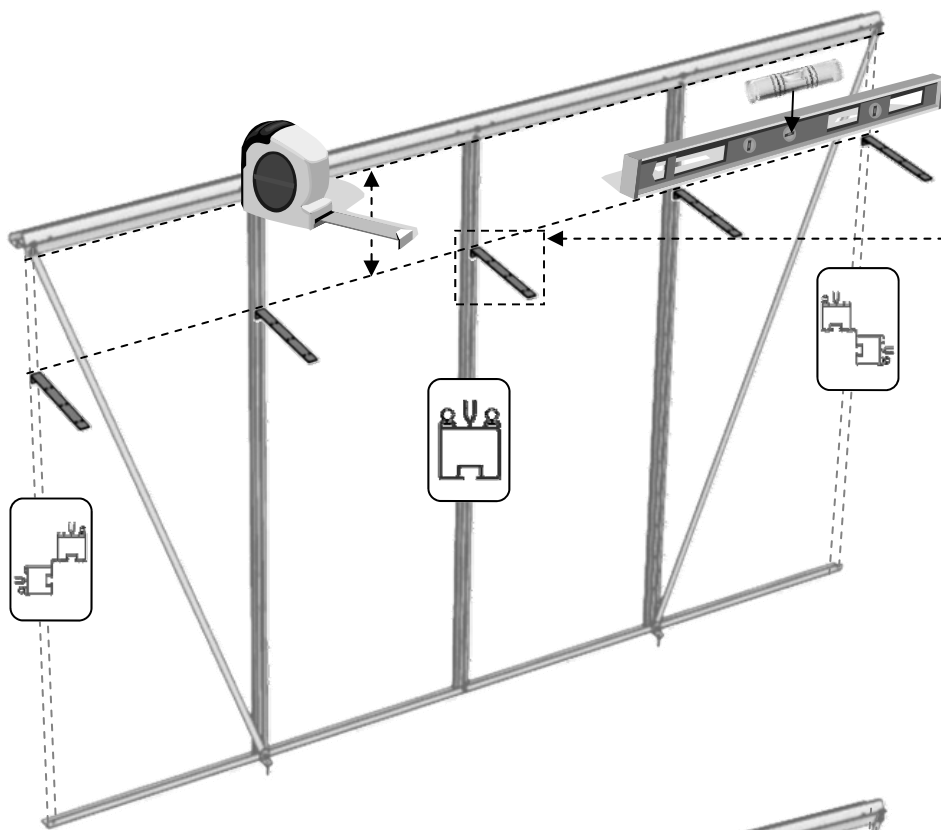


OPTIONAL
louvre = {

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

