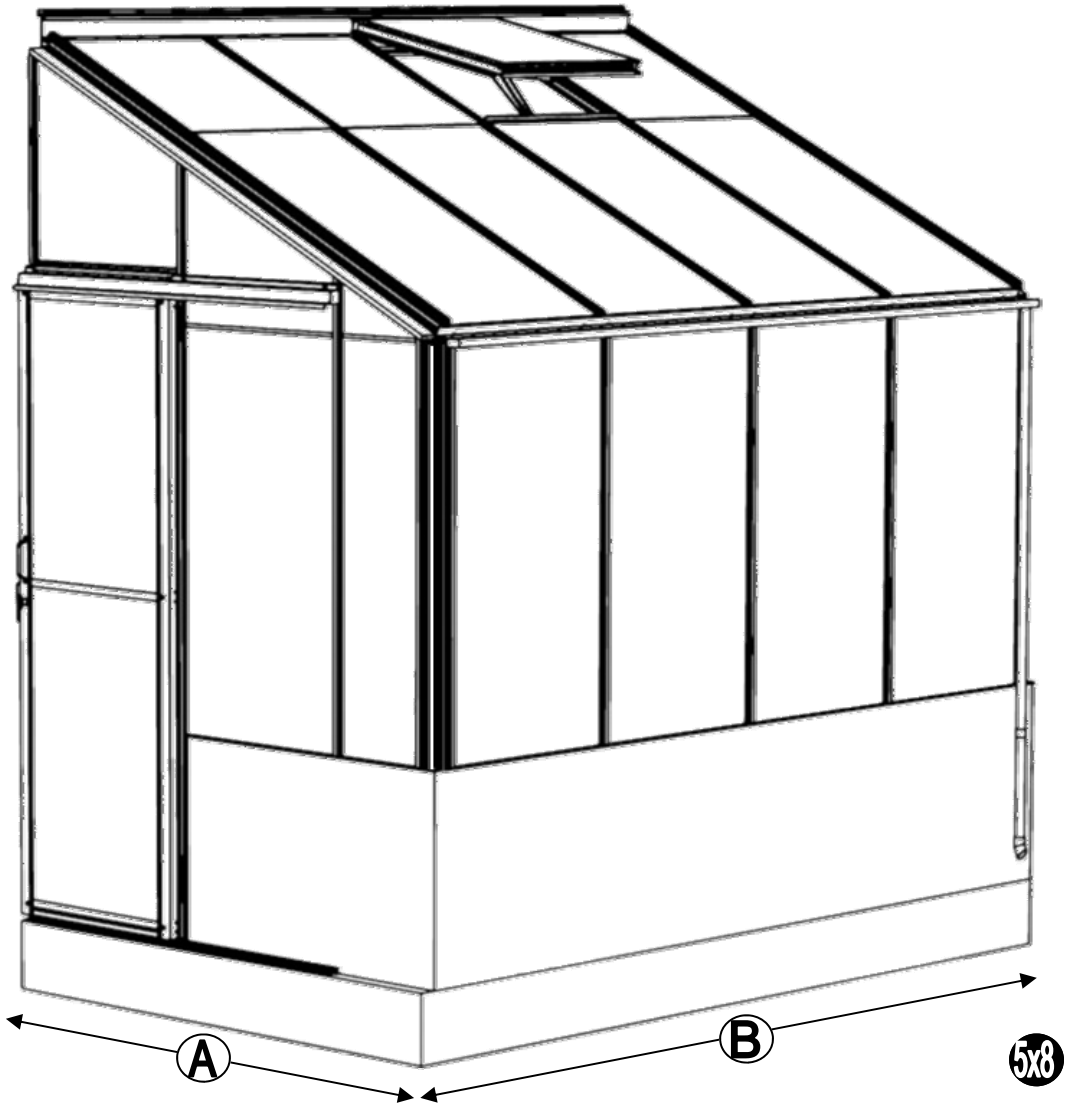
Robinsons
ALUMINIUM GREENHOUSES

5' DWARF Lean-To
Assembly Instructions



NOMINAL SIZE	A (mm)	B (mm)
5lt X 6	1620	1990
5lt x 8		2610
5lt x 10		3230
5lt x 12		3850

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

Issue 3

GB Thank you for purchasing your new Robinsons greenhouse. We recommend you familiarise yourself with the instructions and read all safety information before you commence assembly. This instruction manual is also available online at www.robinsonsgreenhouses.co.uk in our technical help section should you need to reprint it. Should you require any additional advice you can always call us on 01782 385409.

These instructions are divided into sections highlighted by a white number/letter on a black background at the bottom corner of most pages (see opposite page for details); **part lists**, **B**-base, **P**-preparation, **1**-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. 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

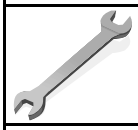
- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- IMPORTANT: Do **not** fix your building down until the building is fully assembled, including glazing.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

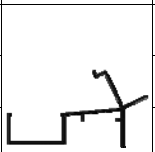
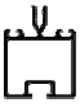
KEY SYMBOL	KEY DESCRIPTION
	**EXTERNAL VIEW**
	**INTERNAL VIEW**
	**THINK**
	**THIS SECTION RELATES TO ANOTHER** (e.g. 1 to 5)
	**CORRECT**
	**DO NOT FIX DOWN!**
	**TWIST TO LOCK**
	**TIGHTEN**
	**PUSH AND HOLD**
	**CUT TO LENGTH**

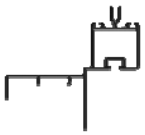
UPDATE: Robinsons plastic / aluminium cover strips -

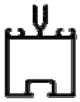
On a Robinsons building the glazing capping is in two parts. The lower plastic capping screws into the glazing bars pressing the glass down onto its rubber beading. The upper plastic / aluminium covers then need to be applied to cover the heads of the self-tapping screws. If you are struggling to press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

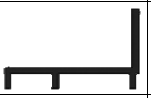
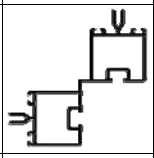
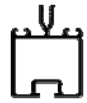
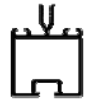
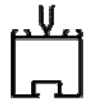
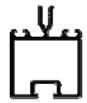
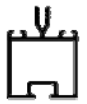
SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
	PARTS LIST	Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections shown below. Parts can also be identified by their profile pictures and stated lengths etc..
B	BASE	Base dimensions and recommendations. Ensure that your base is level as this will make assembly of the building, especially the glazing of the roof much more straight forward.
P	PREPARATION	Tools required. IMPORTANT: Use WD40 or similar in the glazing bar channels and insert the black glazing rubber prior to frame assembly.
1	SIDE	Take the side glazing bars 'D609' with the rubber inserted and the diagonal braces 'D604', use 10mm bolts to join them to the gutter and 15mm bolts to the cills (note how the head of the bolts slide into each glazing bar during construction).
2	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).
3	REAR	
4	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.
5	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.
6	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.
7a	VENT	Once the vent is glazed add silicone to the vent sides and top. Stand the vent/s on their hinge (vent top) and then leave the silicone to set.
7b	VENT SLAM	The slam bar 'D079' can be moved up and down between the roof glazing bars so that it can be butted down onto the pane of glass beneath, the autovent is attached to it later on (10).
8	DOOR	Construct the door using the diagrams and then leave to one side ready for attachment in section (11).
9	GLAZING	Layout the bar capping and covers around the building like a sundial checking that all is present and correct. You can also place the roof capping 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 (11) to give you more room to manoeuvre.
10	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.
11	DOOR ATTACHMENT	Use the bolts inserted in section (2) to attach the upper door track. The lower door runner 'D860' and ramp threshold 'D087' push down and lock together.
12	ANCHORING DOWN	Now that the greenhouse is finished and the door and vent/s are operating without interference then you need to anchor the building down using 2" rawl plugs and screws. Use a 7mm masonry bit in a hammer drill to create the holes.
13	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.
14	OPTIONAL SHELVING	Robinsons integral cantilever staging and shelving attaches to the inside of the greenhouse frame using either square head bolts (insert four into each side glazing bar 'D609' during construction of the 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...
15	OPTIONAL STAGING	
16	FINISHING TOUCHES	Now that the main body of the structure is complete you can add; downpipe fittings, eave bungs.

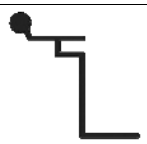
5' DWARF lean to

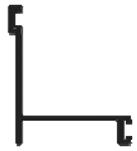
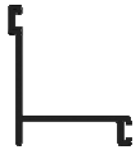
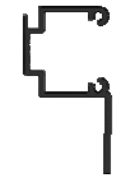
Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
1	D043		1894	1			
	D021		2514		1		
	D022		3134			1	
	D023		3754				1
	D042		1897	1			
	D014		2517		1		
	D015		3137			1	
	D016		3757				1
	D604		1316	2			
	D609		1160	2	3	4	5
	RUBBER		1000 (1m)	5	7	9.5	12
	D174		N/A	2	2	4	4

Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
2 + 3	D854L		1744	1			
	D854R			1			
	RUBBER		1000 (1m)	31			
	D174		N/A	8			

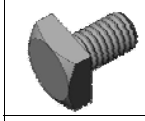
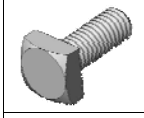
Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
5	D045		1897	1			
	D007		2517		1		
	D008		3137			1	
	D009		3757				1
	D065		1744	2	3	4	5
	RUBBER		1000 (1m)	7	11	14	18

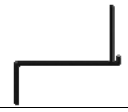
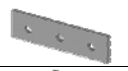
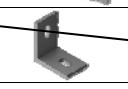
Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
2 + 3	D039L		1625	1?			
	D039R			1?			
	D668		1004	1?			
	D669			1?			
	D628		650	1			
	D608		1160	2			
	D655		1906	1			
	D656		1610	1			
	D657		1314	2			
	D670		2210	1			
	D675		2506	1			
	D110		1585	1			
	D626		1497	2			
	D149		N/A	2			

Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
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

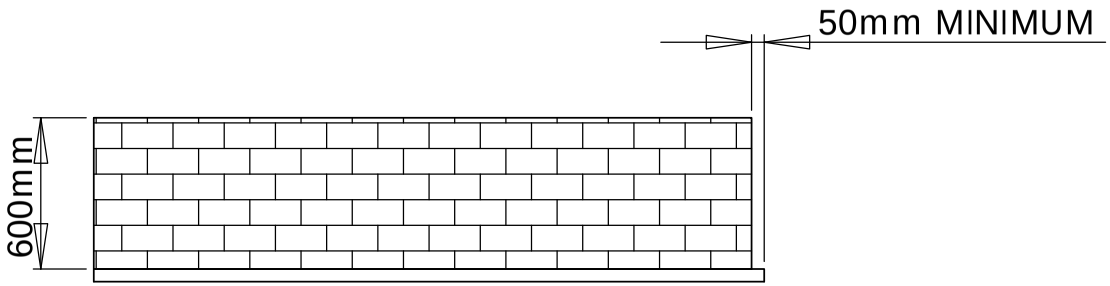
Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
8	D090 + D347 lock = D301		1824	1			
	D094		1824	1			
	D096 + D217 wheel = D307		611	1			
	D095		611	1			
	D097		611	1			
	D232		905	2			
	D233		797	2			
	P053		N/A	1			
	D225		610	1			
	D840B		4000	1			

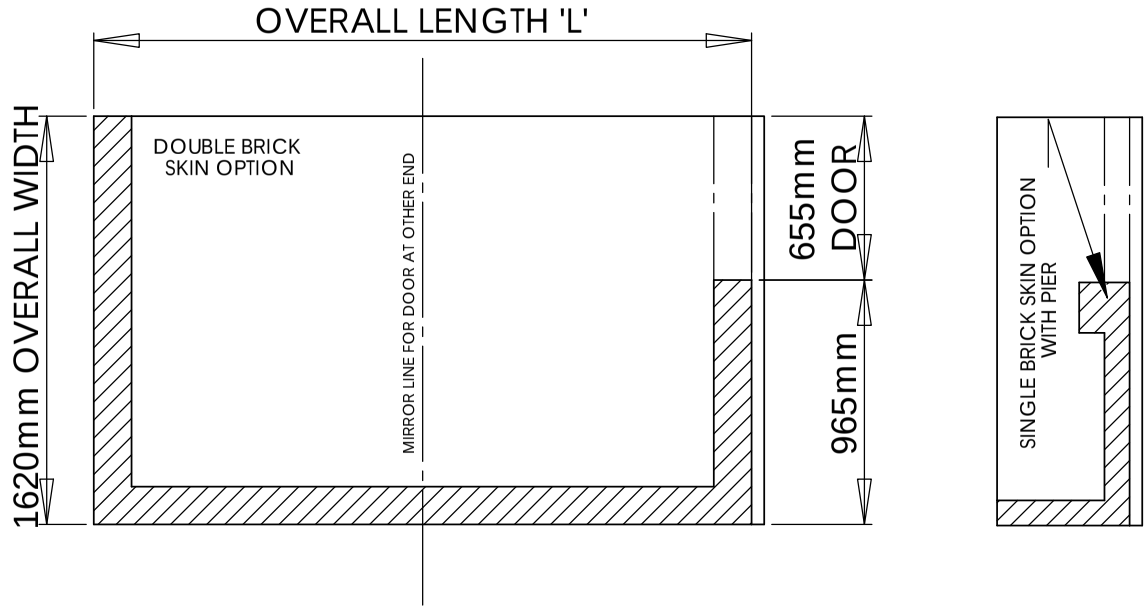
Section Ref	Part No.	Section	Size (mm)	5lt 6	5lt 8	5lt 10	5lt 12
9	1 D618		1144	2	3	4	5
	2/3 D658		1314	2			
	3 D659		1610	1			
	2 D660		311	1			
	3 D661		1906	1			
	2 D662		600	1			
	5 D870		601	2	3	4	5
	5 D876		1152	2	3	4	5
	2/3 D610		1160	2			
	1 D620		1144	2			
	2 D814		1883	2			
	5 D871		601	2			
	5 D877		1152	2			
	2/3 D614		1162	2			
	1 D619		1144	4	5	6	7
	2/3 D663		1316	2			
	3 D664		1610	1			
	3 D665		1908	1			
	2 D666		602	1			
	2 D667		313	1			
	5 D811		1754	4	5	6	7
	2 D836		1883	2			

MAIN FRAME QUANTITIES VENTS / DOORS etc SEPERATE			10mm	20	23	26	29
			15mm	37	38	39	40
			m6	57	61	65	69

Section Ref	Part No.	Section	Size (mm)	
11	D864		590	1
	D860		1240	1
	D087		587	1
	D084		1270	1
	D083		1270	1
	D627		114	1
	D163		90	2
	D154		N/A	1

5' DWARF lean to





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	8ft EXT LONG	2480mm
10ft LONG	3230mm	10ft EXT LONG	3100mm
12ft LONG	3850mm	12ft EXT LONG	3720mm

GUIDANCE NOTE FOR ROBINSONS DWARF WALL GREENHOUSES.

FOOTINGS

CONCRETE STRIP FOOTINGS SHOULD BE A MINIMUM OF 400mm WIDE X 200mm DEEP. IF THE SITE IS ON MADE UP GROUND IT IS IMPORTANT THAT THE FOOTINGS ARE CUT INTO THE COMPACTED GROUND BELOW.

WHERE THE GROUND IS LIABLE TO MOVEMENT SUCH AS HEAVY CLAY OR LOOSE SANDY SOIL REINFORCING SHOULD BE ADDED TO THE CONCRETE FOOTINGS.

WALLS

IT IS MOST IMPORTANT THAT THE BRICKWORK IS IN ACCORDANCE WITH THE 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.

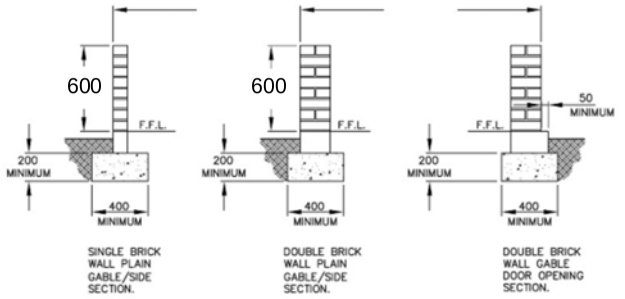
GABLE DOOR OPENING

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. IT IS ADVISABLE TO MAKE A WOODEN TEMPLATE TO CHECK THE DOOR APERTURE DIMs.

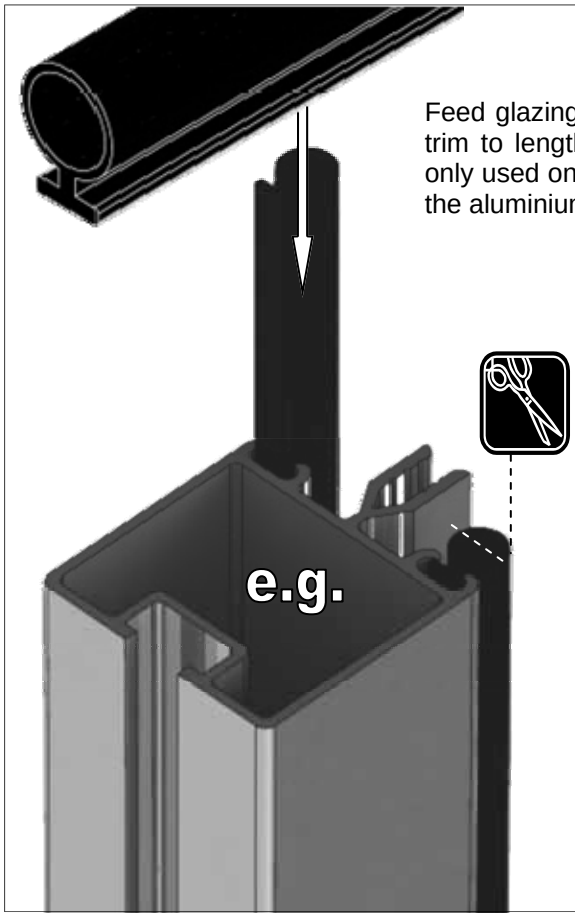
IF SINGLE SKIN WALLS ARE USED THEN PIERS SHOULD BE FORMED AT THE DOOR OPENING.

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

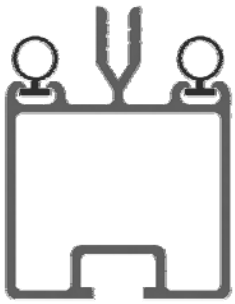


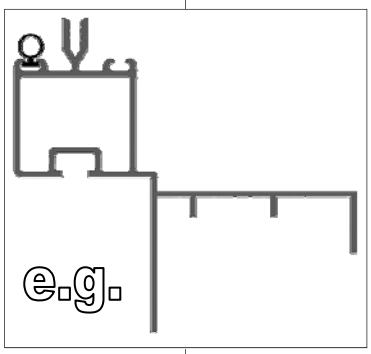
TITLE:

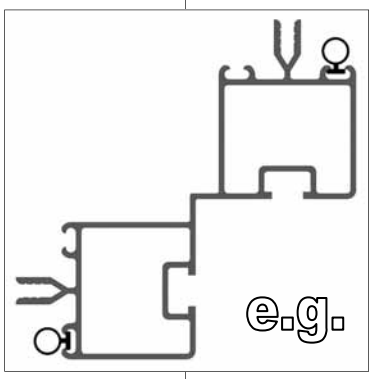
5LT DWARF WALL PLAN

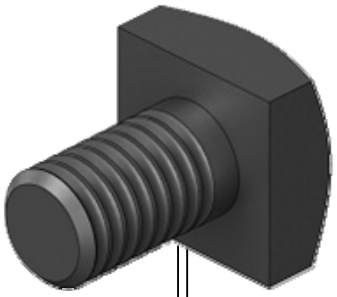


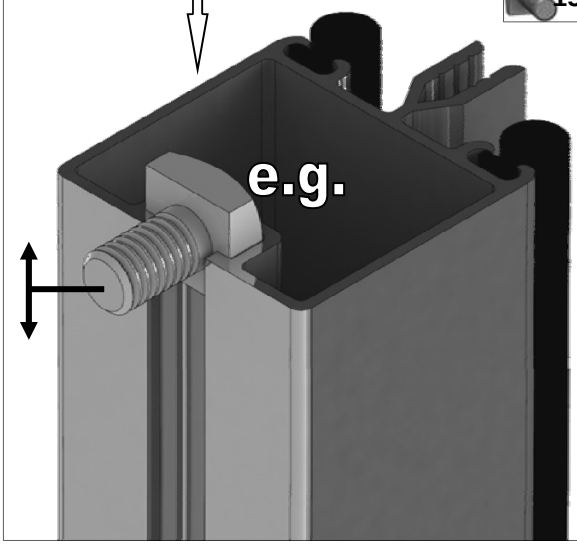
Feed glazing rubber into each glazing bar and trim to length. Notice that some channels are only used on a partition. Applying a lubricant to the aluminium channels will speed up insertion.



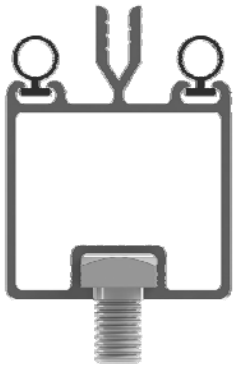


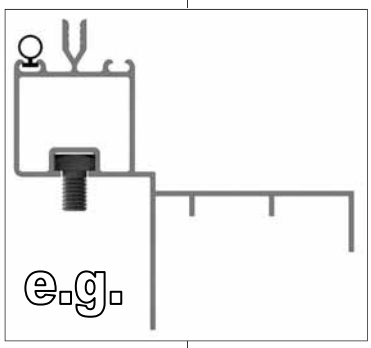


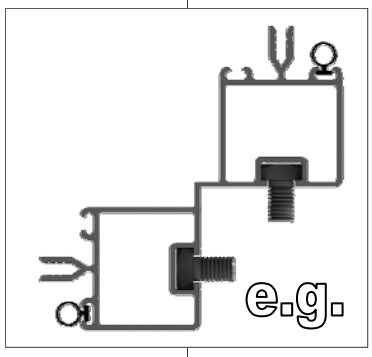


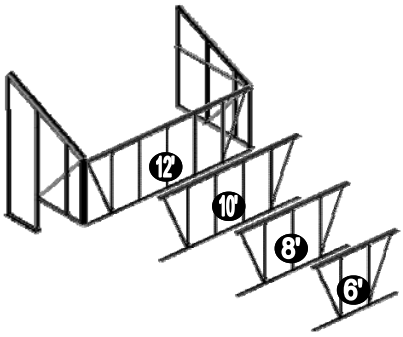


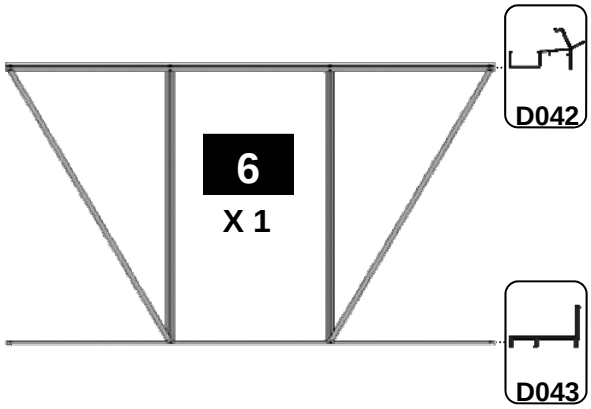
The frame is assembled by feeding square headed bolts, either 10mm or 15mm in length into the slots on glazing bars and then locating those bolts through holes in purlings and cills, etc… Twist in (rectangular) crop headed bolts are also used towards the end of construction to attach components to the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





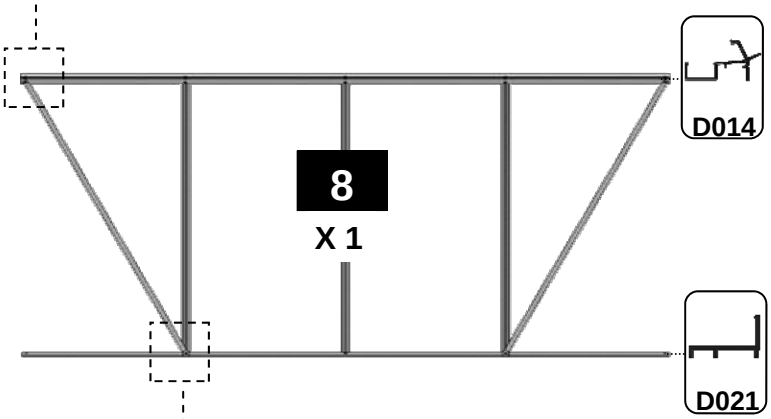






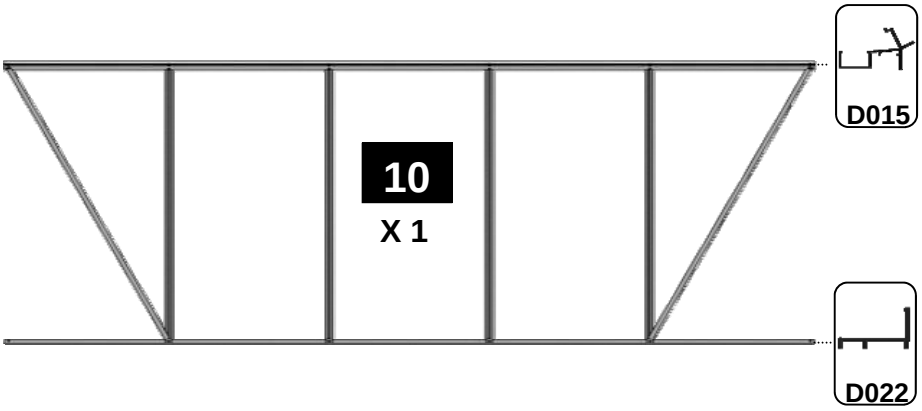
6 X 1 DWARF		
Part No	mm	Quantity
D042	1897	1
D043	1894	1
D609	1160	2
D604	1316	2
D174		2
M6-10mm		2
M6-15mm		4
M6-NUT		6
Rubber	1000	5

e.g.1

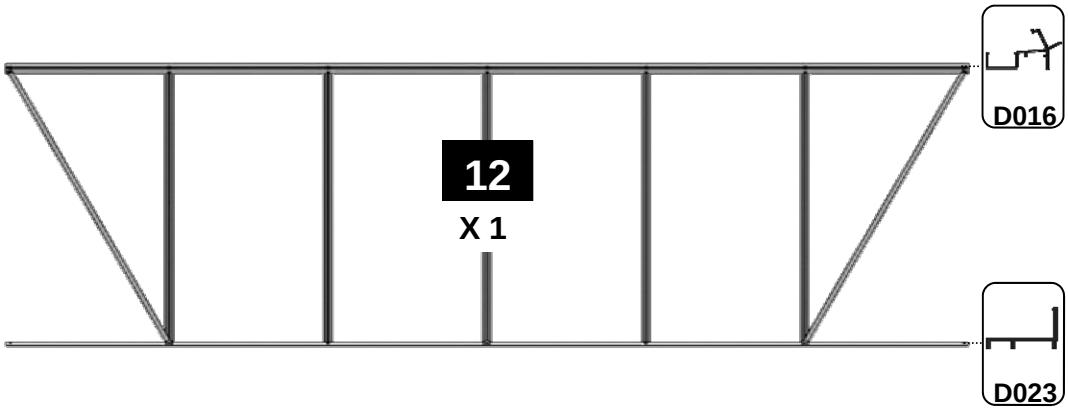


8 X 1 DWARF		
Part No	mm	Quantity
D014	2517	1
D021	2514	1
D609	1160	3
D604	1316	2
D174		2
M6-10mm		3
M6-15mm		5
M6-NUT		8
Rubber	1000	7

