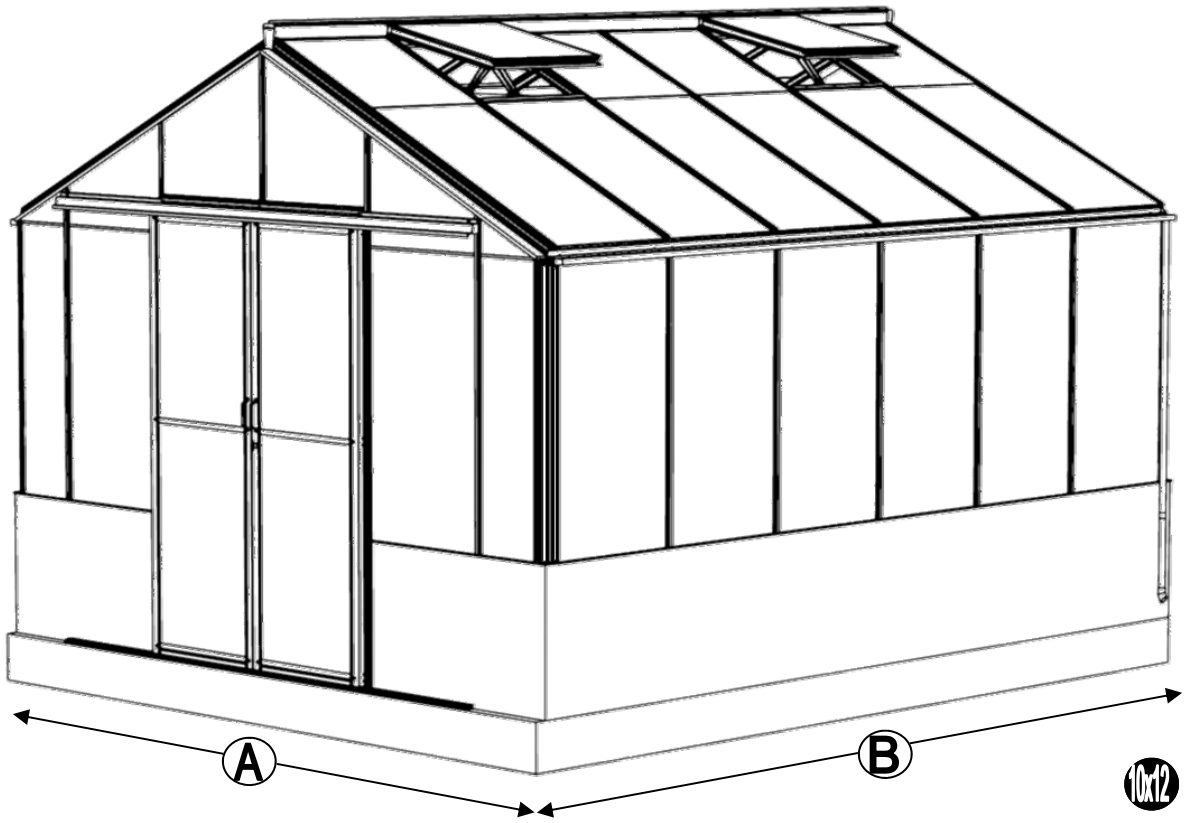
Robinsons
ALUMINIUM GREENHOUSES

Rosette 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

Issue 2.3

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**-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. 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

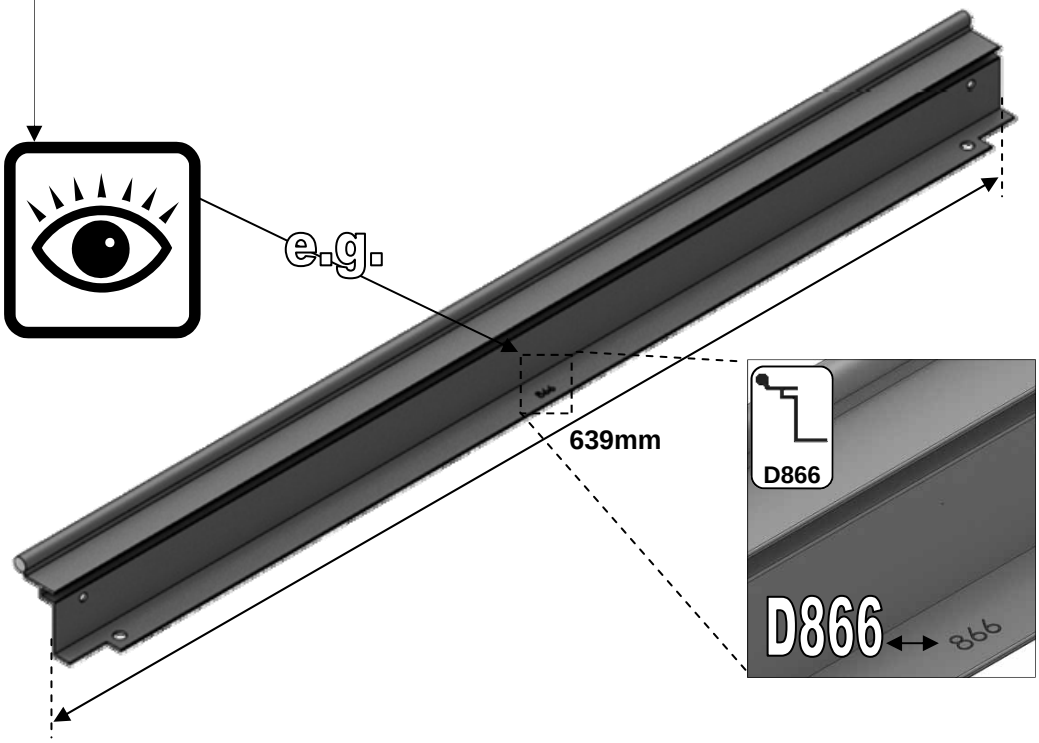
- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- IMPORTANT: Do **not** fix your building down until the building is fully assembled, including glazing.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

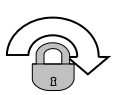
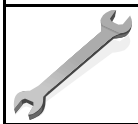
Additional Considerations

- 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

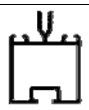
- Your new Robinsons greenhouse is guaranteed for 10 years against faulty manufacture of the framework. This does not include glazing, moving parts, accidental damage or wind damage.

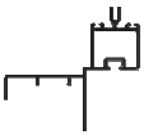


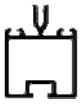
KEY SYMBOL	KEY DESCRIPTION
	**EXTERNAL VIEW**
	**INTERNAL VIEW**
	**THINK**
	**THIS SECTION RELATES TO ANOTHER** (e.g. 1 to 5)
	**CORRECT**
	**DO NOT FIX DOWN!**
	**TWIST TO LOCK**
	**TIGHTEN**
	**PUSH AND HOLD**
	**CUT TO LENGTH**

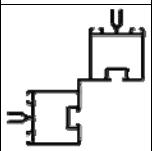
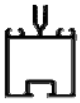
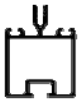
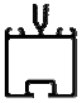
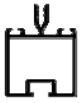
SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
	PARTS LIST	Most components should have a 'D' code punched into their metal surface. Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections 1 - 12 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	SIDES	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 bolt slides 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 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).
3	REAR	
4	JOINING THE FOUR SIDES	Take the two sides (1) 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 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. If you have cresting then it is a good idea to fit it before glazing, see section (15). Some tubular braces are supplied to add extra strength, they can be fitted now or later with crop head bolts.
6a	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.
6b	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).
7	DOOR/S	Construct the door using the diagrams and then leave to one side ready for attachment in section (10).
8	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,
9	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.
10	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.
11	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.
12	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.
13	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...
14	OPTIONAL STAGING	
15	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).

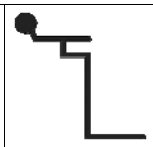
Rosette DWARF

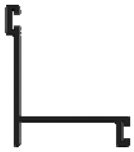
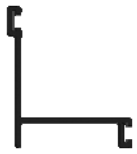
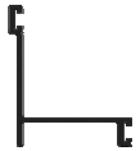
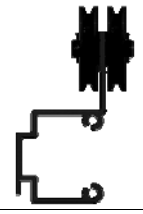
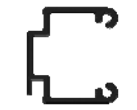
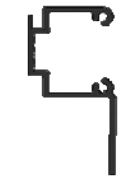
Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
1	D043		1894	2			
	D021		2514		2		
	D022		3134			2	
	D023		3754				2
	D042		1897	2			
	D014		2517		2		
	D015		3137			2	
	D016		3757				2
	D604		1316	4			
	D609		1160	4	6	8	10
	RUBBER		1000 (1m)	10	12	14	17
	D174		N/A	4	4	8	8

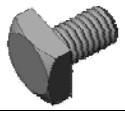
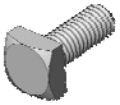
Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
2 + 3	D111		N/A	2			
	D854L		1744	2			
	D854R			2			
	RUBBER		1000 (1m)	47			
	D174		N/A	8			

Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
5	D044		1897	1			
	D001		2517		1		
	D002		3137			1	
	D003		3757				1
	D065		1744	4	6	8	10
	RUBBER		1000 (1m)	14	21	28	35

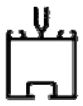
Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
2 + 3	D038/A		3226	1			
	D600		1270	1			
	D668		1004	1			
	D669		1004	1			
	D608		1160	4			
	D655		1906	1			
	D656		1610	2			
	D657		1314	4			
	D670		2210	2			
	D109		3140	1			
	D653		1270	1			
	D626		1497	4			

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

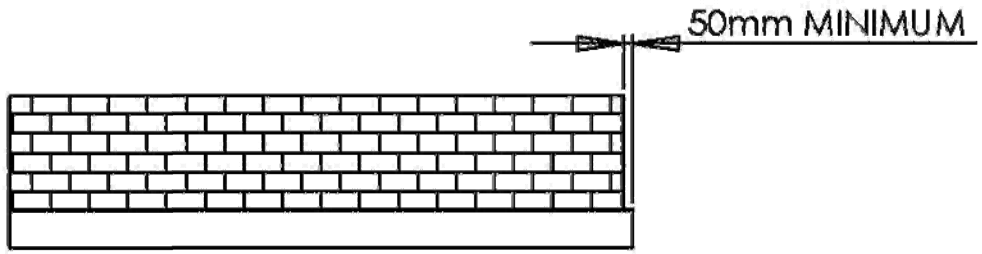
MAIN FRAME QUANTITIES VENTS / DOORS etc SEPERATE						
		10mm	31	37	43	49
		15mm	46	48	50	52
		m6	77	85	93	101

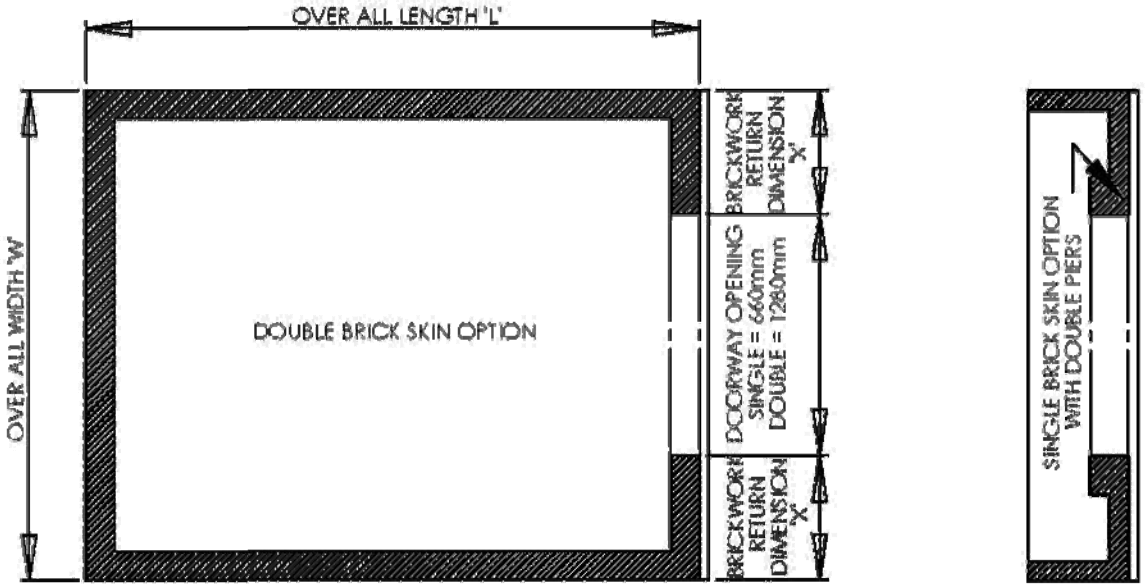
Section Ref	Part No.	Section	Size (mm)	10 6	10 8	10 10	10 12
8	1 D618		1144	4	6	8	10
	2/3 D658		1314	4			
	3 D659		1610	2			
	2 D660		311	2			
	3 D661		1906	1			
	2 D662		600	1			
	5 D870		601	4	6	8	10
	5 D876		1152	4	6	8	10
	2/3 D610		1160	4			
	1 D620		1144	4			
	2 D814		1883	2			
	5 D871		601	4			
	5 D877		1152	4			
	2/3 D614		1162	4			
	1 D619		1144	8	10	12	14
	2/3 D663		1316	4			
	3 D664		1610	2			
	3 D665		1908	1			
	2 D666		602	1			
	2 D667		313	2			
	5 D811		1754	8	10	12	14
	2 D836		1883	2			

10	D671		610	1
	D865		1210	1
	D861		2450	1
	D088		1207	1
	D086		2510	1
	D085		2510	1
	D627		114	2
	D163		90	2
	D150		N/A	1
	D154		N/A	2

Rosette DWARF

THIS PLAN APPLIES TO GREENHOUSES WITH DOORS AT ONE END ONLY.





GREENHOUSE TYPE	OVER ALL WIDTH 'W'	BRICKWORK RETURN DIMENSION 'X'
REGENT (6 WIDTH)	1960mm	650mm
ROYALE (8 WIDTH)	2580mm	650mm
ROSETTE (10 WIDTH)	3210mm	965mm
REGAL (12 WIDTH)	3820mm	1270mm
RENOWN (14 WIDTH)	4450mm	1585mm

OVER ALL LENGTH 'L' = BASIC GREENHOUSE LENGTH + EXTENSION IF REQUIRED			
BASIC GREENHOUSE	LENGTH	GREENHOUSE EXTENSION	LENGTH
6 LONG	1990mm	6ft EXT LONG	1860mm
8 LONG	2610mm	8ft EXT LONG	2480mm
10 LONG	3230mm	10ft EXT LONG	3100mm
12 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.

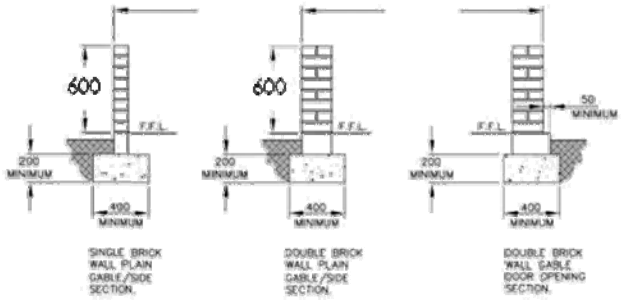
GABLE DOOR OPENING

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.

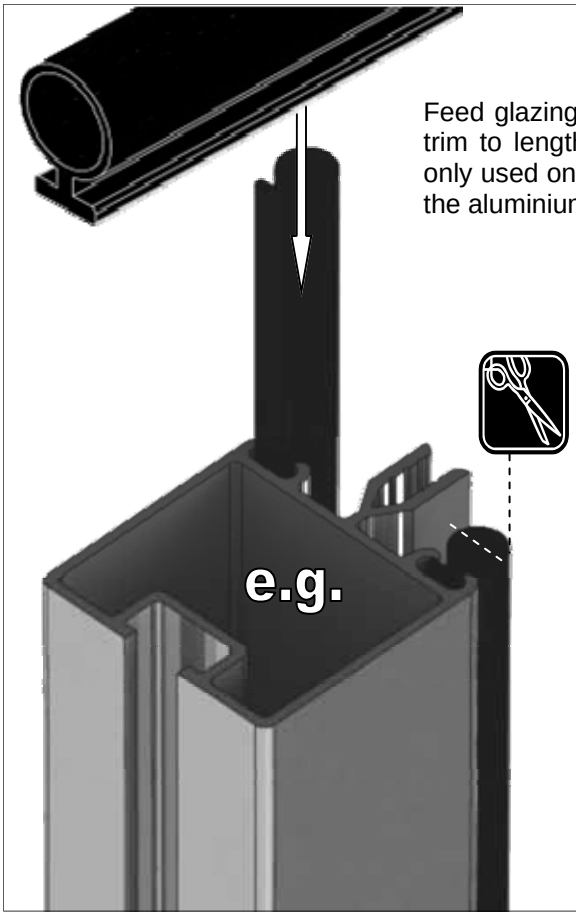
IF SINGLE SKIN WALLS ARE USED THEN PIERS SHOULD BE FORMED AT THE DOOR OPENING

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.

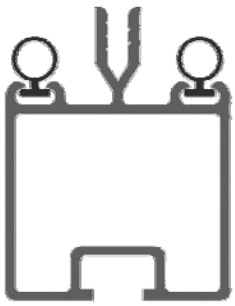


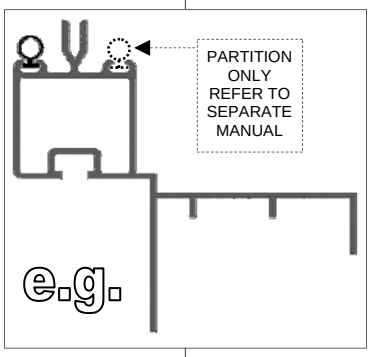
TITLE:

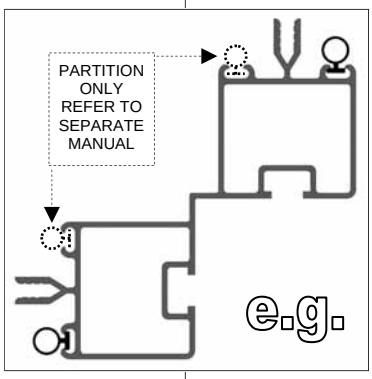
GREENHOUSE DWARF WALL PLAN

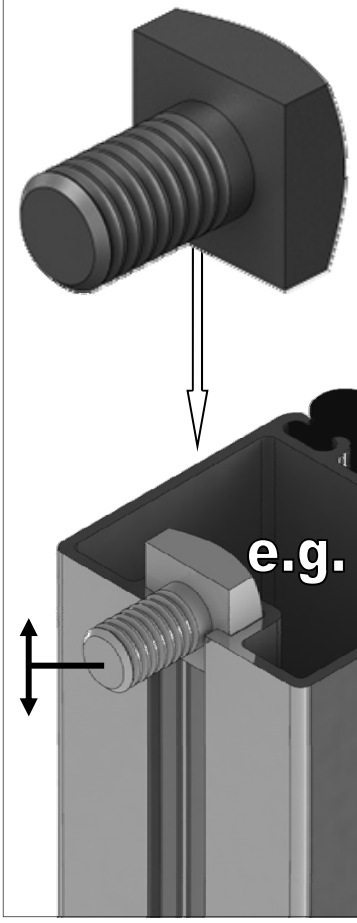


Feed glazing rubber into each glazing bar and trim to length. Notice that some channels are only used on a partition. Applying a lubricant to the aluminium channels will speed up insertion.