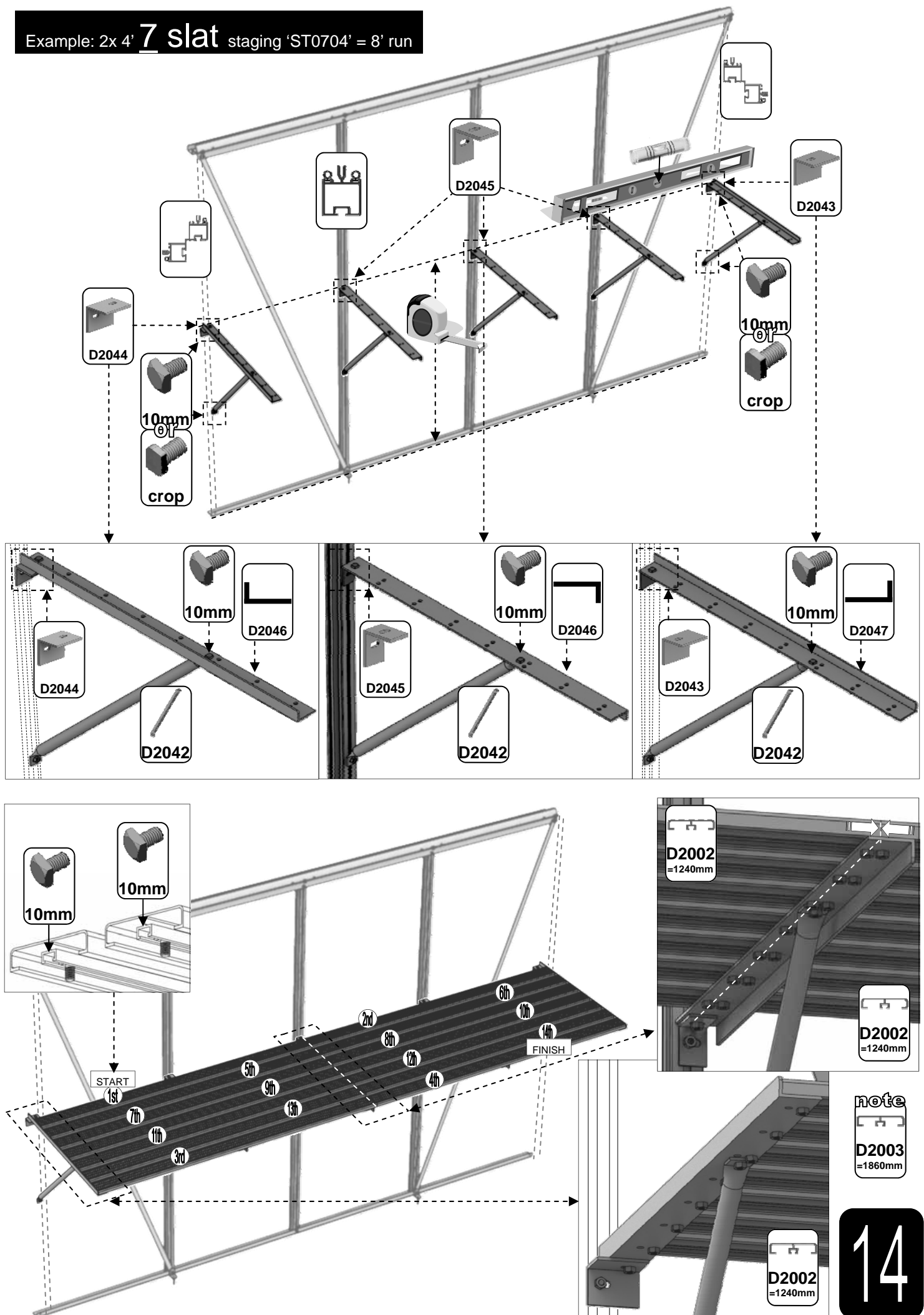


Example: 2x 4' **3** slat shelves 'ST0304' = 8' run