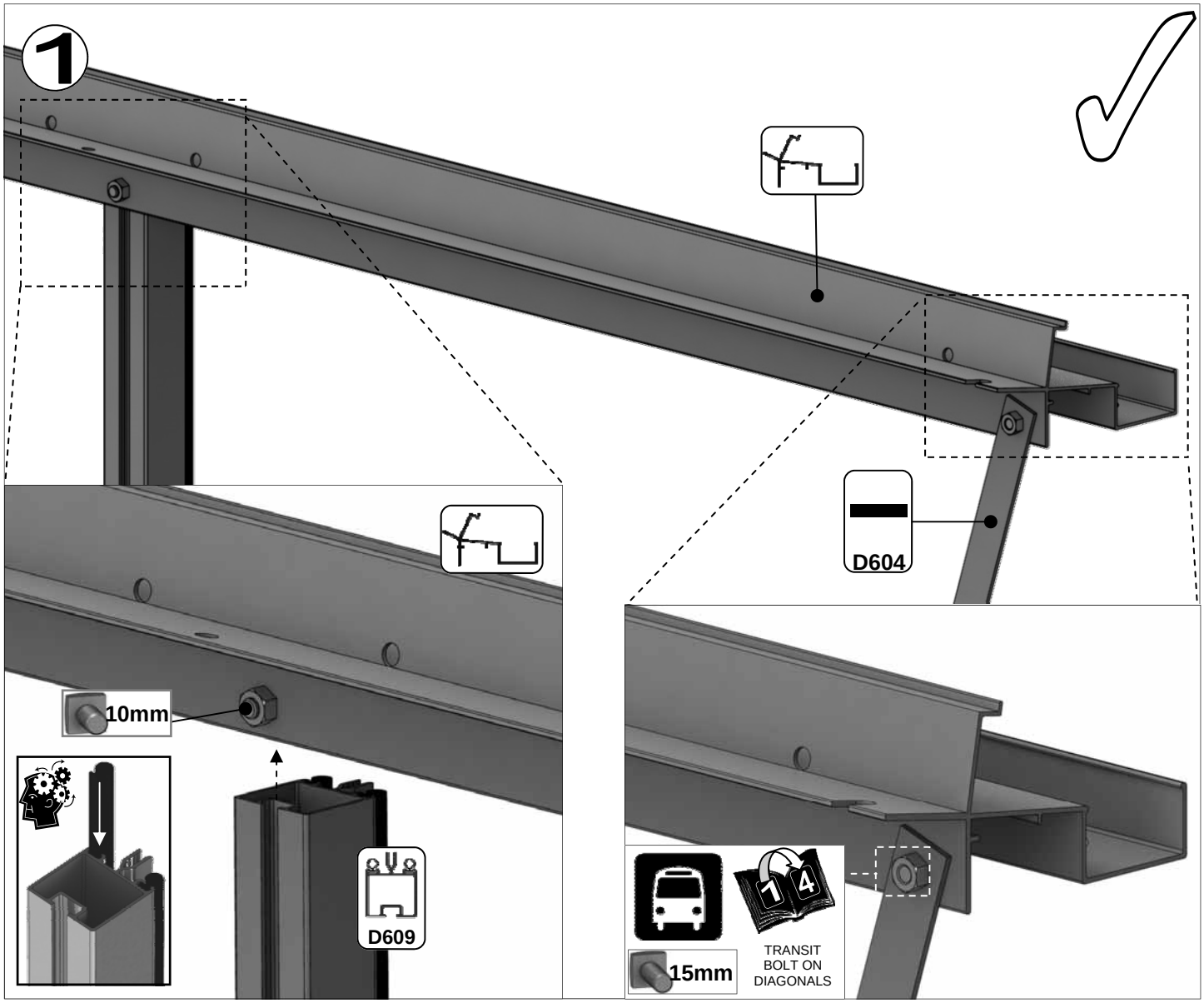
e.g.2

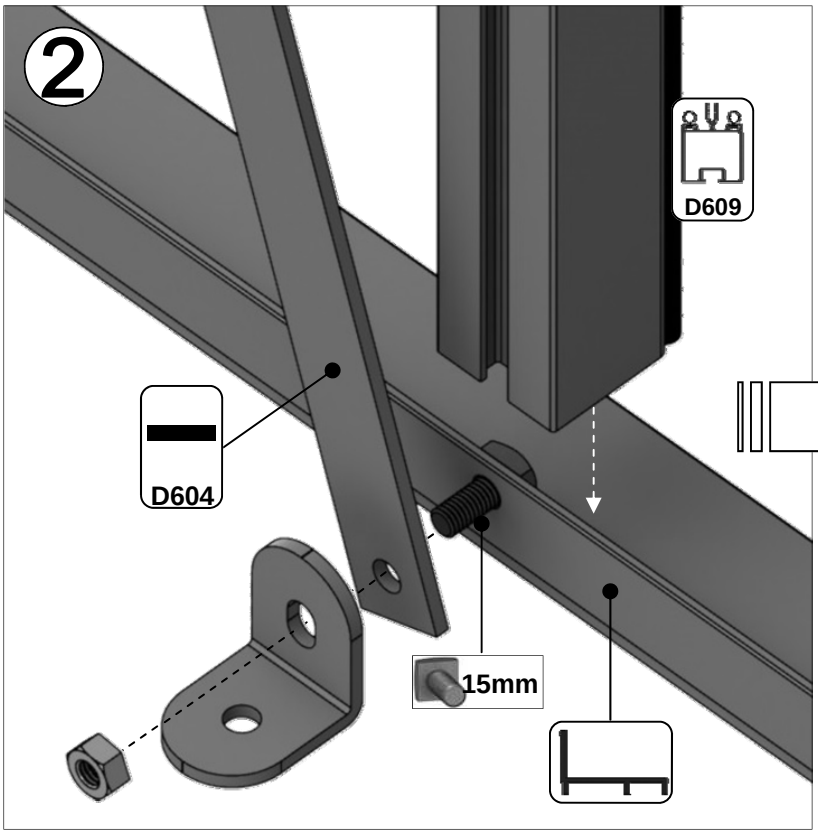


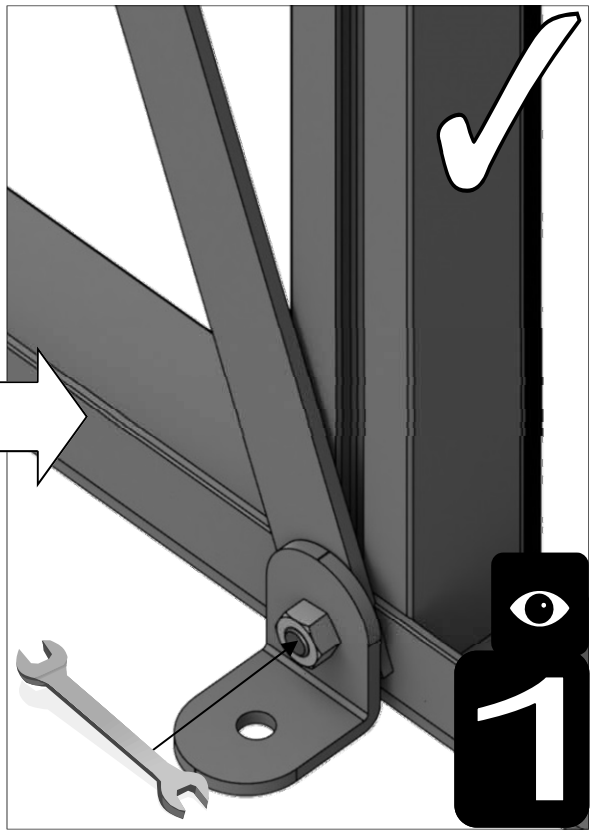
10 X 1 DWARF		
Part No	mm	Quantity
D015	3137	1
D022	3134	1
D609	1160	4
D604	1316	2
D174		4
M6-10mm		4
M6-15mm		6
M6-NUT		10
Rubber	1000	9.5



12 X 1 DWARF		
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

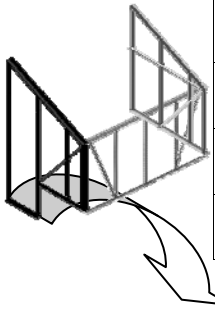

1
D604
10mm
D609
15mm
TRANSIT
BOLT ON
DIAGONALS


2
D609
D604
15mm


1

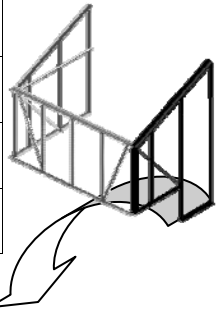
Part No	mm	Quantity
D608	1160	1
D626	1497	1
D628	650	1
D657	1314	1
D669	1004	1
D670	2210	1
D675	2506	1
D854R	1744	1

DOOR ON LEFT EXTERNAL VIEW

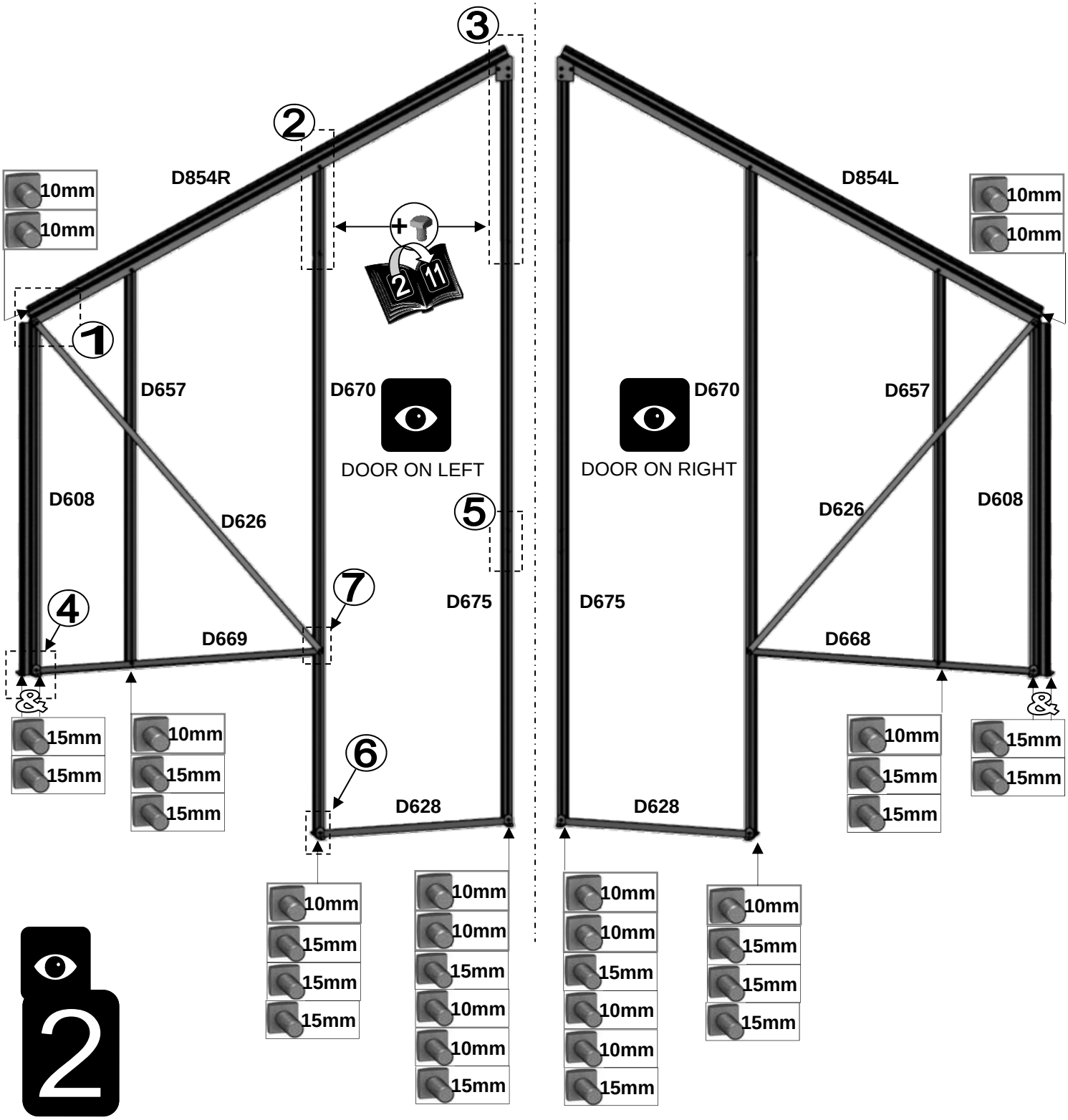


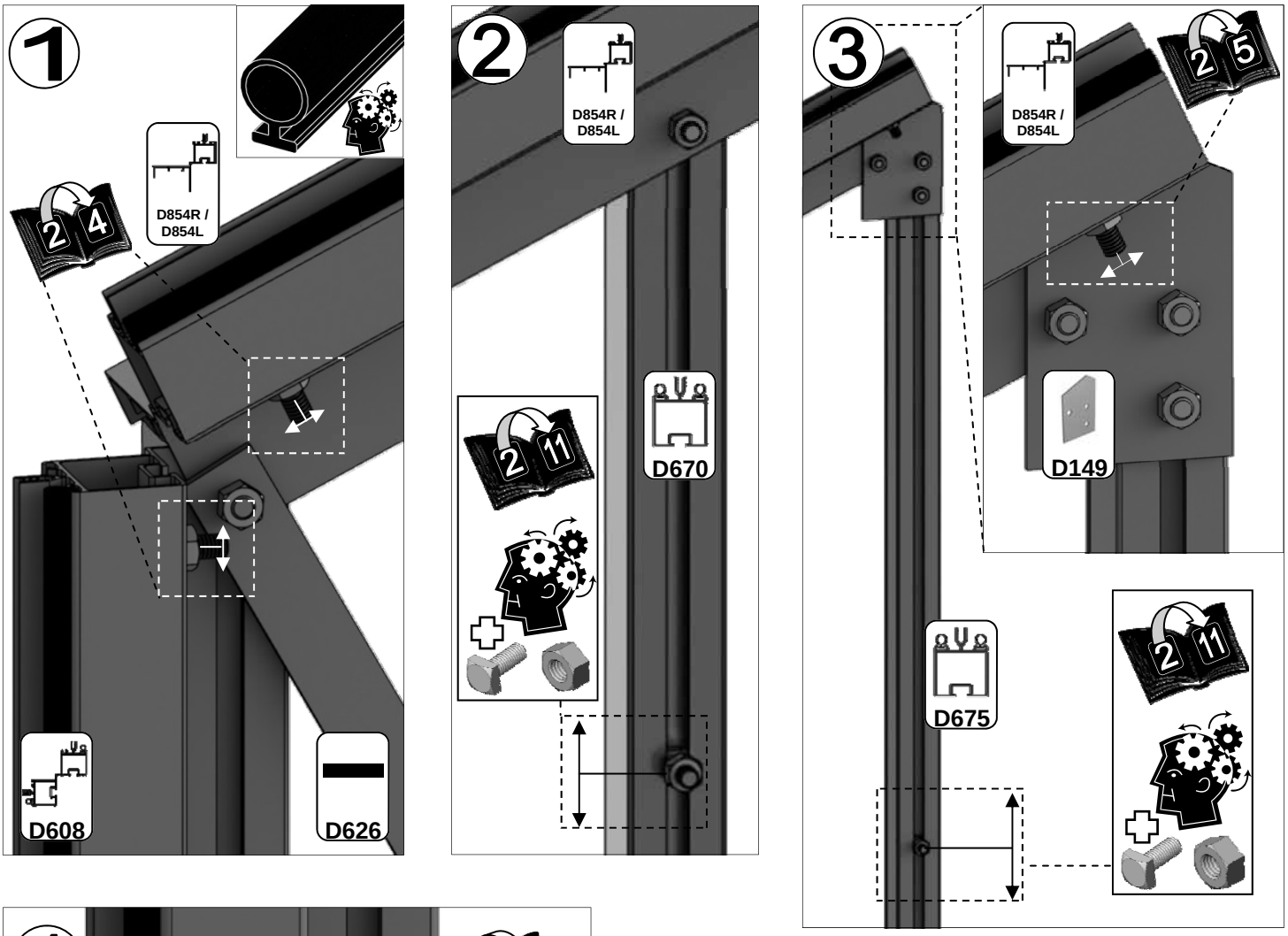
Part No	mm	Quantity
D149		1
D174		3
D227		17m
M6X10		9
M6X15		11
M6NUT		20

DOOR ON RIGHT EXTERNAL VIEW



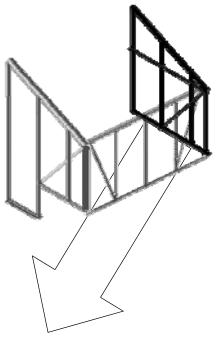
Part No	mm	Quantity
D608	1160	1
D626	1497	1
D628	650	1
D657	1314	1
D668	1004	1
D670	2210	1
D675	2506	1
D854L	1744	1




1
D854R / D854L
D608
D626
2
D854R / D854L
D670
3
D854R / D854L
D149
D675
4
D608
D174
5
D675
6
D670
D628
7
D626
D670
D669 / D668

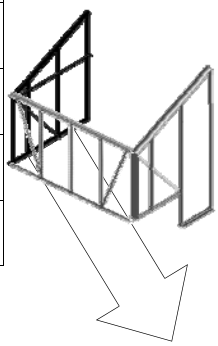
Part No	mm	Quantity
D039L	1625	1
D110	1585	1
D608	1160	1
D626	1497	1
D655	1906	1
D656	1610	1
D657	1314	1
D854L	1744	1

DOOR ON LEFT EXTERNAL VIEW

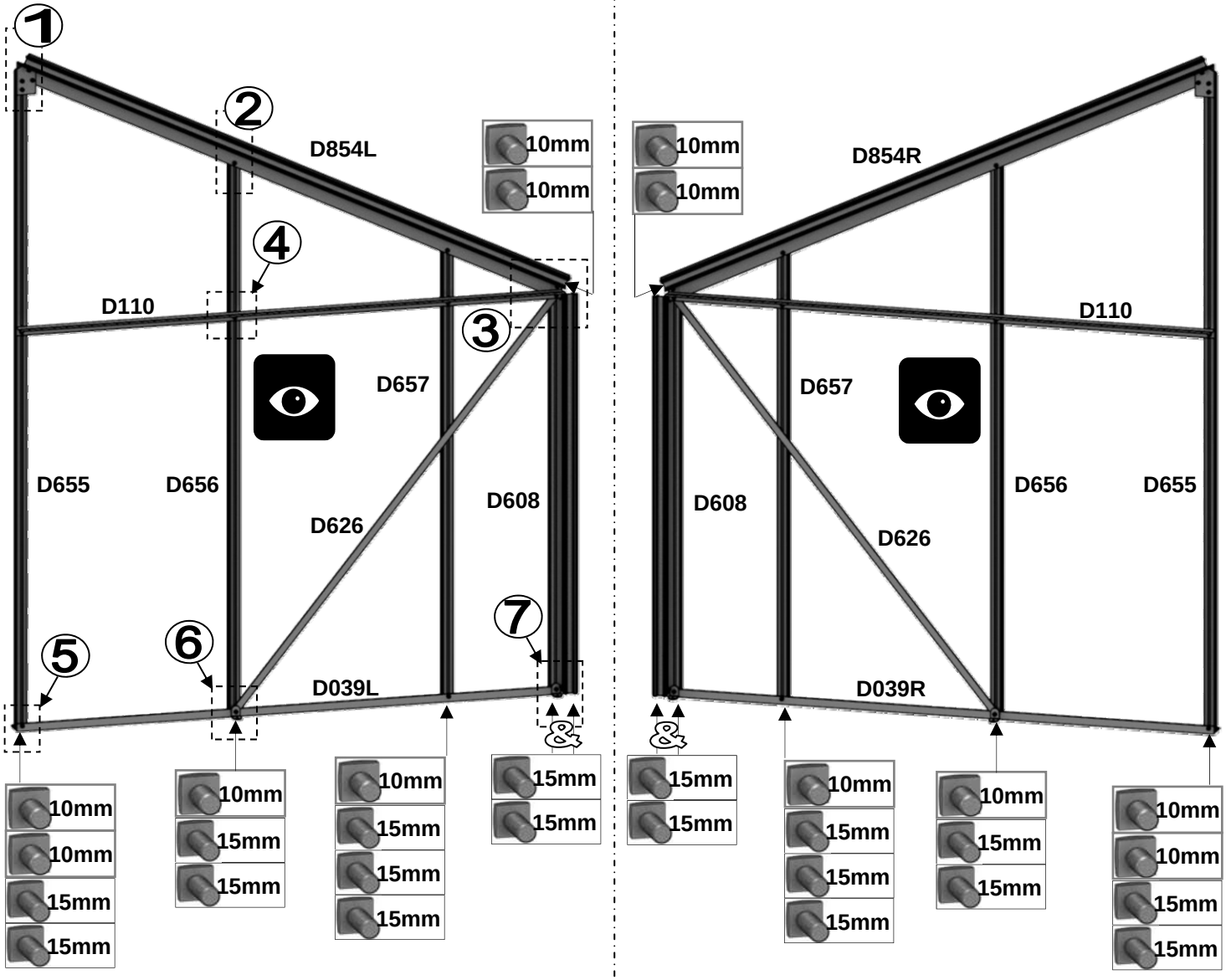


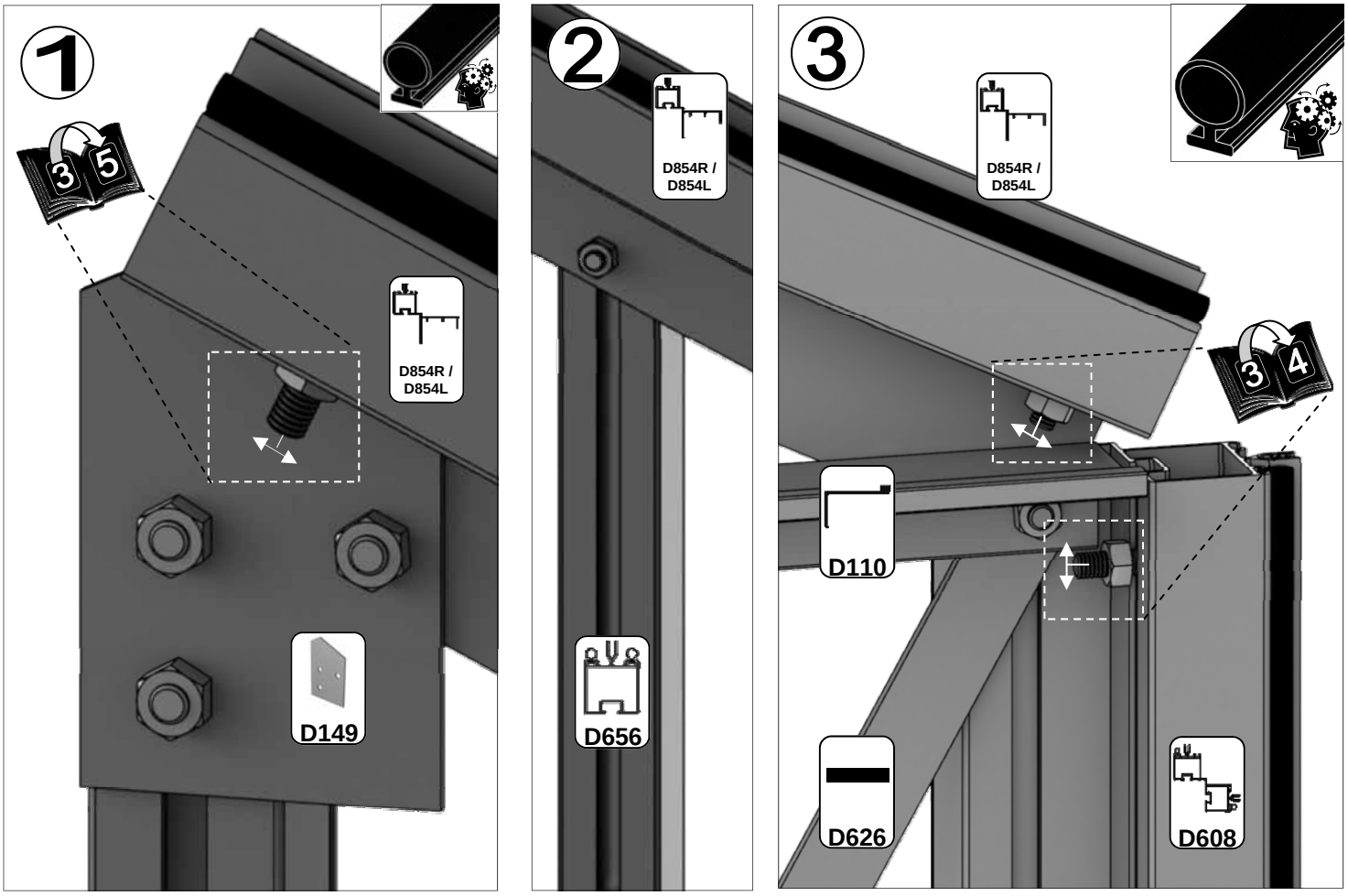
Part No	mm	Quantity
D149		1
D174		2
D227		14m
M6X10		7
M6NUT		18

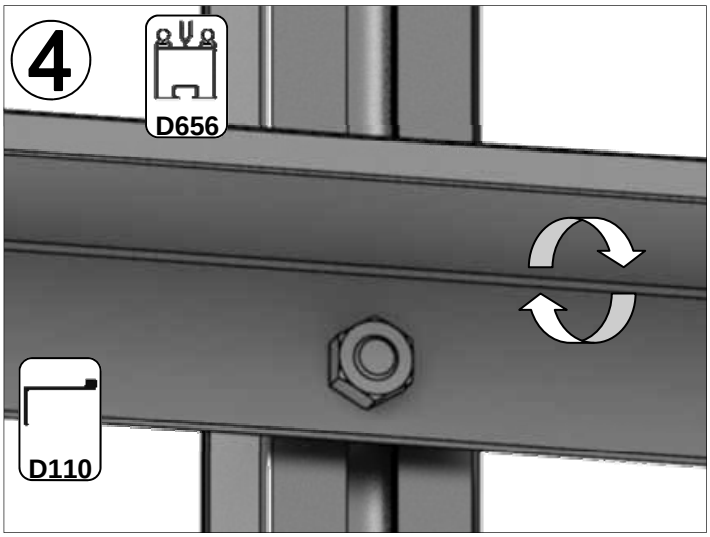
DOOR ON RIGHT EXTERNAL VIEW

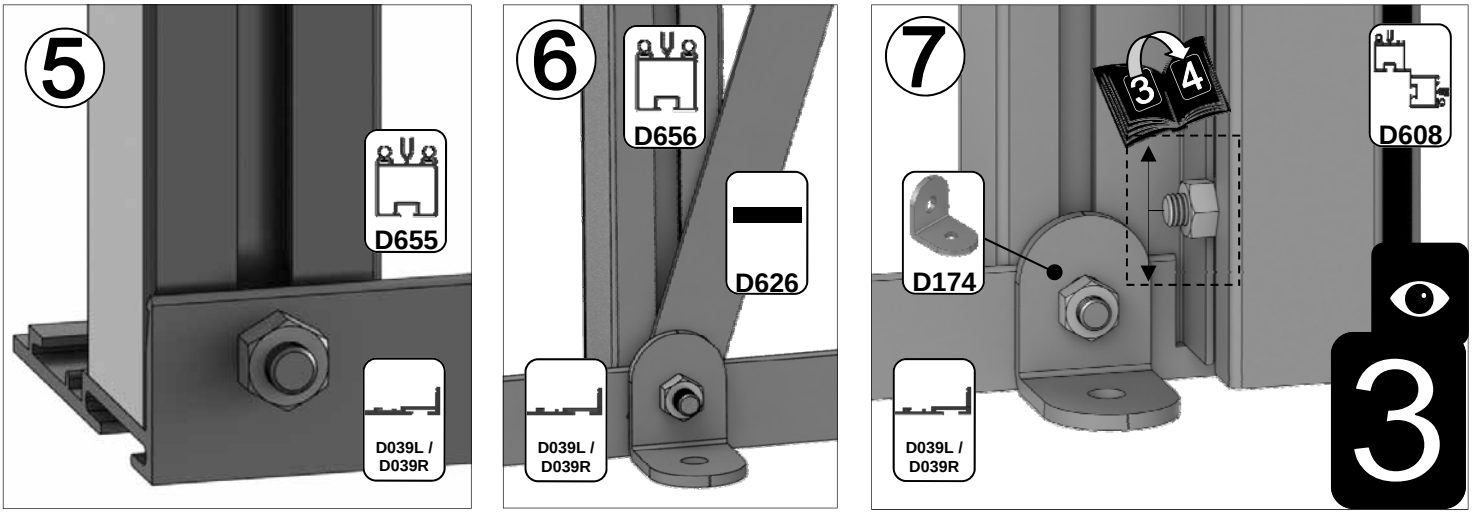


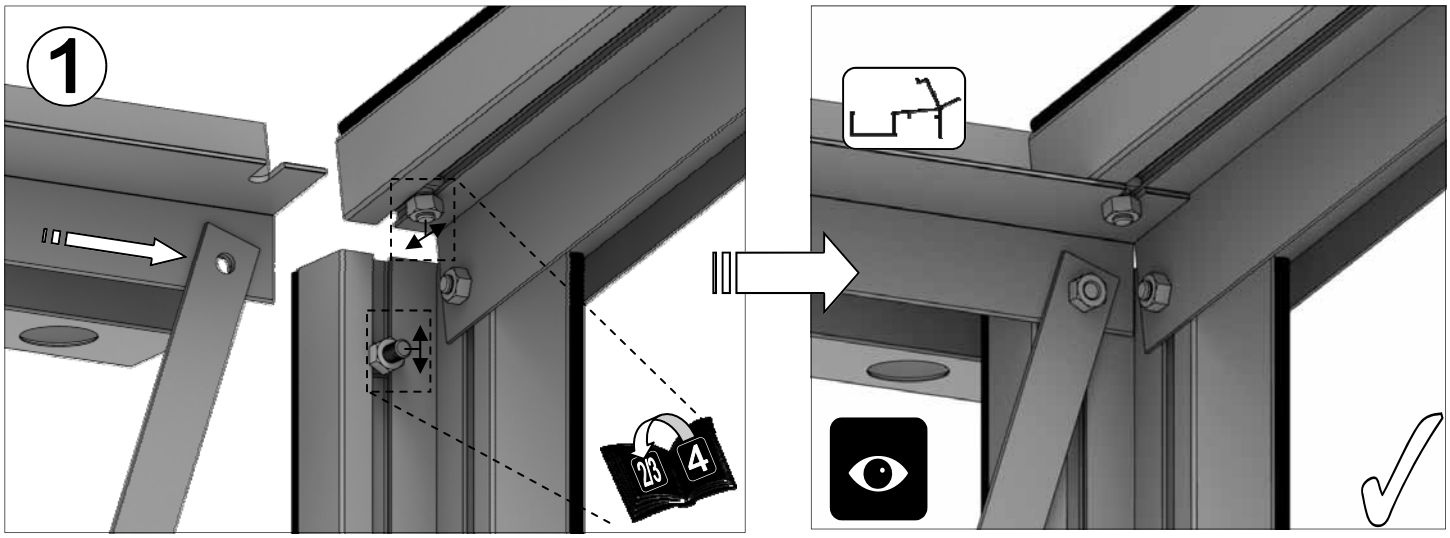
Part No	mm	Quantity
D039R	1625	1
D110	1585	1
D608	1160	1
D626	1497	1
D655	1906	1
D656	1610	1
D657	1314	1
D854R	1744	1