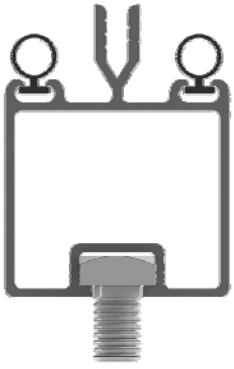


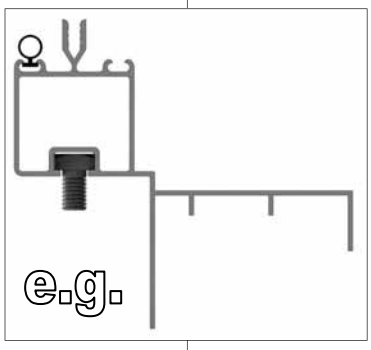


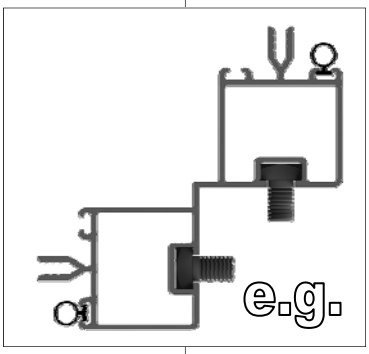


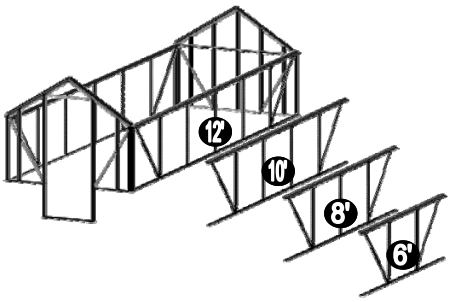


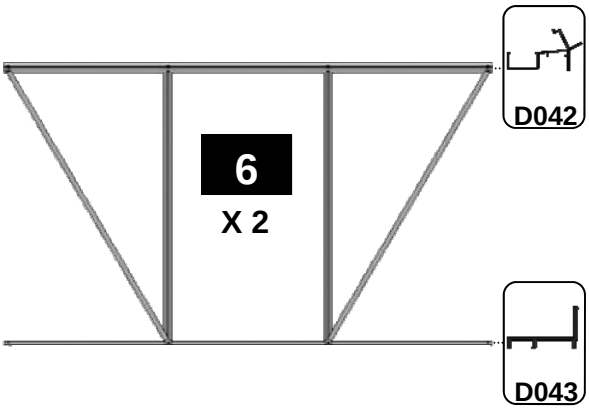
The frame is assembled by feeding square headed bolts, either 10mm or 15mm in length into the slots on glazing bars and then locating those bolts through holes in purlings and cills, etc… Twist in (rectangular) crop headed bolts are also used towards the end of construction to attach components to the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





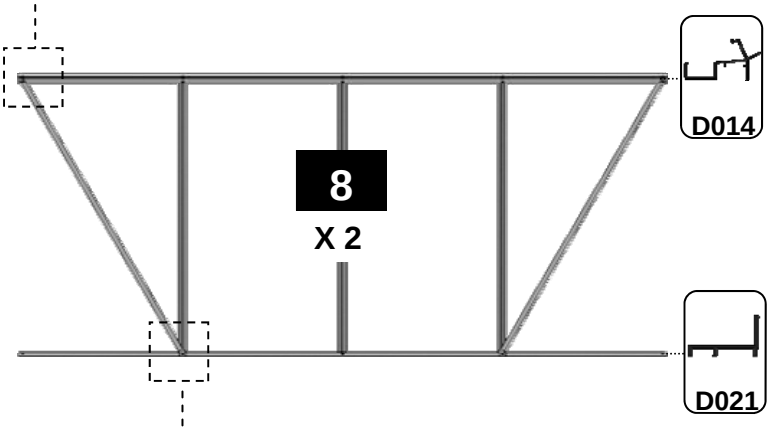






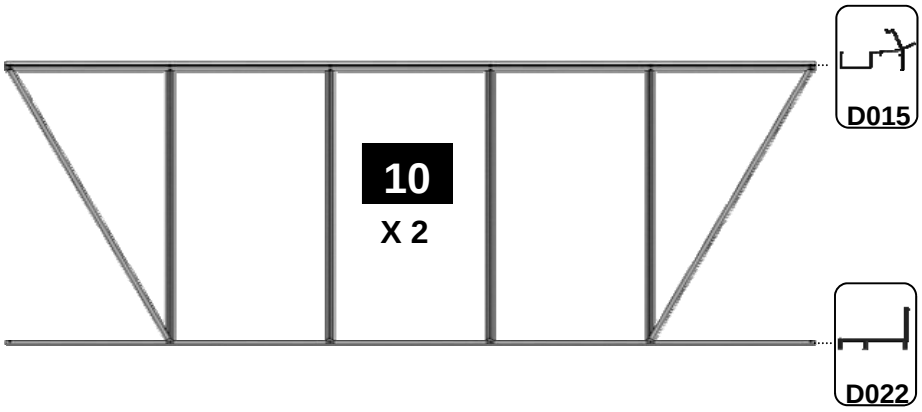
6 X 2 DWARF		
Part No	mm	Quantity
D042	1897	2
D043	1894	2
D609	1160	4
D604	1316	4
D174		4
M6-10mm		4
M6-15mm		8
M6-NUT		12
Rubber	1000	10

e.g.1

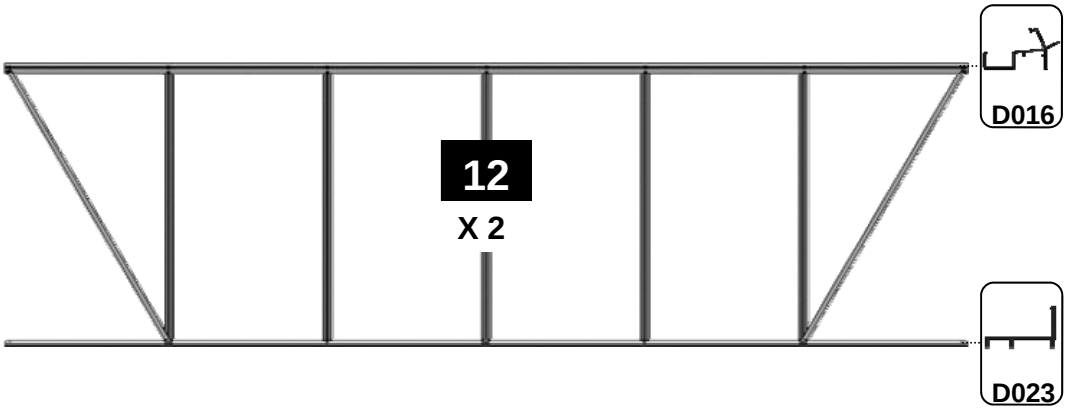


8 X 2 DWARF		
Part No	mm	Quantity
D014	2517	2
D021	2514	2
D609	1160	6
D604	1316	4
D174		4
M6-10mm		6
M6-15mm		10
M6-NUT		16
Rubber	1000	14

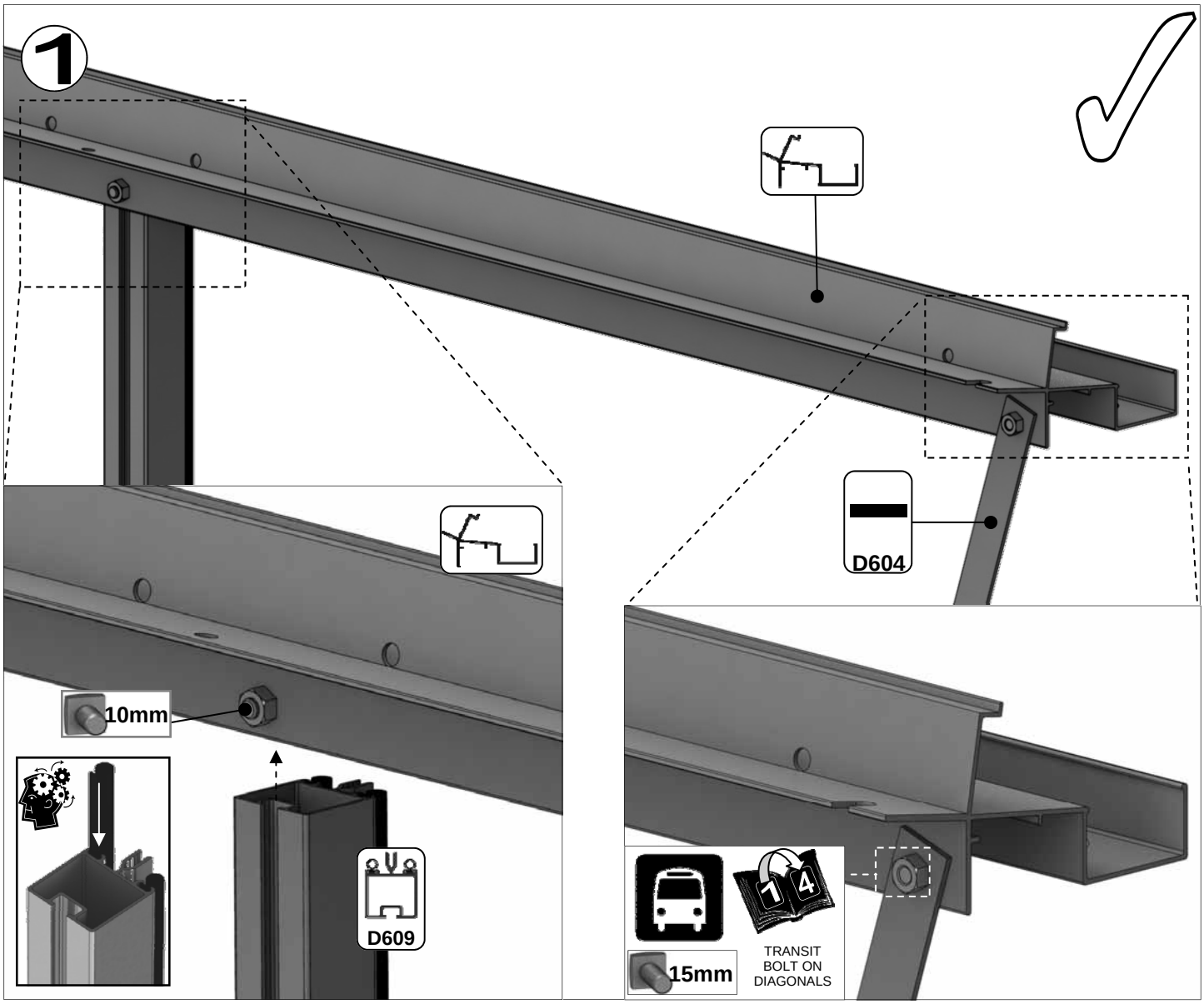
e.g.2

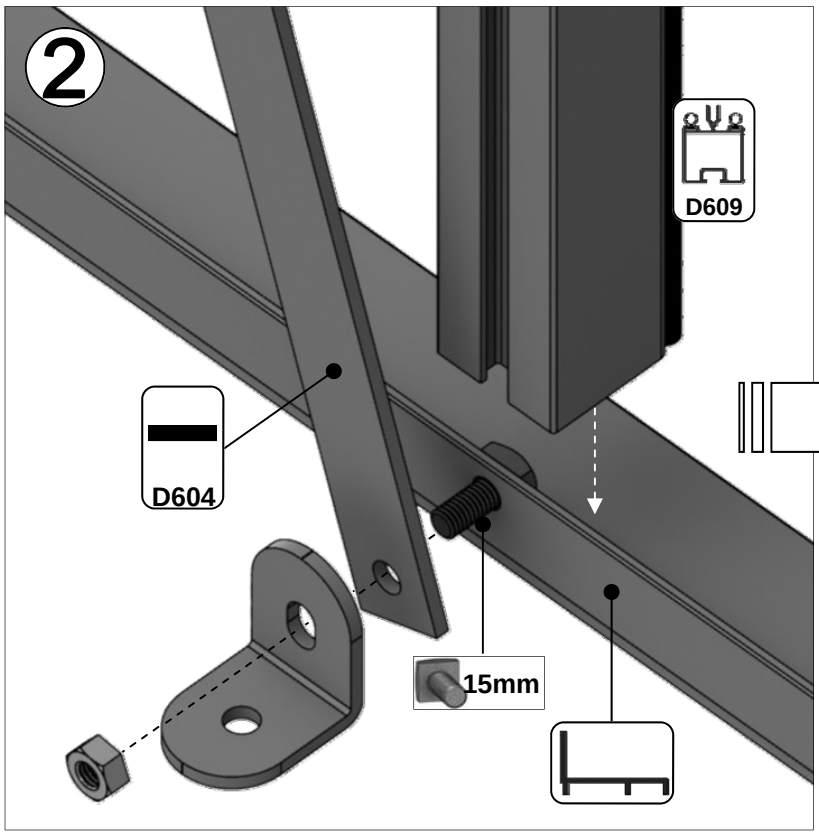


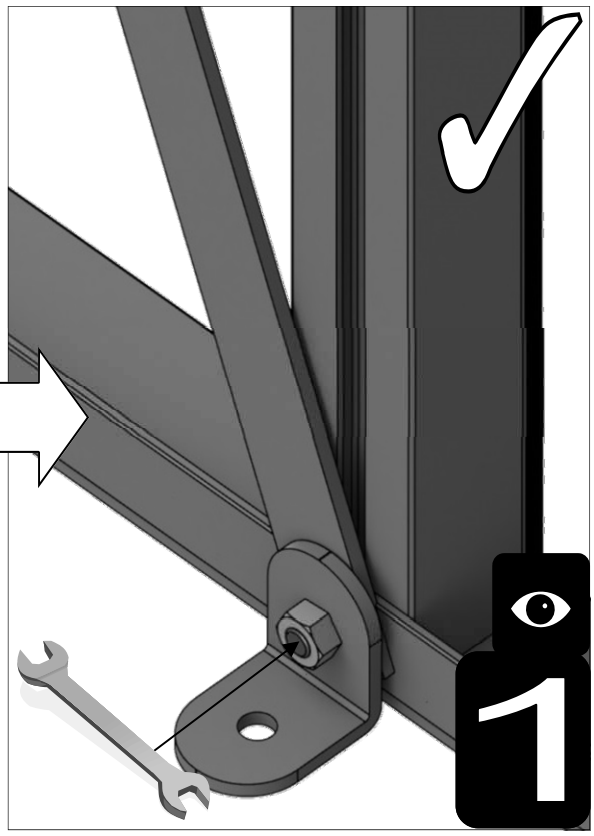
10 X 2 DWARF		
Part No	mm	Quantity
D015	3137	2
D022	3134	2
D609	1160	8
D604	1316	4
D174		8
M6-10mm		8
M6-15mm		12
M6-NUT		20
Rubber	1000	19

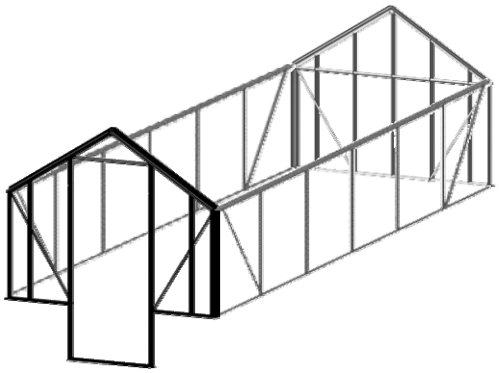


12 X 2 DWARF		
Part No	mm	Quantity
D016	3757	2
D023	3754	2
D609	1160	10
D604	1316	4
D174		8
M6-10mm		10
M6-15mm		14
M6-NUT		24
Rubber	1000	24