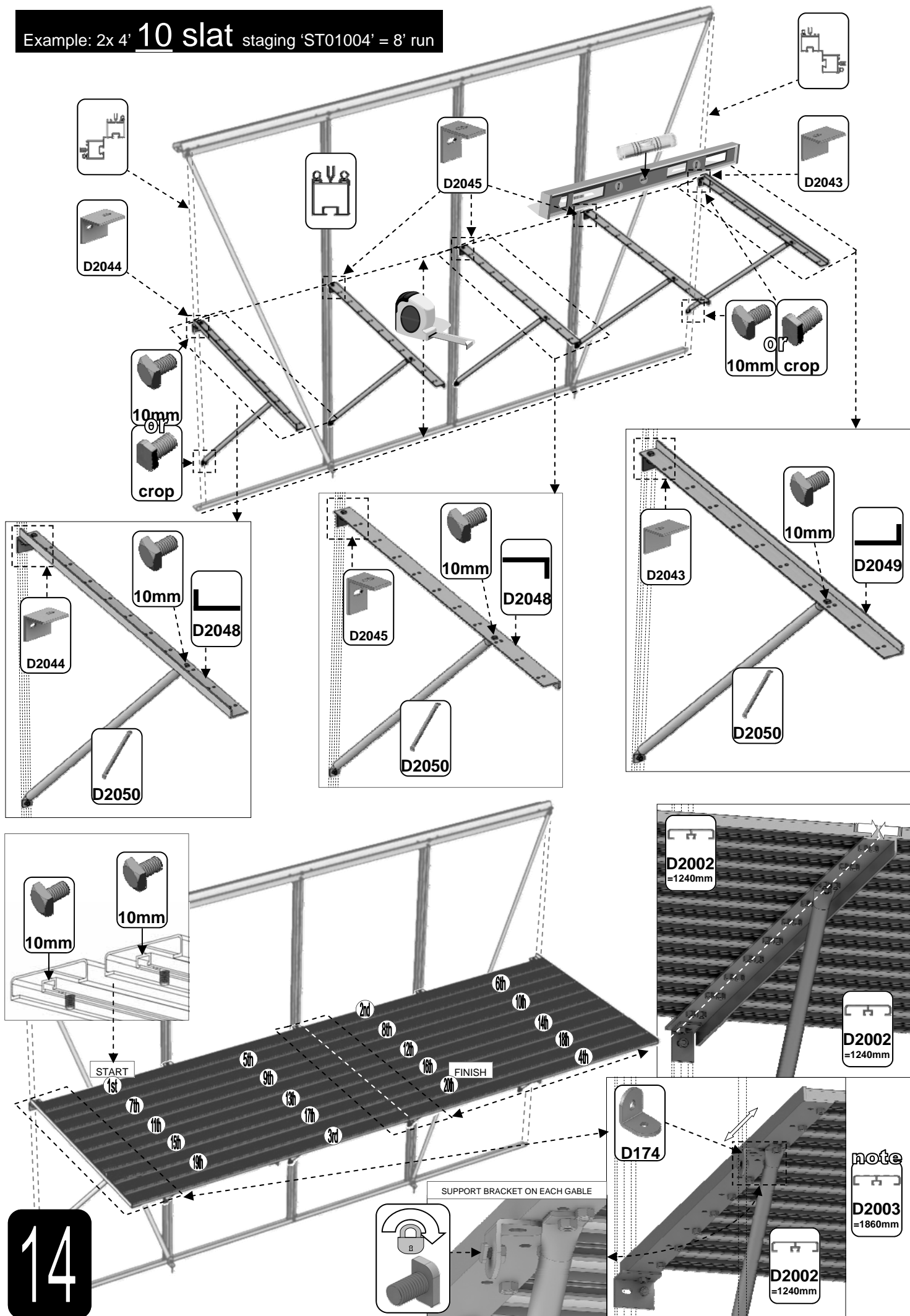


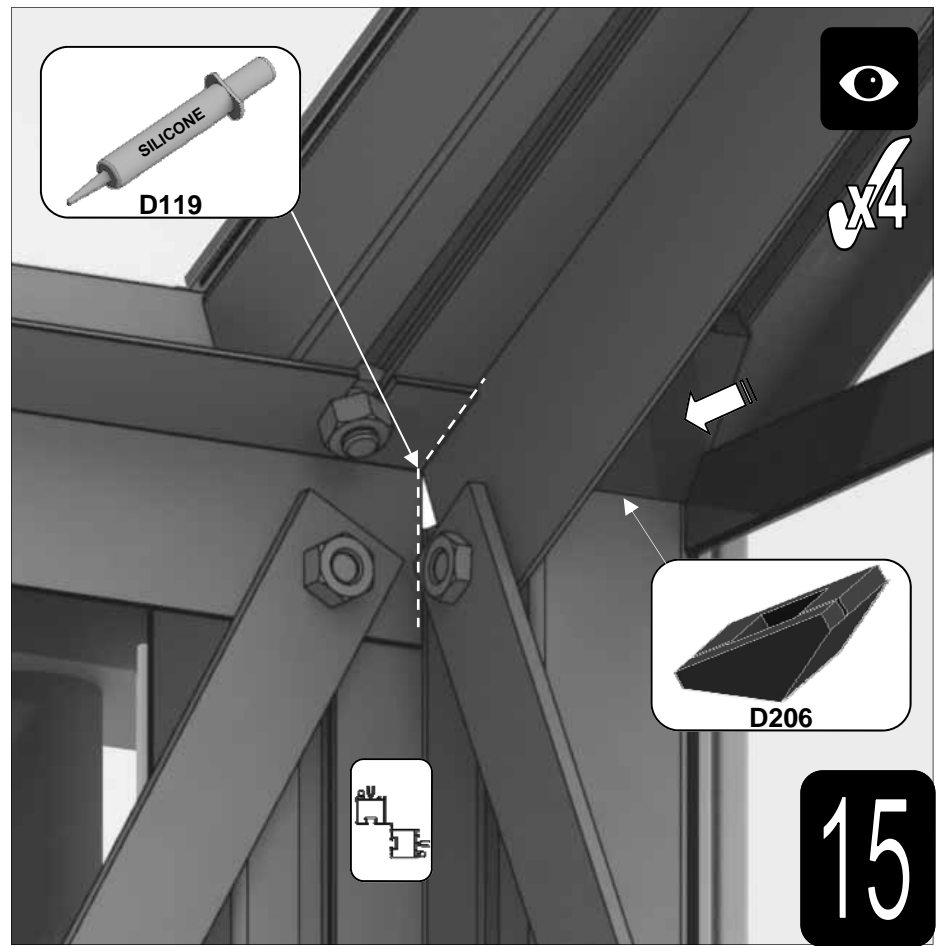
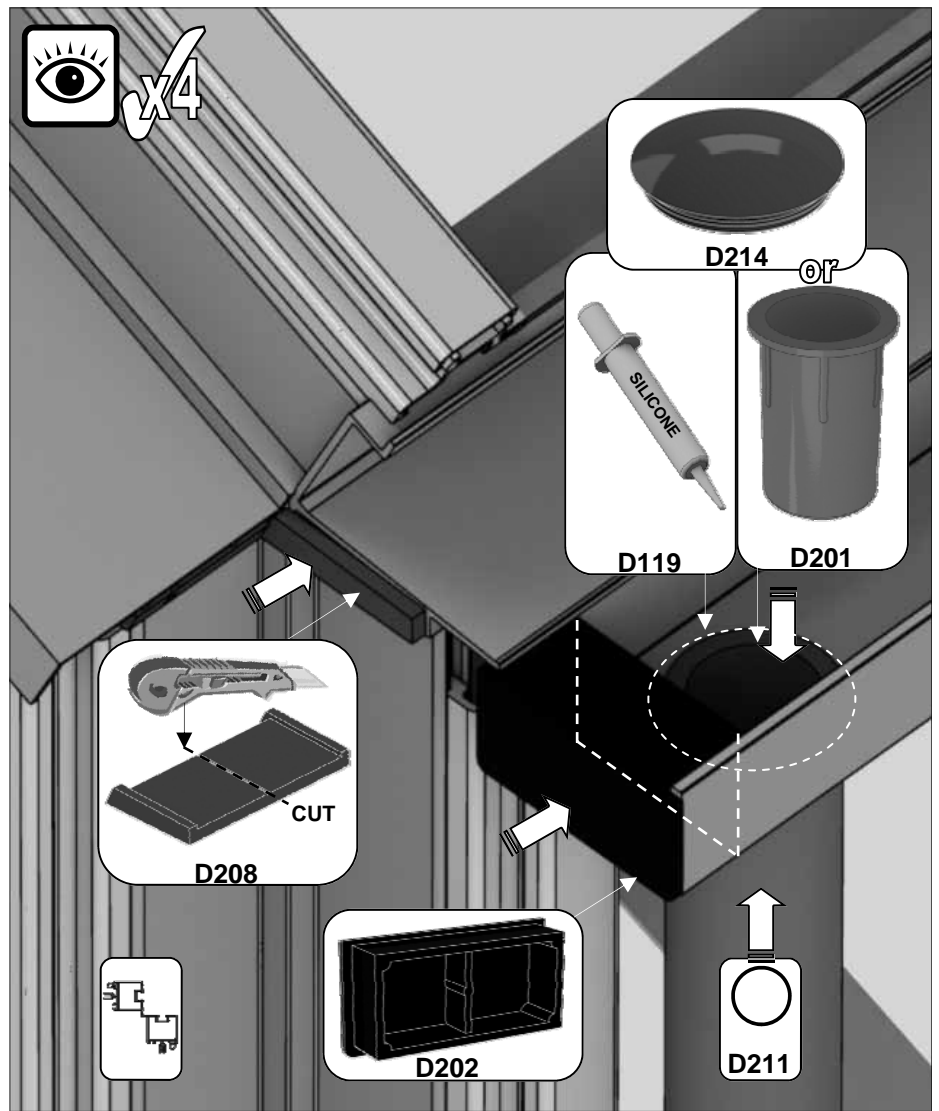