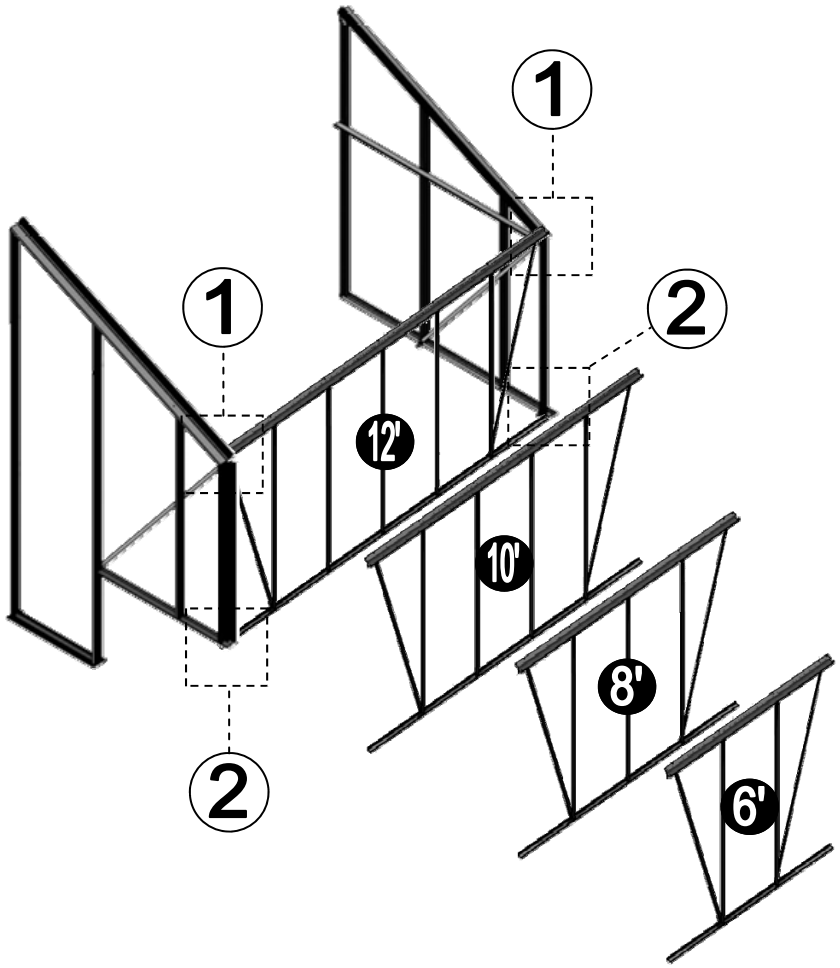


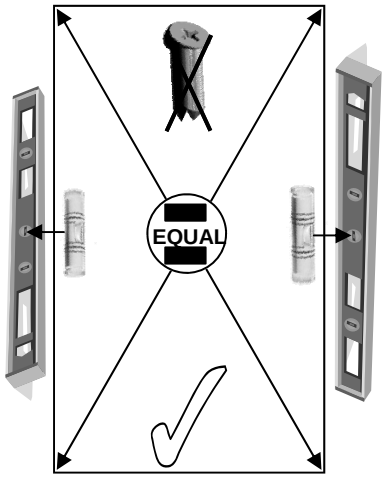

1
3 5
D854R / D854L
D149
2
D854R / D854L
D656
3
D854R / D854L
3 4
D110
D626
D608

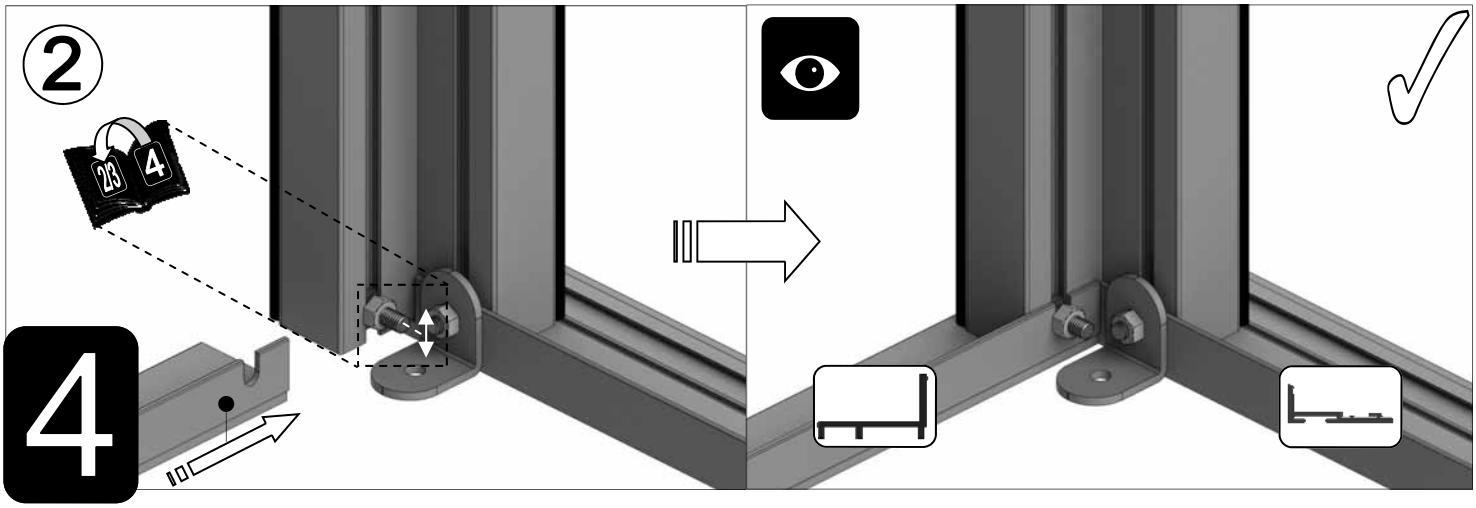

4
D656
D110


5
D655
D039L / D039R
6
D656
D626
D039L / D039R
7
3 4
D608
D174
D039L / D039R
3


1
2|3
4


1
1
2
12'
10'
8'
6'
2


EQUAL

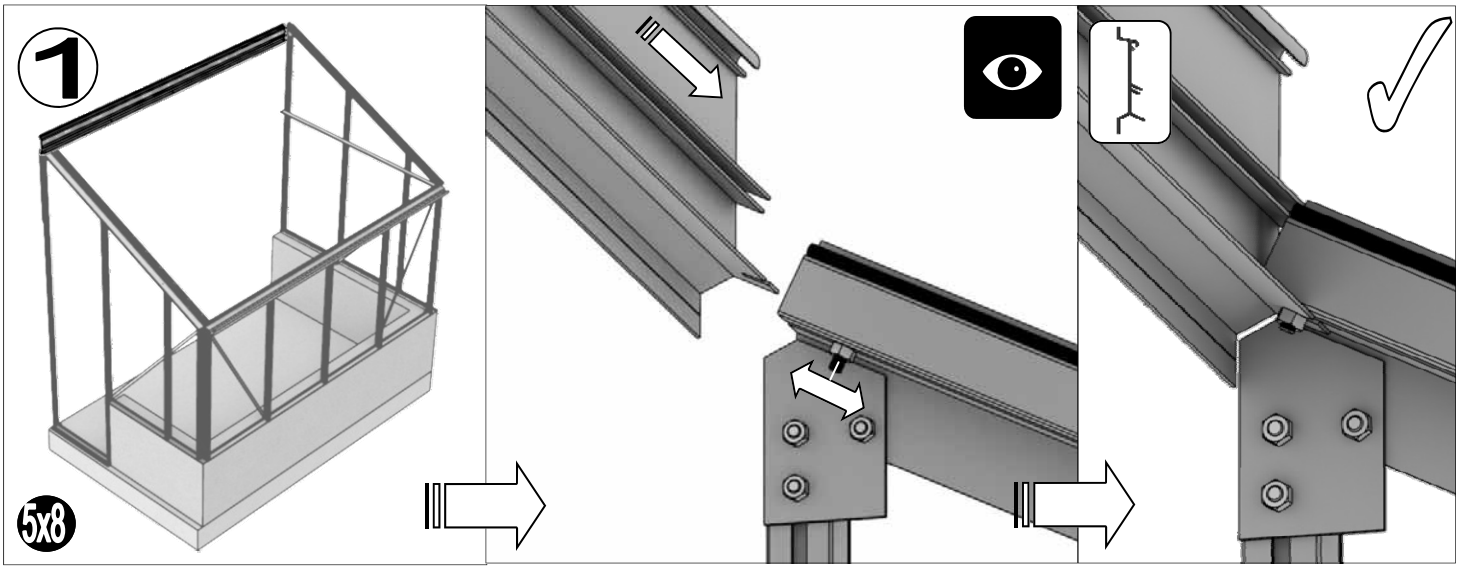

2
2|3
4
4

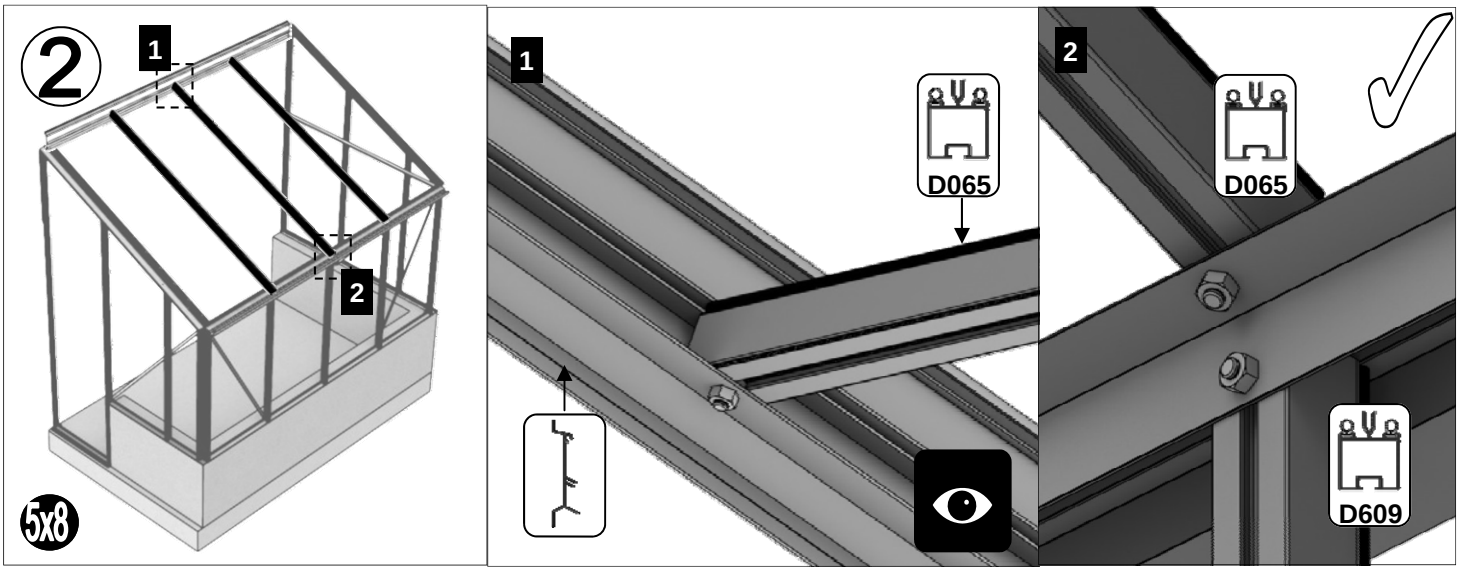
6’		4
Part No	mm	Quantity
D045	1897	1
D065	1744	2
D126	445	2
RUBBER	1000	7

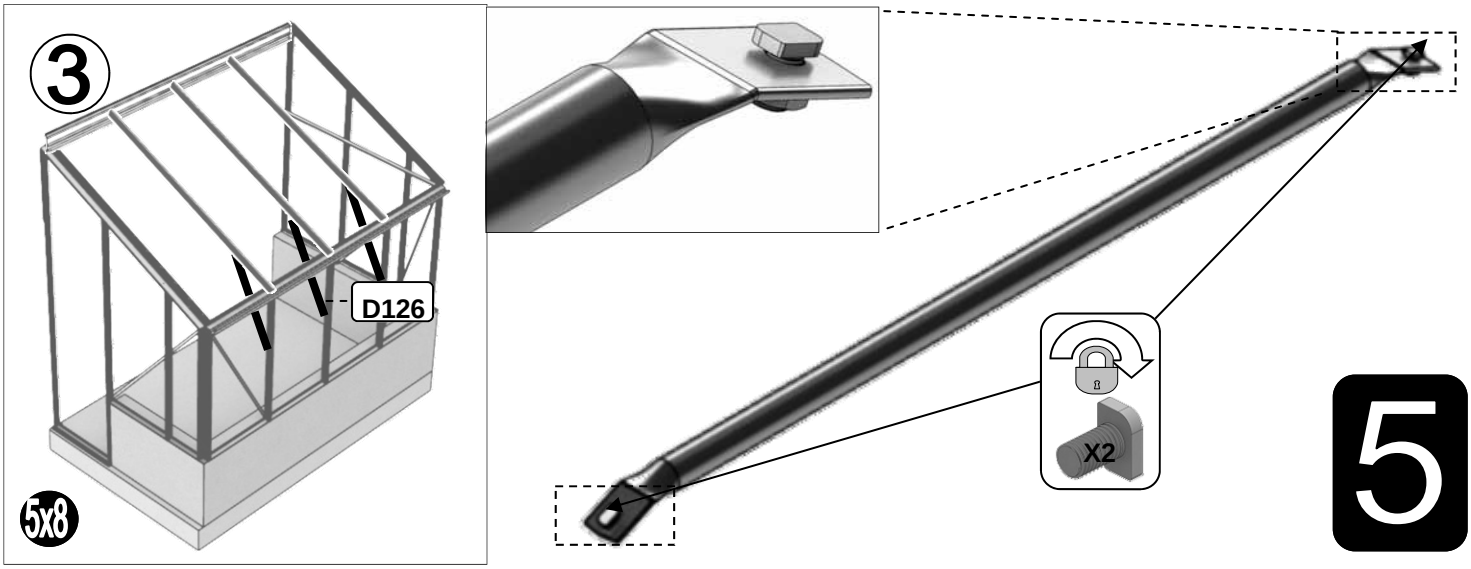
8’		6
Part No	mm	Quantity
D007	2517	1
D065	1744	3
D126	445	3
RUBBER	1000	11

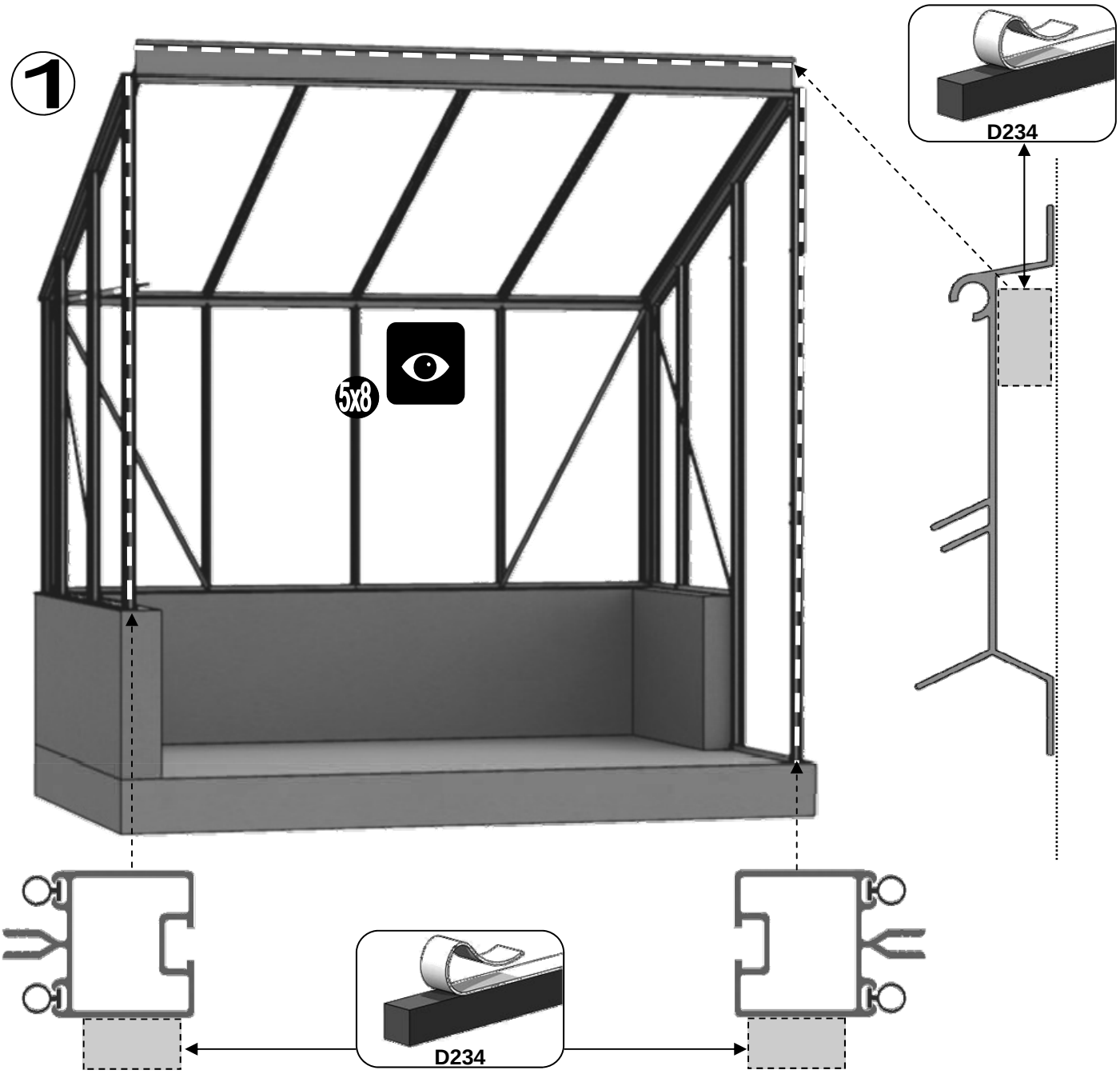
10’		8
Part No	mm	Quantity
D008	3137	1
D065	1744	4
D126	445	4
RUBBER	1000	14

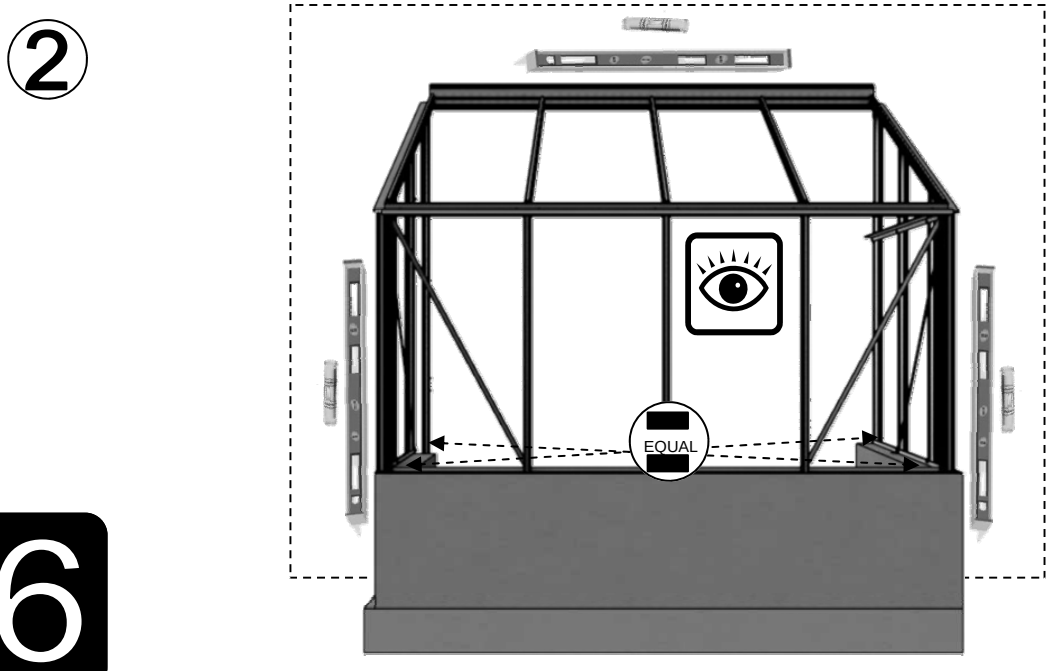
12’		10
Part No	mm	Quantity
D009	3757	1
D065	1744	5
D126	445	5
RUBBER	1000	18











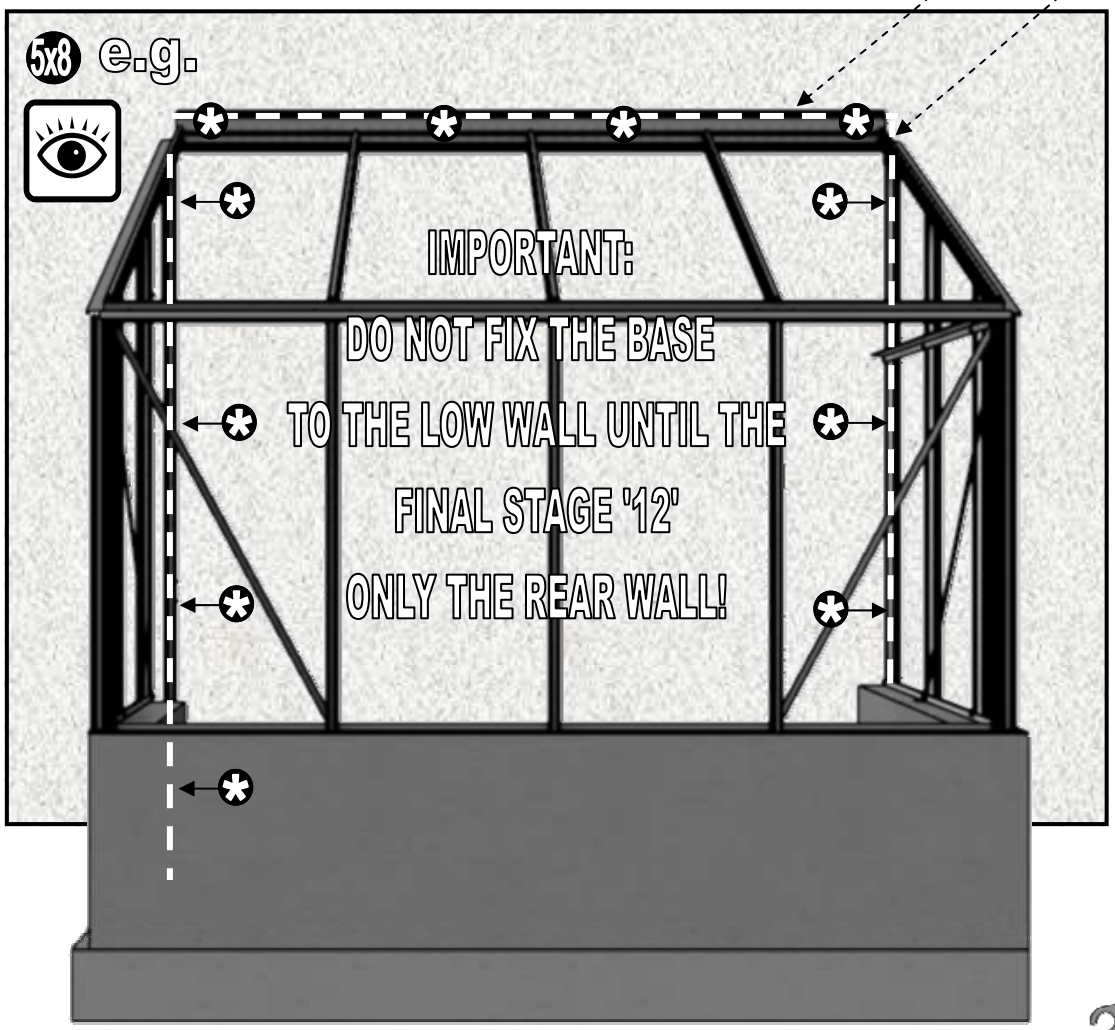
6

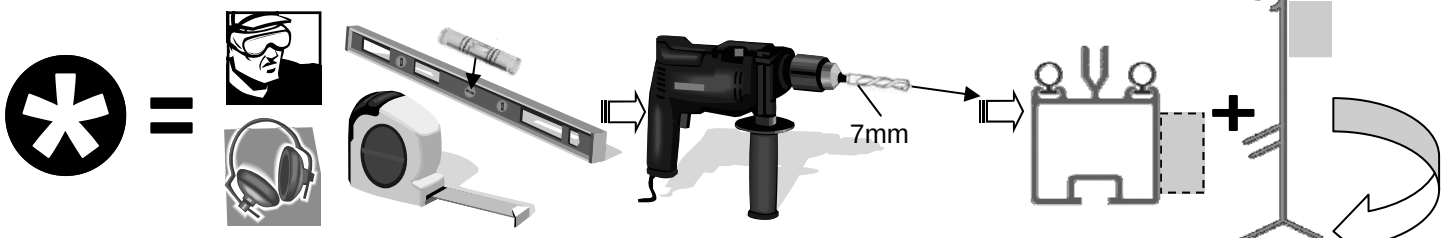
		5x6	5x8	5x10	5x12
Part No		mm	Quantity		
SYSCR3		75	10	11	12	13
SYRAWL		50	10	11	12	13

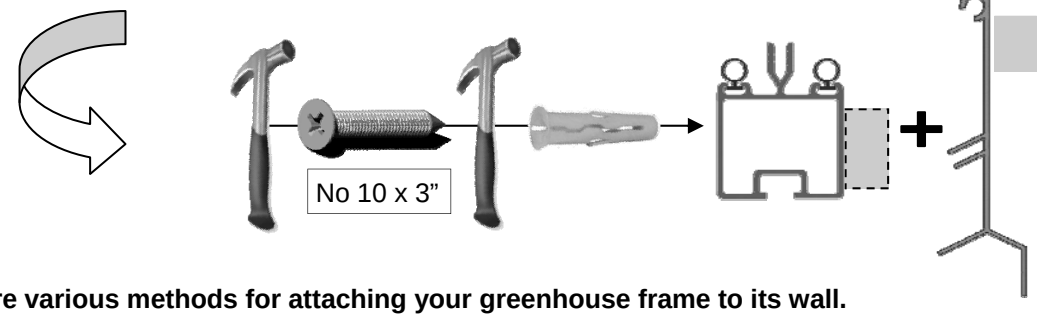
D119

3

5x8 e.g.