1
D604
10mm
D609
15mm
TRANSIT
BOLT ON
DIAGONALS

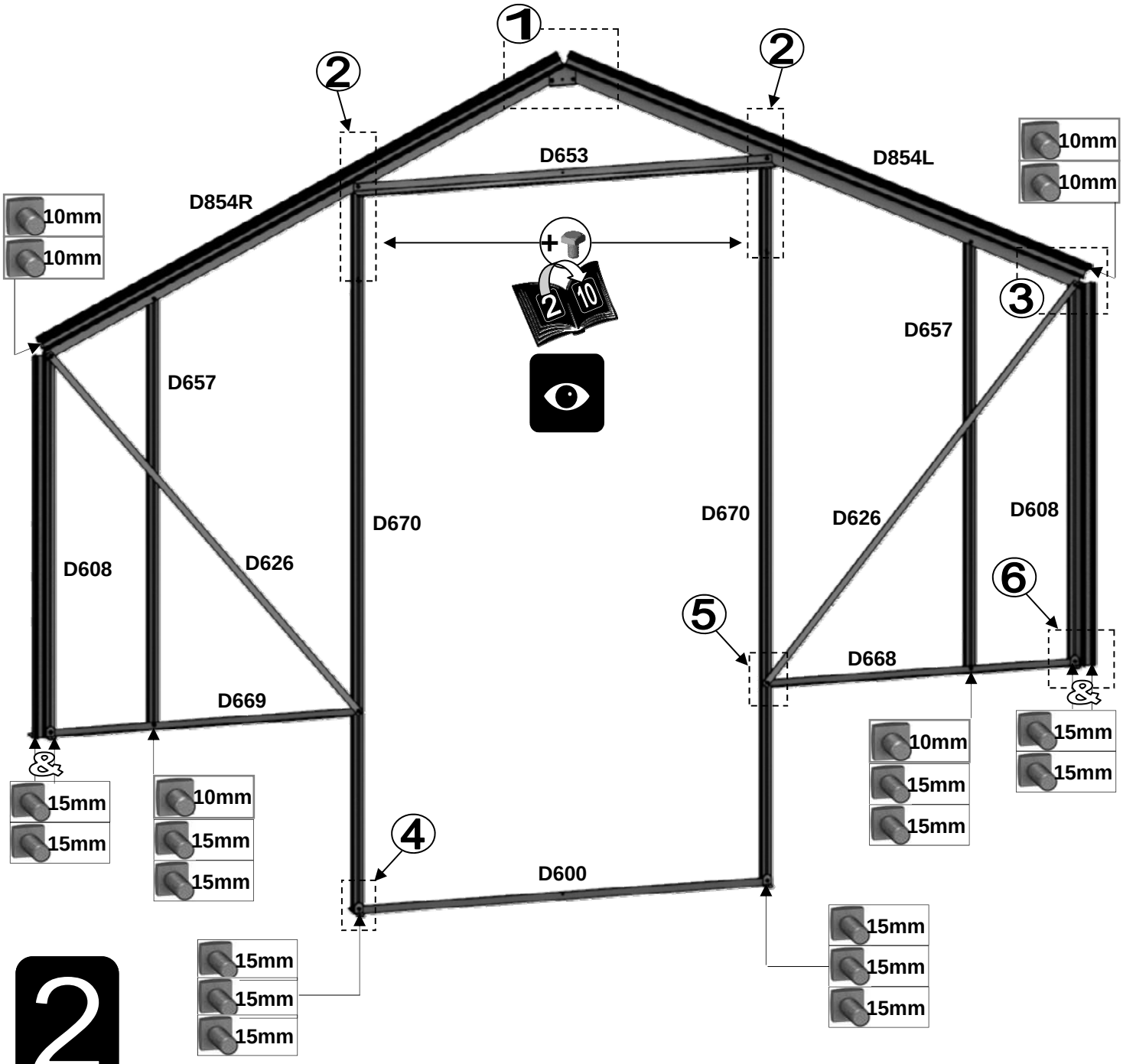

2
D609
D604
15mm

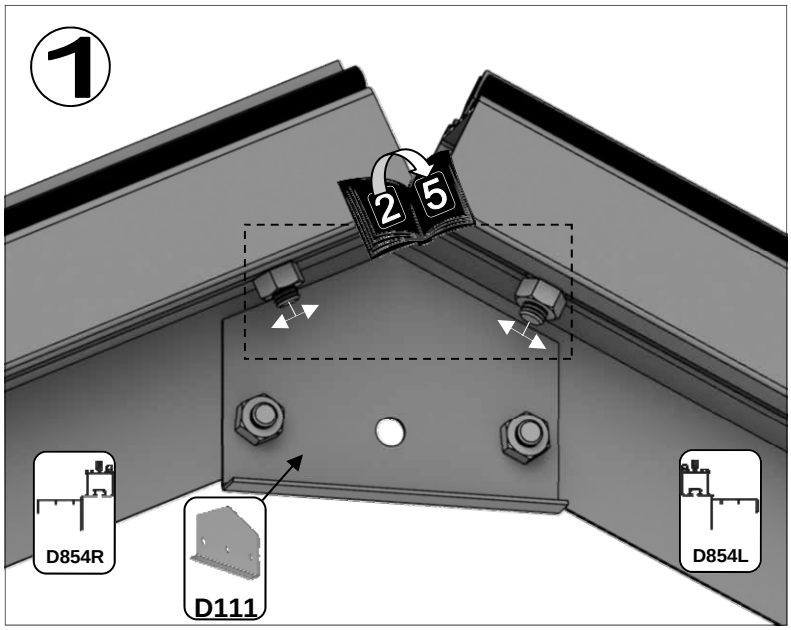

1

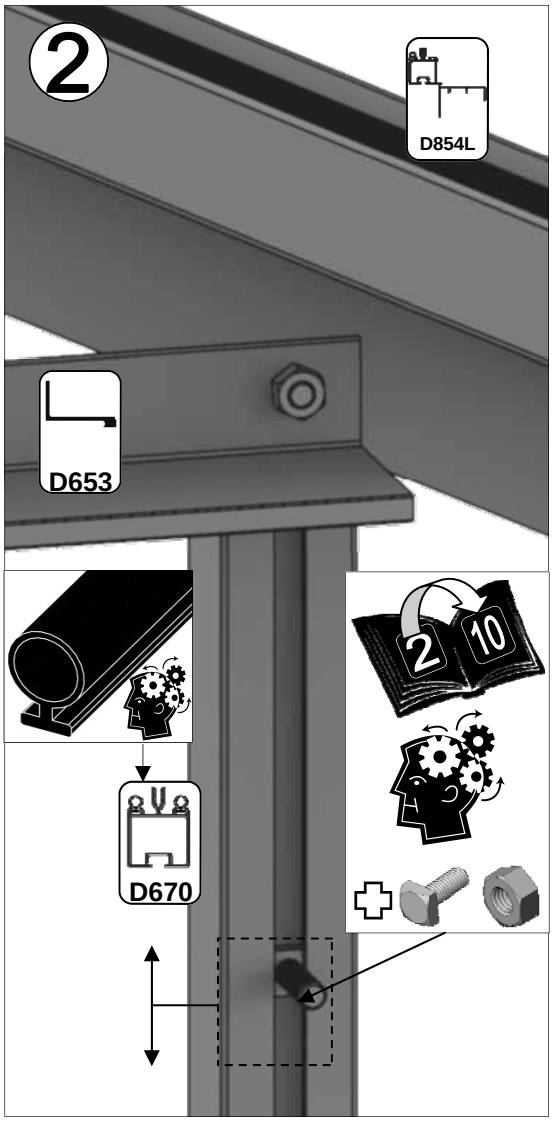


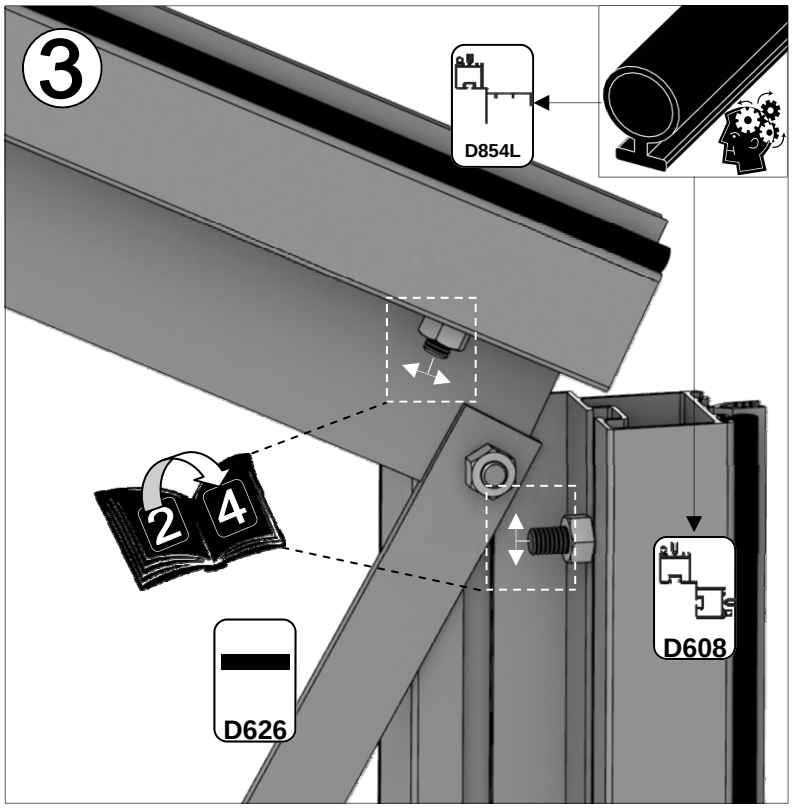
Part No	mm	Quantity
D600	1270	1
D608	1160	2
D626	1497	2
D653	1270	1
D657	1314	2
D668	1004	1
D669	1004	1
D670	2210	2
D854L	1744	1
D854R	1744	1

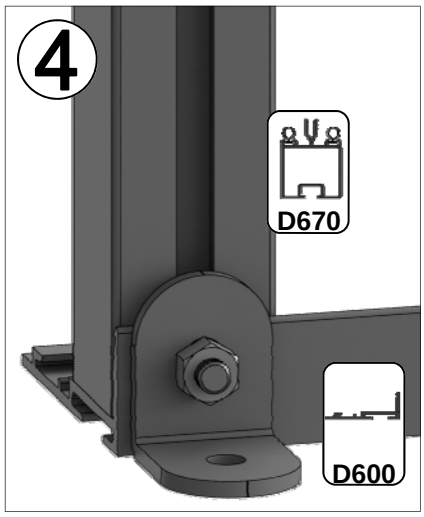
Part No	mm	Quantity
D111		1
D174		4
D227		23m
M6X10		8
M6X15		18
M6NUT		26

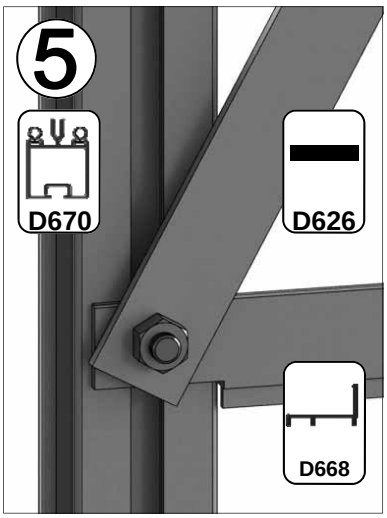


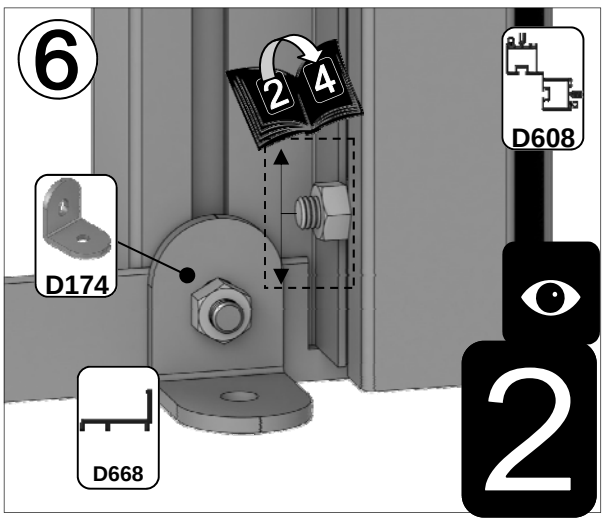

1
2 5
D854R
D111
D854L

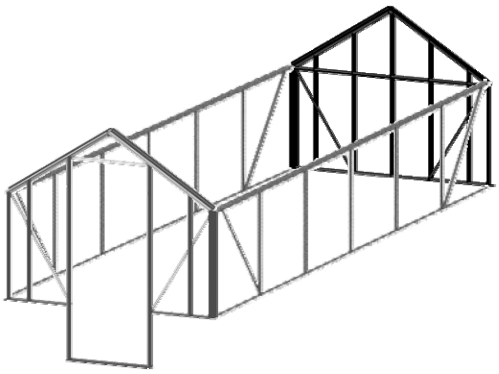

2
D854L
D653
2 10
D670


3
D854L
2 4
D608
D626


4
D670
D600

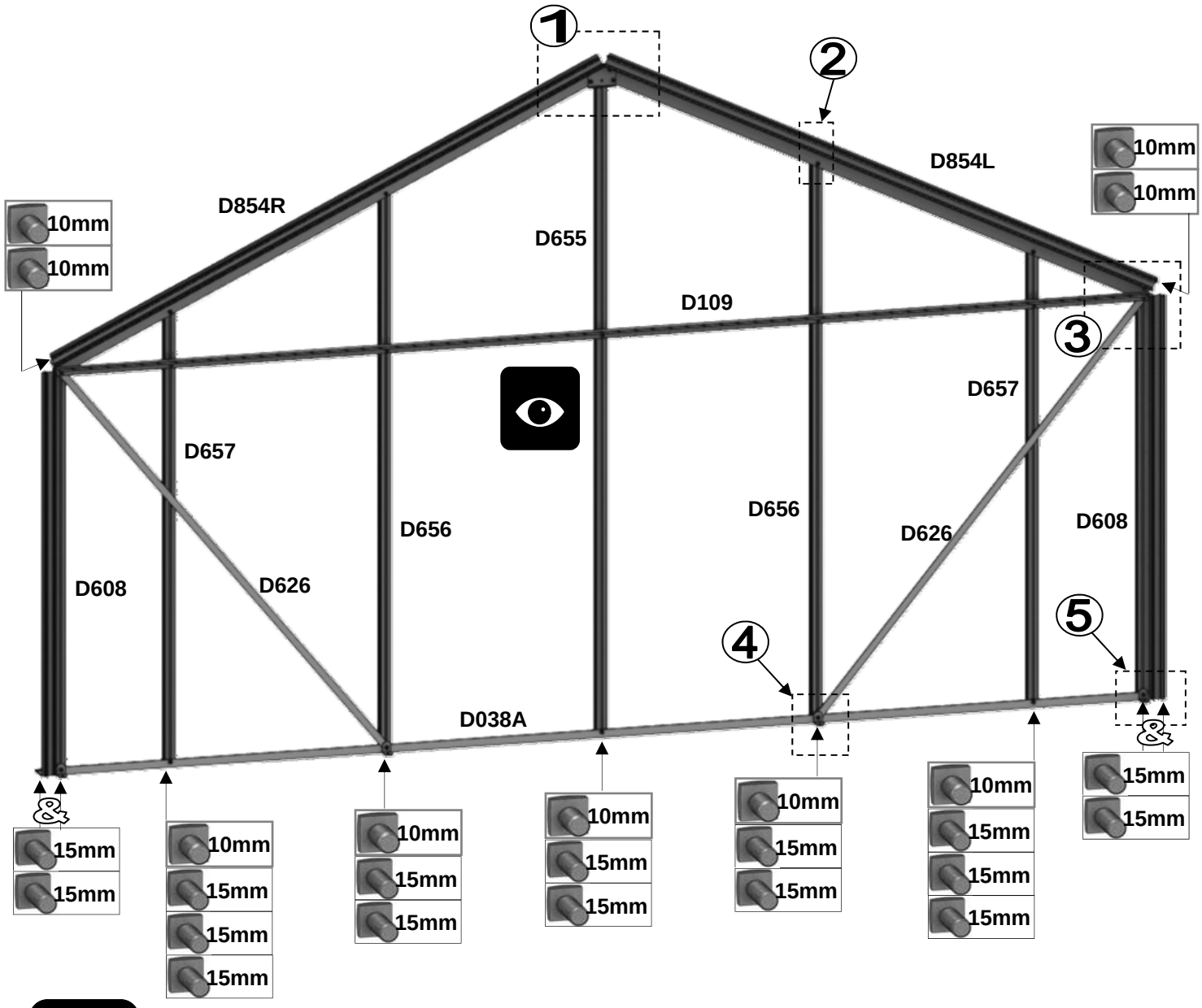

5
D670
D626
D668


6
2 4
D608
D174
D668
2

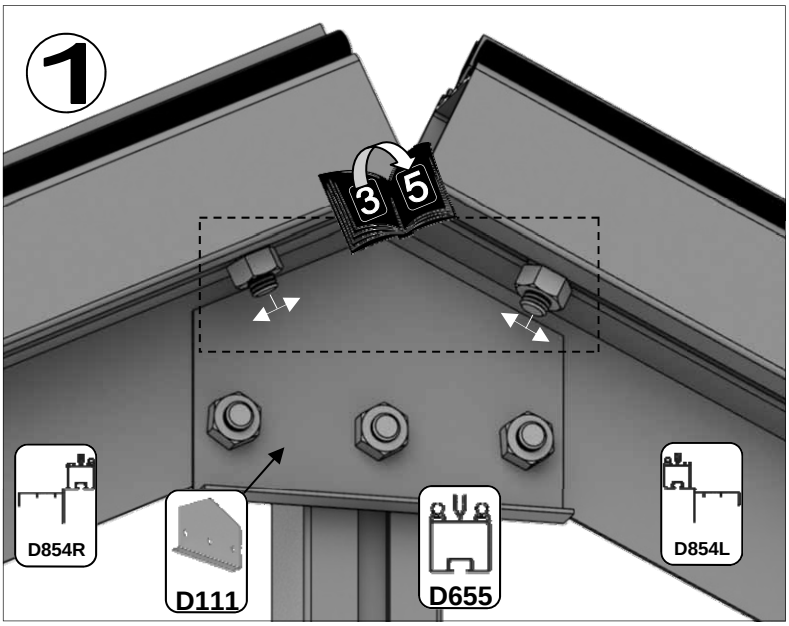


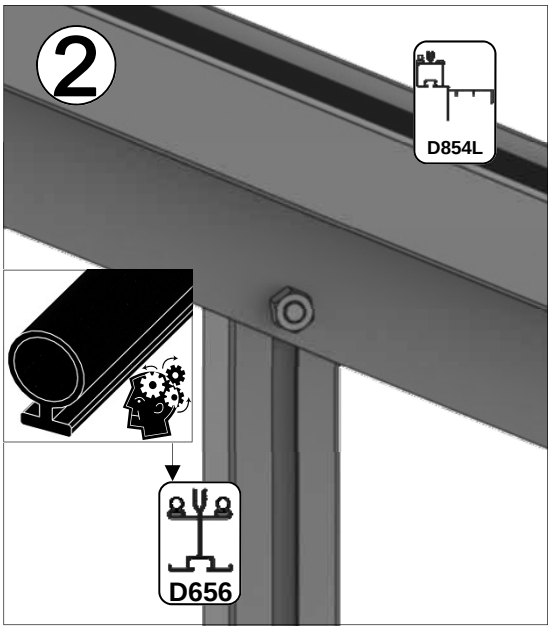
Part No	mm	Quantity
D038/A	3226	1
D109	3140	1
D608	1160	2
D626	1497	2
D655	1906	1
D656	1610	2
D657	1314	2
D854L	1744	1
D854R	1744	1

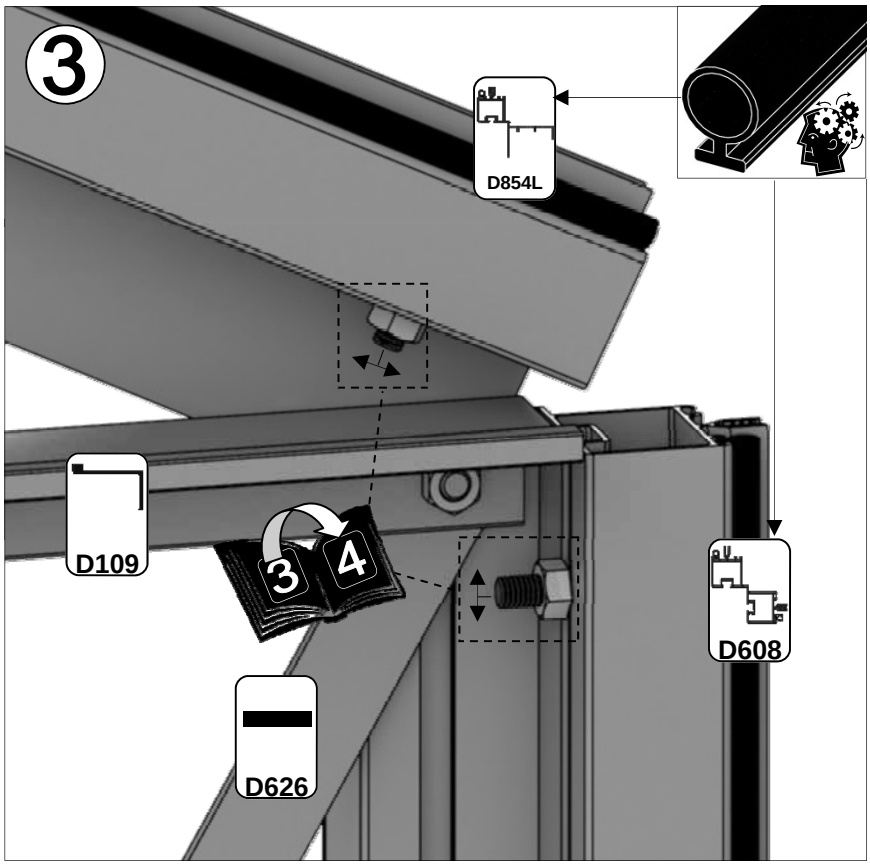
Part No	mm	Quantity
D111		1
D174		4
D227		24m
M6X10		11
M6X15		20
M6NUT		31