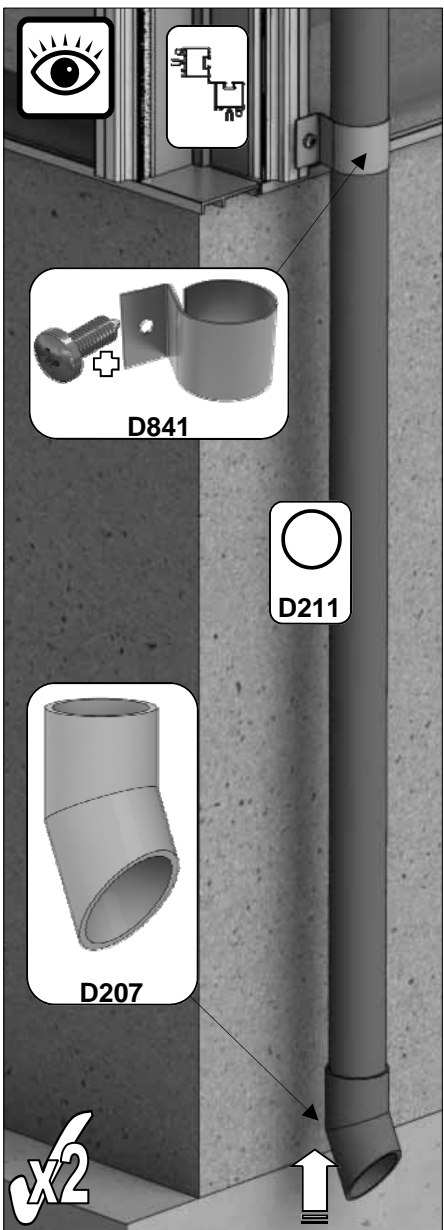
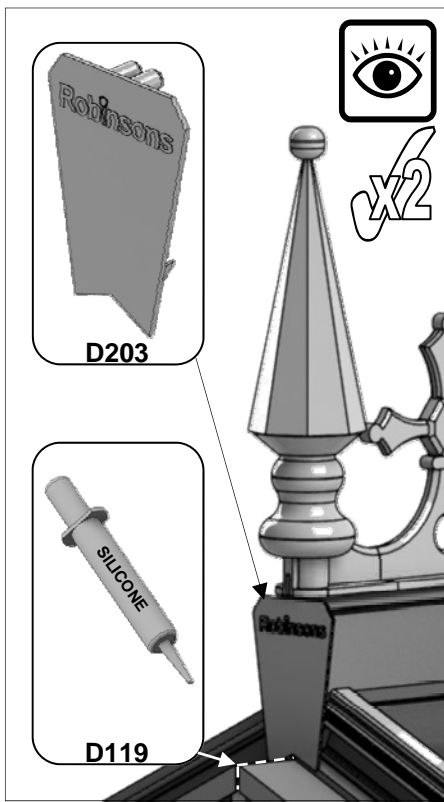
13