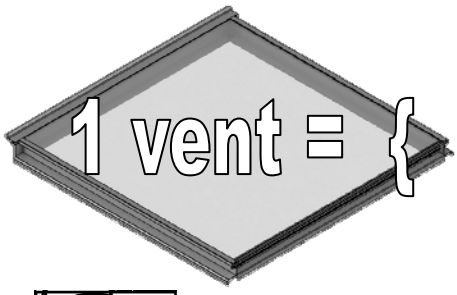




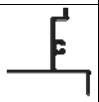
There are various methods for attaching your greenhouse frame to its wall.

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

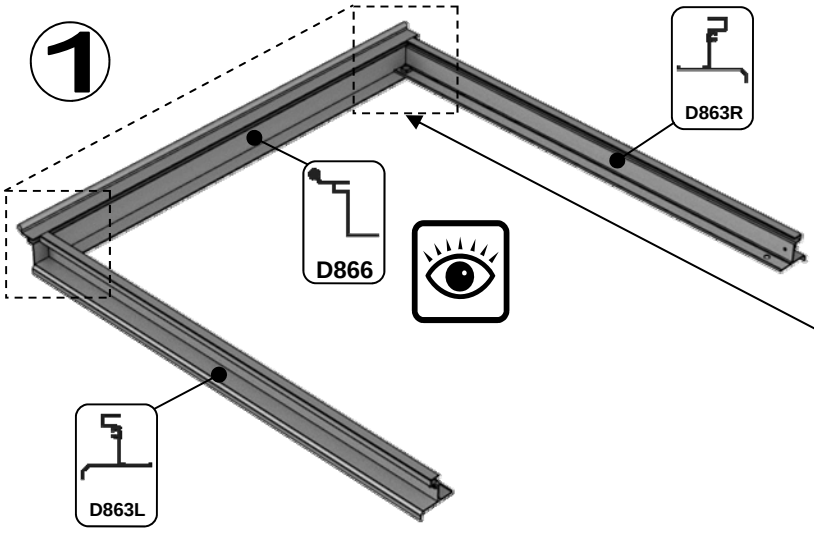


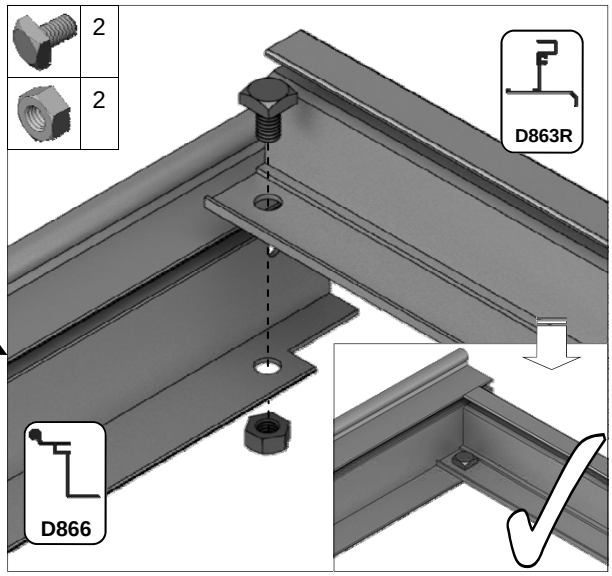
D1208
1 of -
610 x 610
pane

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

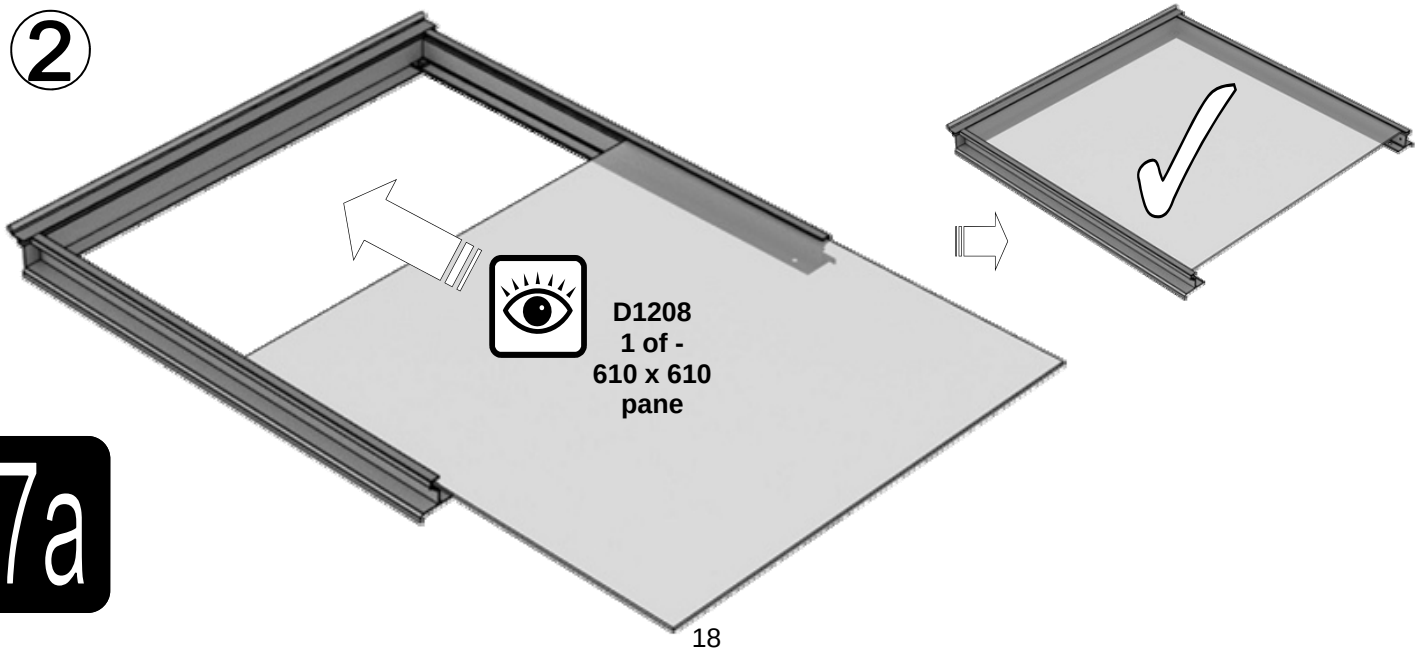
Part No		mm	Quantity
D220 PLUS FS6060 SCREW		N/A	2
D205		N/A	2
SY-BOLM6X11		10	4
SYNUTM6		M6	4
8 X 12 S/T FS6017		10	2
8 x 19 S/T FS6018		19	2

1

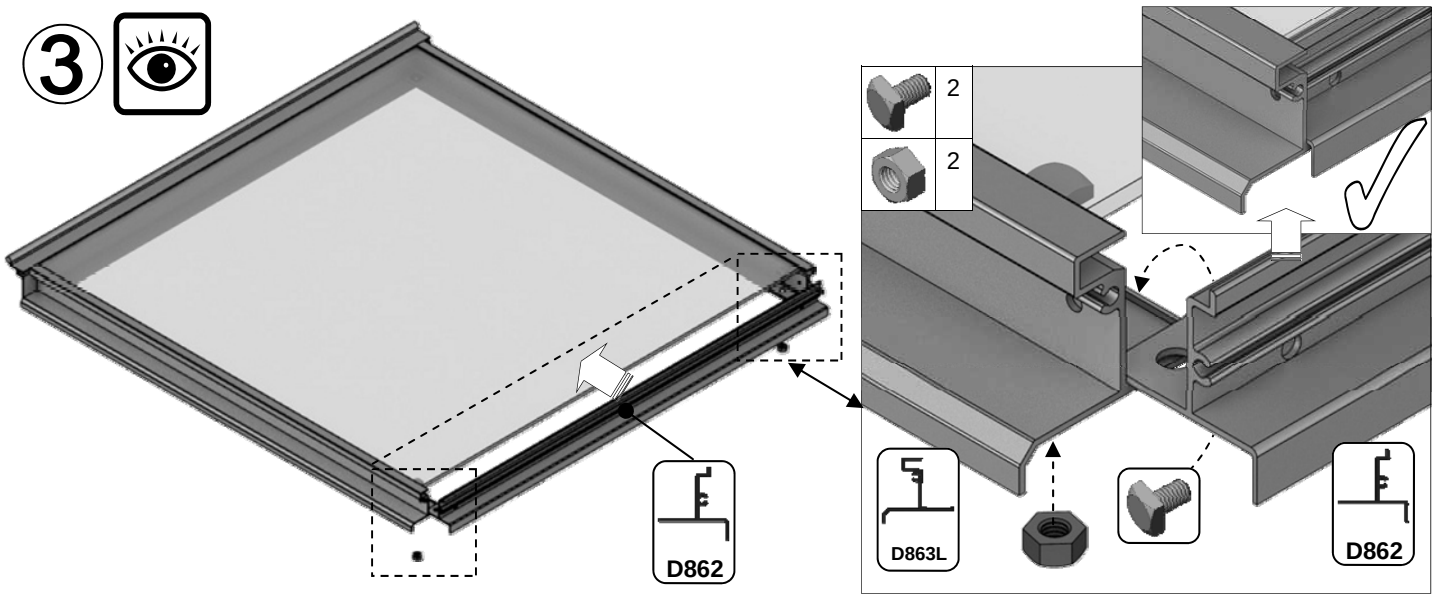


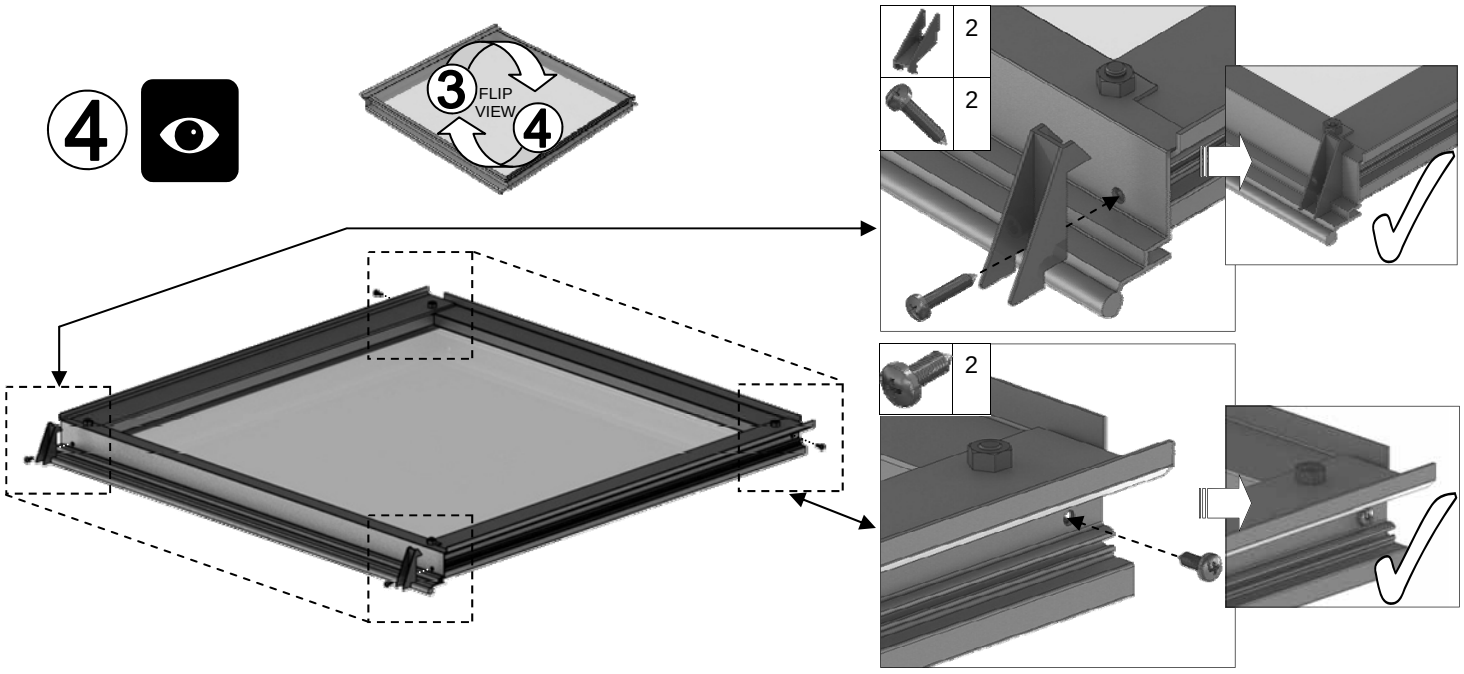


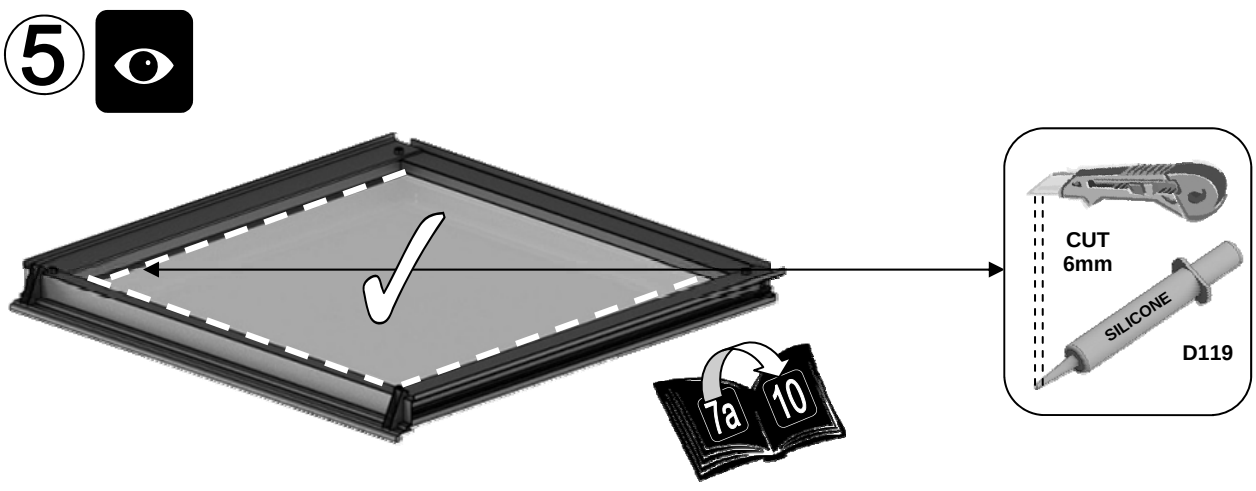
2



7a


3
2
2
D862
D863L
D862


4
3
FLIP
VIEW
4
2
2
2


5
CUT
6mm
SILICONE
D119
7a
10

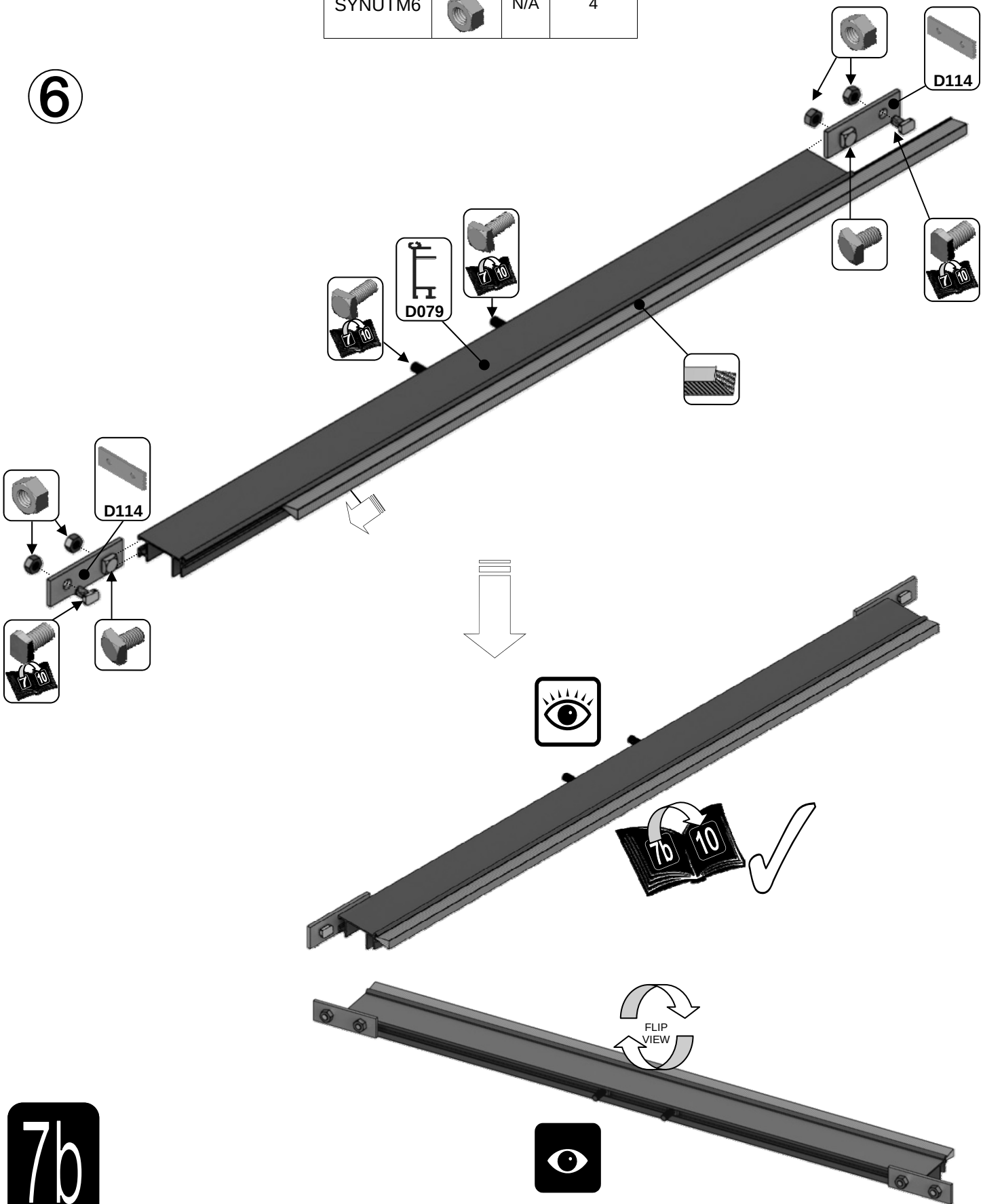
7a

1 vent slam bar = {

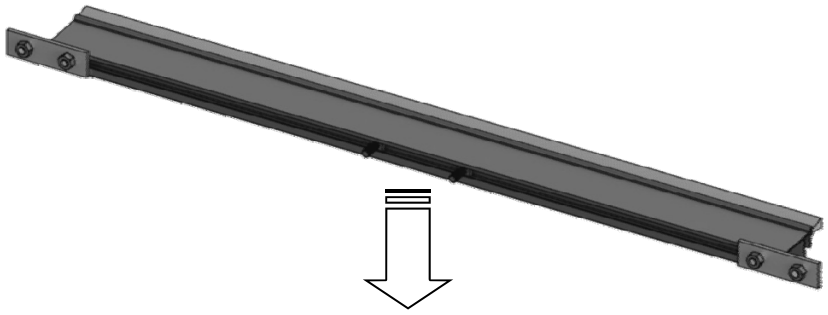
Part No		mm	Quantity
SY-BOLM6X11		10	2
SY-BOLM6X15		15	2
SYBOLM6 X11CROP		10	2
SYNUTM6		N/A	4

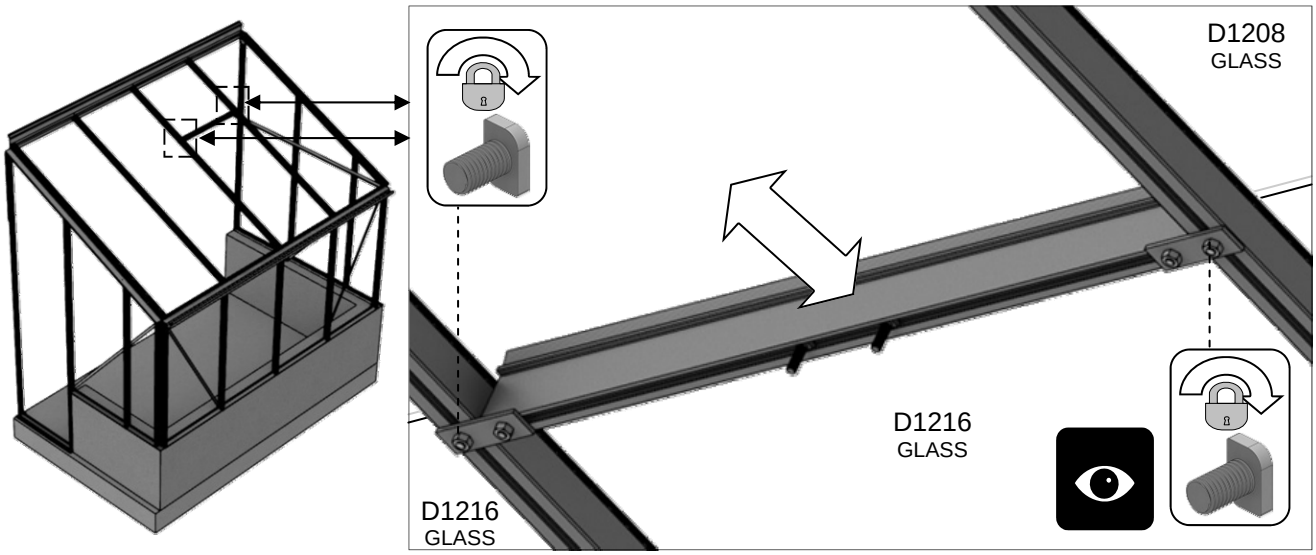
Part No		mm	Quantity
D079 PLUS FLUFF		590	1
D114		N/A	2