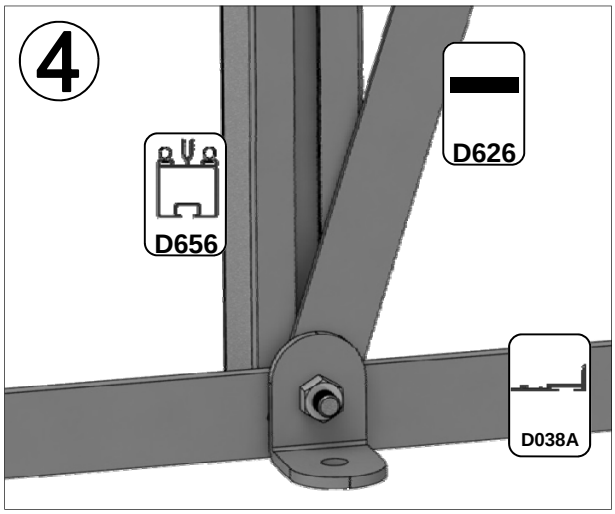


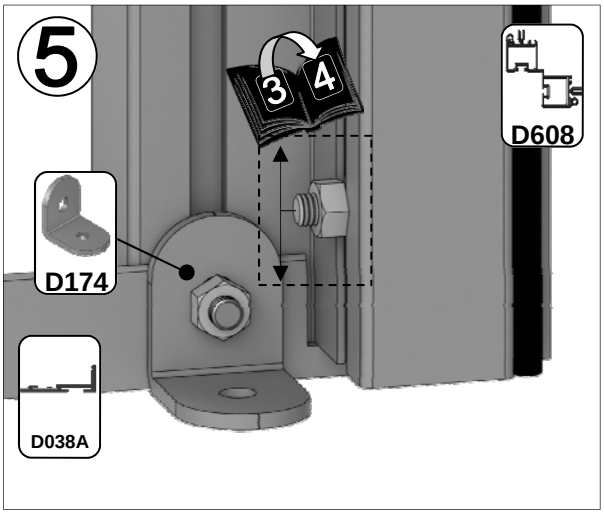
3

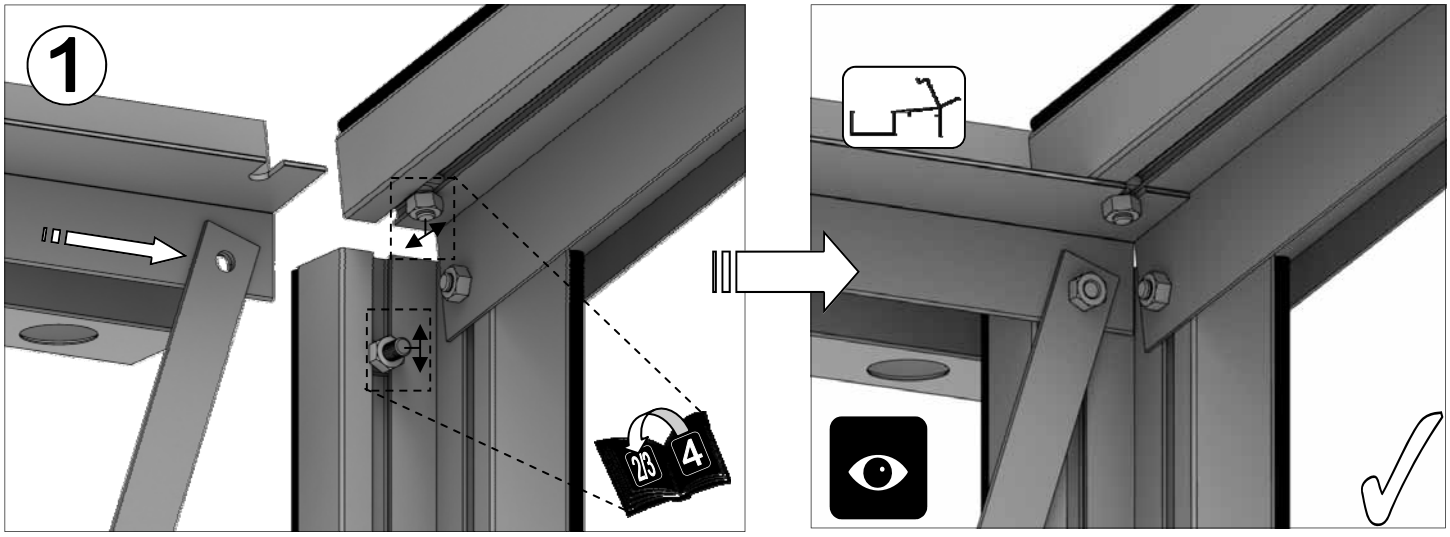

1
3
5
D854R
D111
D655
D854L

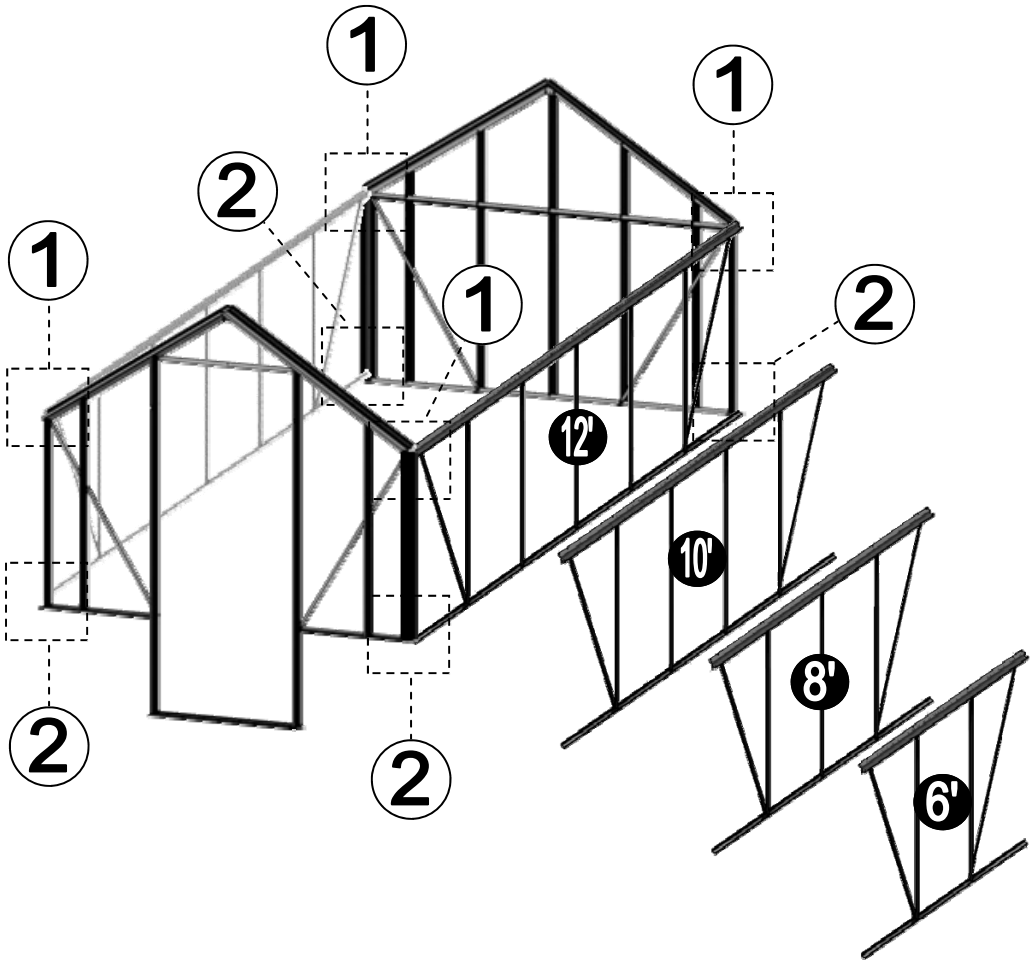

2
D854L
D656

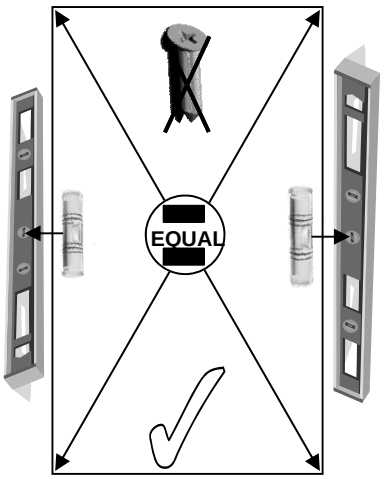

3
D854L
D109
3
4
D608
D626

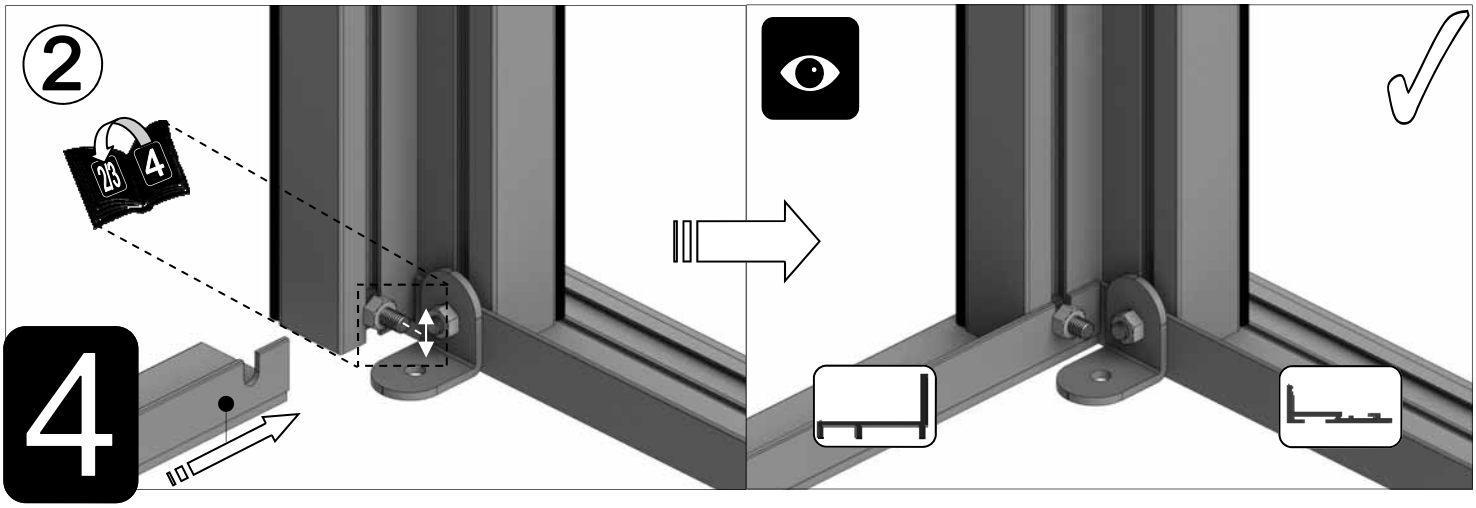

4
D656
D626
D038A


5
3
4
D608
D174
D038A


1
2
3
4


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


EQUAL

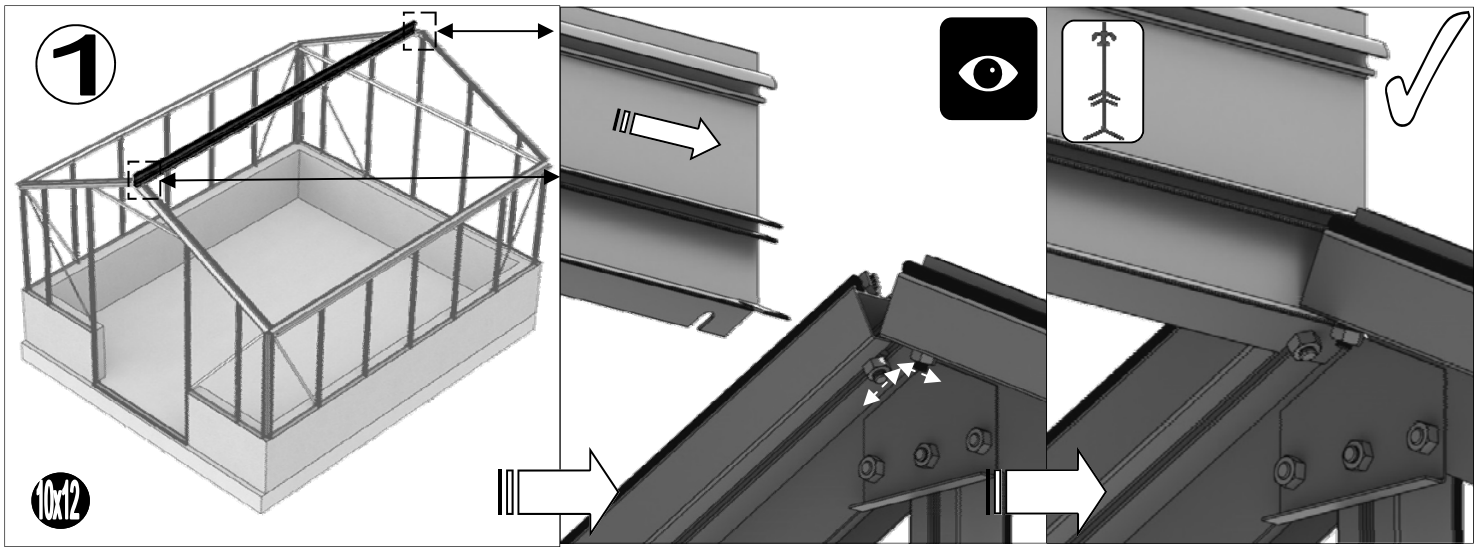

2
2
3
4
4

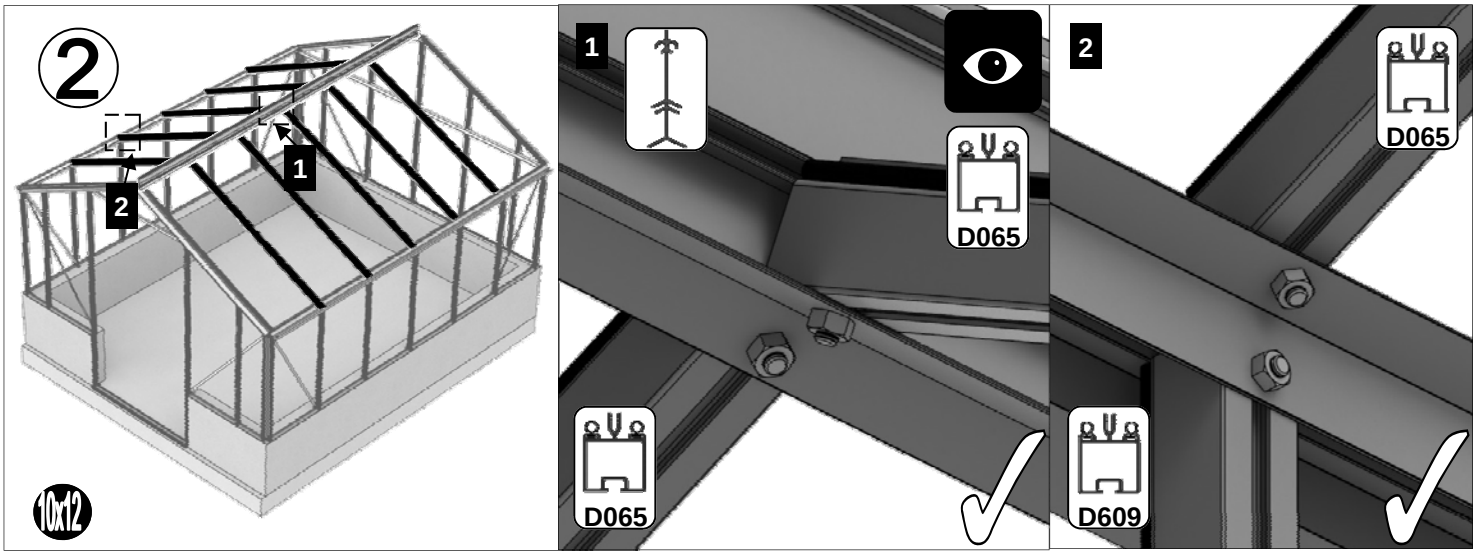
6’		8
Part No	mm	Quantity
D044	1897	1
D065	1744	4
D126	445	0
D128	1015	0
RUBBER	1000	14

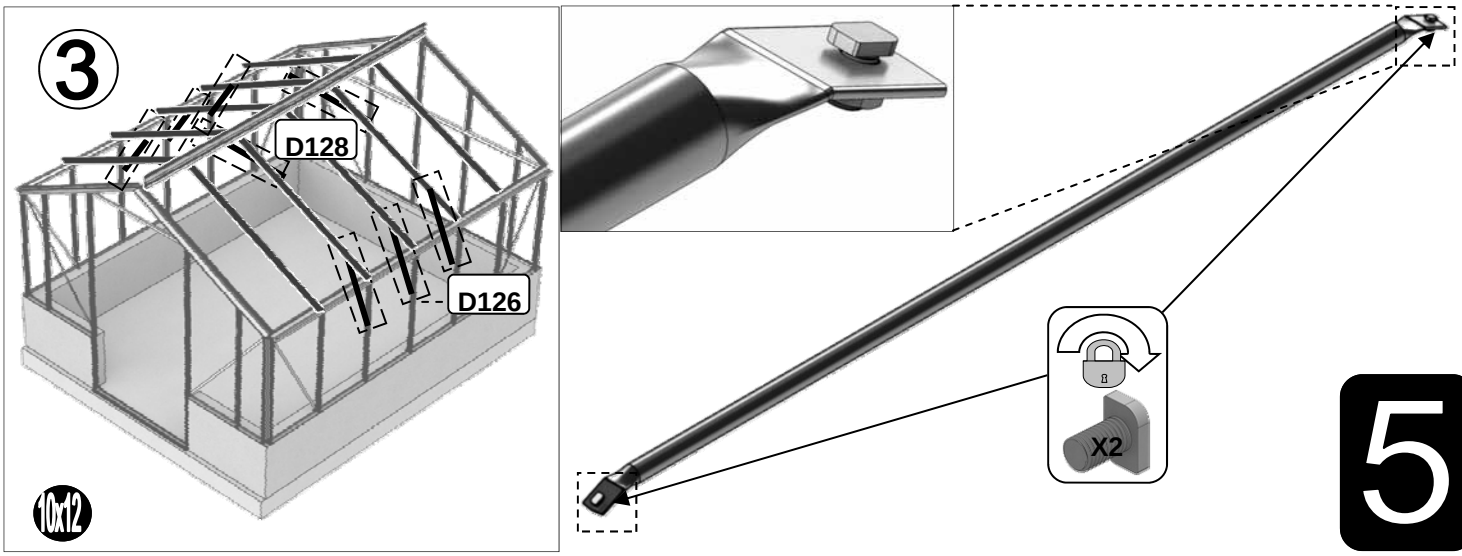
8’		12
Part No	mm	Quantity
D001	2517	1
D065	1744	6
D126	445	2
D128	1015	1
RUBBER	1000	21

10’		16
Part No	mm	Quantity
D002	3137	1
D065	1744	8
D126	445	4
D128	1015	2
RUBBER	1000	28

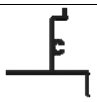
12’		20
Part No	mm	Quantity
D003	3757	1
D065	1744	10
D126	445	6
D128	1015	2
RUBBER	1000	35





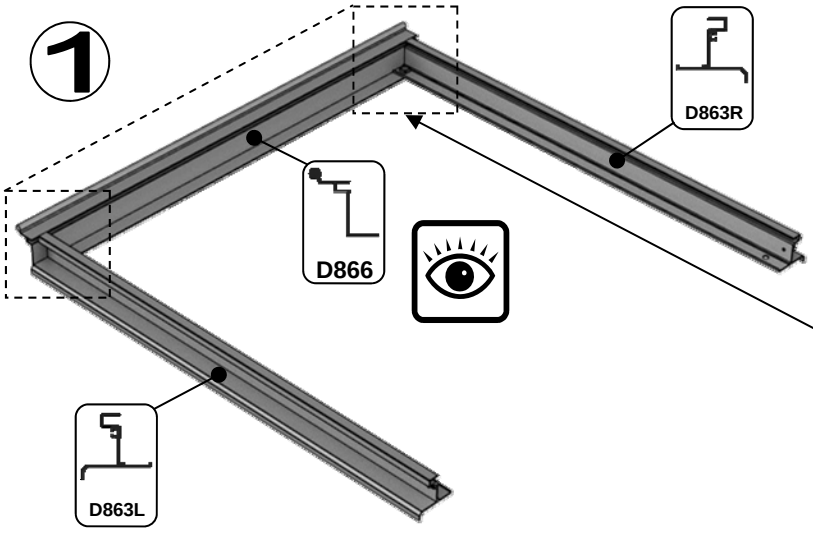


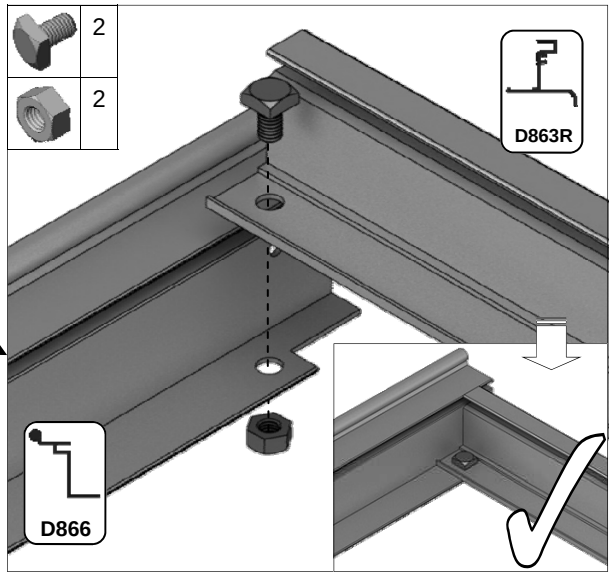
D1208
1 of -
610 x 610
pane

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

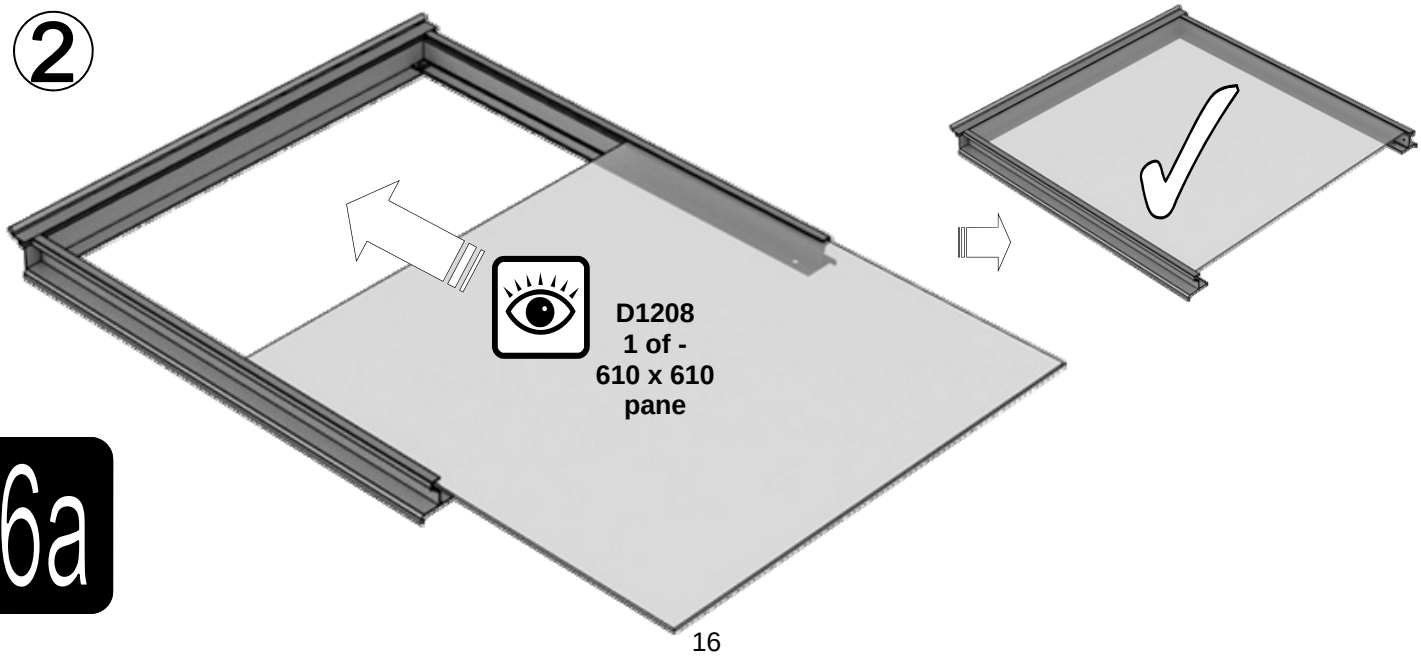
Part No		mm	Quantity
D220 PLUS FS6060 SCREW		N/A	2
D205		N/A	2
SY-BOLM6X11		10	4
SYNUTM6		M6	4
8 X 12 S/T FS6017		10	2
8 x 19 S/T FS6018		19	2