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



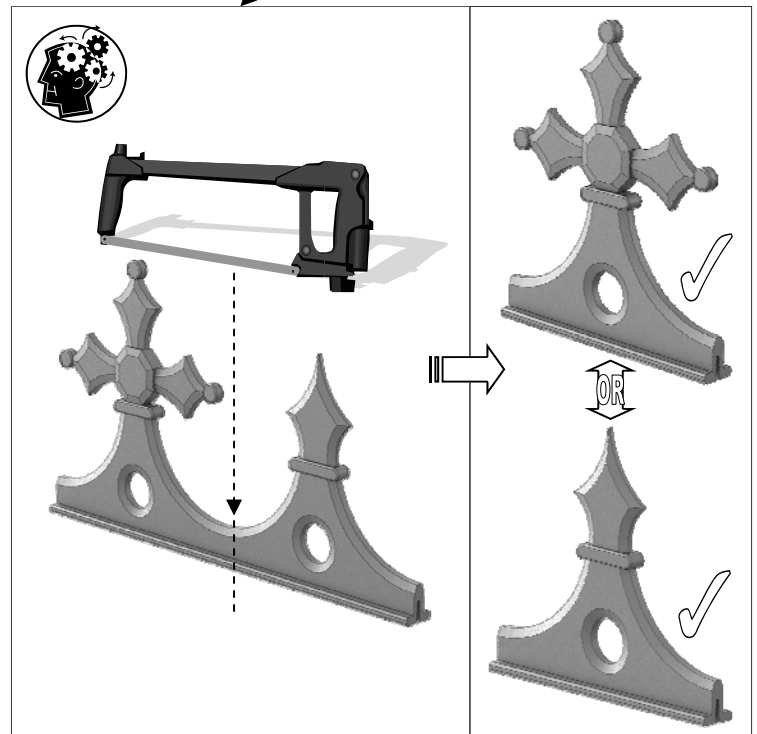
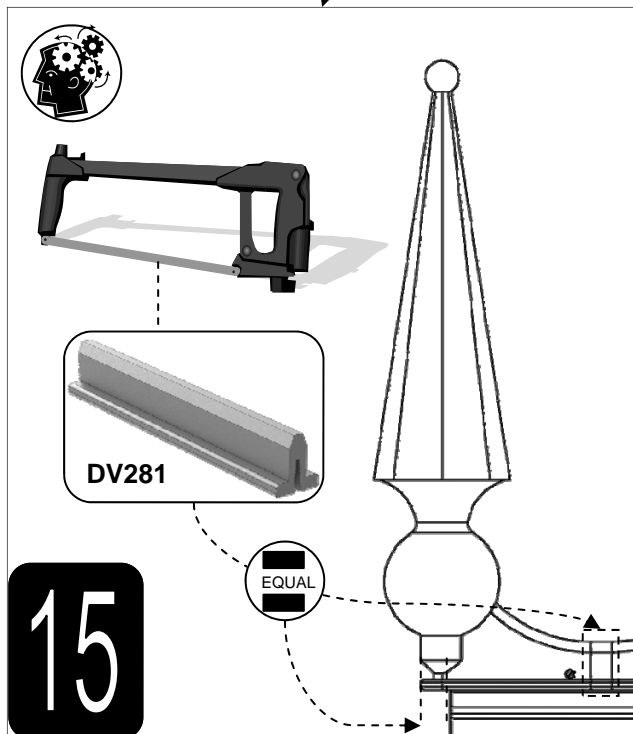
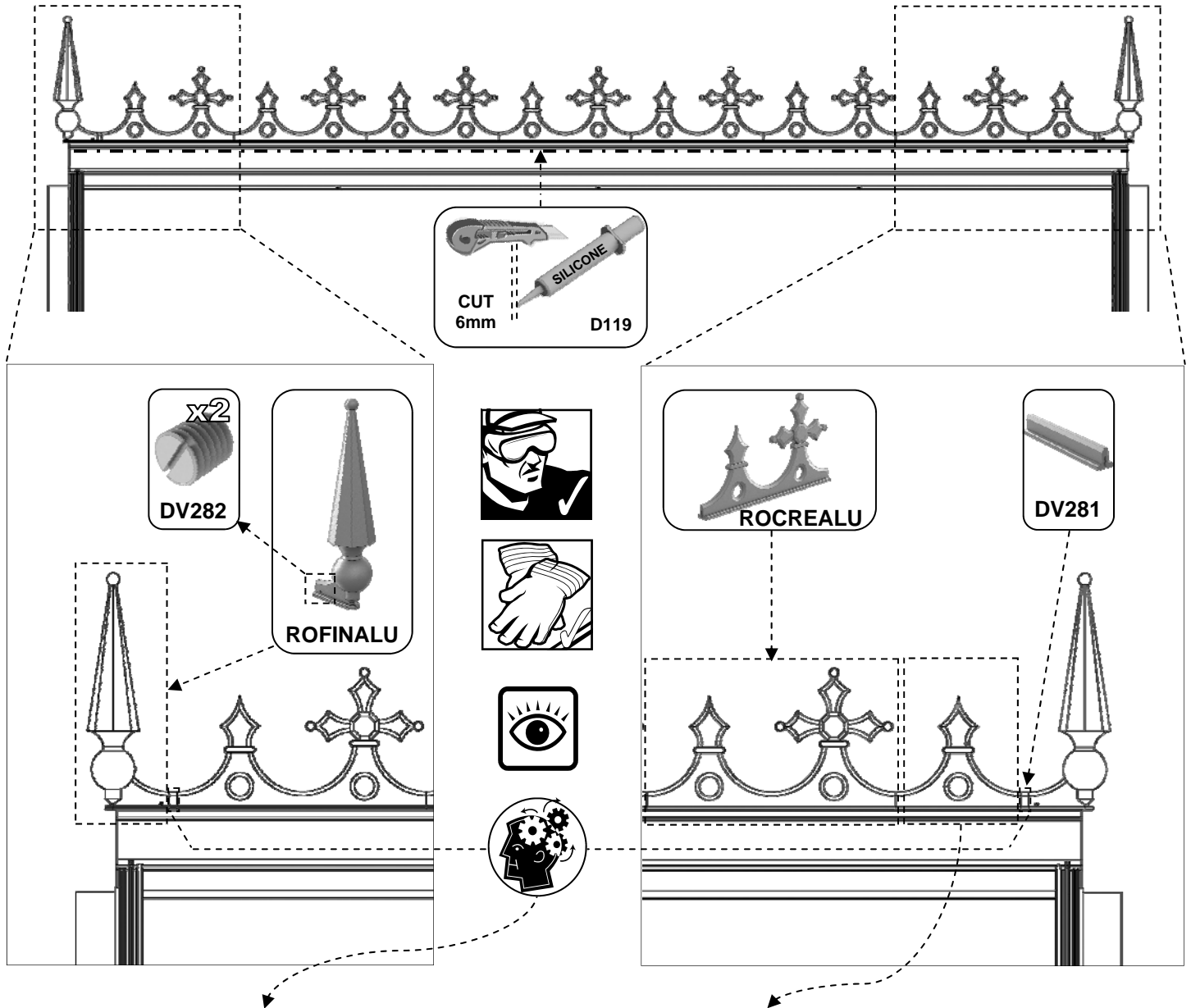
Example: 2x 4' **10** slat staging 'ST01004' = 8' run