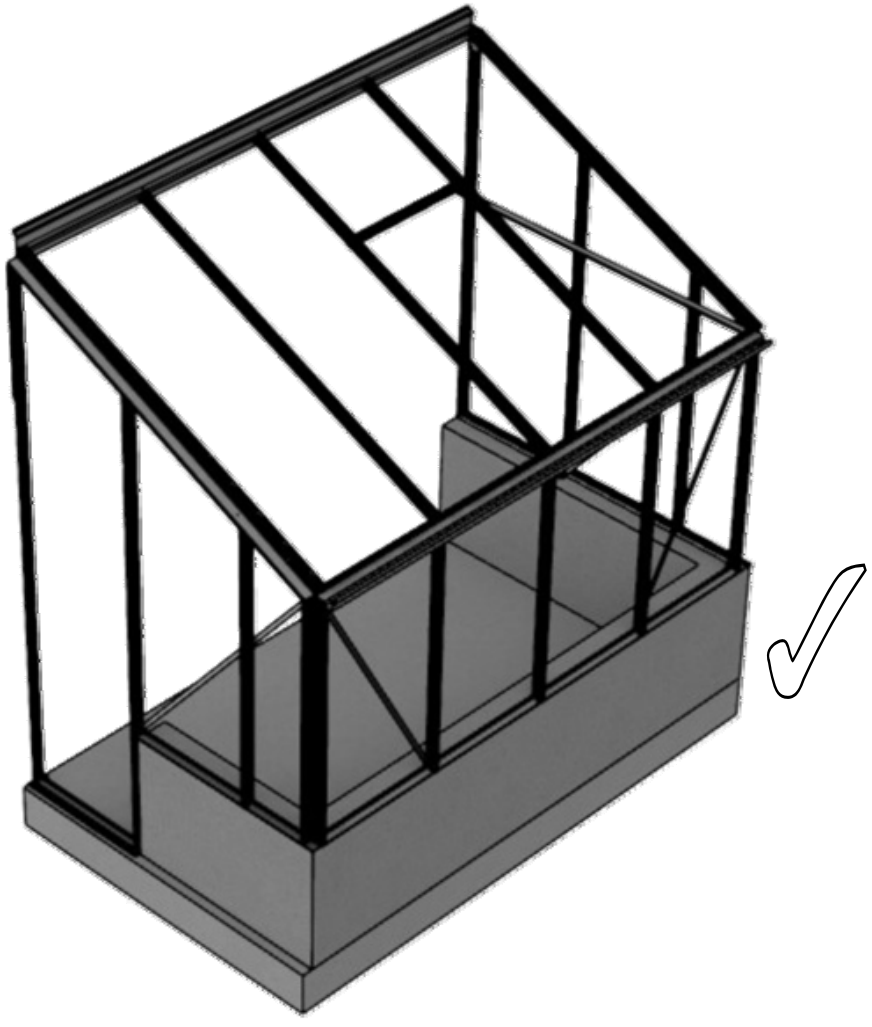
6



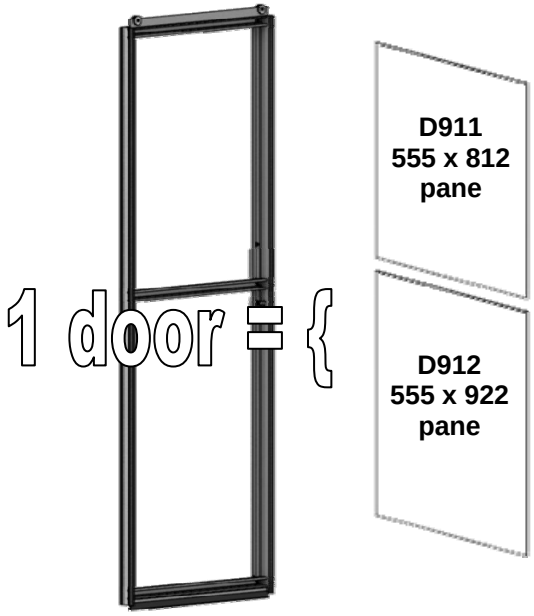
7b





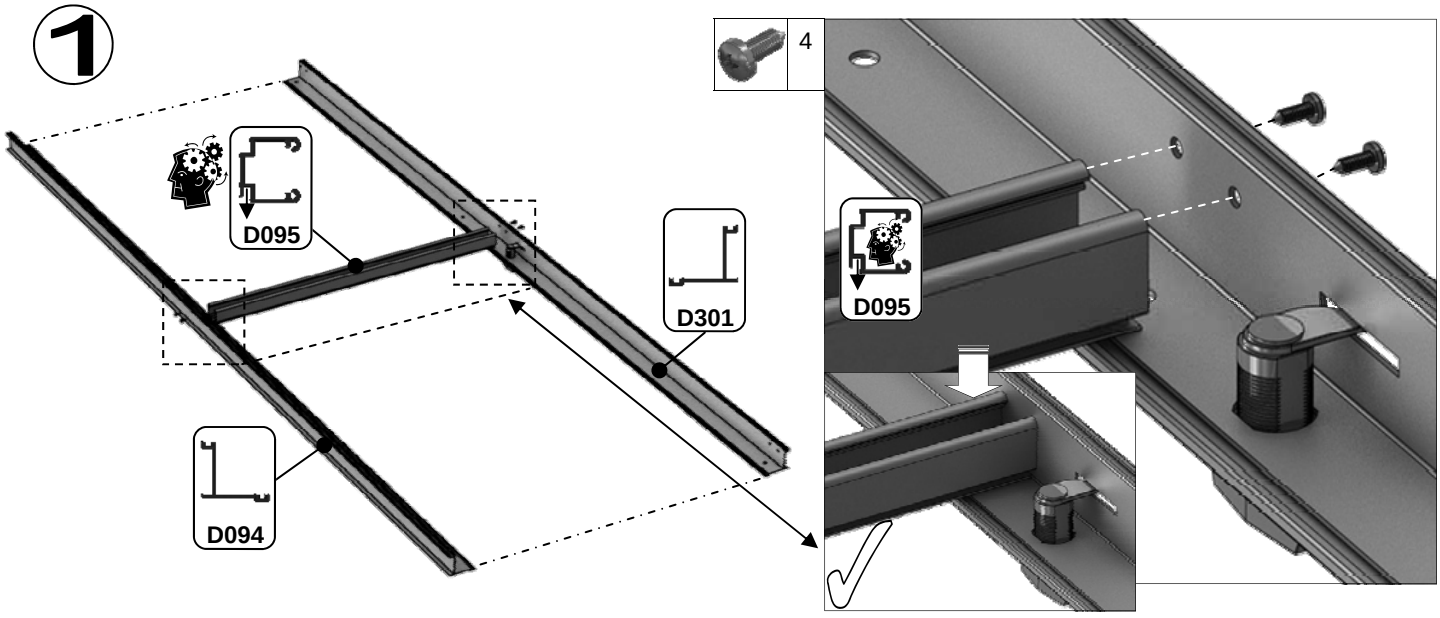


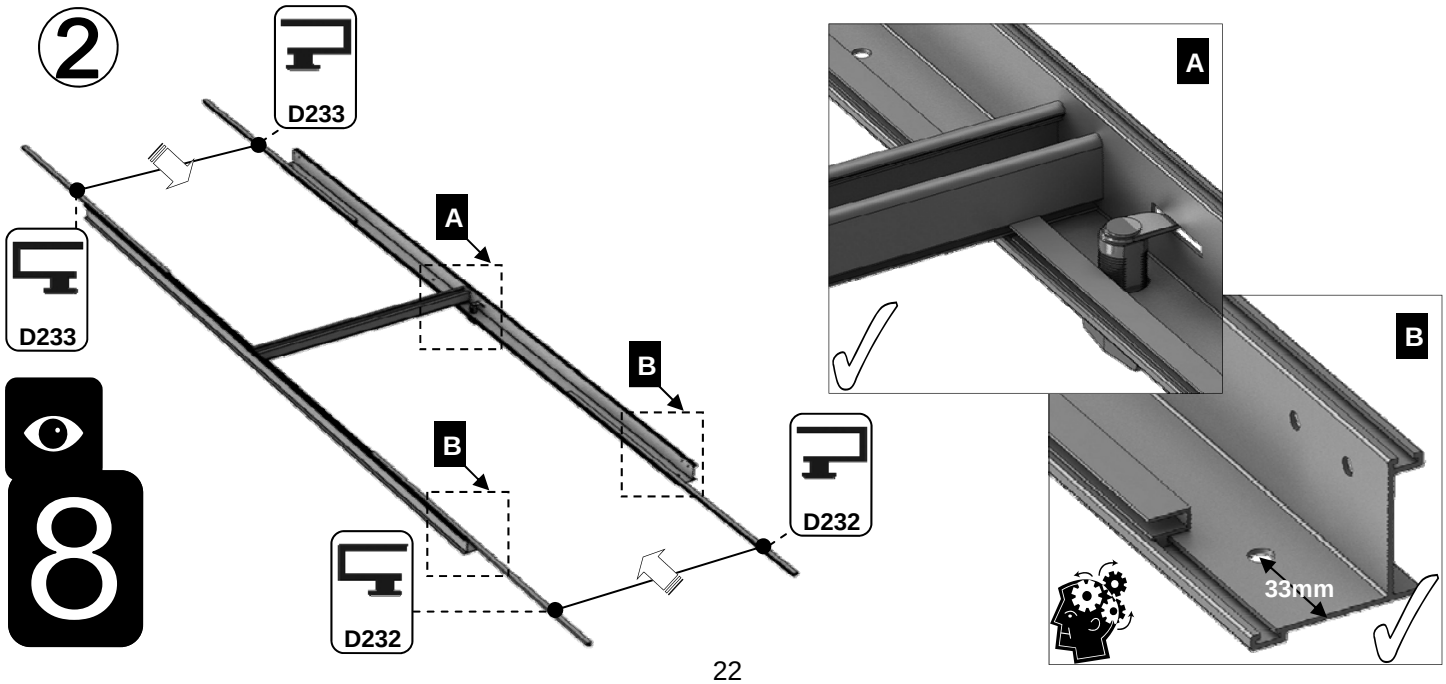
7b

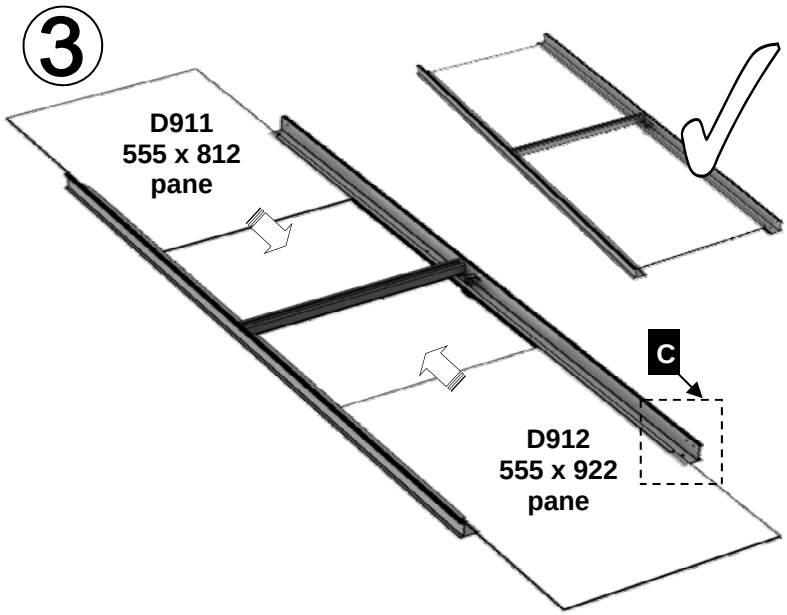


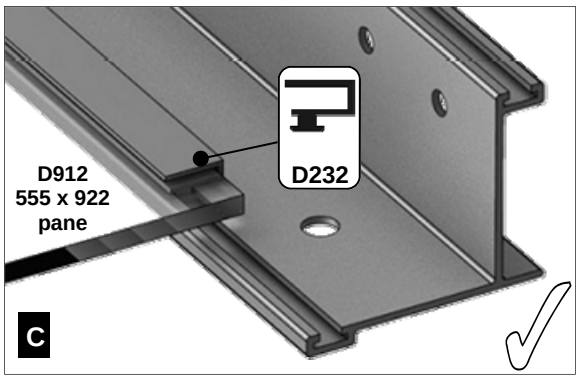
Part No		mm	Q
D090 + D347 lock = D301		1824	1
D094		1824	1
D096 + D217 wheel = D307		611	1
D095		611	1
D097		611	1

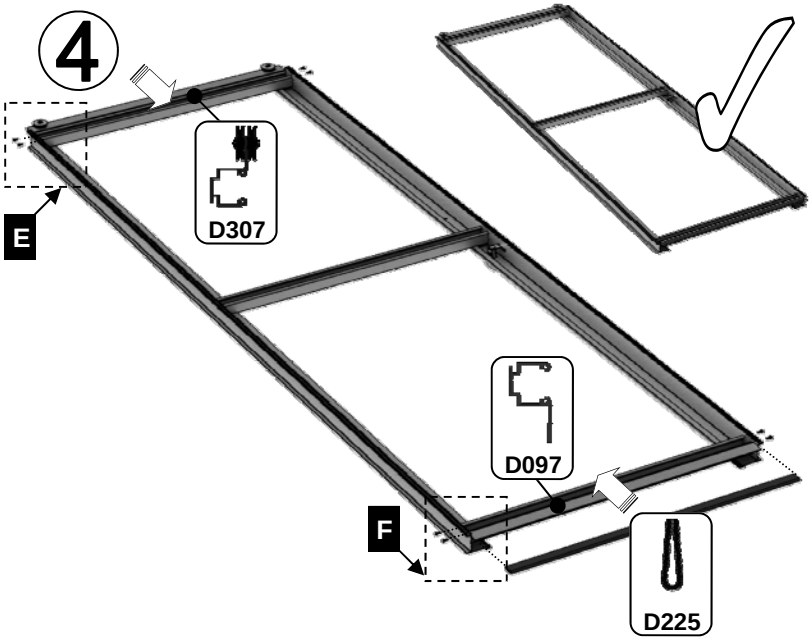
Part No		mm	Q
D232		905	2
D233		797	2
P053		N/A	1
D225		610	1
D840B		4000	. 1
D263 PACK		N/A	7
		N/A	7
D260 PACK		N/A	12

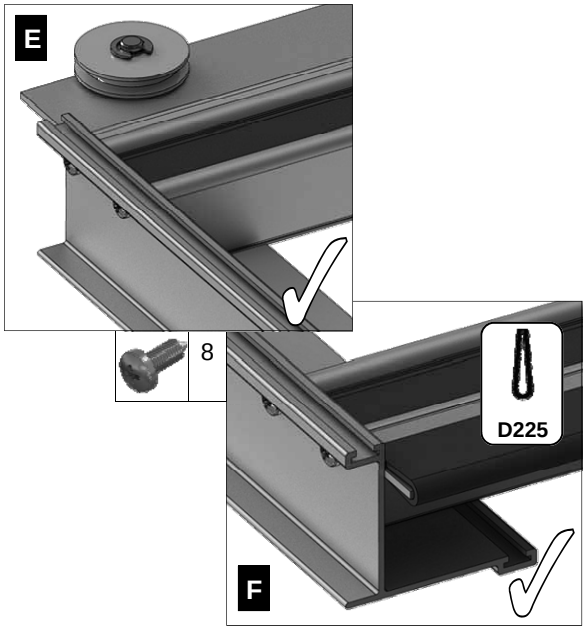


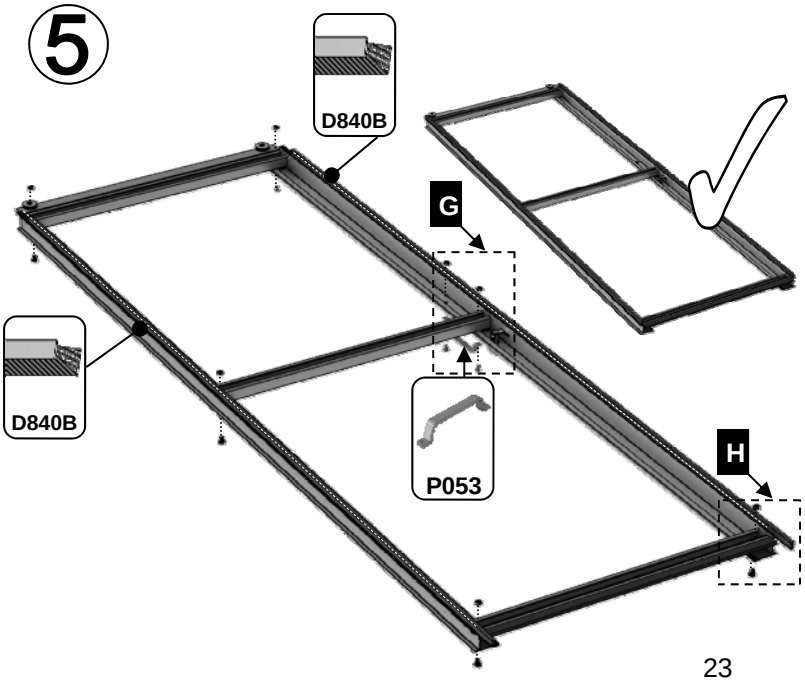


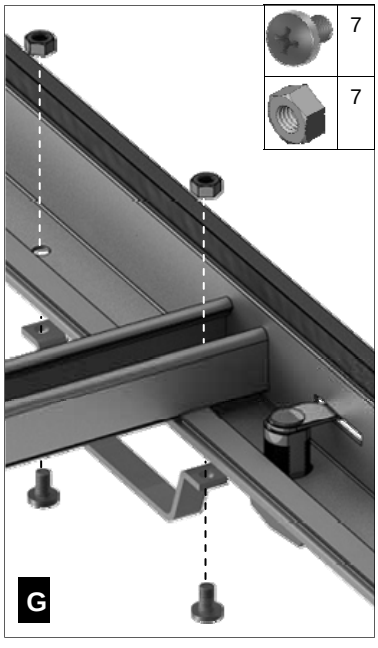

3
D911
555 x 812
pane
C
D912
555 x 922
pane

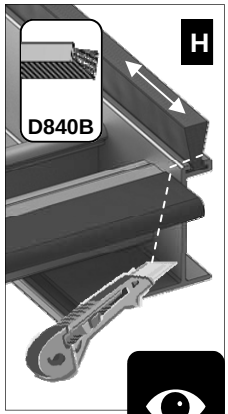

D912
555 x 922
pane
D232
C


4
E
D307
D097
F
D225

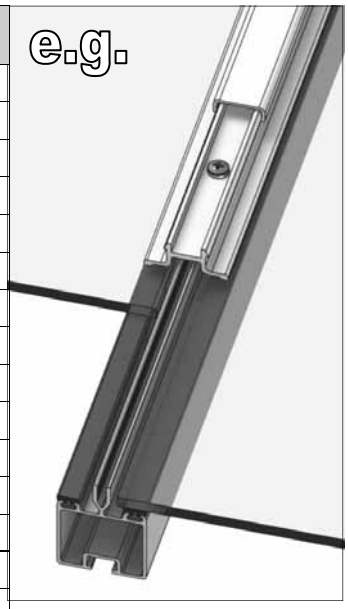

E
8
D225
F

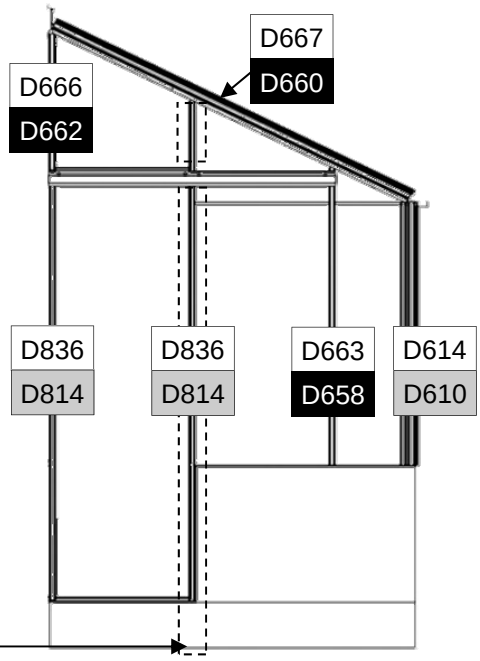

5
D840B
G
D840B
P053
H

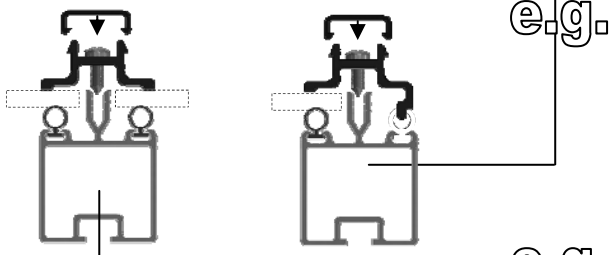

7
7
G

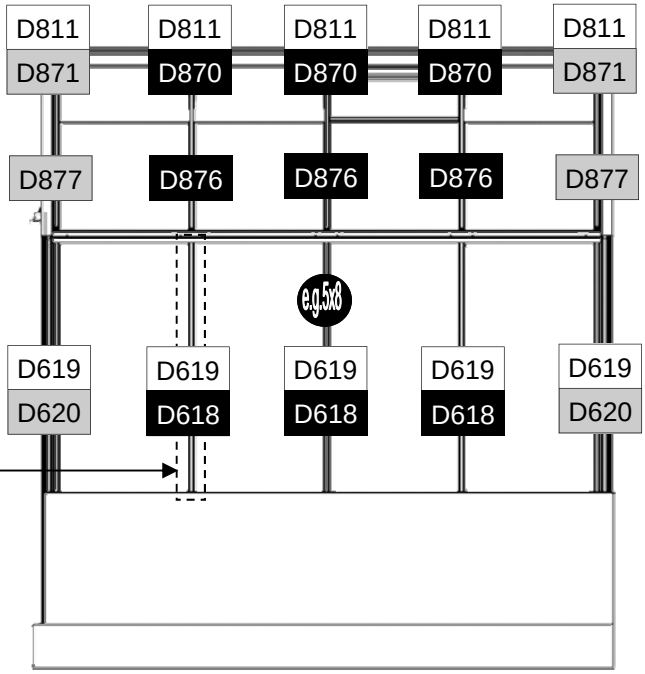

H
D840B

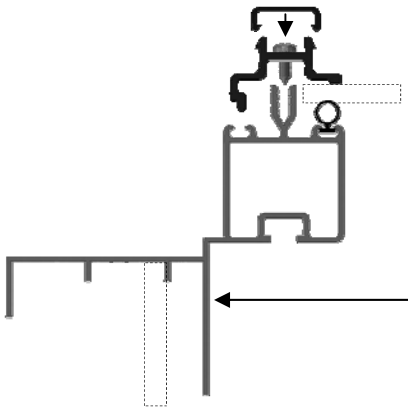
PART No	Section	Size (mm)
D618		1144
D658		1314
D659		1610
D660		311
D661		1906
D662		600
D870		601
D876		1152
D610		1160
D620		1144
D814		1883
D871		601
D877		1152
D614		1162
D619		1144
D663		1316
D664	OR	1610
D665		1908
D666		602
D667		313
D811		1754
D836		1883

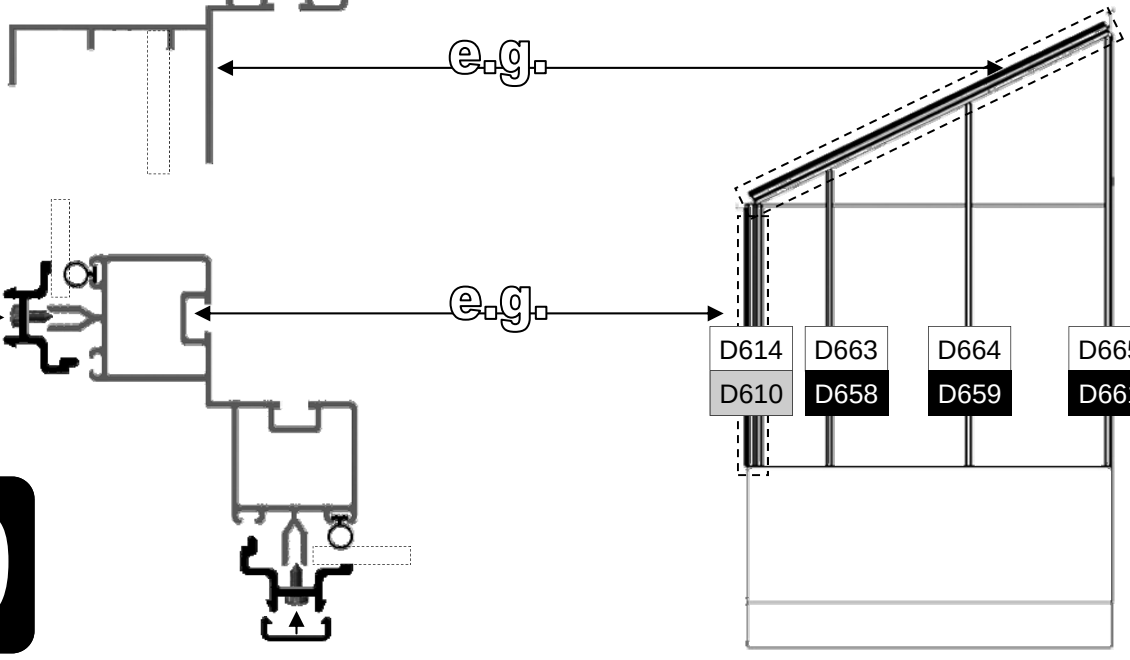


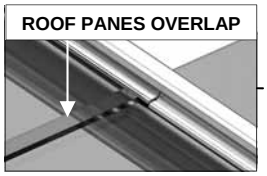




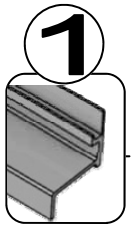


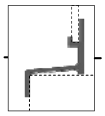


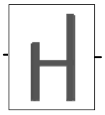




5'LEAN-TO DWARF TOUGHENED GLASS

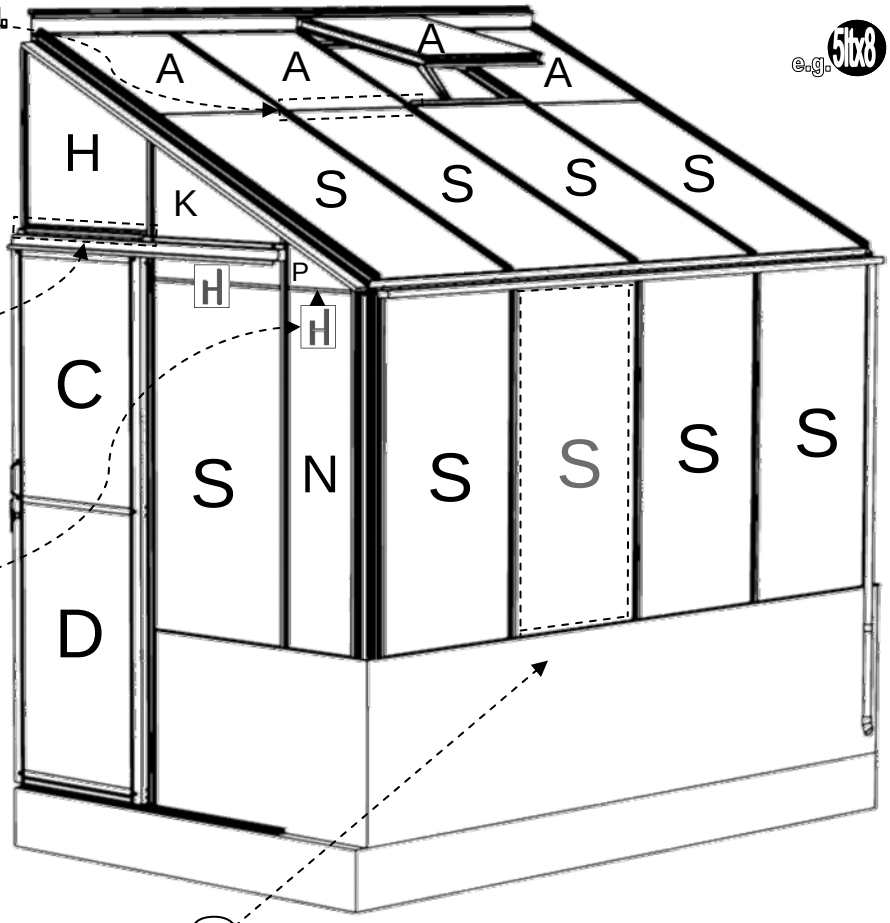


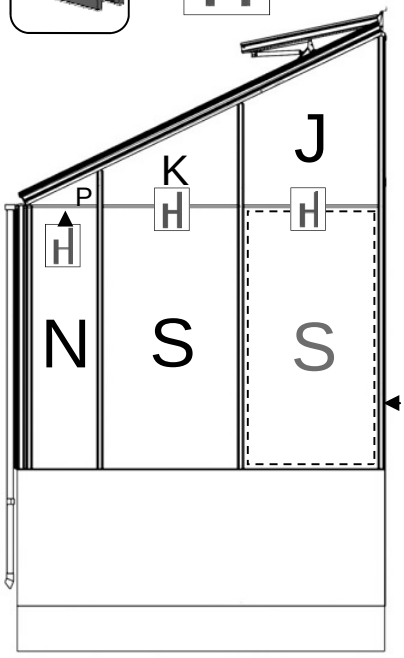




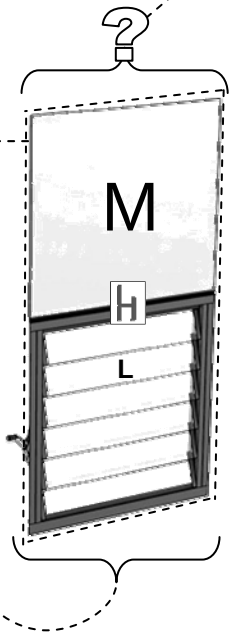
e.g.

e.g. 5lb8

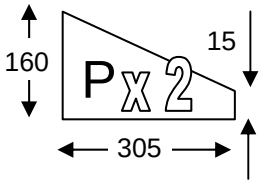


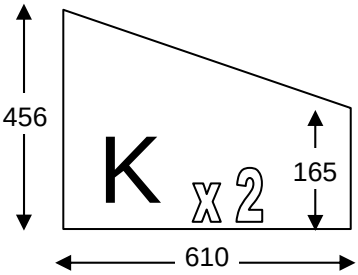


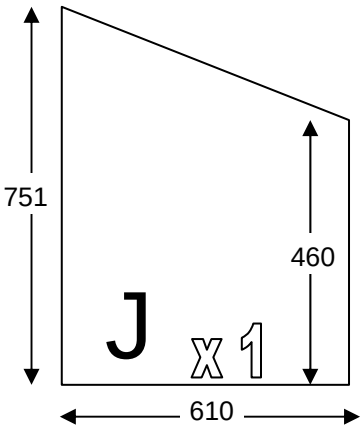
D624	M	610 X 550	1
D729	L	525X 100	6
D101 / ROSEPS	H	610 long	1

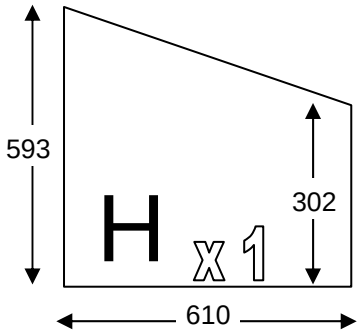


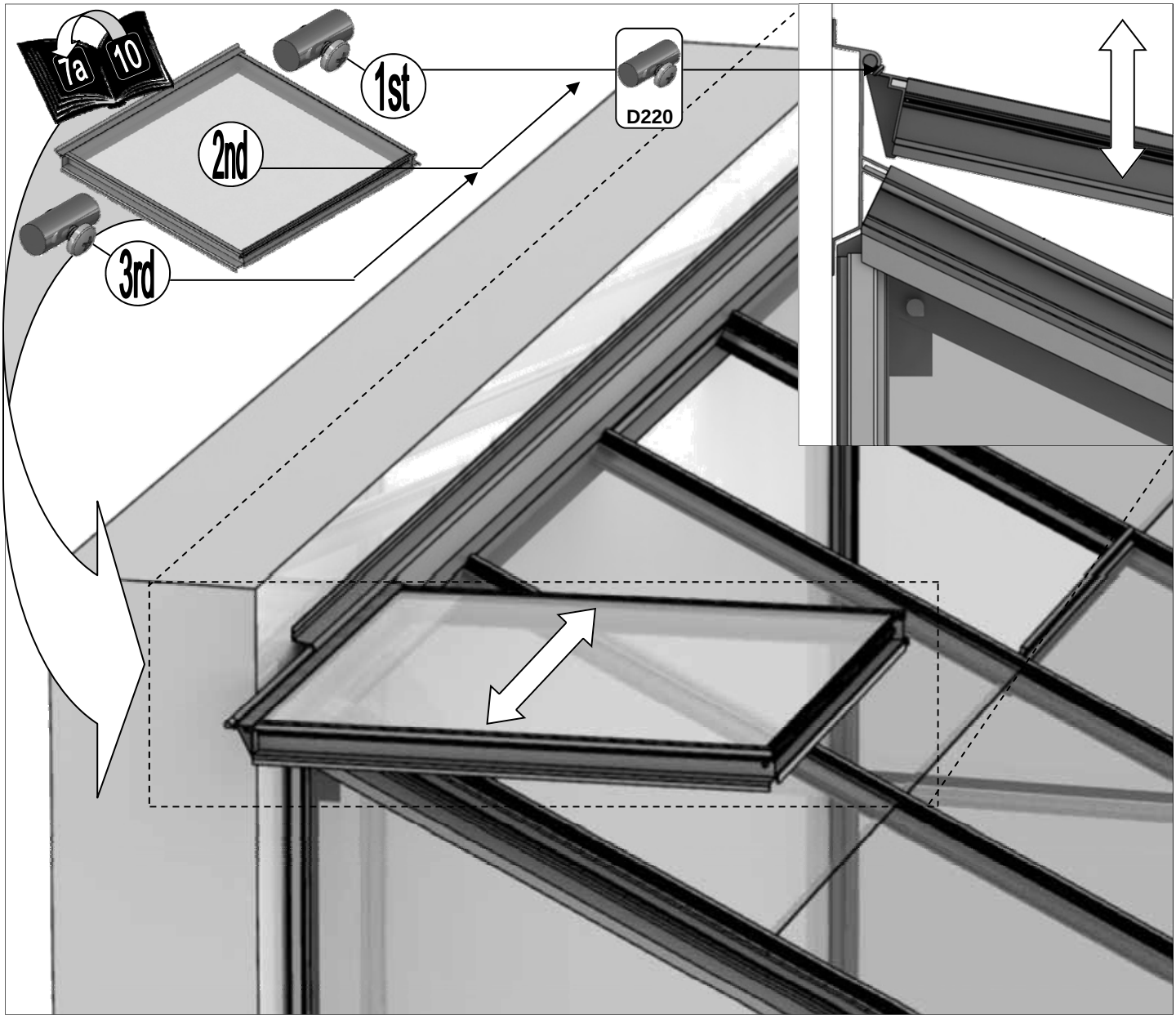
PART No		Size (mm)	8'	10'	12'
D1216	S	610 X 1162	10	12	13
D1208	A	610 X 610	4	5	6
D625	N	305 X 1162	2		
D911	C	555 X 812	1		
D912	D	555 X 922	1		
D902	P	ANGLE	2		
D901	K	ANGLE	2		
D907	J	ANGLE	1		
D622	H	ANGLE	1		
D222/W		590	1		
D101 / ROSEPS	H	610 long (inc cuts to 305mm)	4		