1

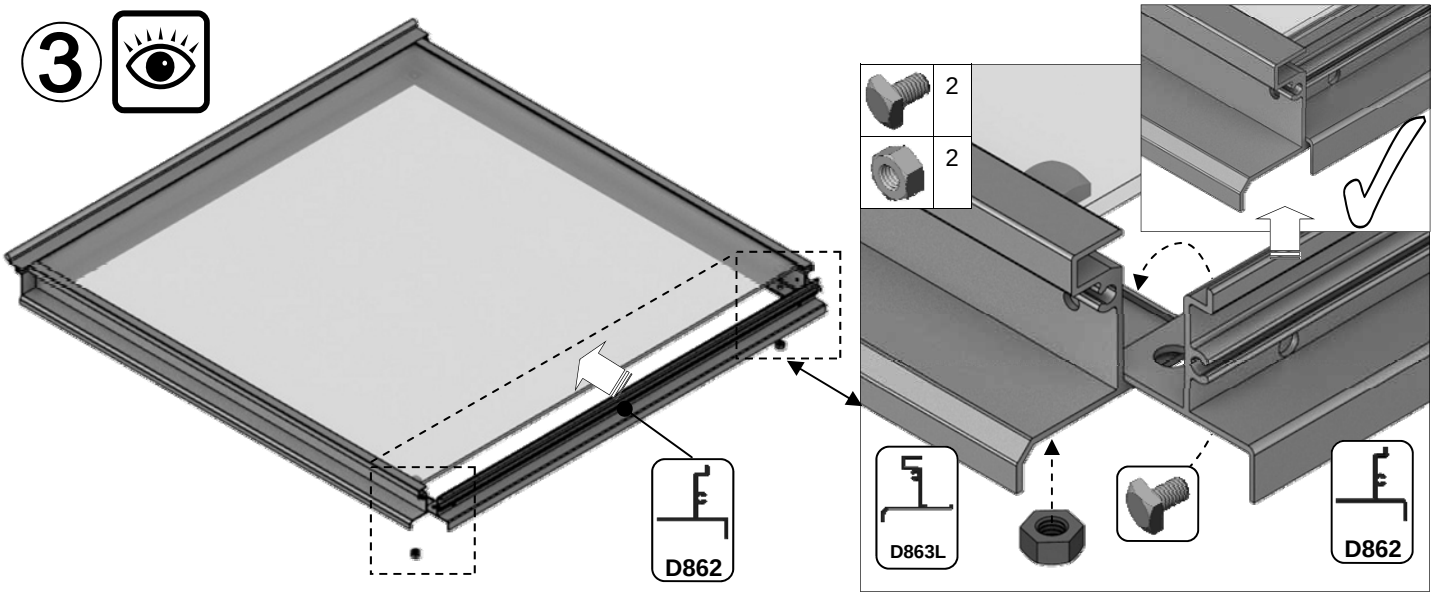


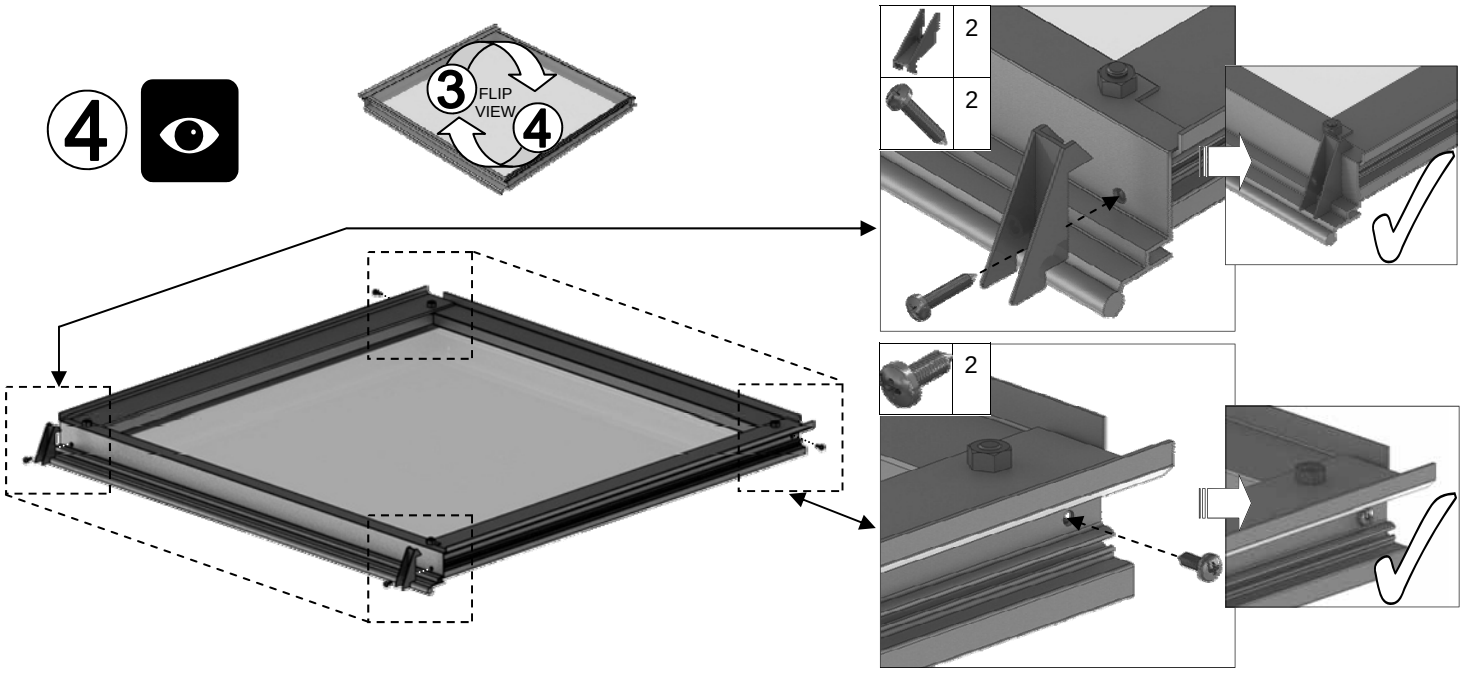


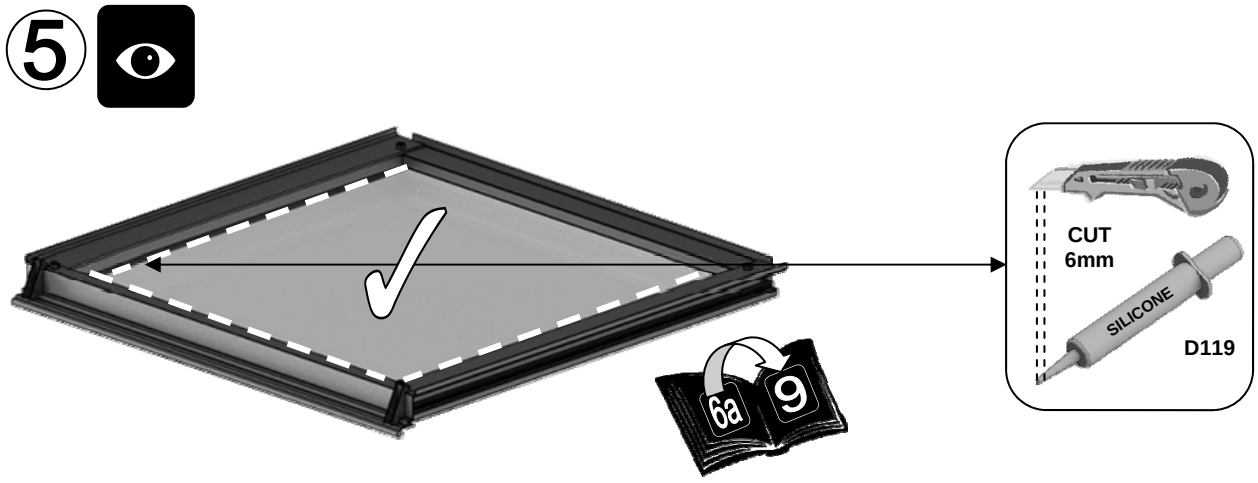
2



6a


3
2
2
D862
D863L
D862


4
3
FLIP
VIEW
4
2
2
2


5
CUT
6mm
SILICONE
D119
6a
9

6a

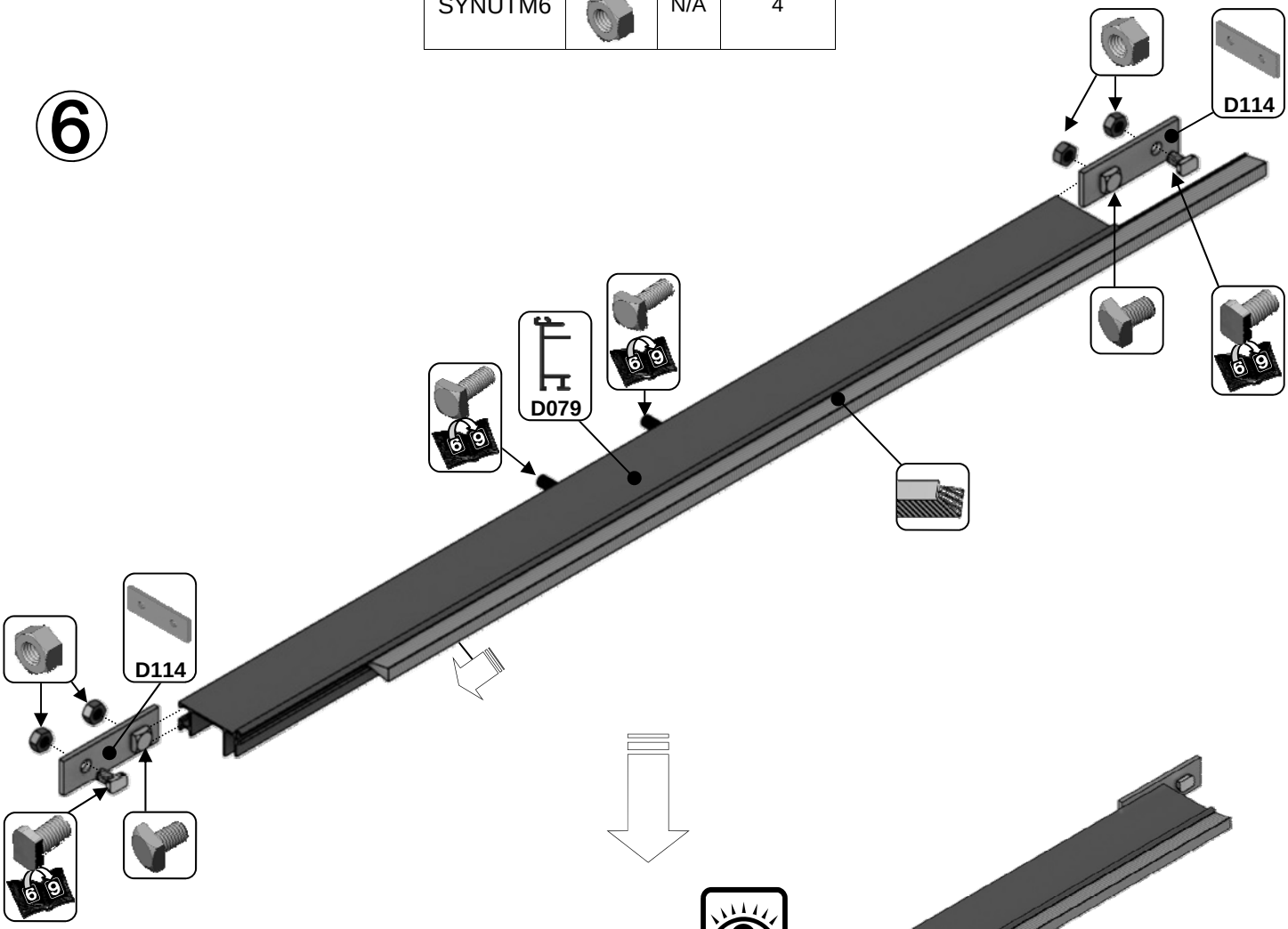
1 vent

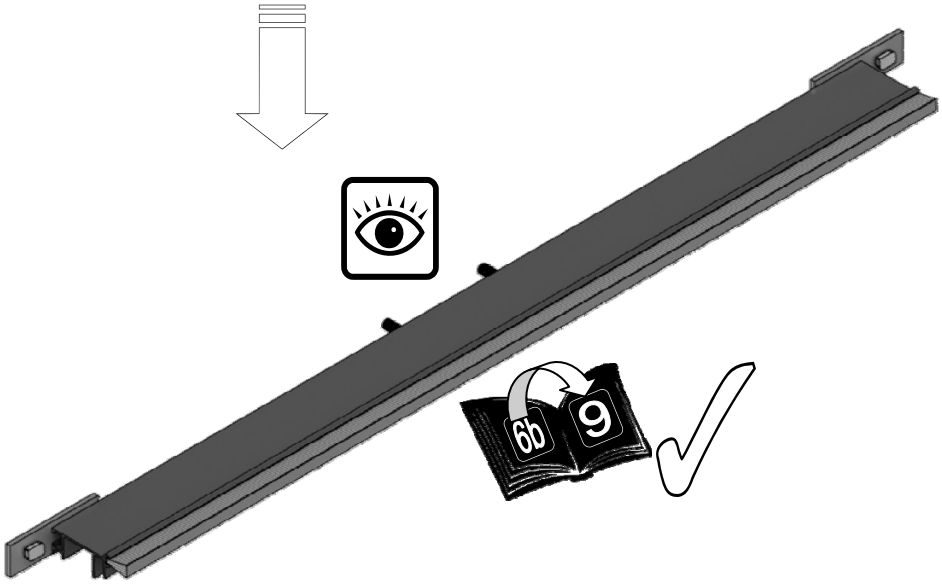
slam bar = {

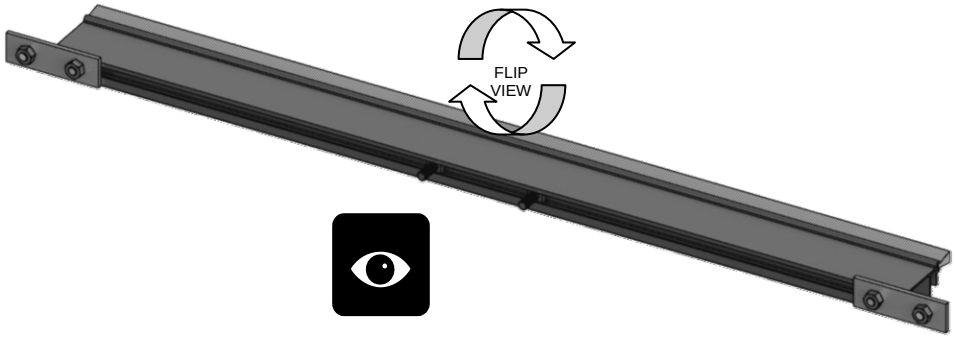
Part No		mm	Quantity
SY-BOLM6X11		10	2
SY-BOLM6X15		15	2
SYBOLM6X11CROP		10	2
SYNUTM6		N/A	4