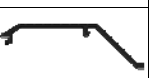


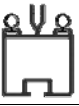







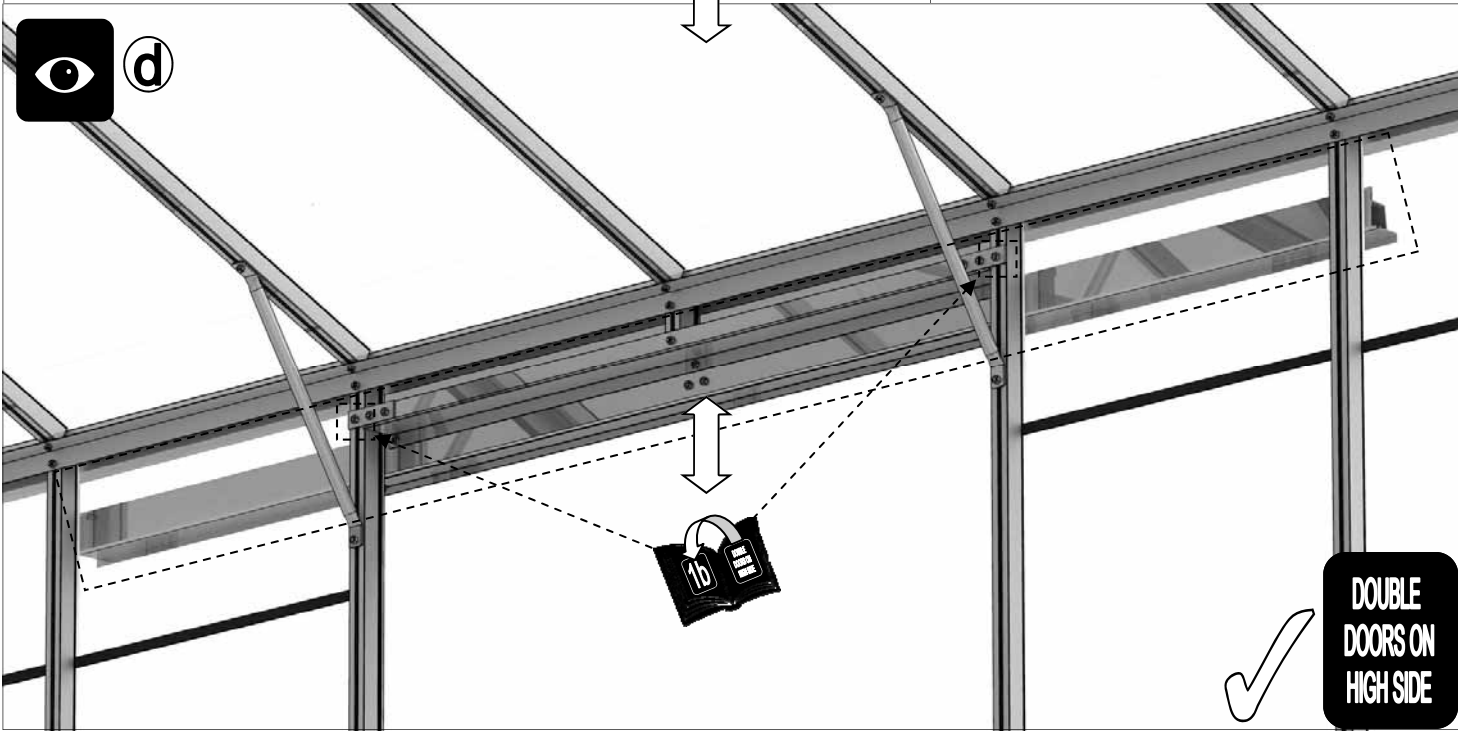
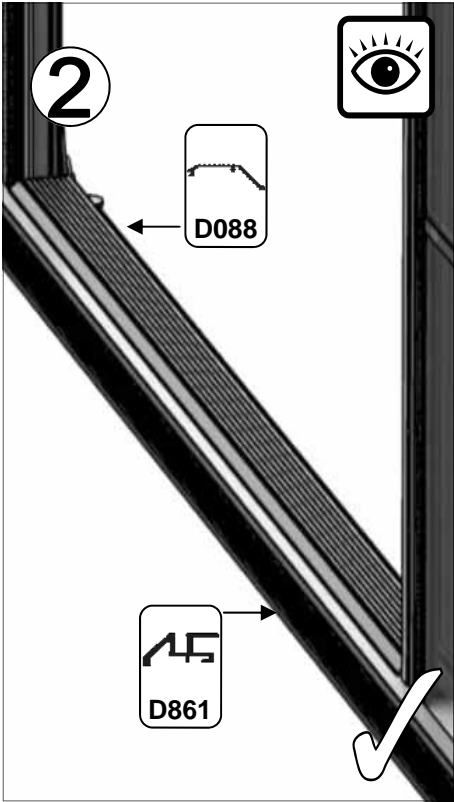
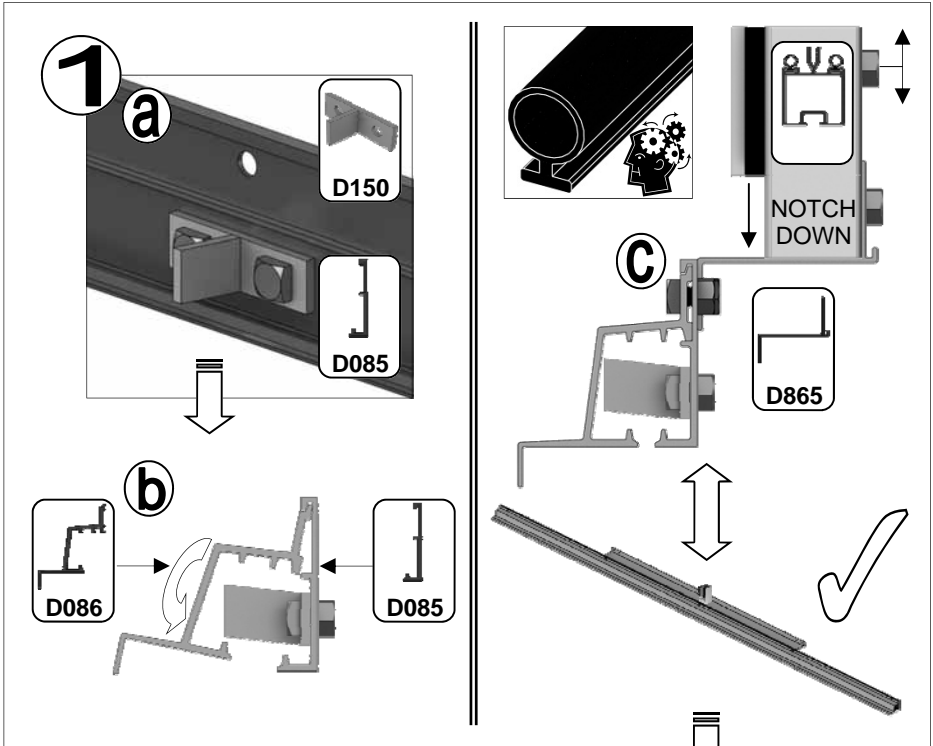
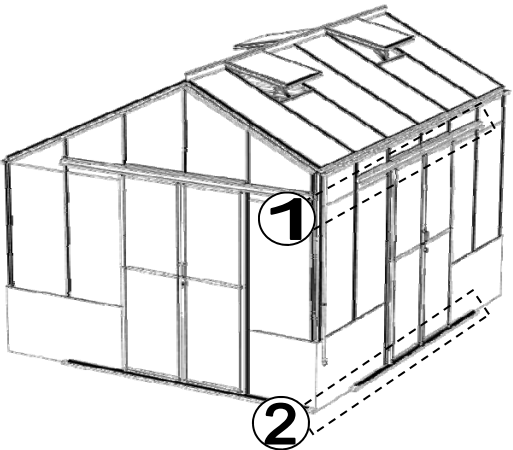
OPTIONAL crestring = {