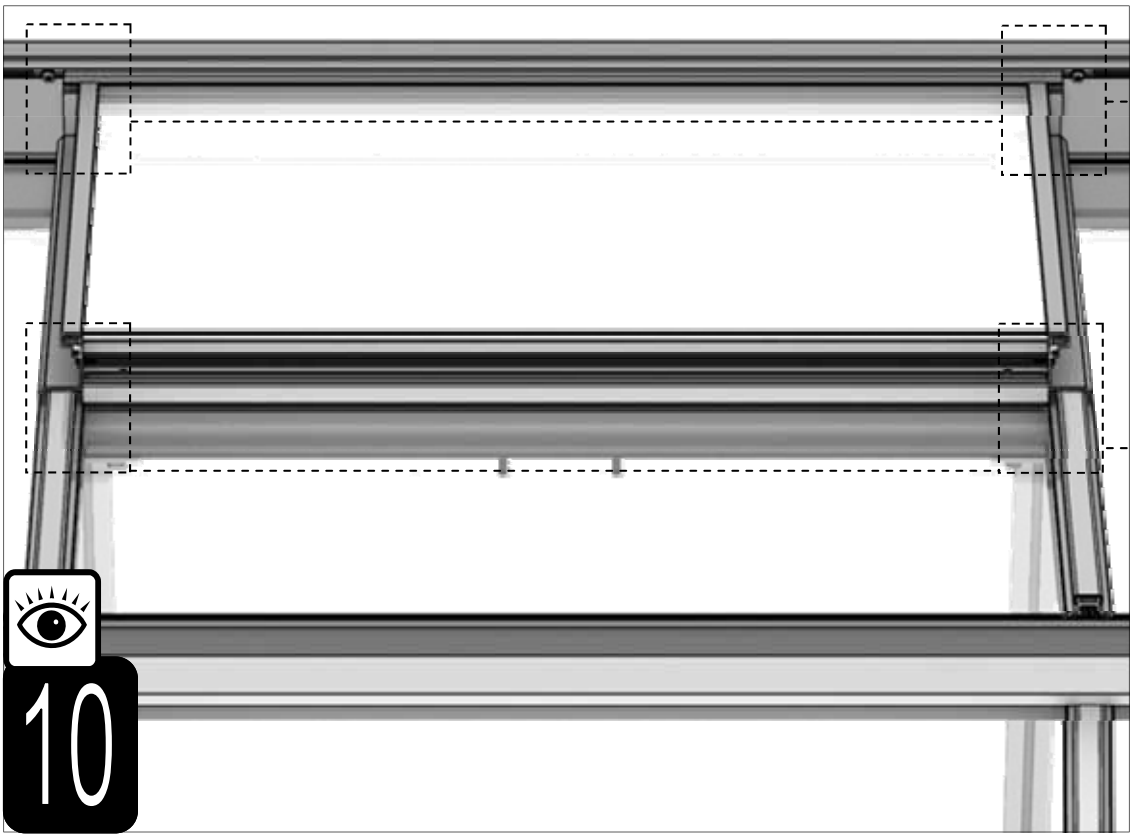


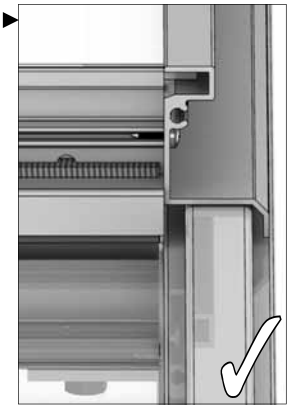




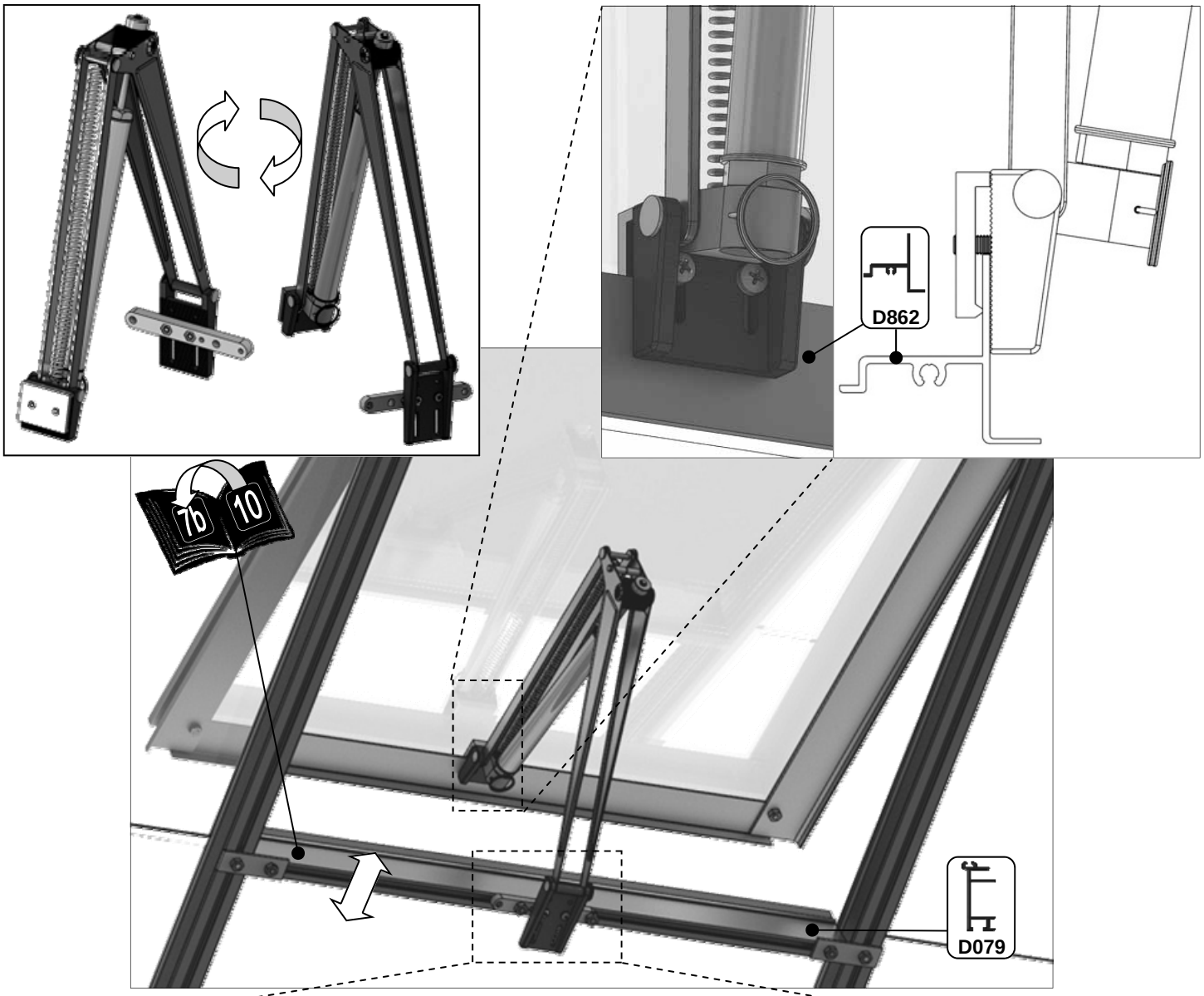


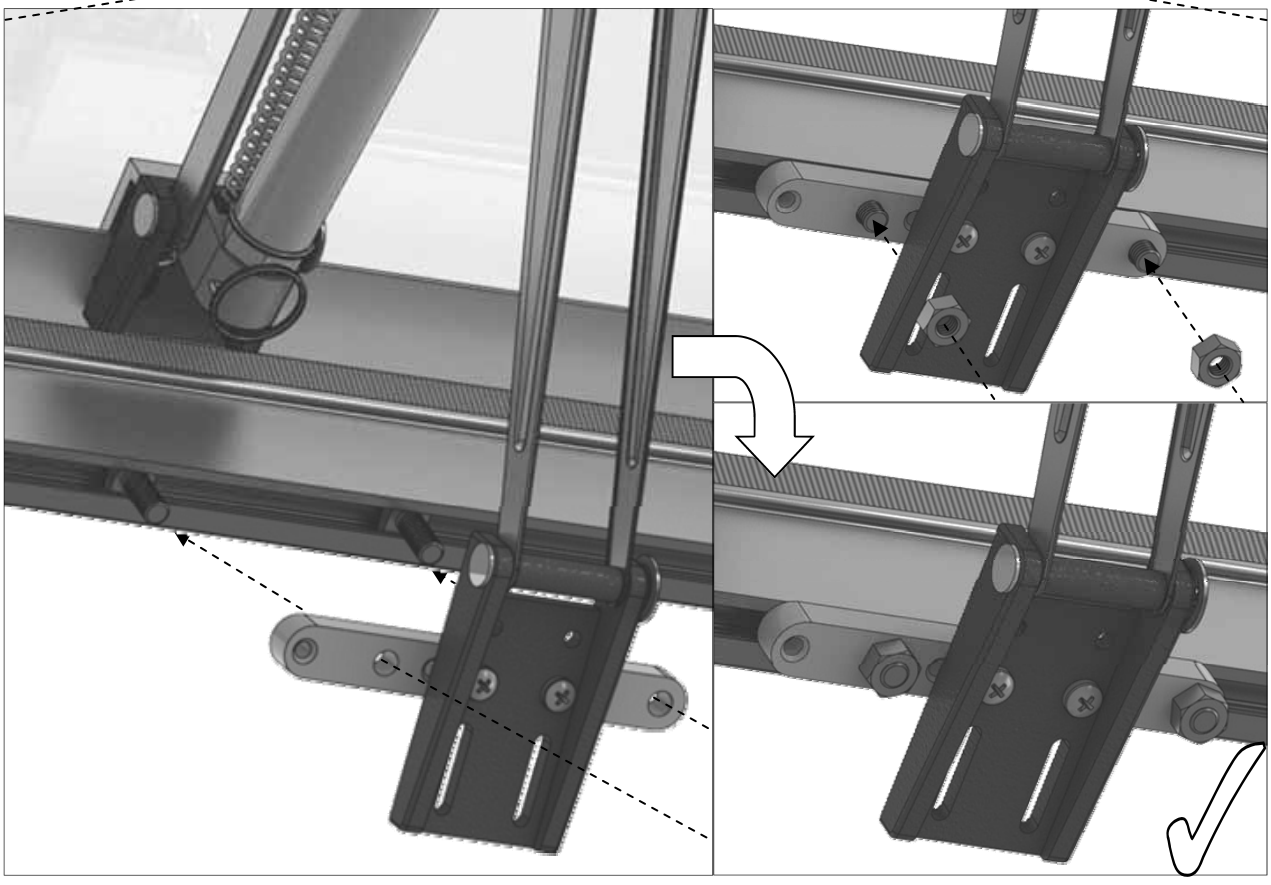






10

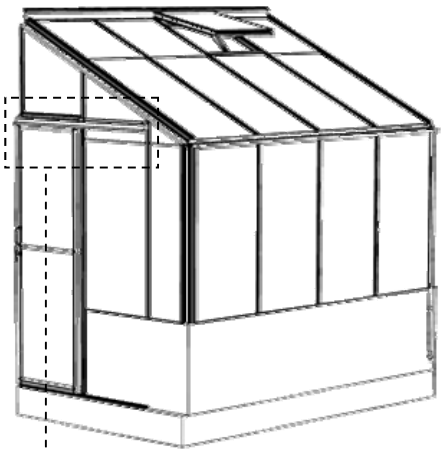


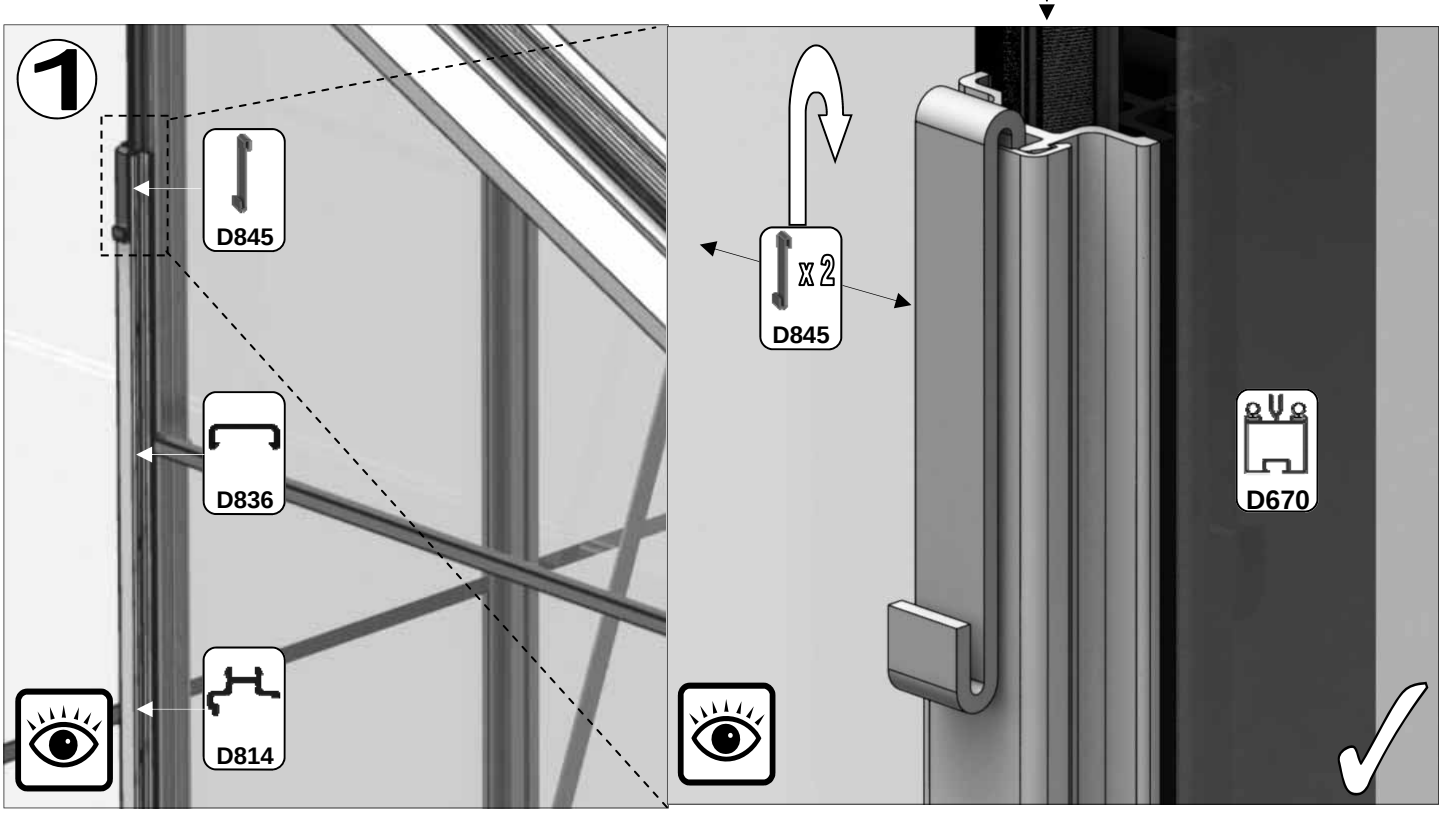


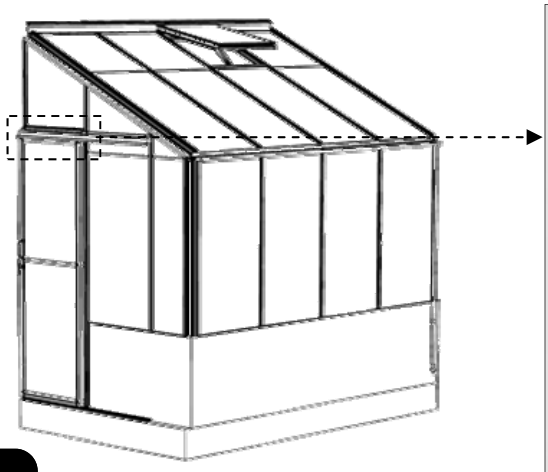
10

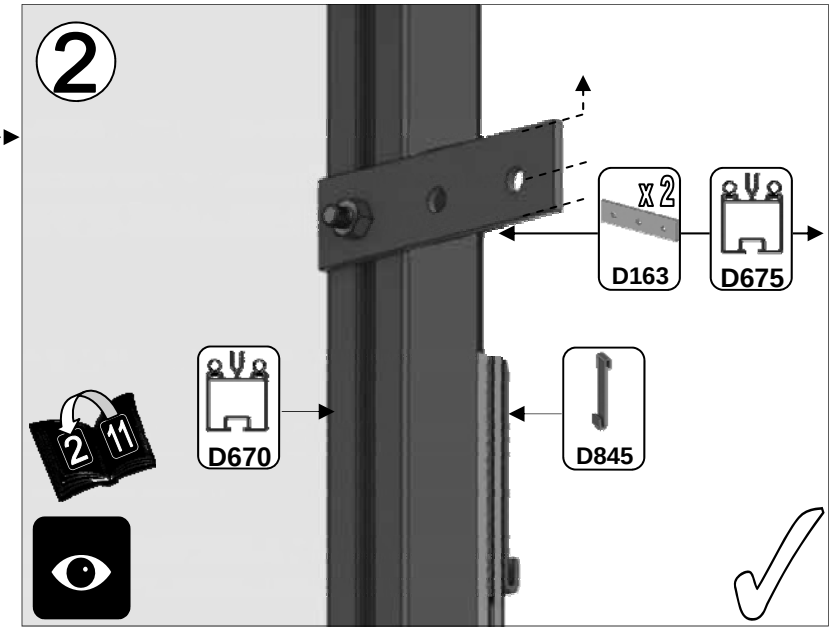
Part No		mm	Q
D864		590	1
D084		1270	1
D083		1270	1