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

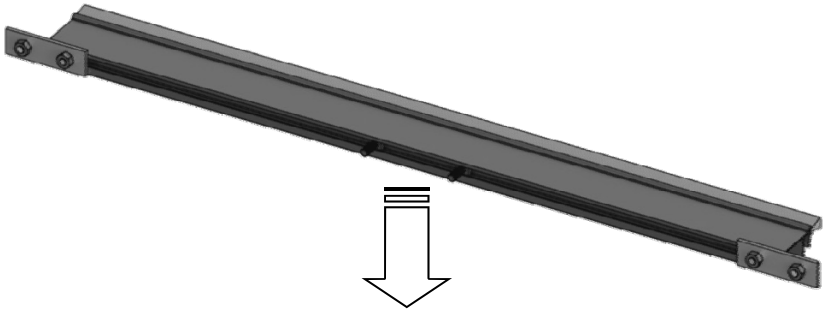
⑥

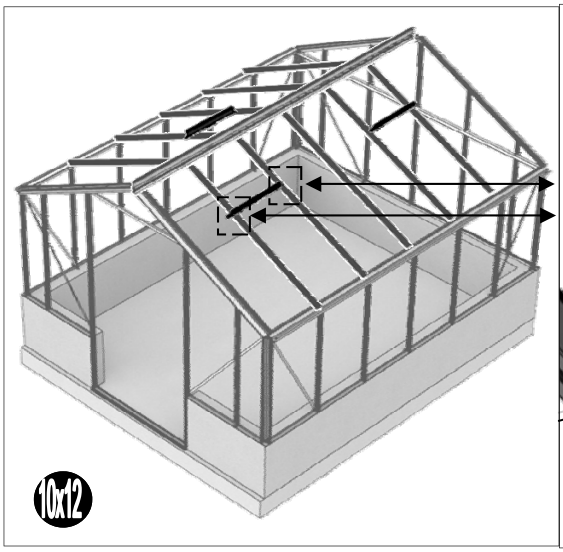


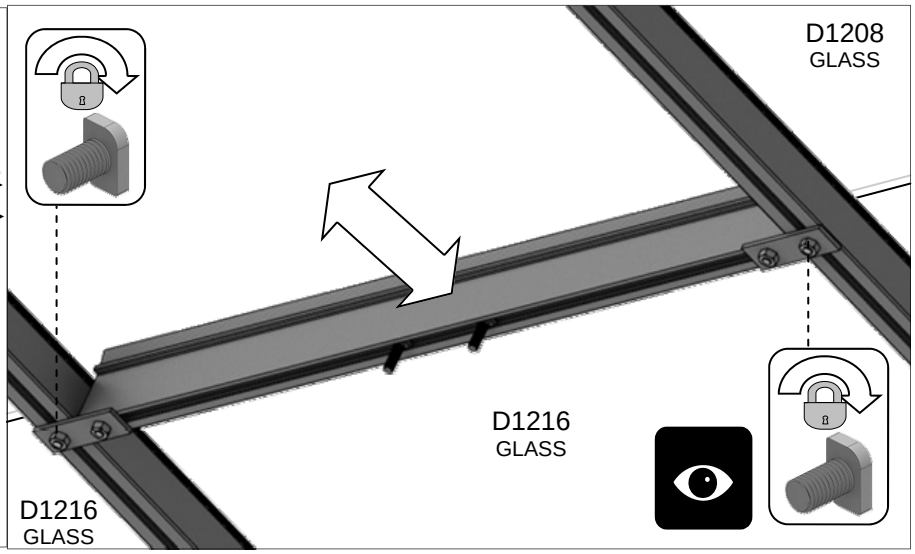


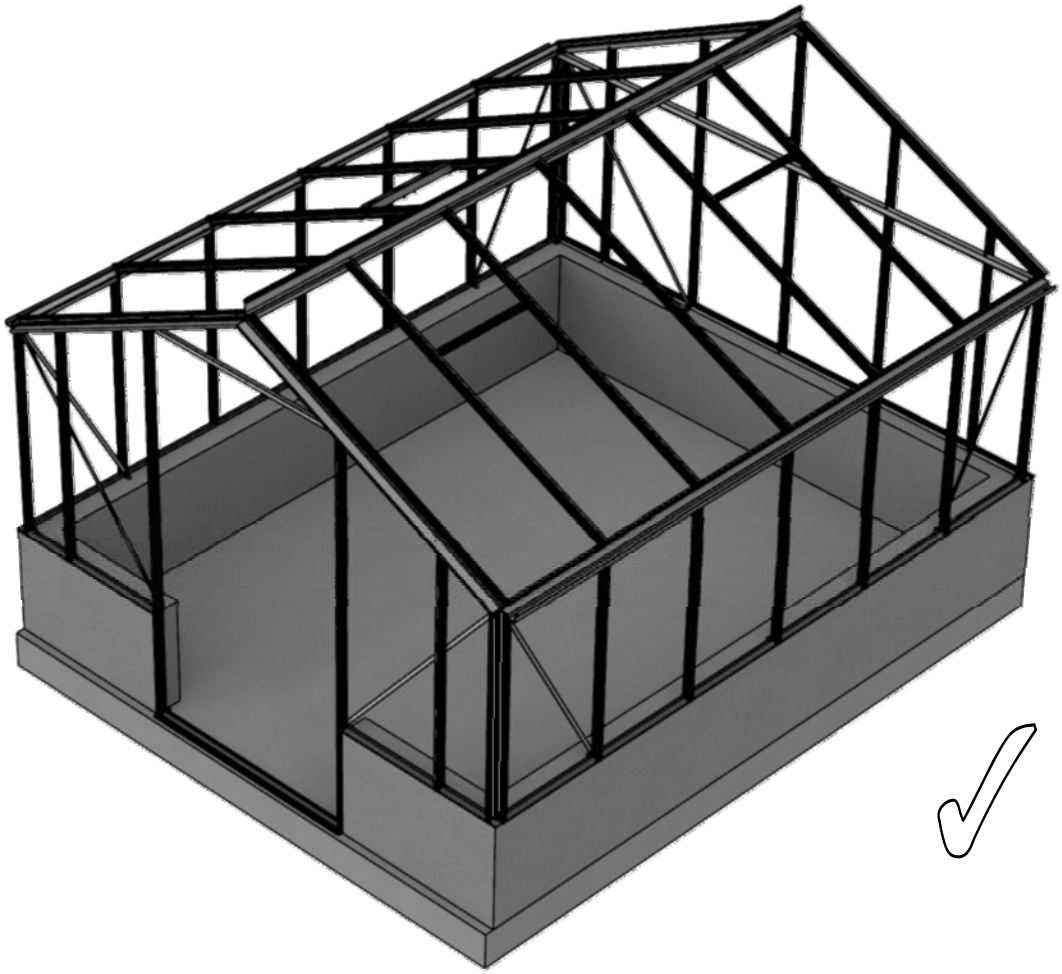


6b

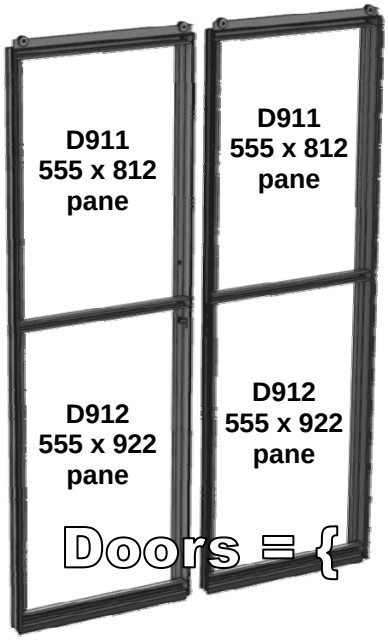






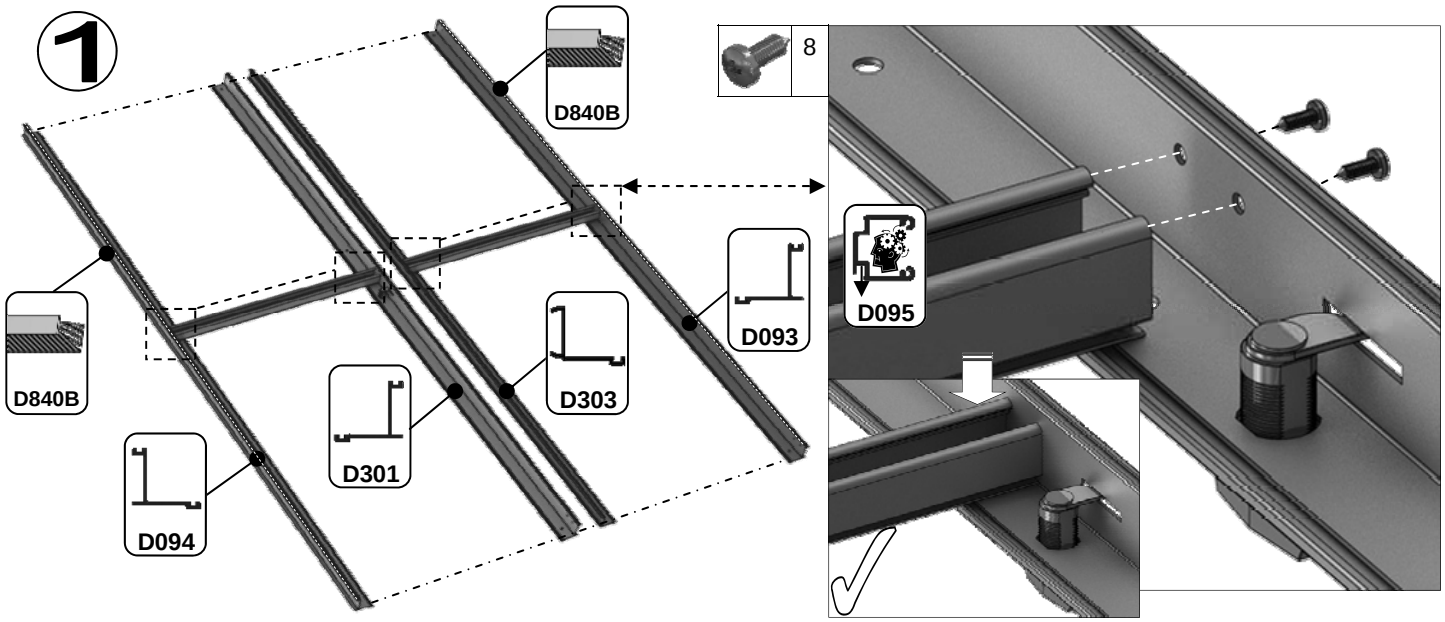


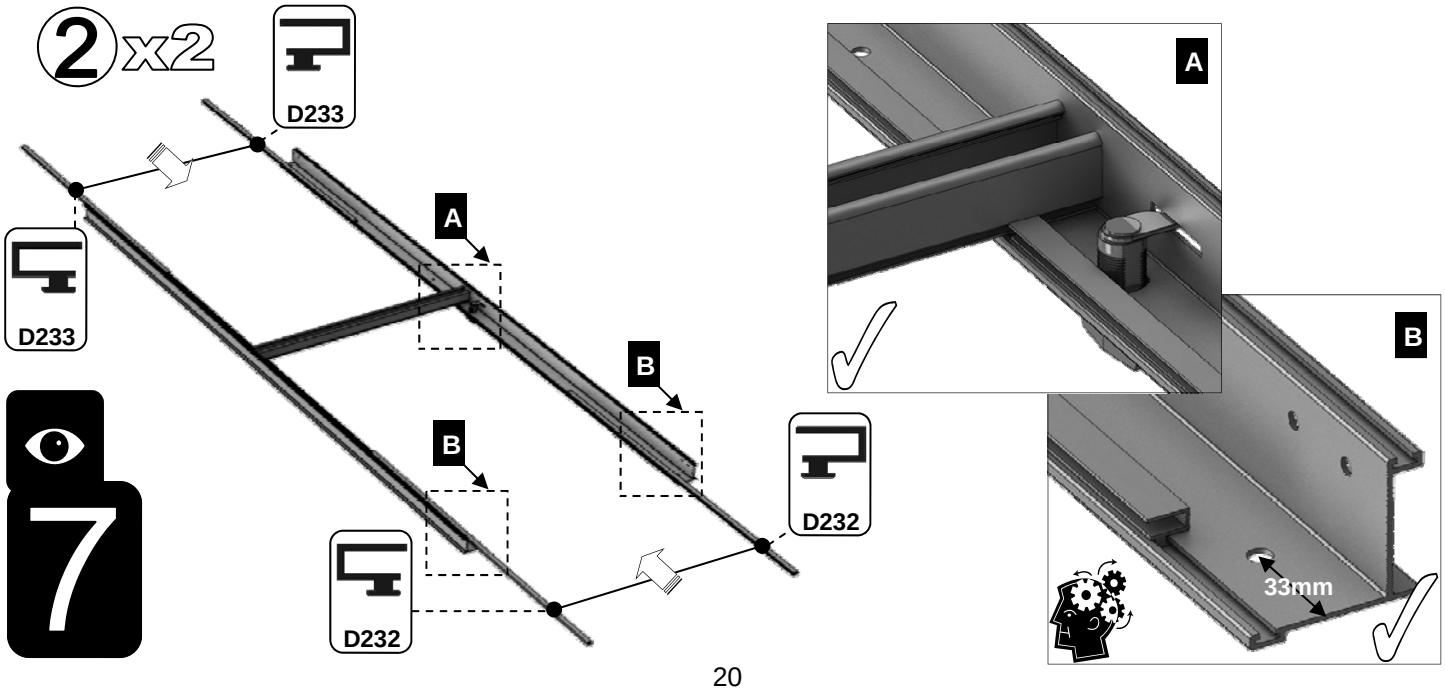
6b

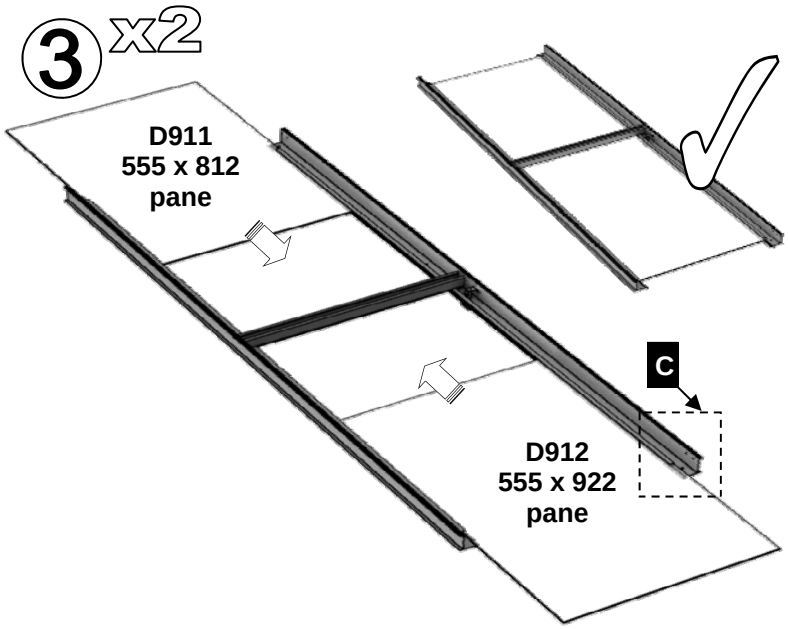


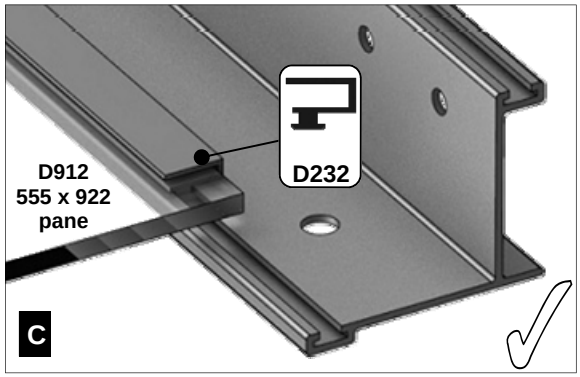
Part No		mm	Q
D094		1824	1
D090 + D347 lock = D301		1824	1
D092 + D156 strike = D303		1824	1
D093		1824	1
D096 + D217 wheel = D307		611	2
D095		611	2
D097		611	2

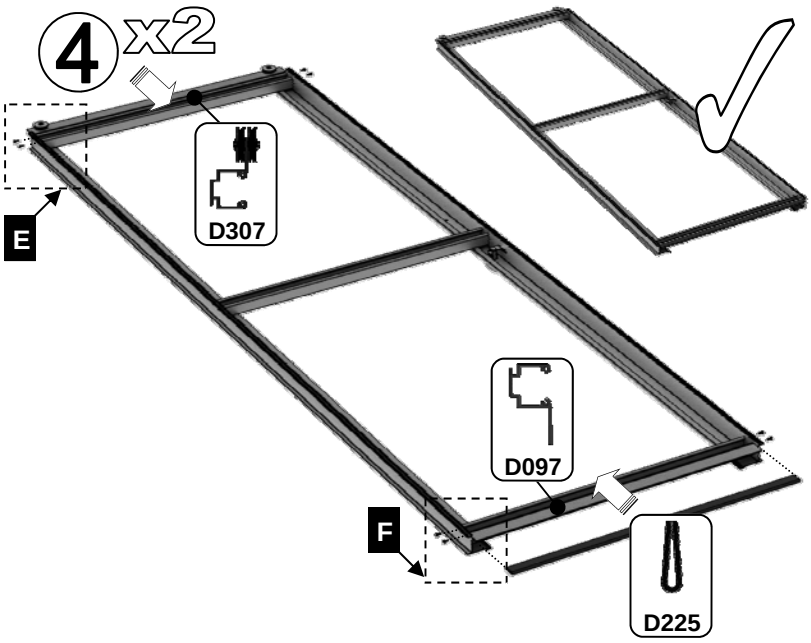
Part No		mm	Q
D232		905	4
D233		797	4
P053		N/A	2
D225		610	2
D840B		4000	. 1
D263 PACK x 2		N/A	14
		N/A	14
D261 PACK		N/A	24

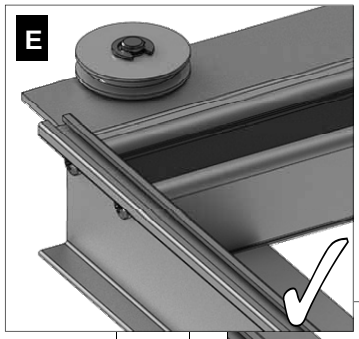


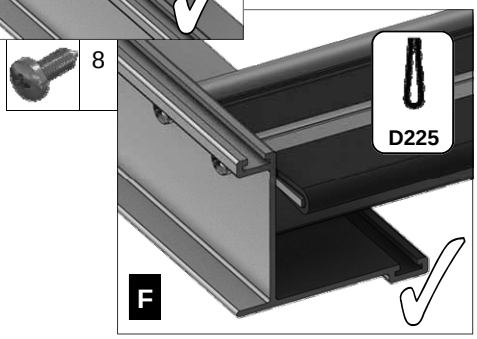


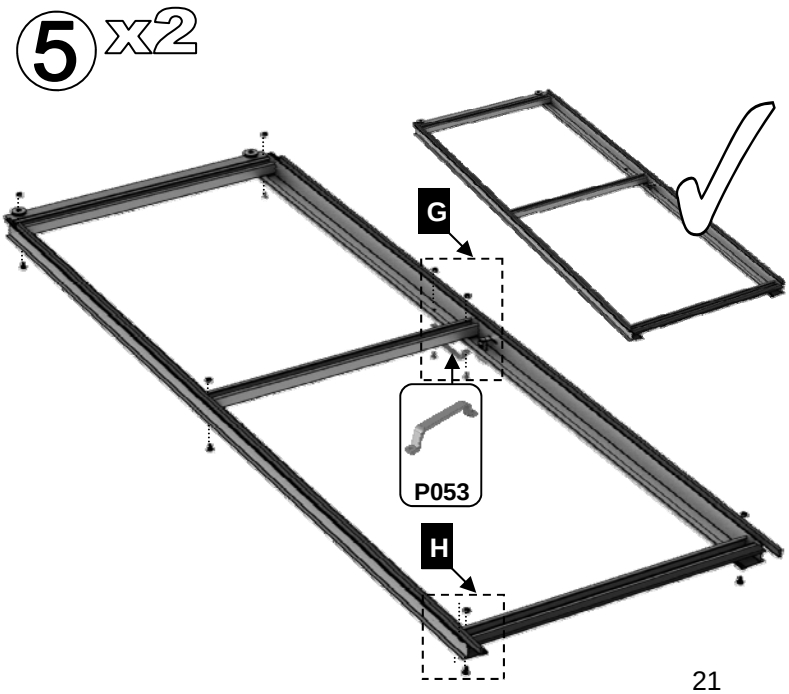

3 x2
D911
555 x 812
pane
C
D912
555 x 922
pane

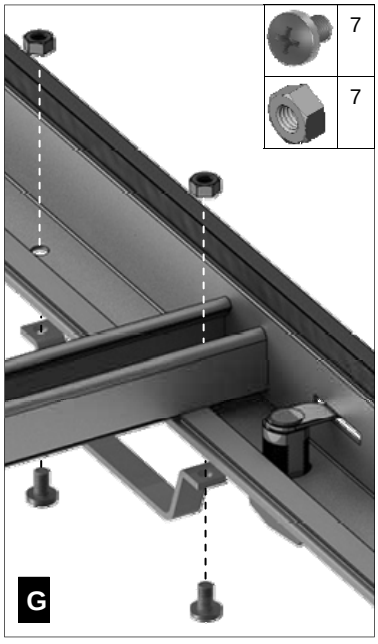

D912
555 x 922
pane
D232
C

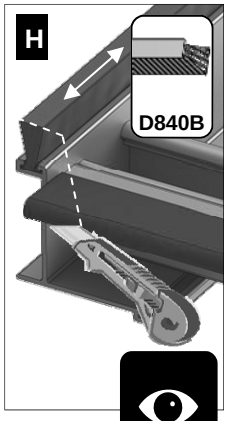

4 x2
E
D307
D097
F
D225


E

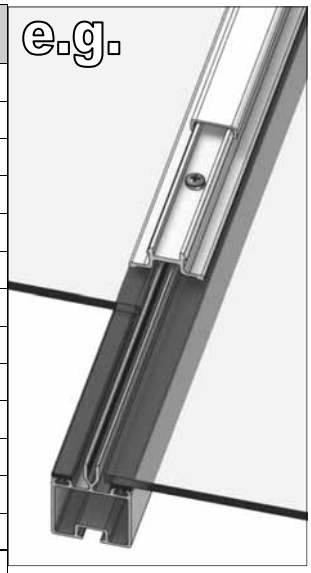

8
D225
F

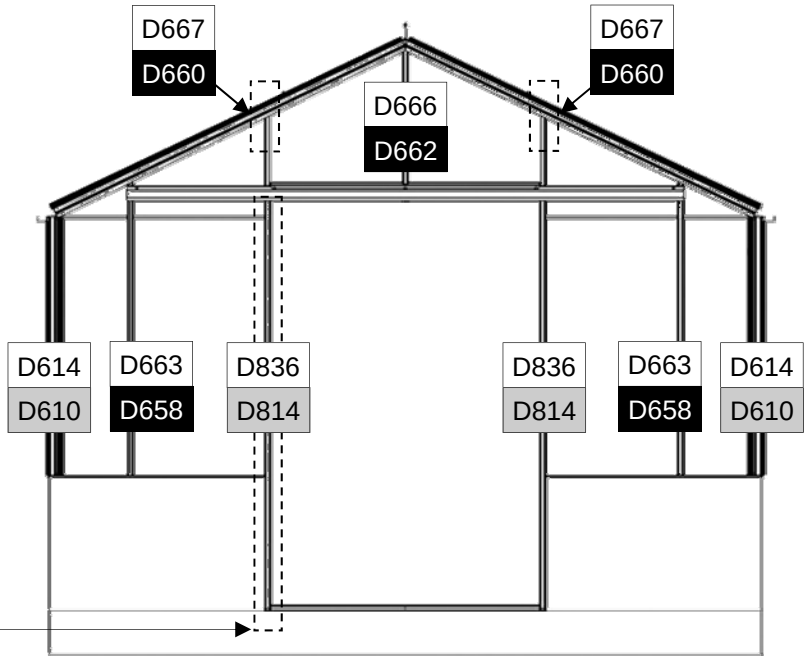

5 x2
G
P053
H

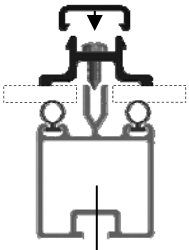

7
7
G

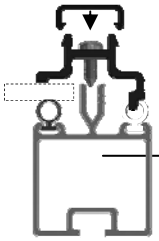

H
D840B

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		1610
D665		1908
D666		602
D667		313
D811		1754
D836		1883

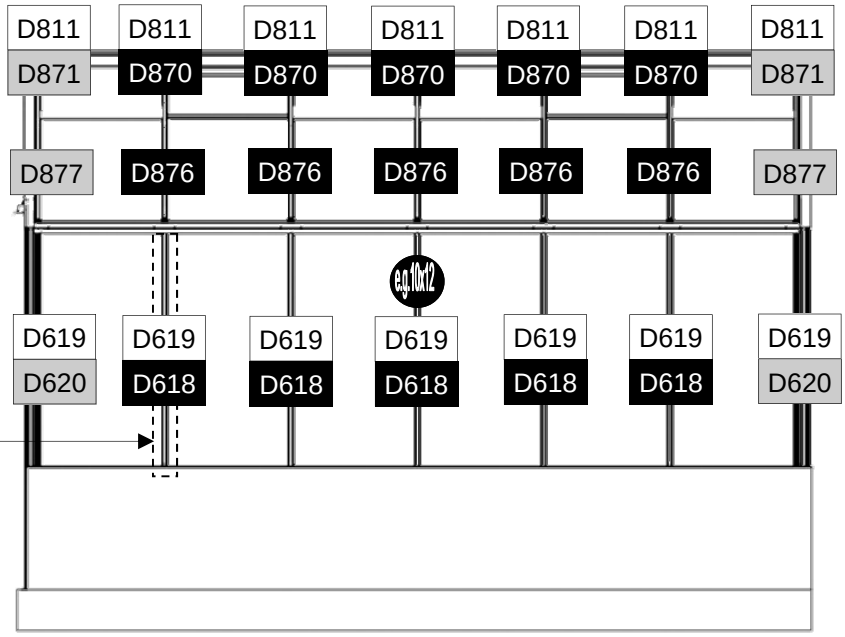




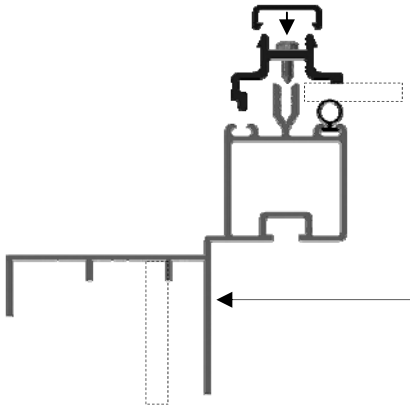




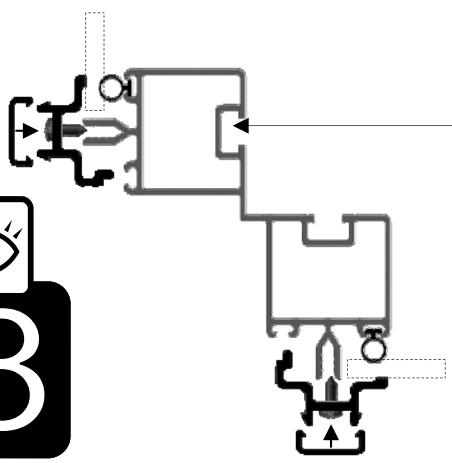
e.g.