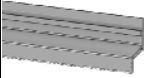

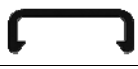
- End finials need to be pinched onto ridge using 'DV282' grub screws.
- Depending on your ridge length a half crestring may need to be cut or/ and some spacer bar 'DV281' cut into two equal sections.
- Each finial and crestring piece needs to be siliconed 'D119' into place.



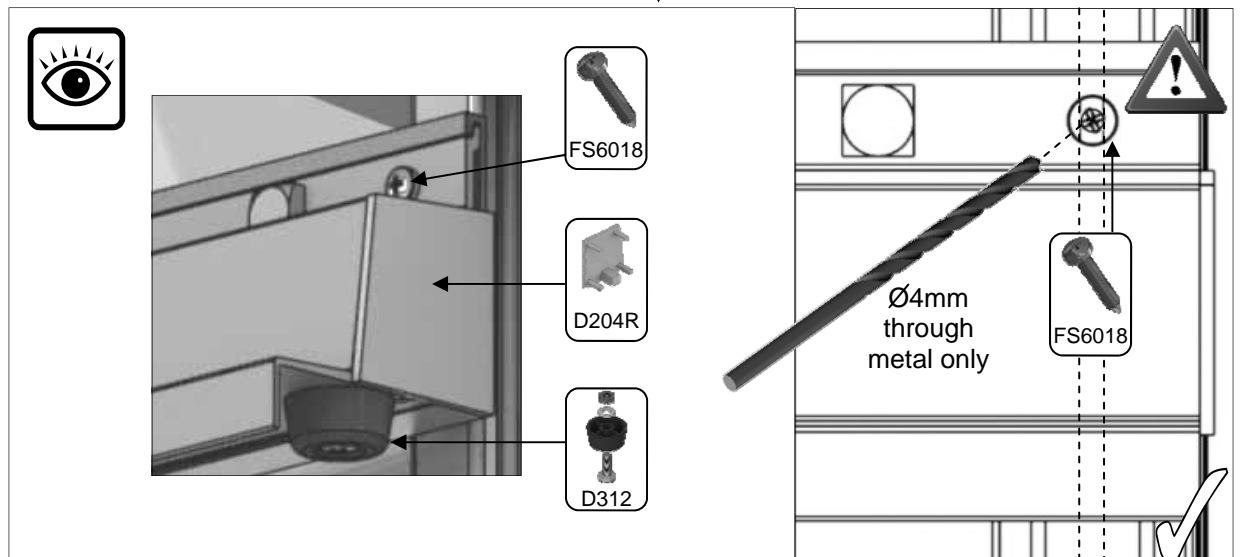
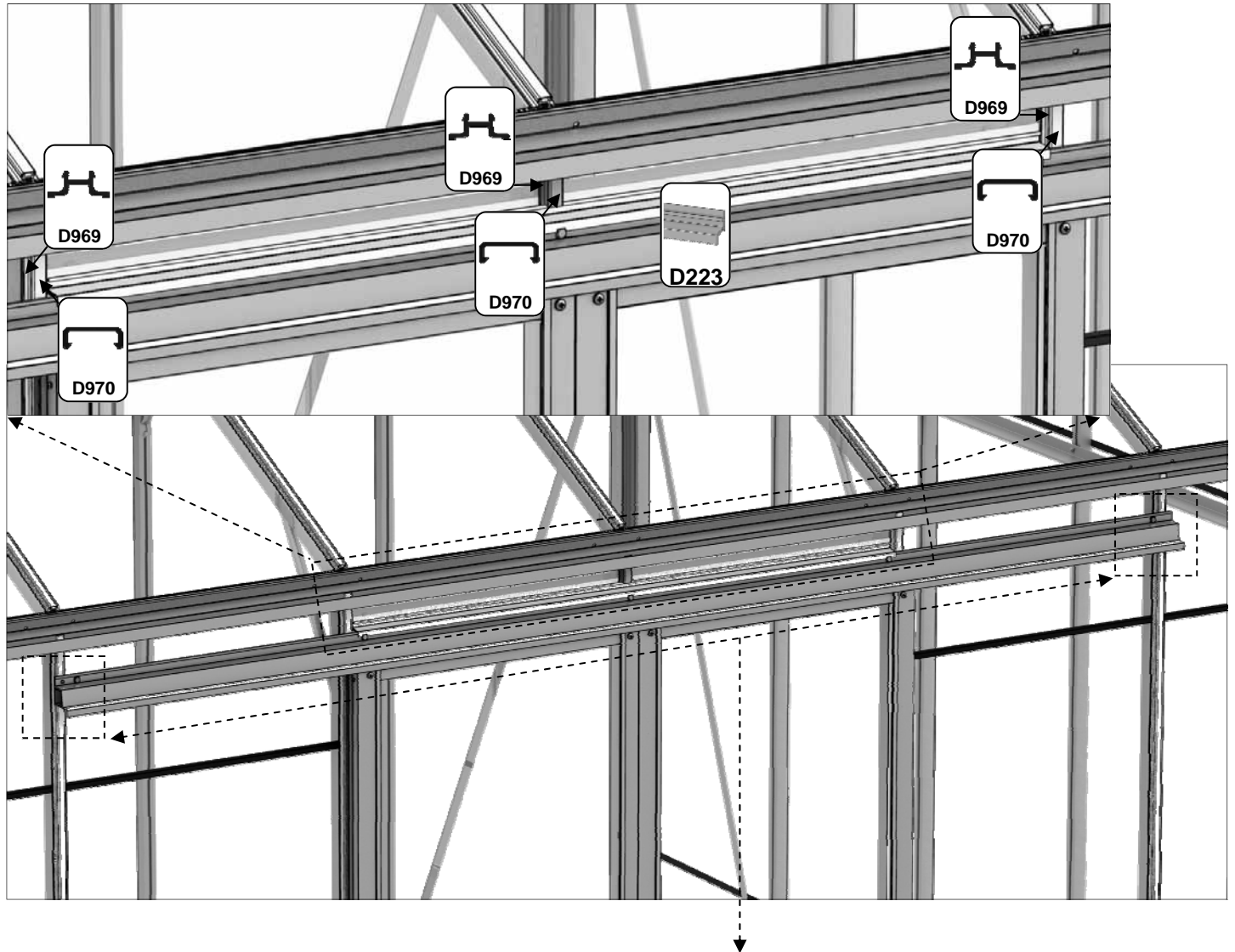
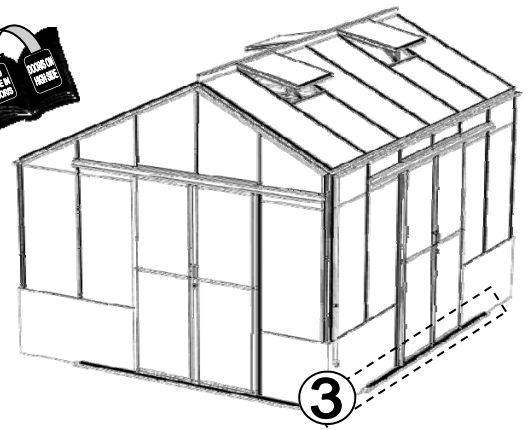
Part No		mm	Q
D865		1210	1
D086		2510	1
D085		2510	1
D861		2450	1
D088		1207	1