Part No		mm	Q
D163		90	2
D845			2
SY-BOLM6X15			10
SYNUTM6			10

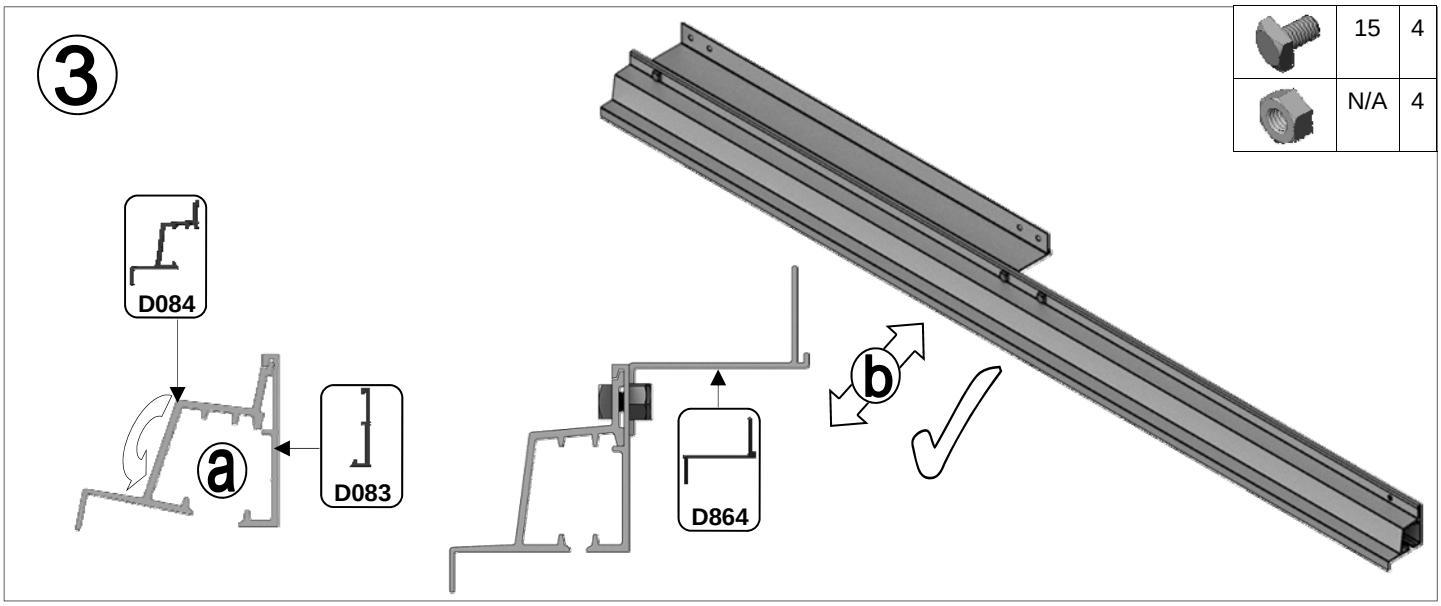


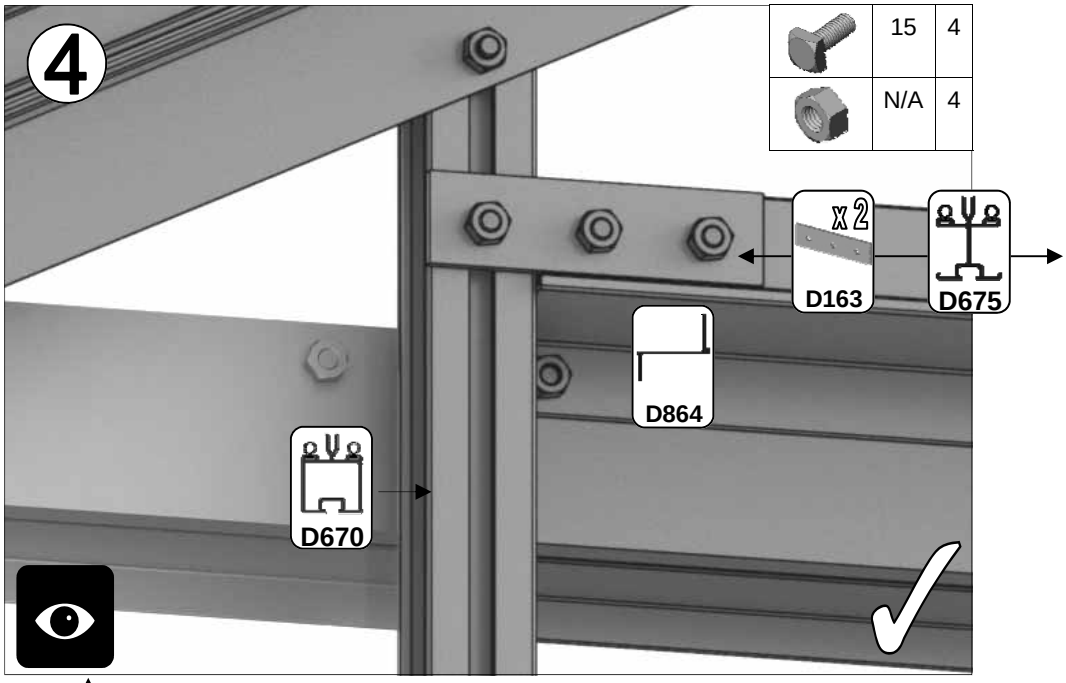


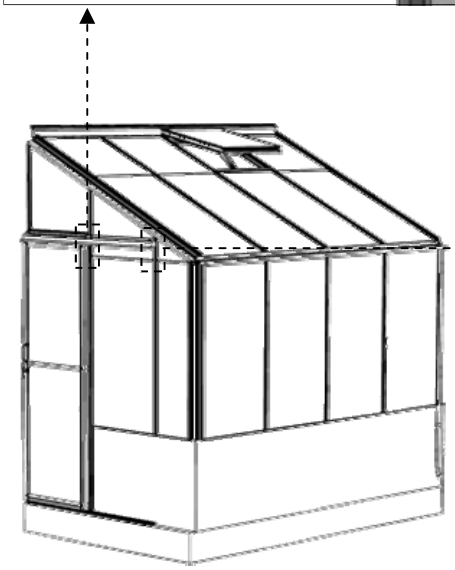


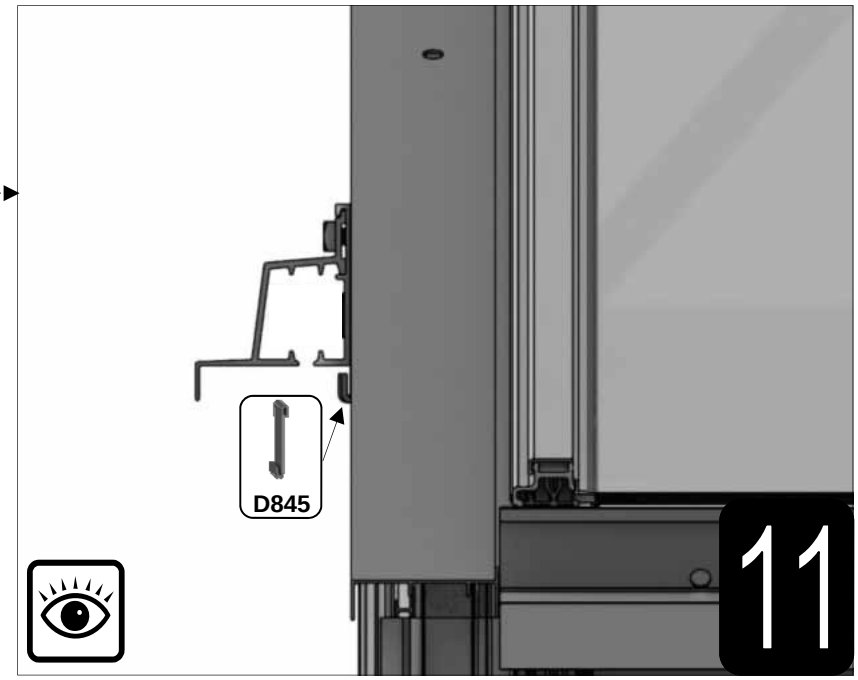


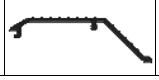
11

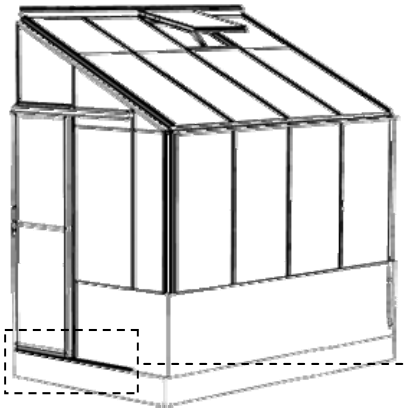

3
15 4
N/A 4
D084
D083
D864
a
b

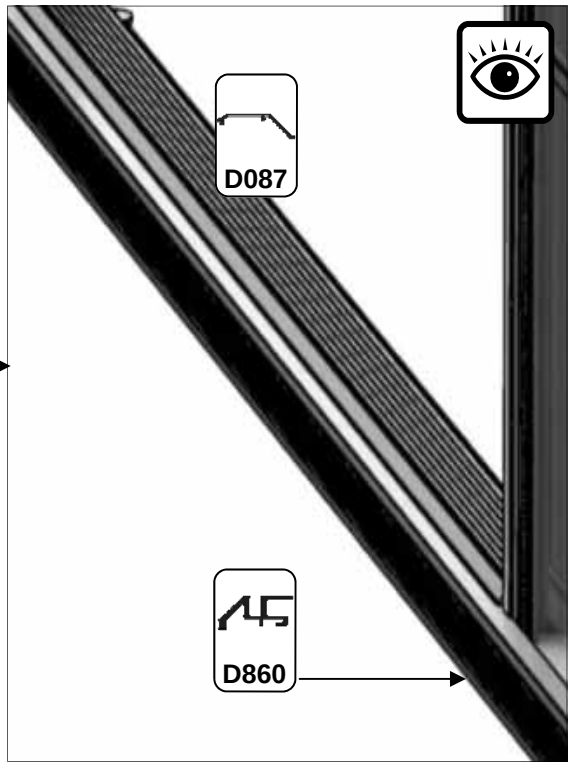

4
15 4
N/A 4
x2
D163
D675
D864
D670



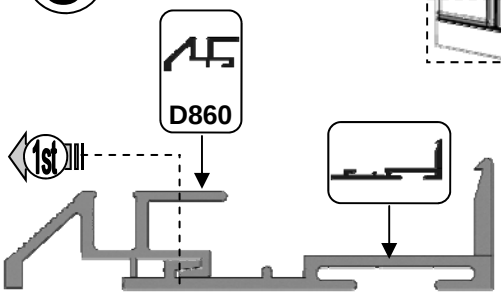

D845
11

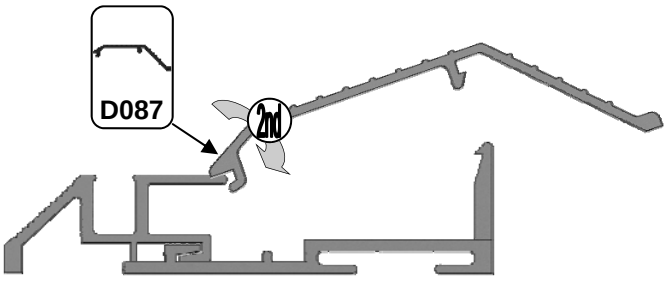
Part No		Quantity
D860		1
D087		1

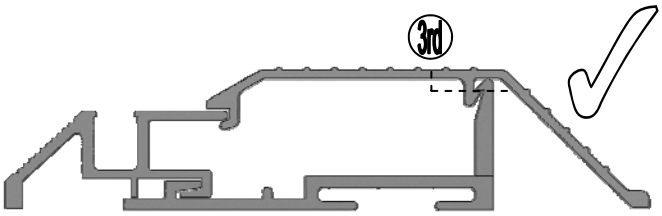




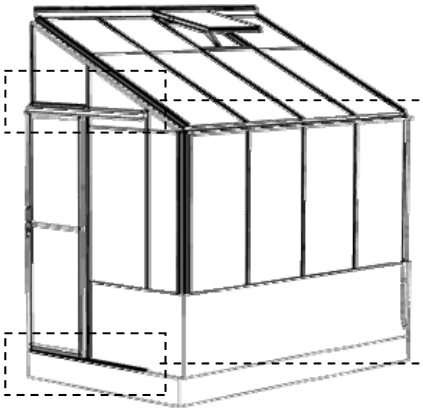
5

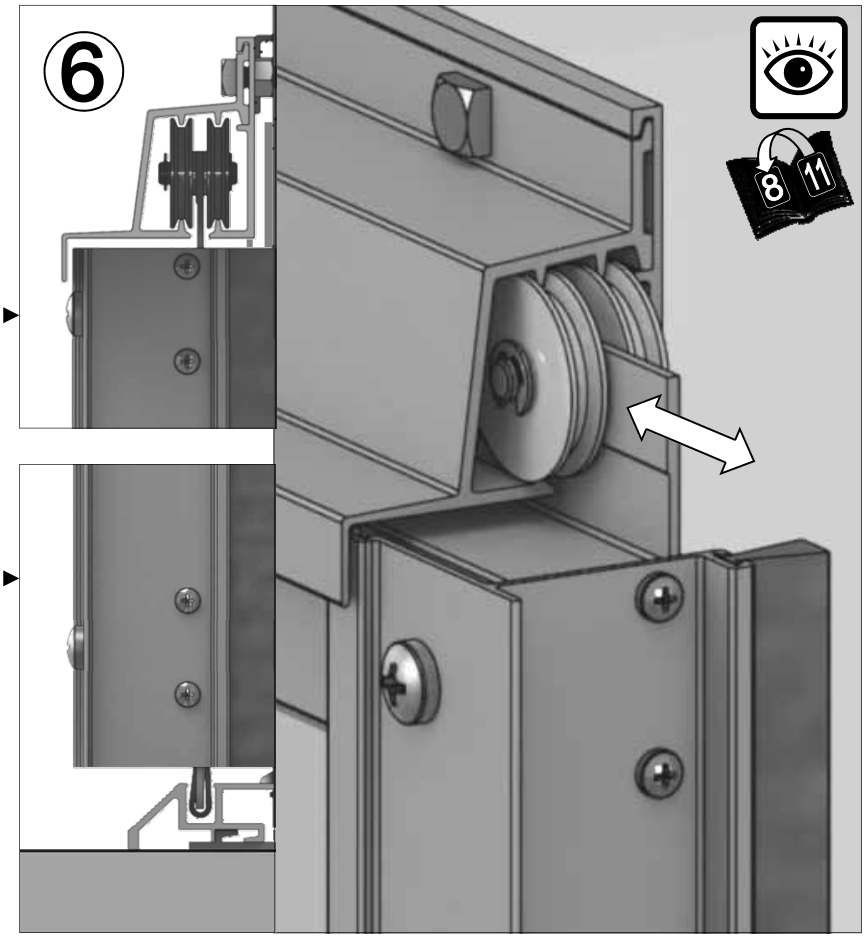




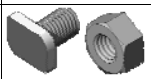


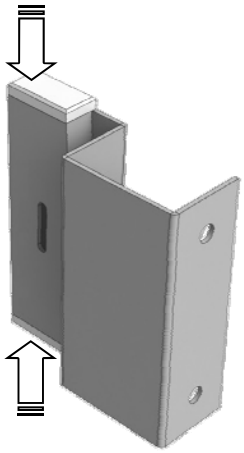
6



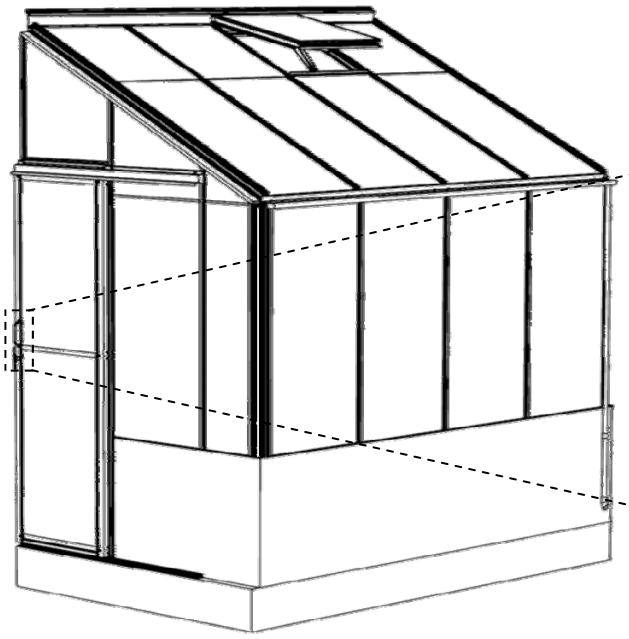


11

Part No		Quantity
D842		1
SYBOLM6 X11CROP		2

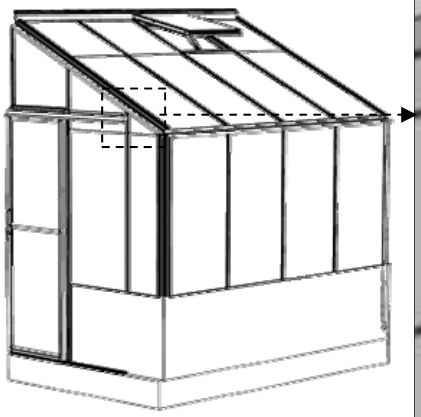


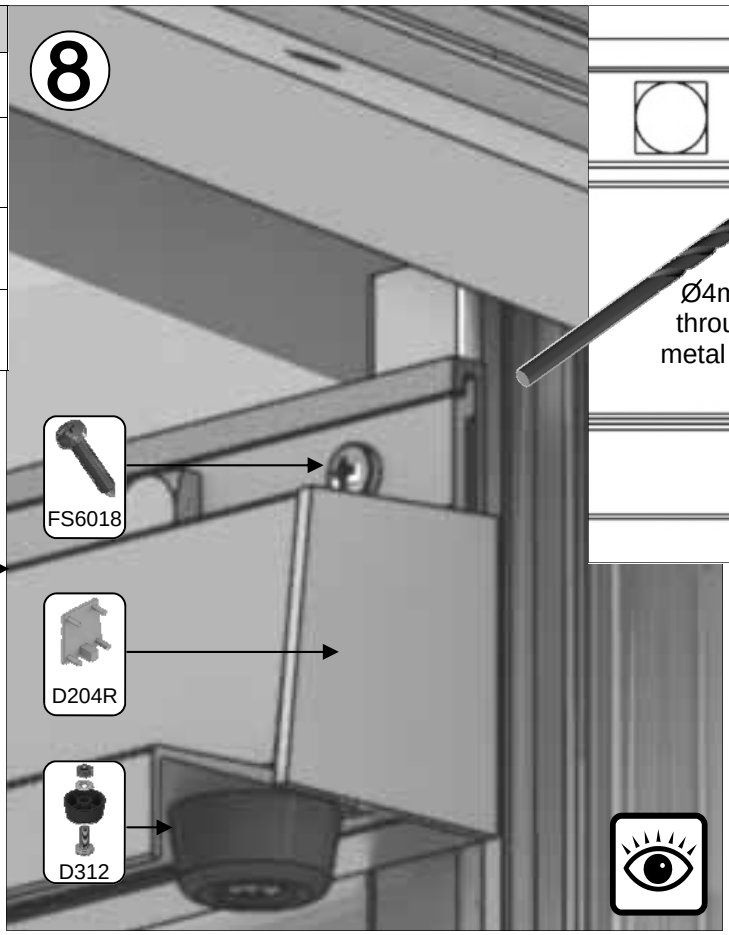
7

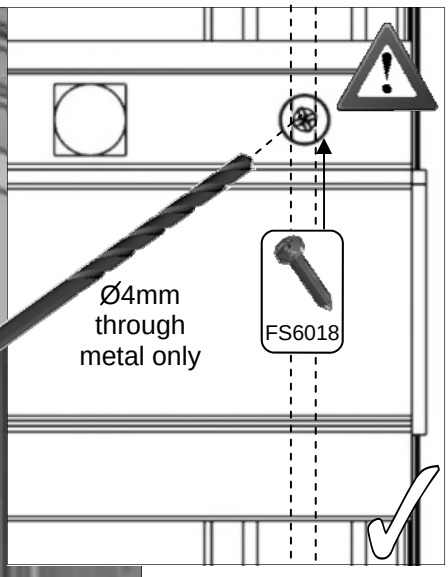


Part No		Quantity
FS6018		1
D312		2
D204L /B		1
D204R /B		1

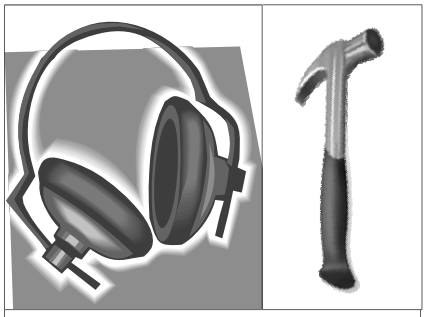
8

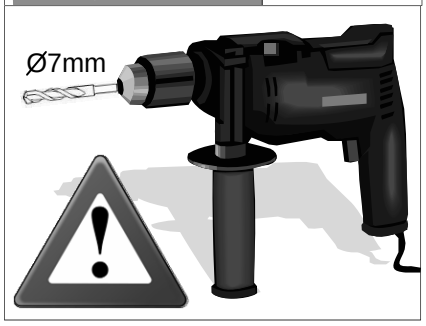


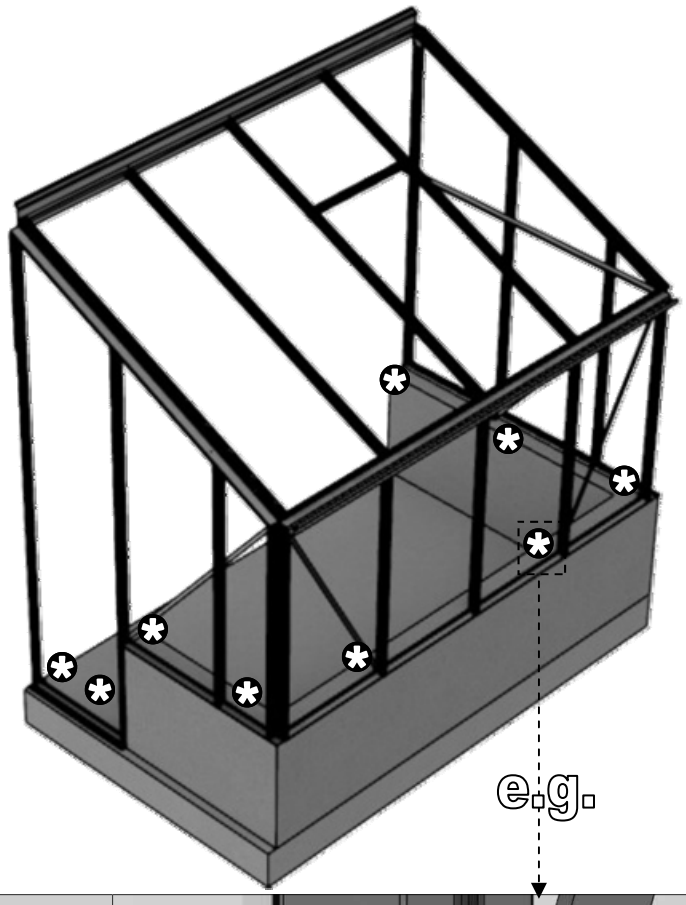


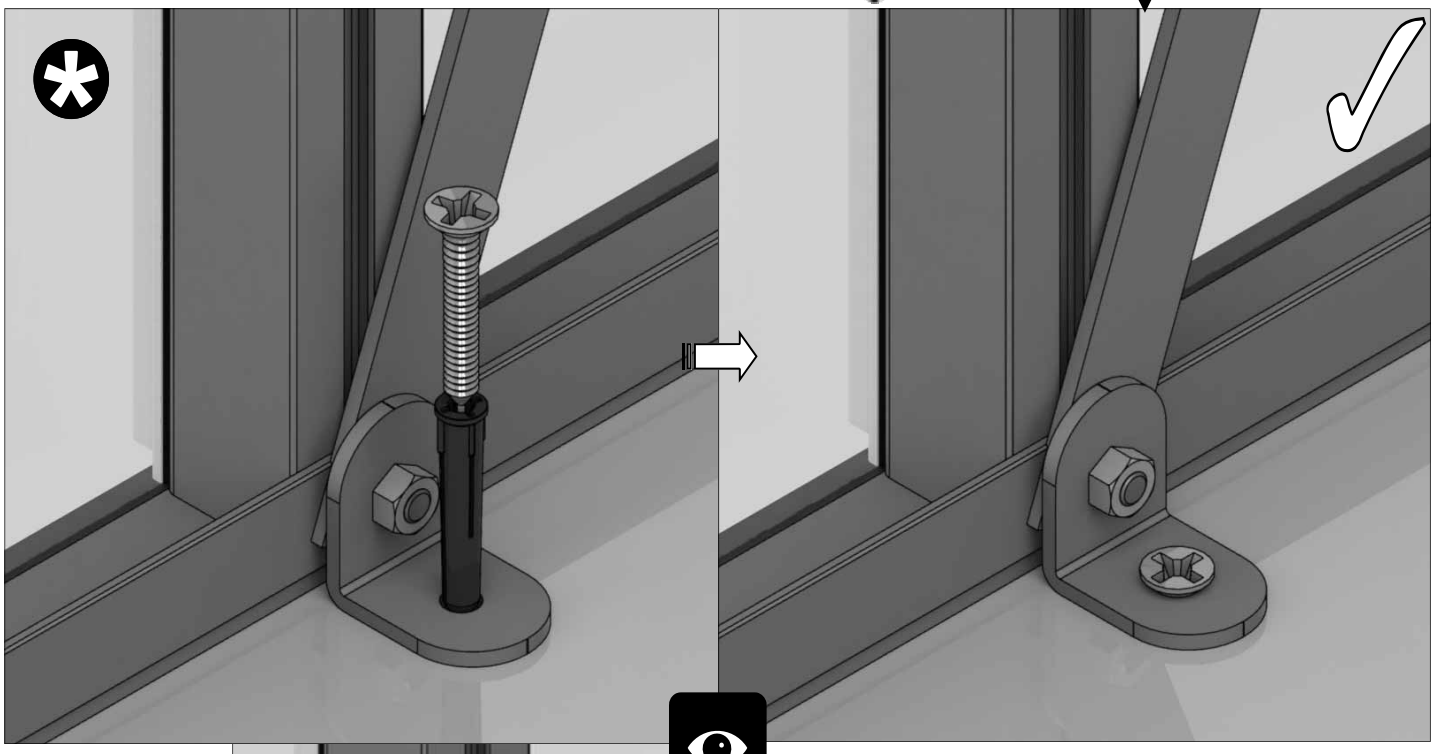


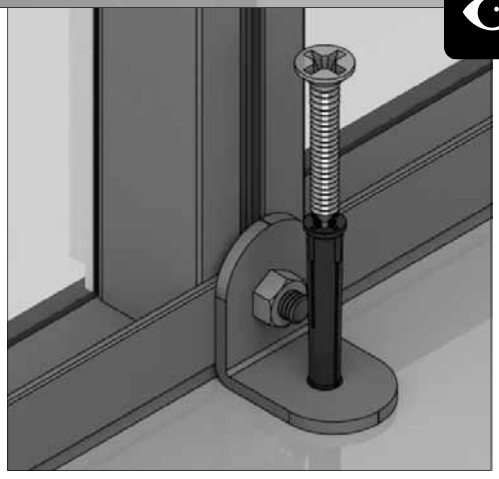
11



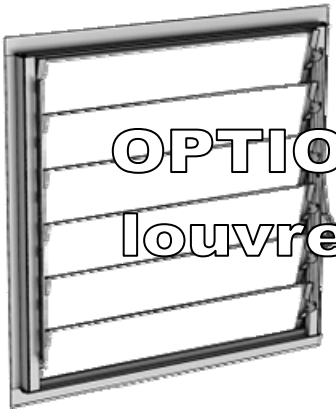


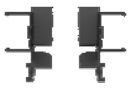


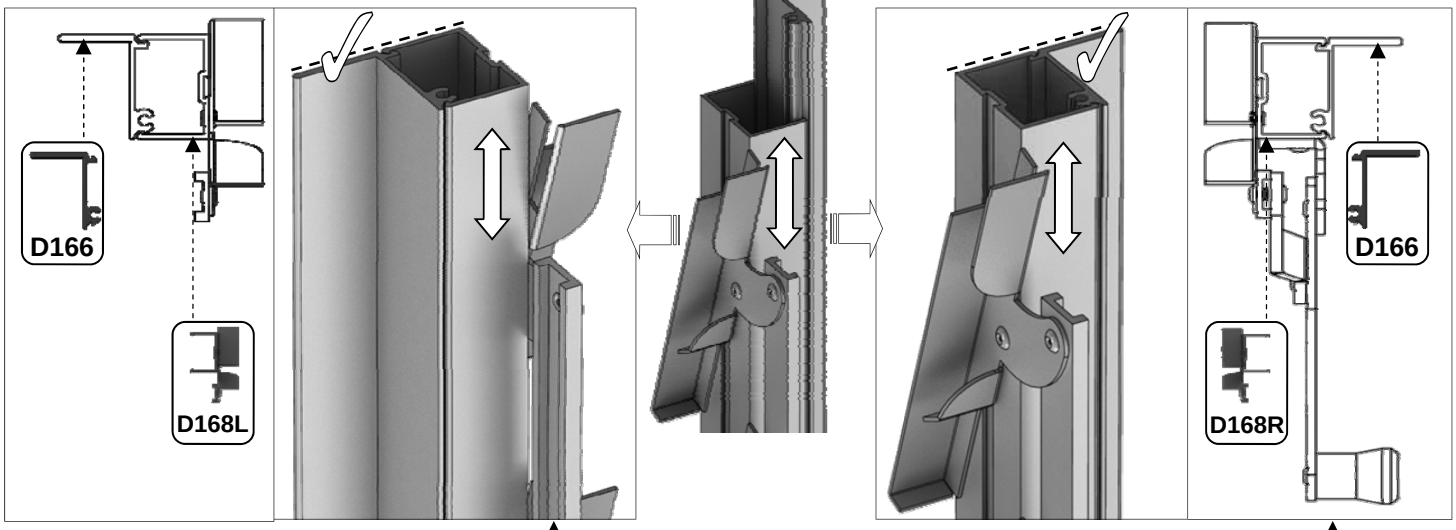


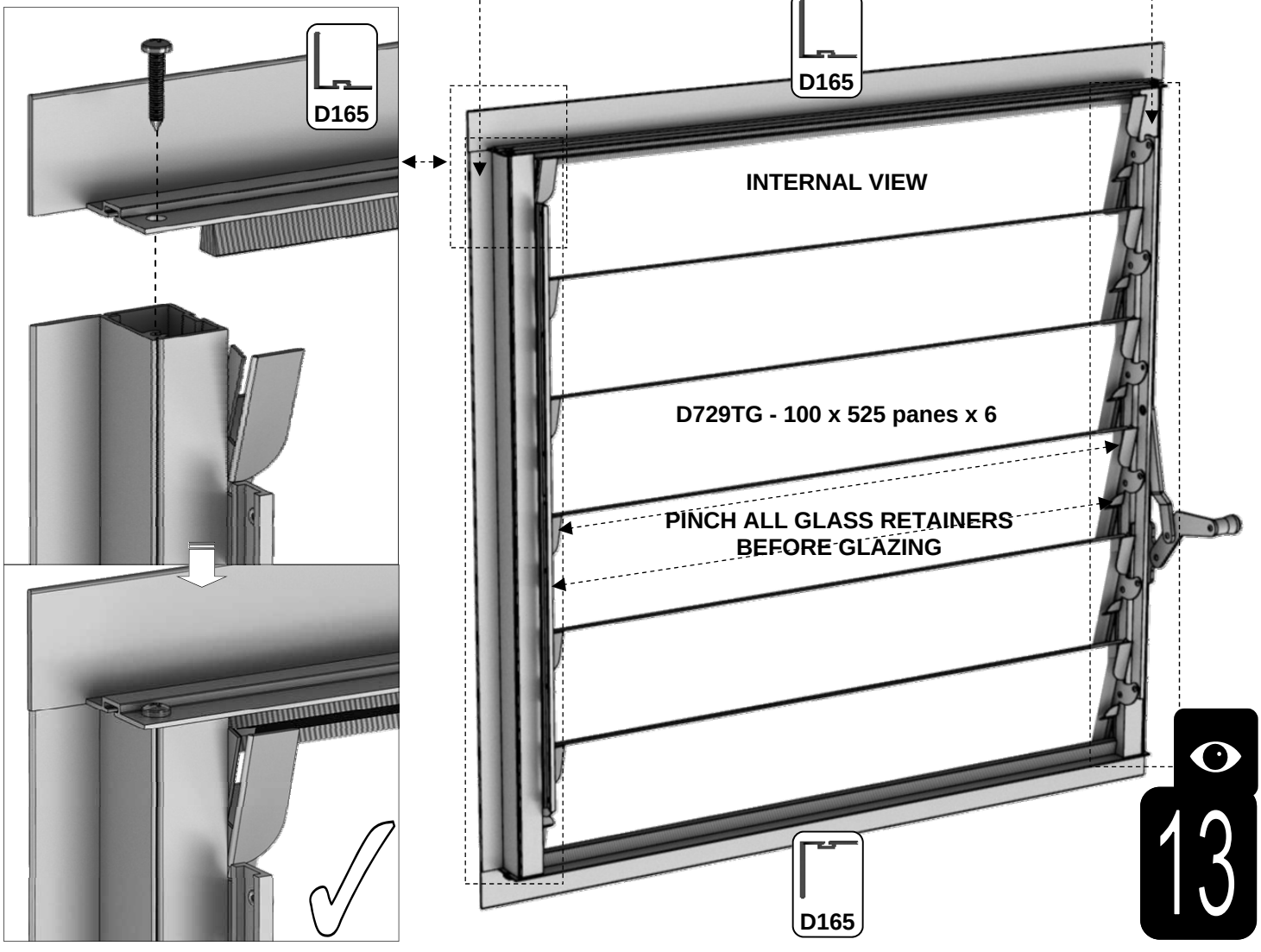


12



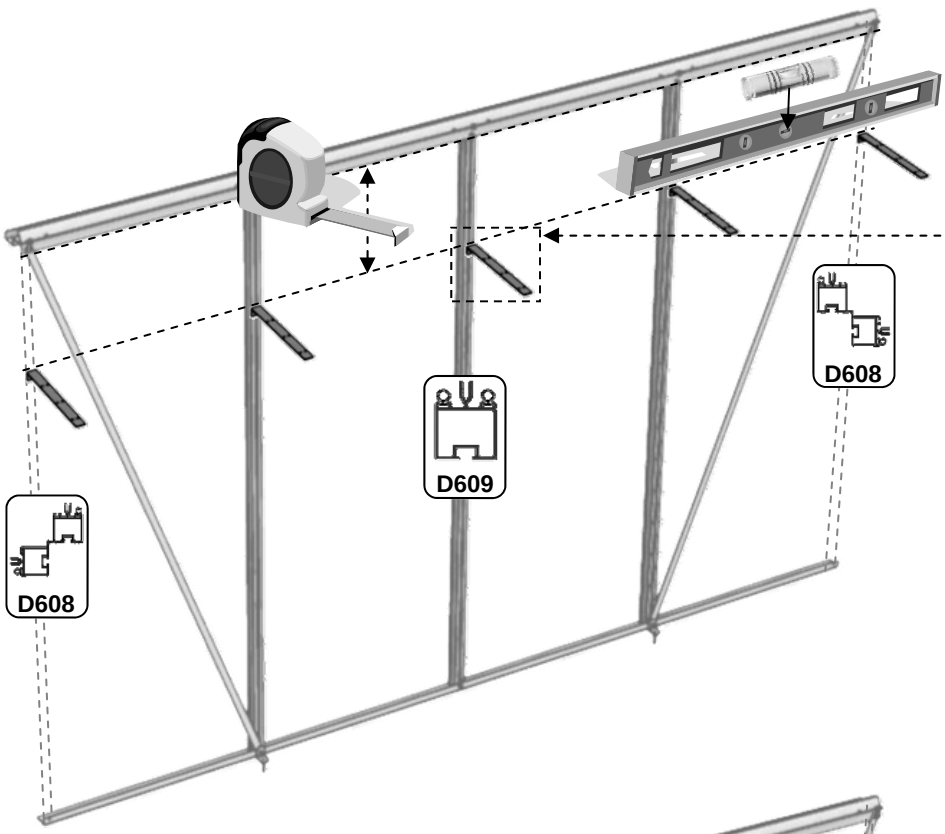
Part No		mm	Quantity
D168L		552	1
D168R (handle)		552	1
D165		612	2
D166		552	2
FS6013		12	4