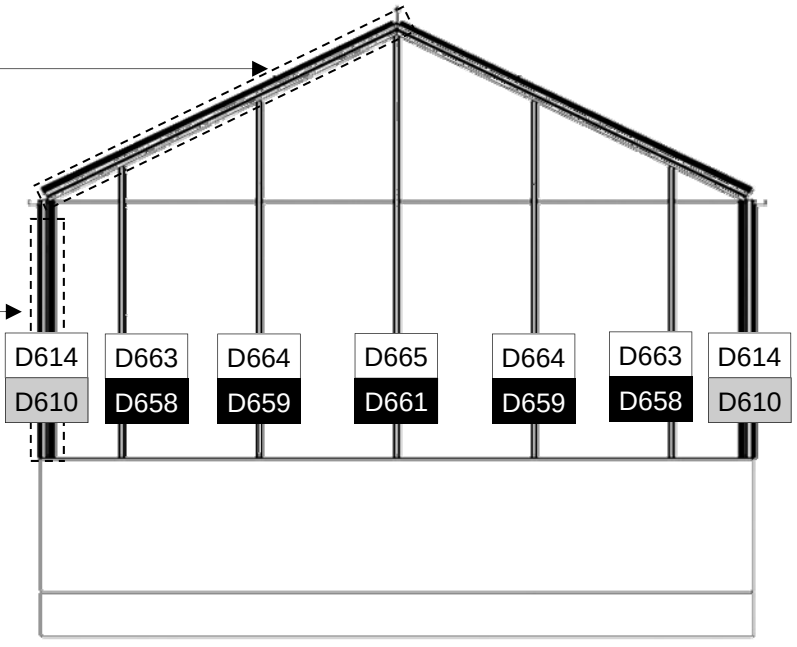


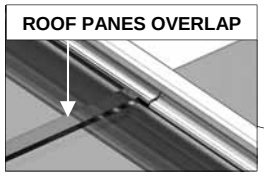
e.g.



e.g.

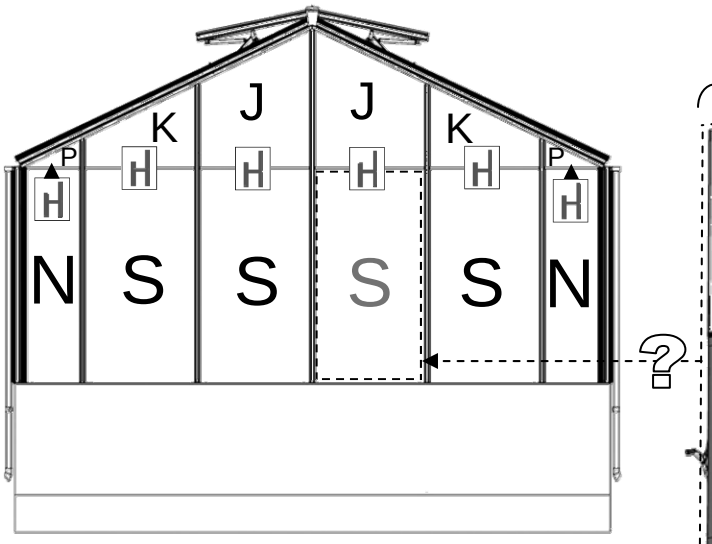




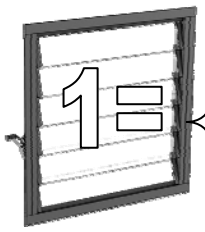


ROSETTE DWARF TOUGHENED GLASS

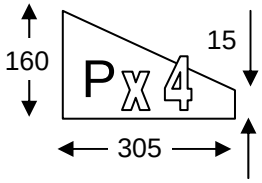
e.g. 10x12

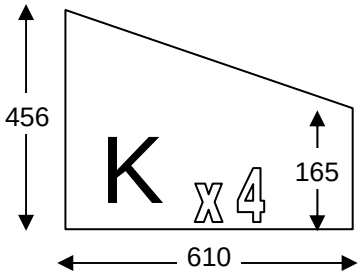


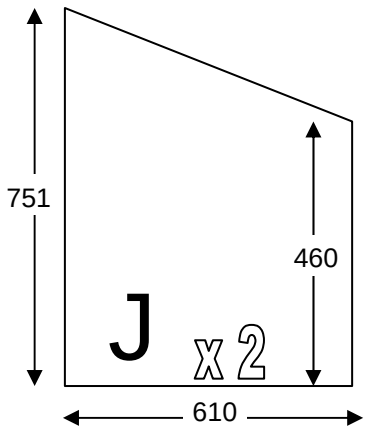
PART No		Size (mm)	6’	8’	10’	12’
D1216	S	610 X 1162	17	20	24	28
D1208	A	610 X 610	6	8	10	12
D625	N	305 X 1162	4			
D911	C	555 X 812	2			
D912	D	555 X 922	2			
D902	P	ANGLE	4			
D901	K	ANGLE	4			
D907	J	ANGLE	2			
D622	H	ANGLE	2			
D223/B		1210	1			
D101 / ROSEPS	H	610 long (inc cuts to 305mm)	8			

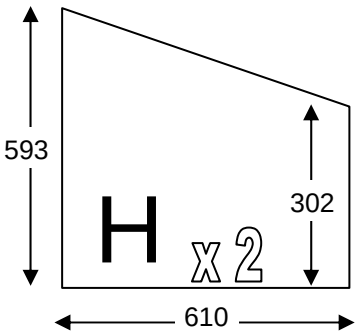


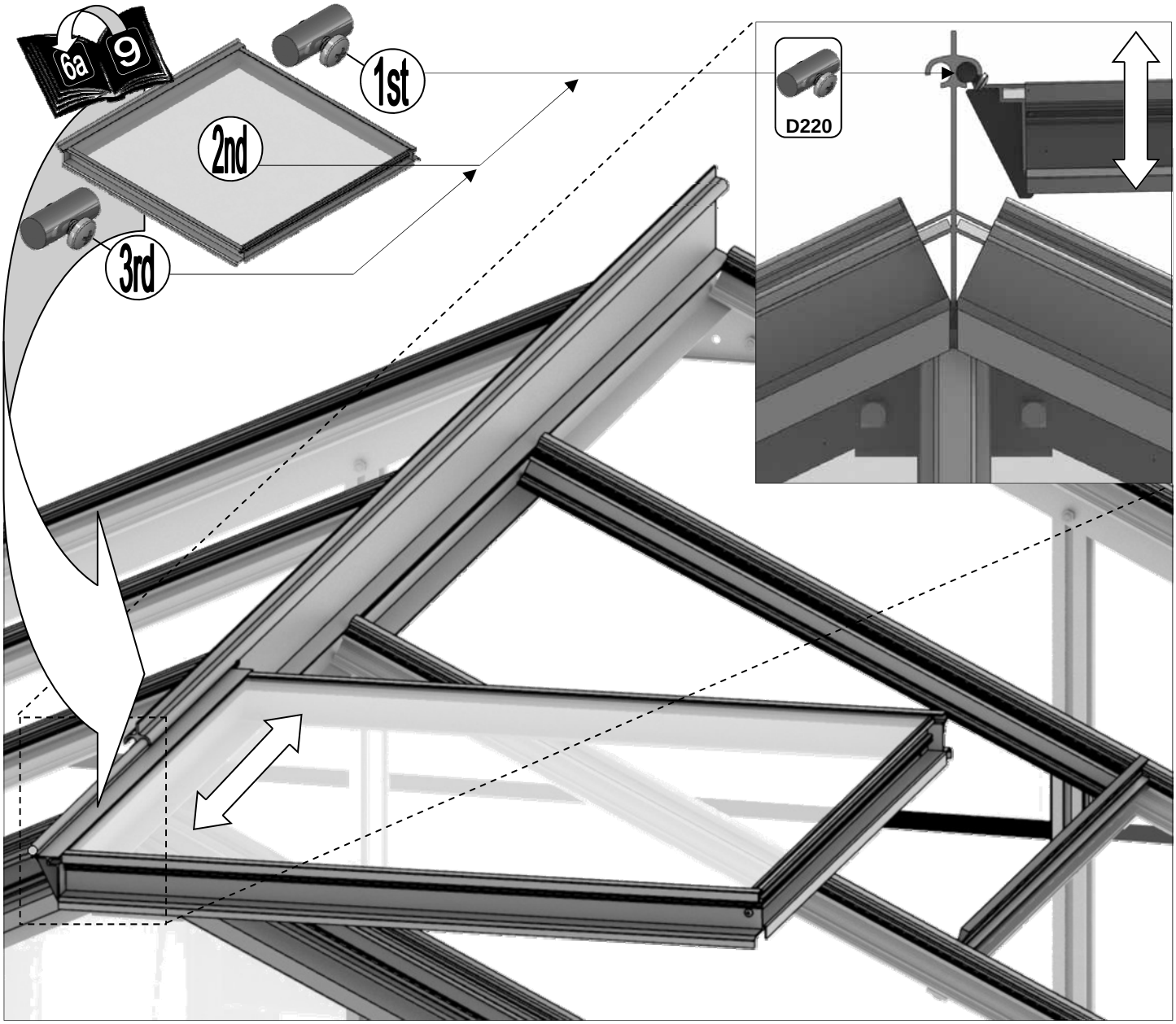
D624	M	610 X 550	1
D729	L	525X 100	6
D101 / ROSEPS	H	610 long	1