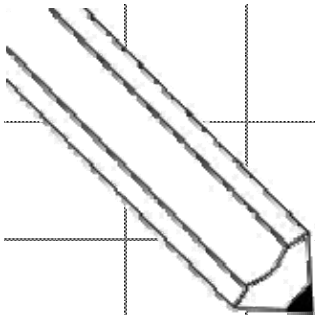
Part No		mm	Q
N/A		158	1
D163		90	2
D150		1	
D845		2	
SYBOL M6X15		9	
SYNUT M6		9	

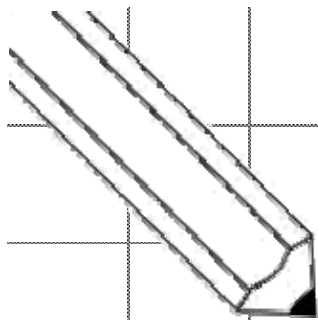


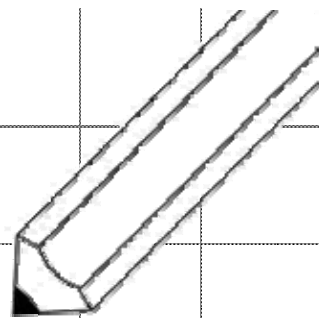
Part No		mm	Q
D223/B		1210	1
D969		140	3
D970		140	3
N/A	610 X 147mm PANE OF GLASS		2

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









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.

Here's how you can earn £30 and have your new greenhouse feature in our next brochure....

We are always interested to hear how you went on assembling your greenhouse, and we are particularly interested to see photos of the finished article.

We like to see where you've put it, how you're using it and how it looks in your garden. Often we glean ideas from this which we can pass on to other gardeners as useful tips.

It is always nice if we can include 'real' greenhouse photos in the brochure, so if you send us a photo of your greenhouse to us and it is good enough to get into our next brochure, **we will send you a £30 reward.**

Please send your photos to:

Photo competition

Robinsons Greenhouses

Blythe Park

Cresswell

Stoke-on-Trent

Staffs

ST11 9RD

Or better still, email us on james.durose@greenhousepeople.co.uk

Please write on the reverse of photos your name and address and if you would like them back, please write 'please return' on them too.

We wish you all the best with your new greenhouse, and we look forward to seeing your photos in the near future!

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