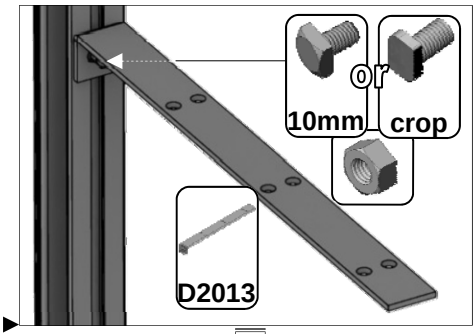


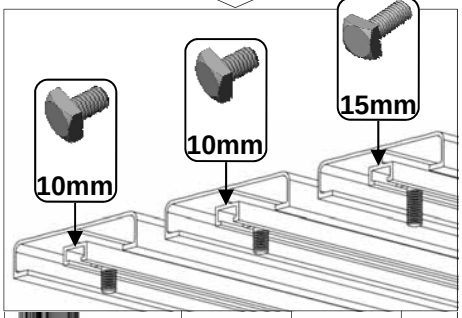


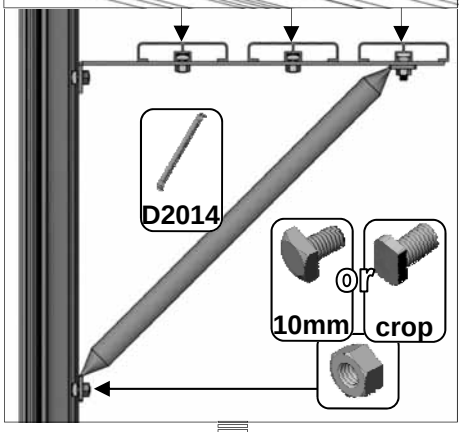
13

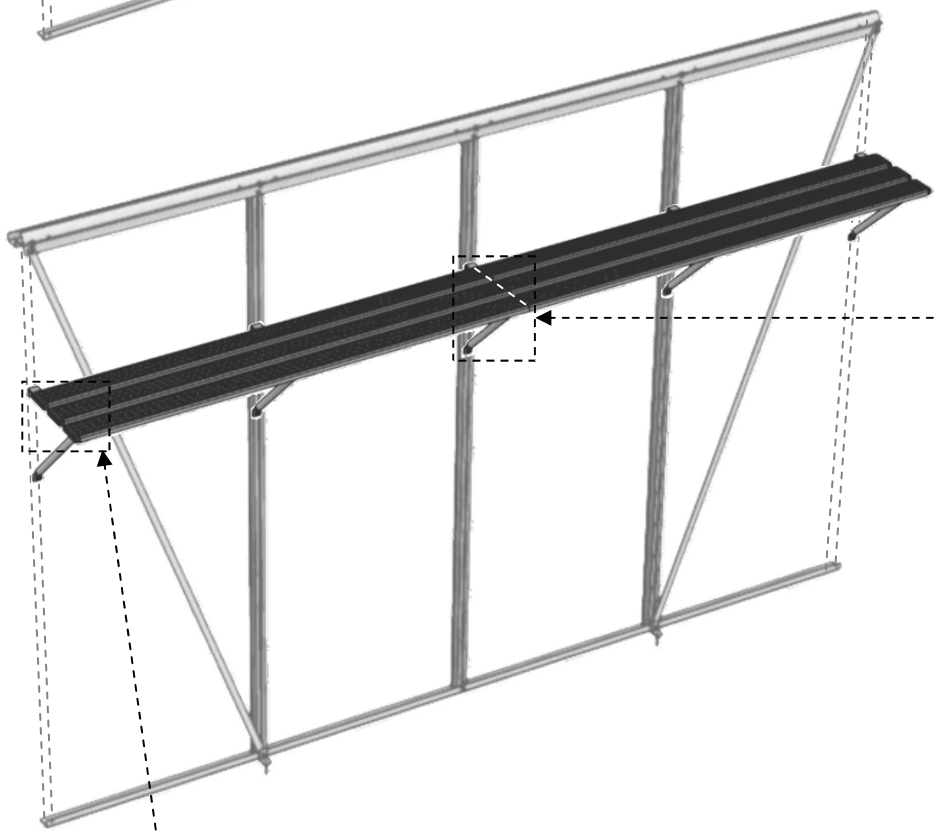
Example: 2x 4' 3 slat shelves 'ST0304' = 8' run

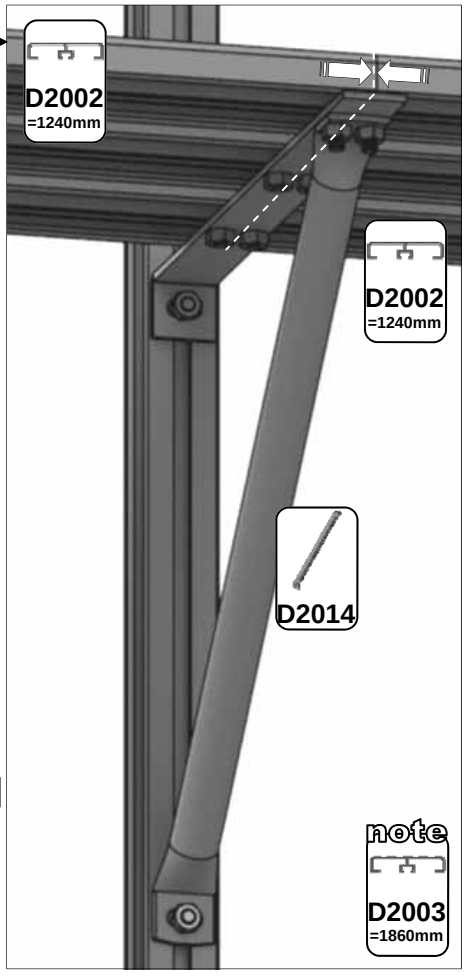


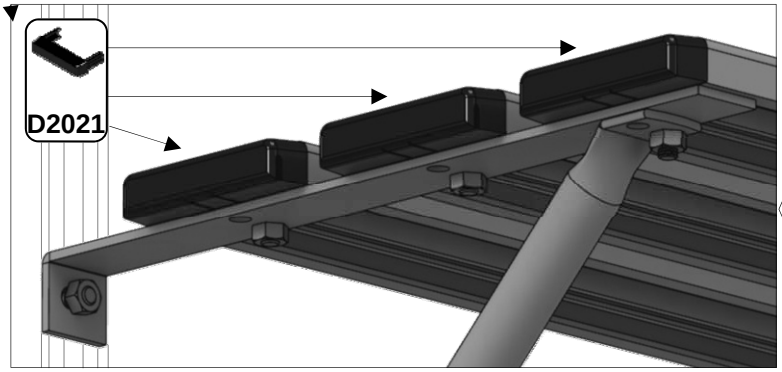






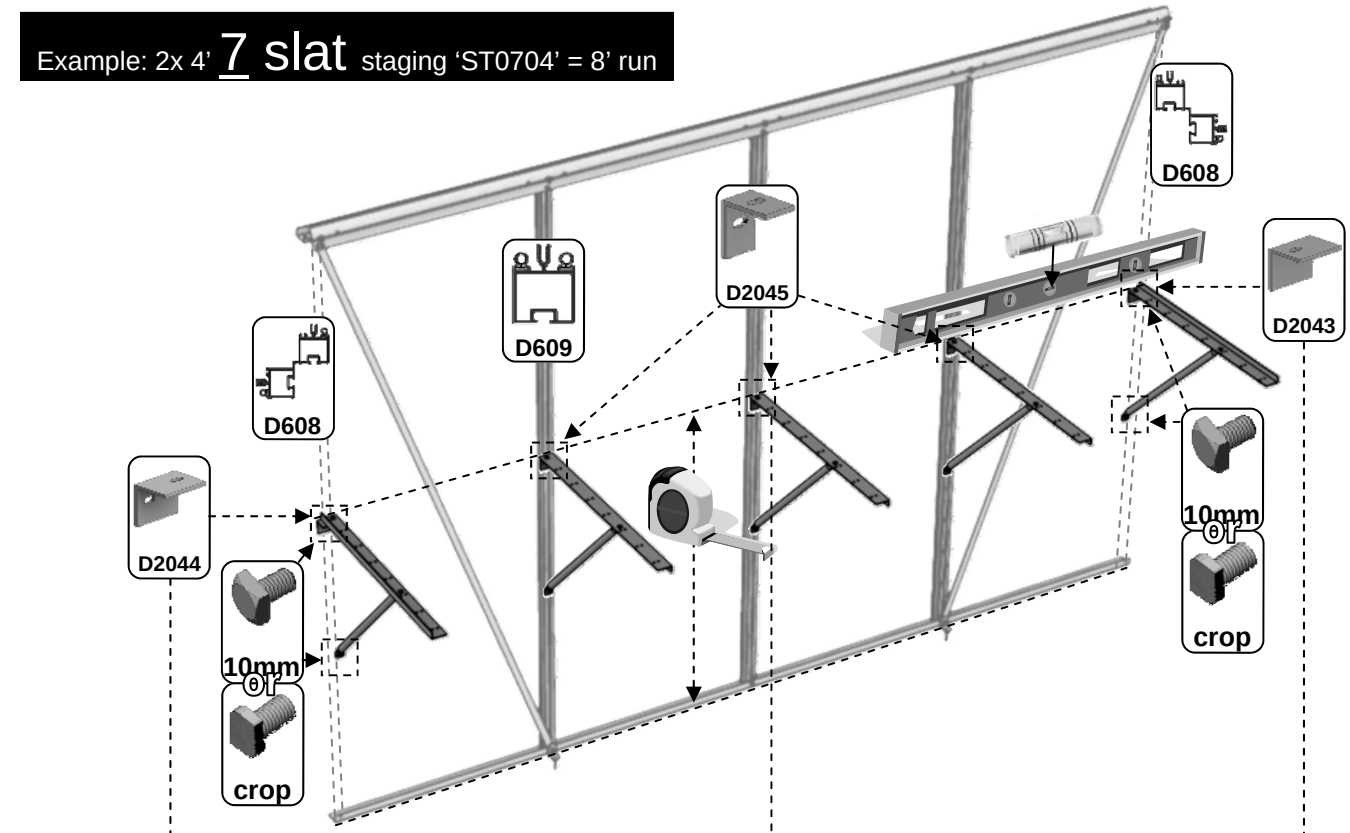


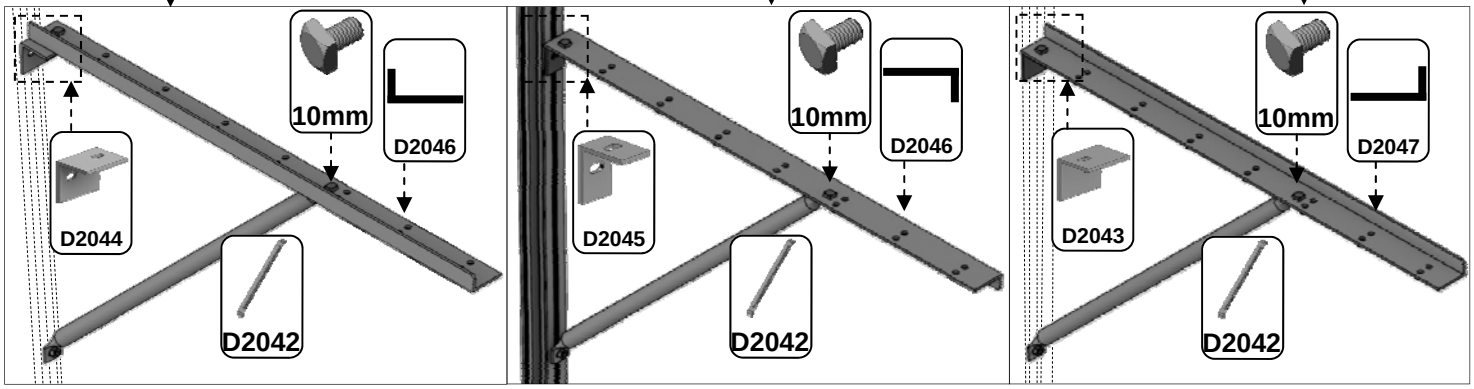


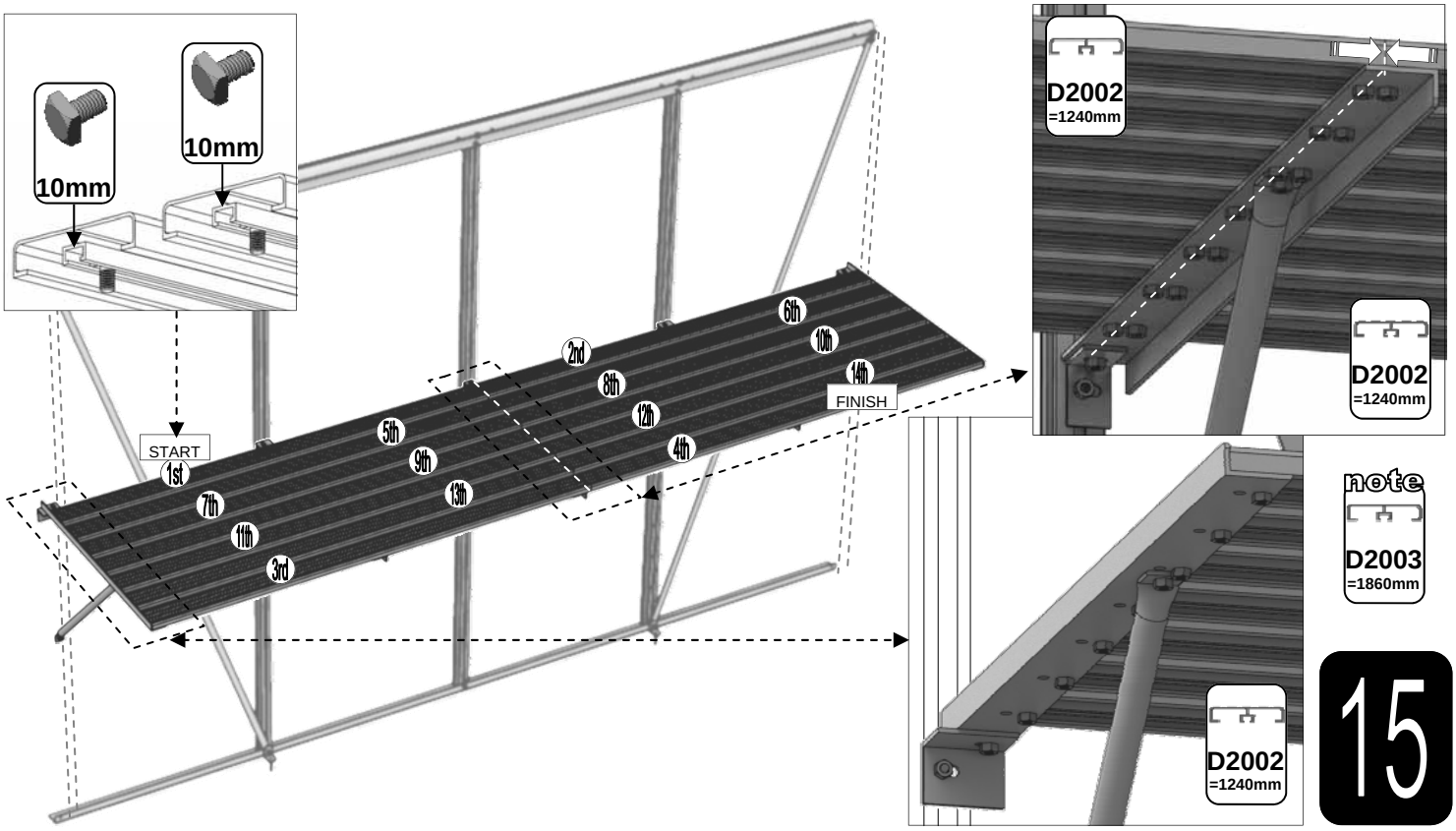


14

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

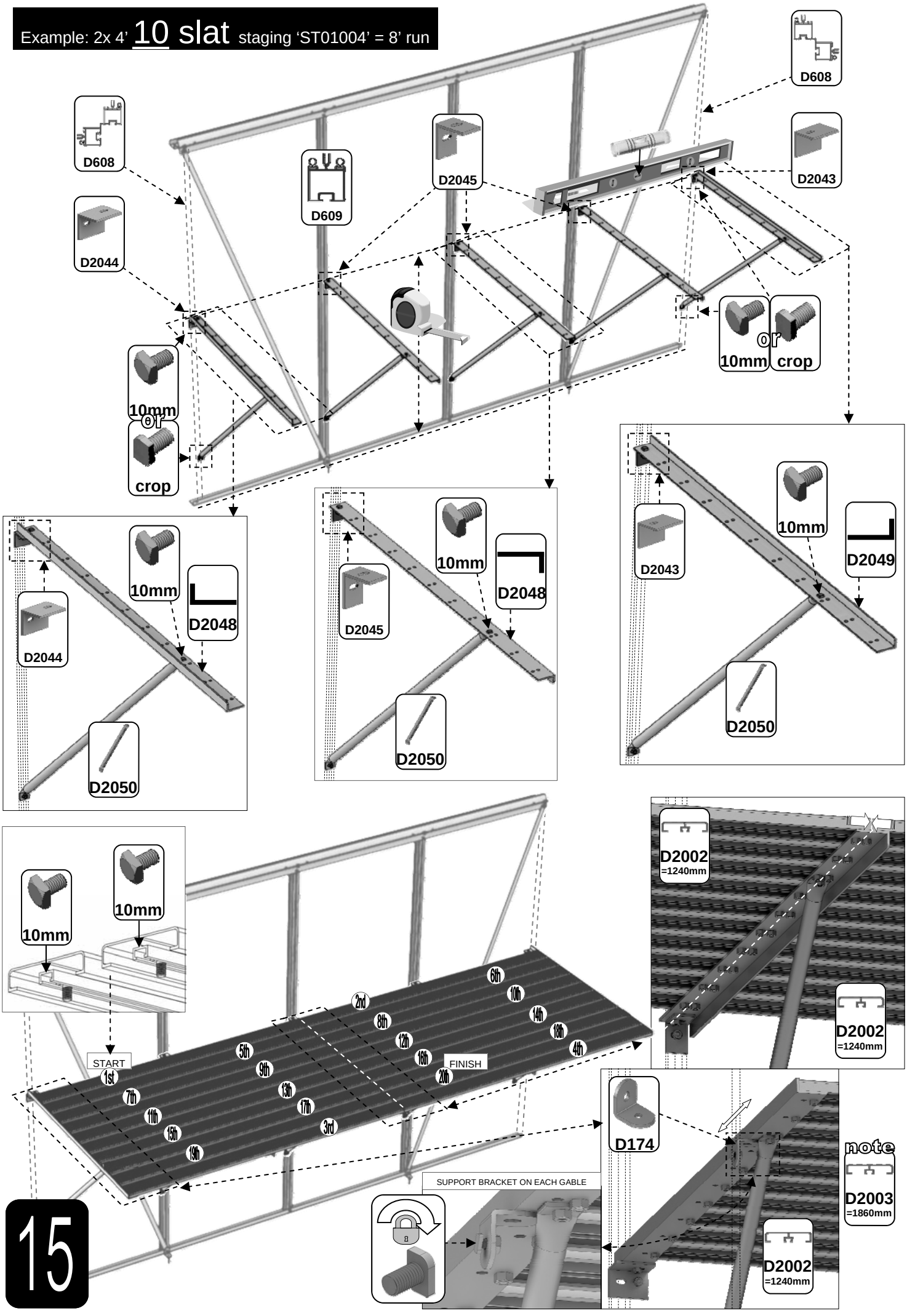




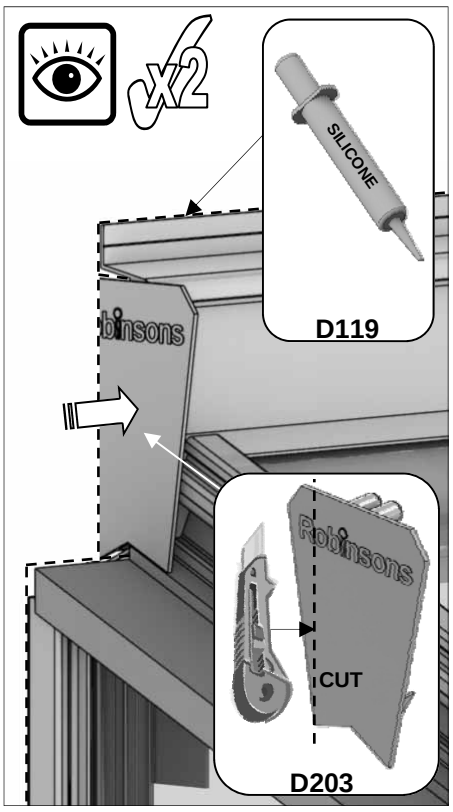


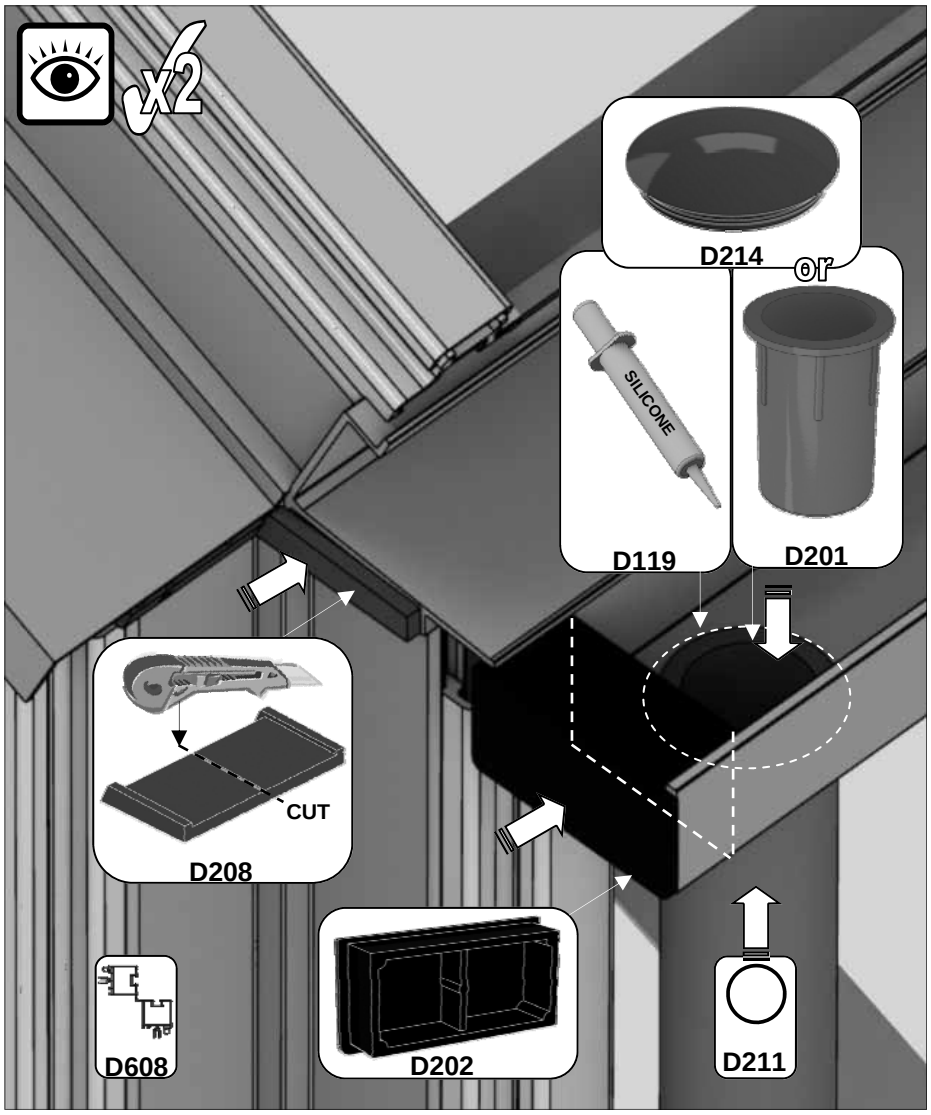
15

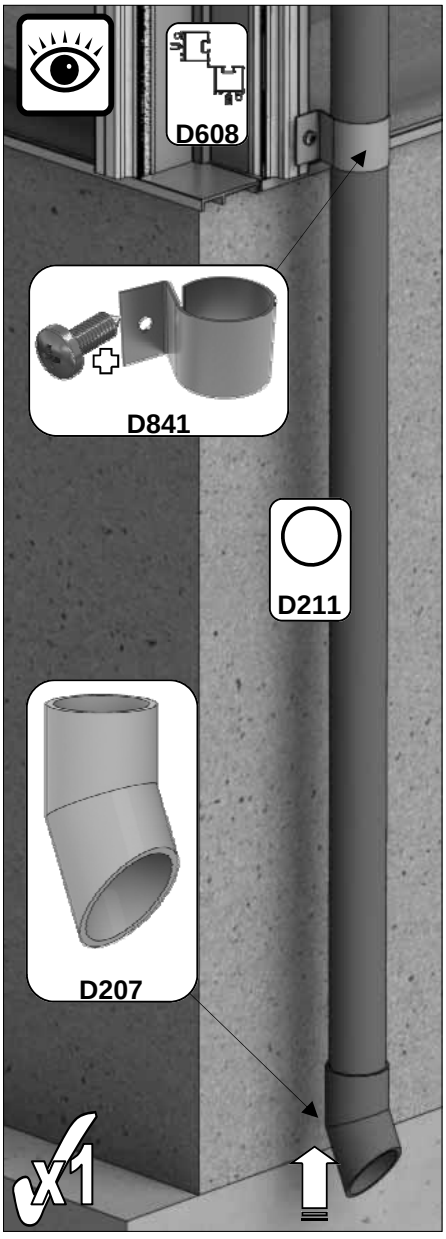
Example: 2x 4' 10 slat staging 'ST01004' = 8' run

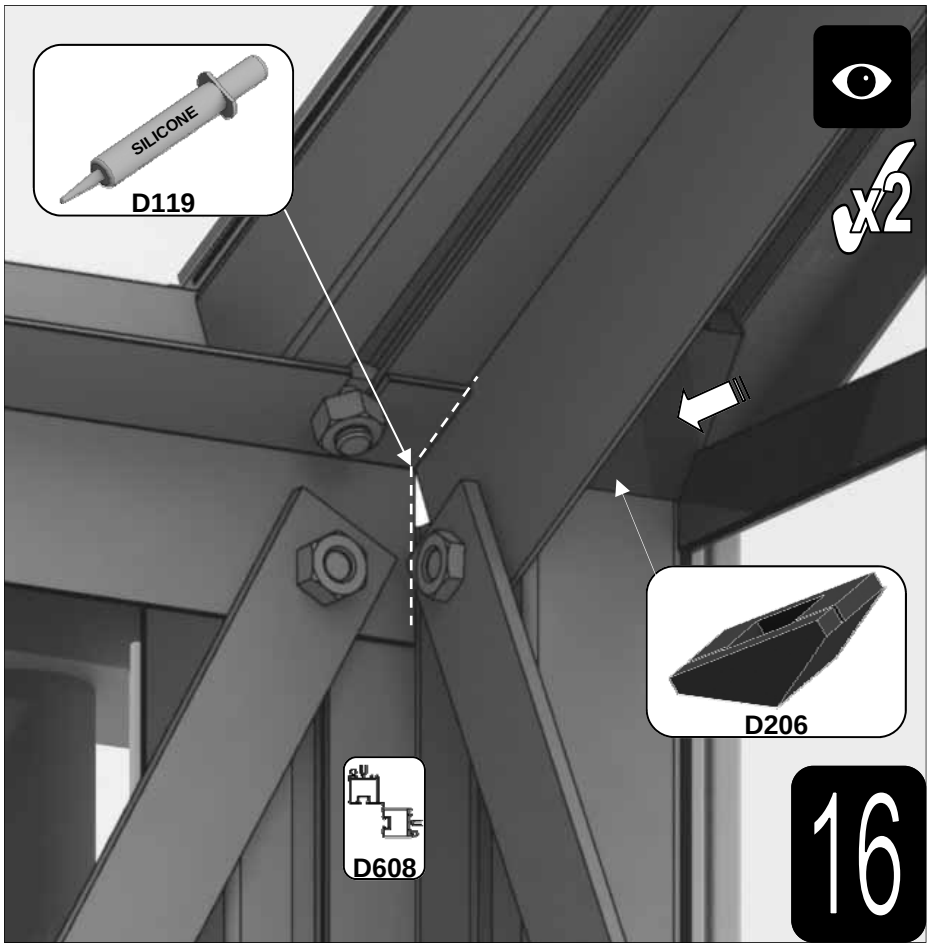


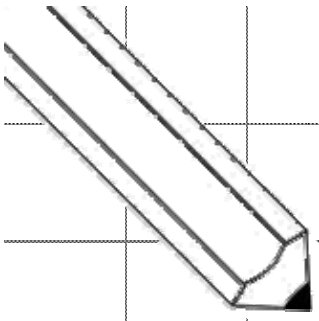
15

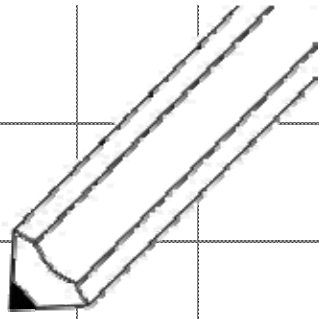

x2
SILICONE
D119
CUT
D203


x2
D214
or
SILICONE
D119
D201
CUT
D208
D608
D202
D211


D608
D841
D211
D207
x1


SILICONE
D119
x2
D206
D608
16





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:_____

_____

Robinsons
ALUMINIUM GREENHOUSES

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