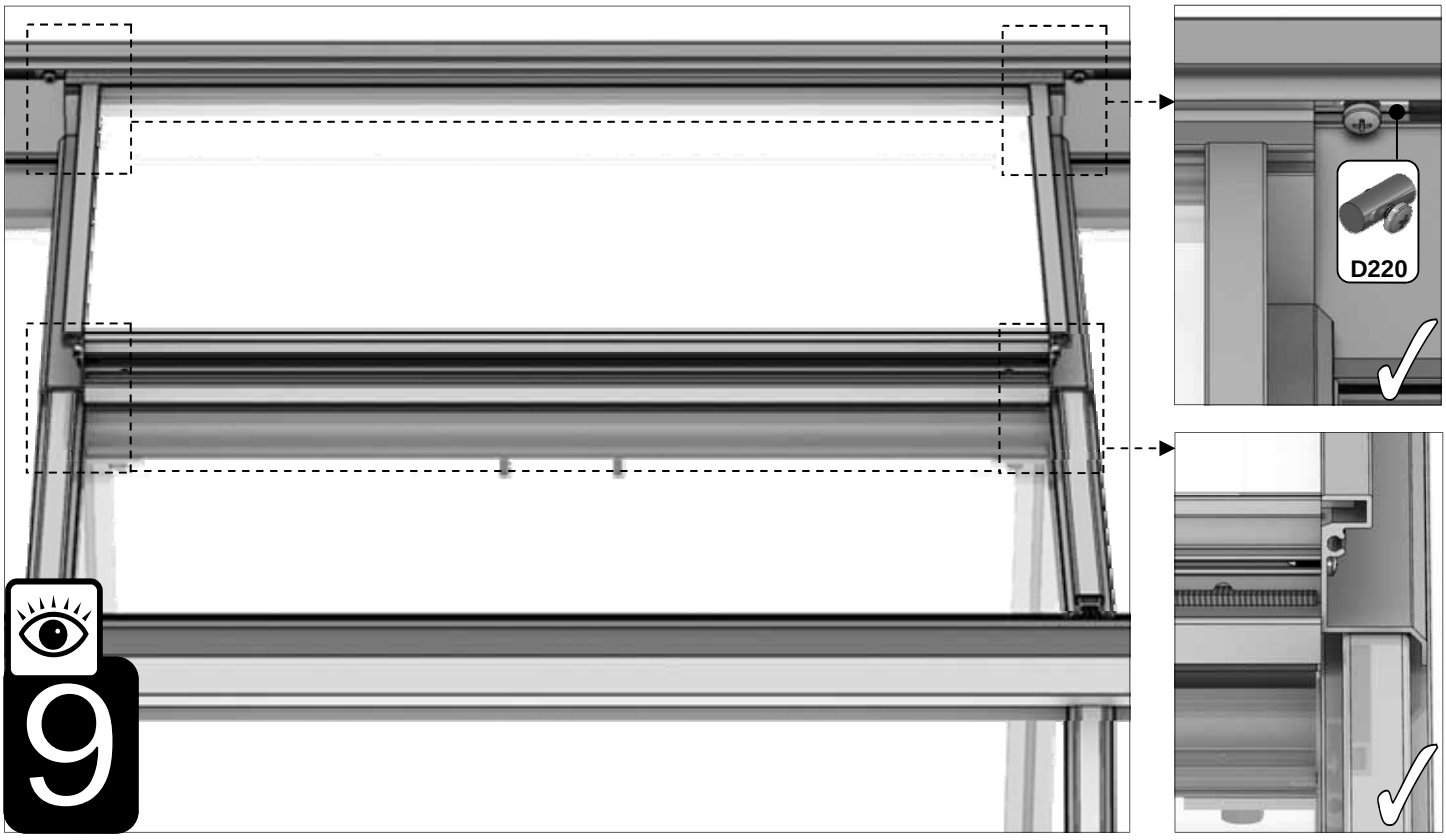


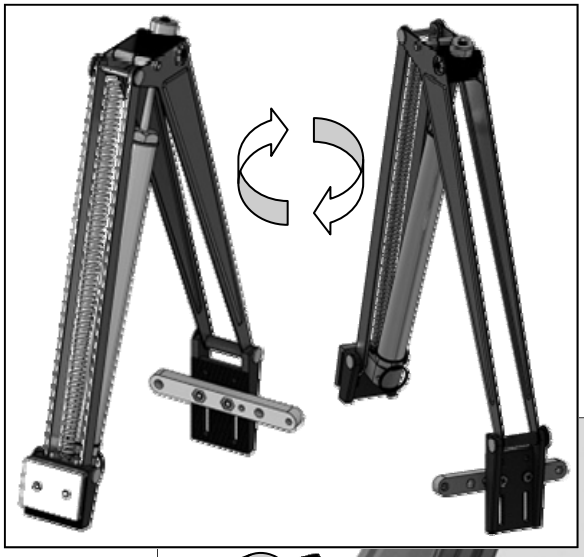


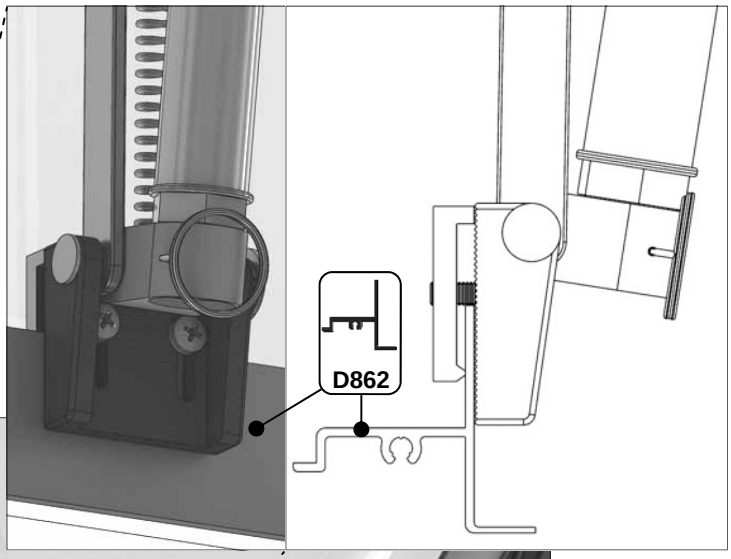


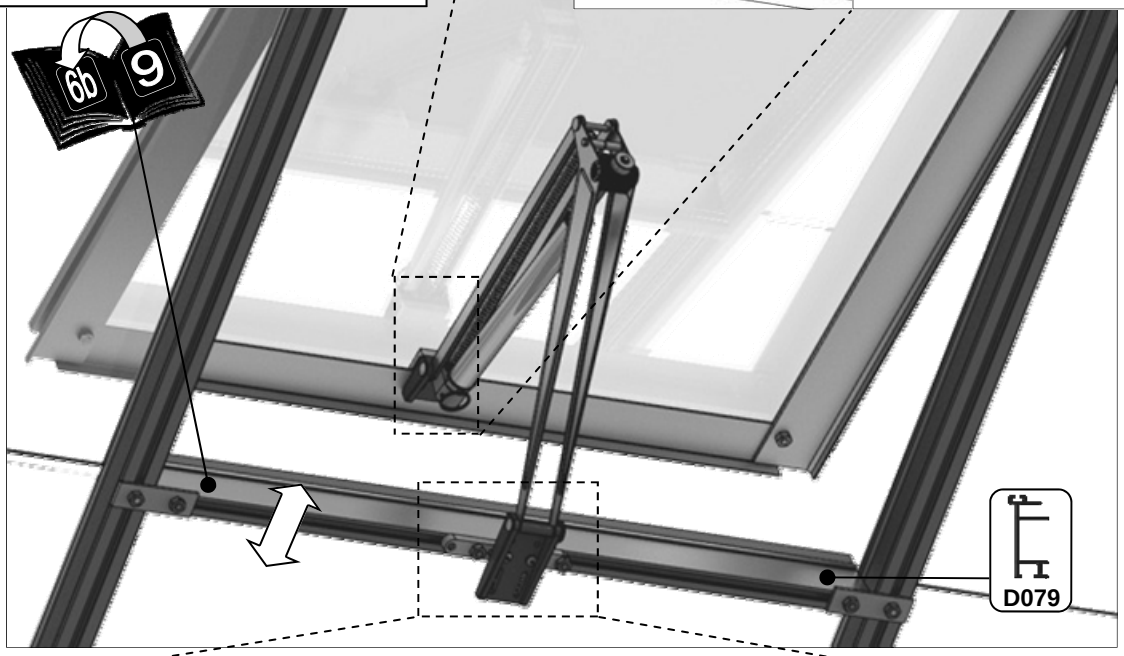


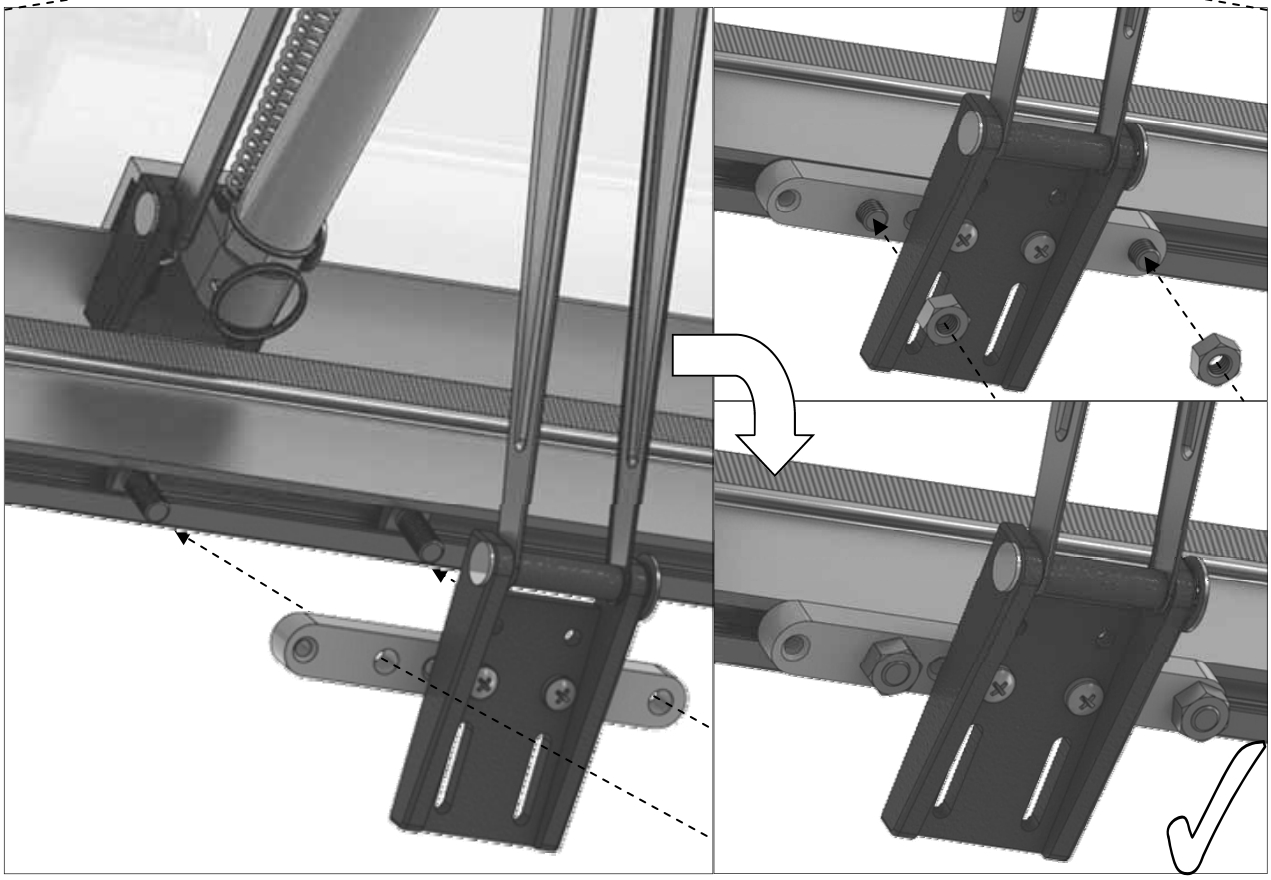

6a
9
1st
2nd
3rd
D220


D220
9





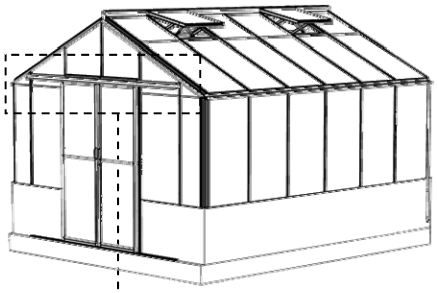


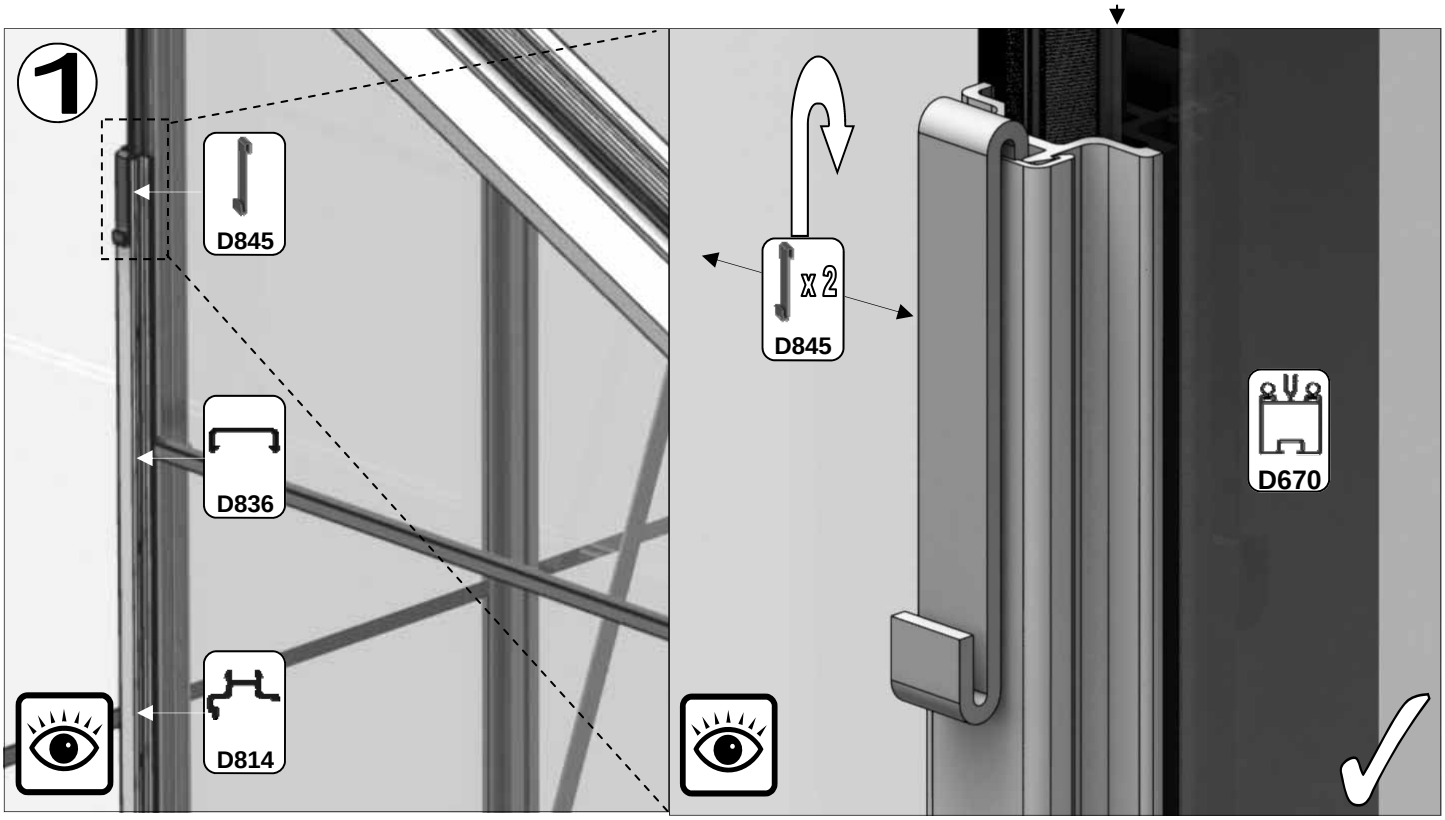


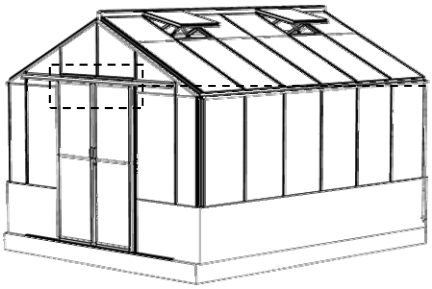
9

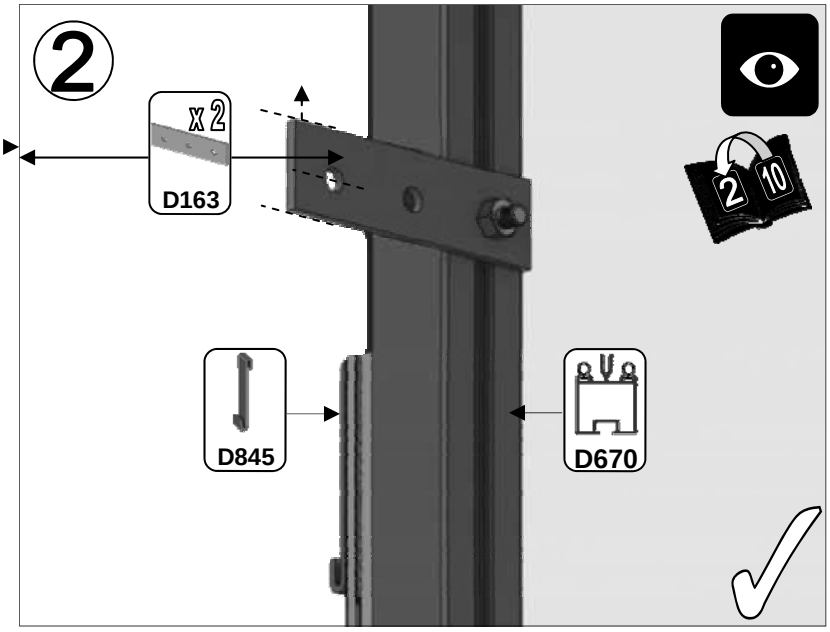
Part No		mm	Q
D865		1210	1
D086		2510	1
D085		2510	1

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

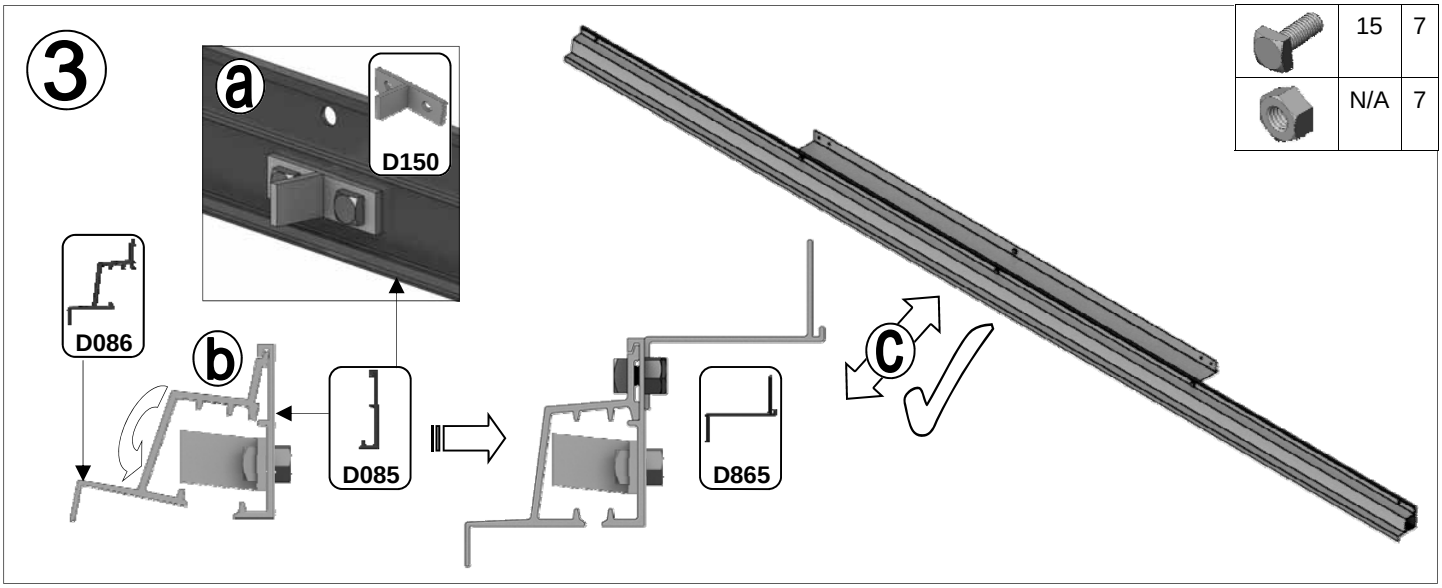


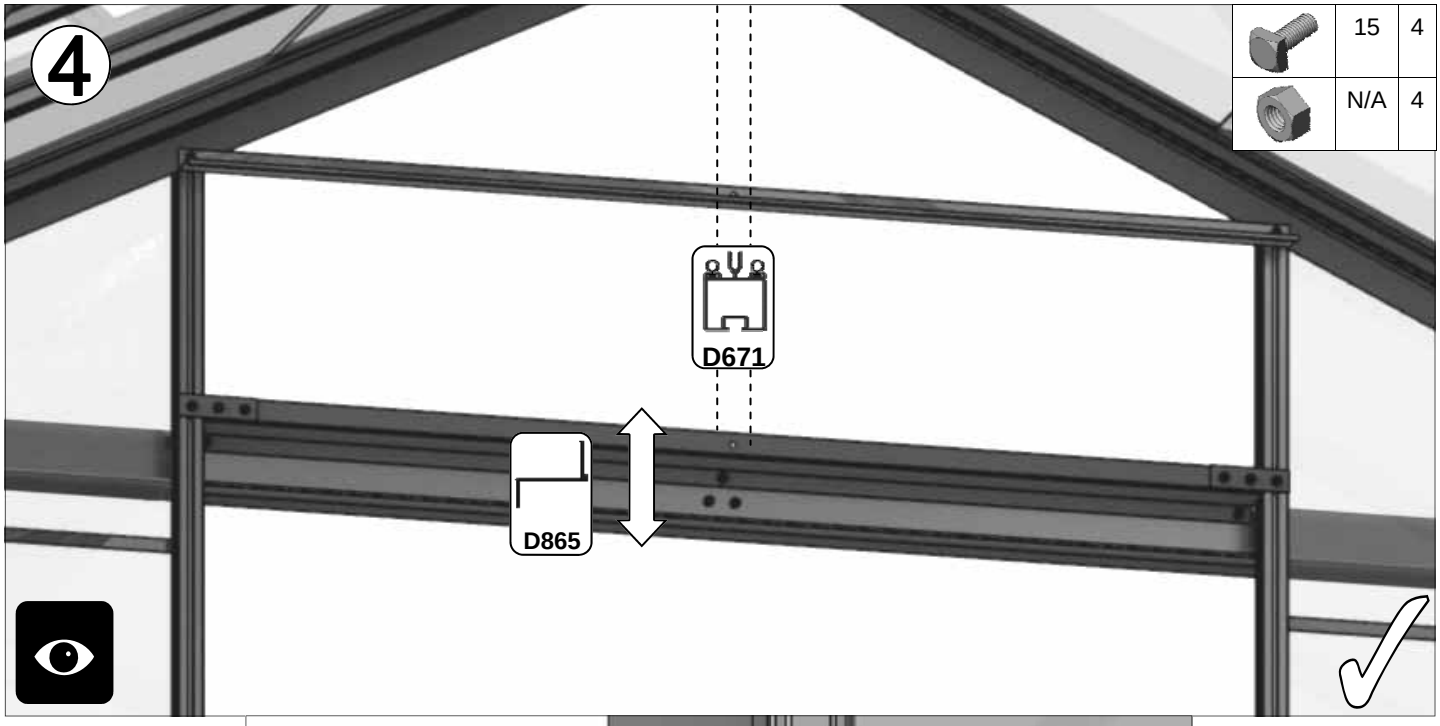


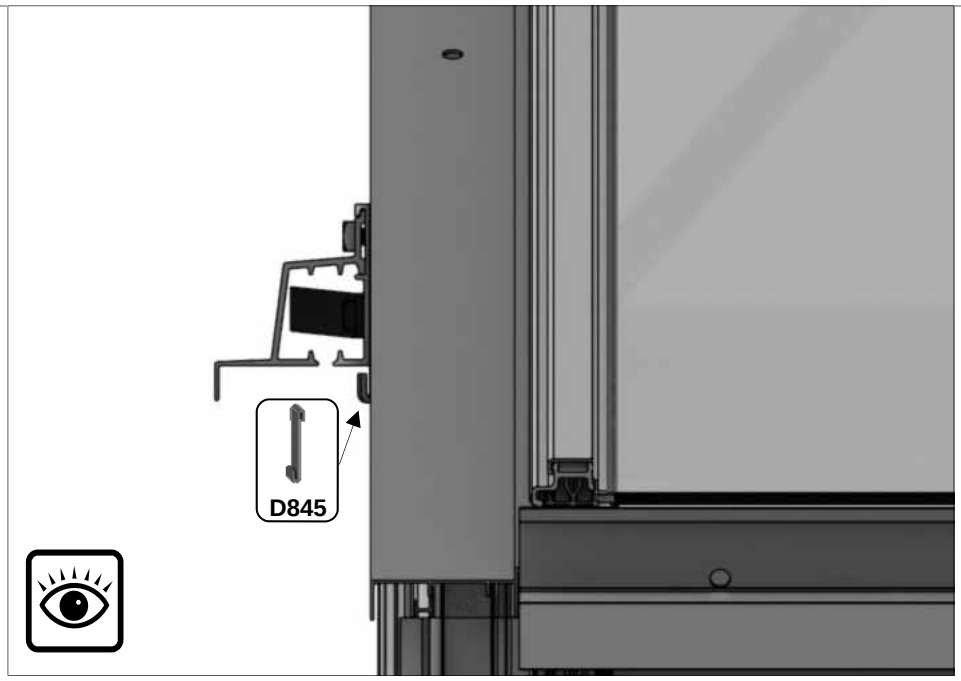




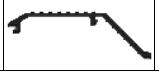
10

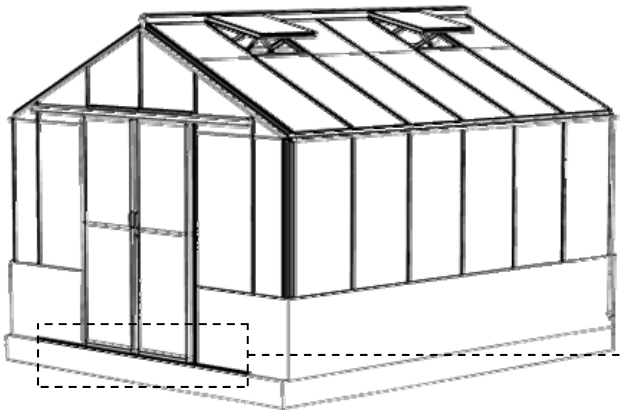


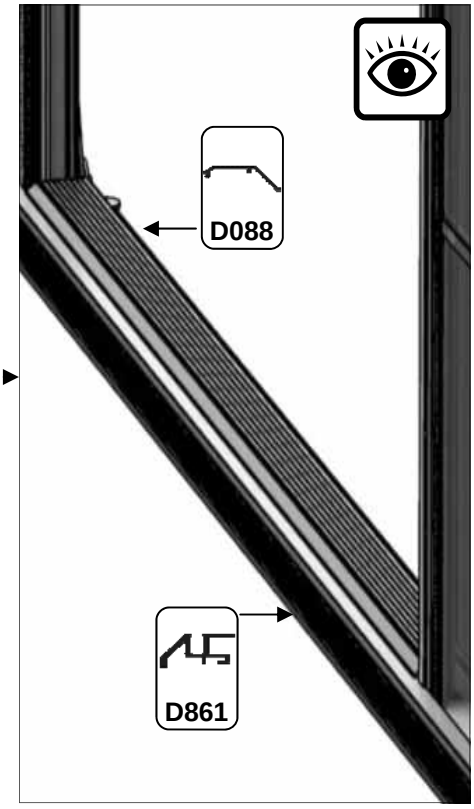




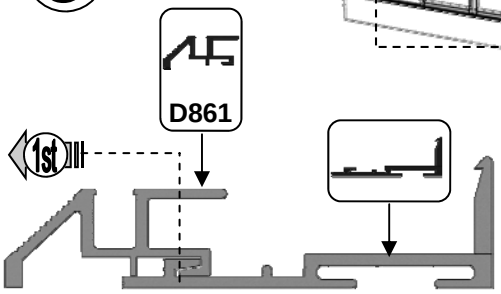
10

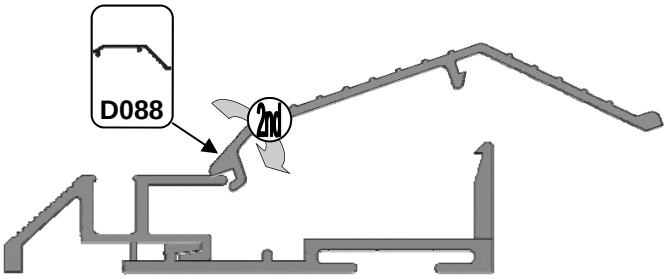
Part No		Q
D861		1
D088		1

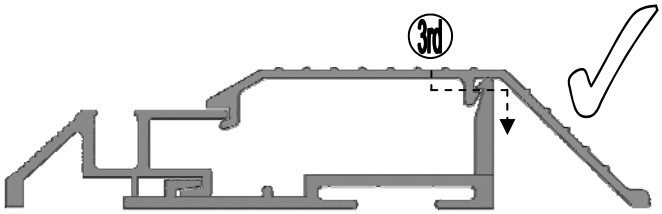




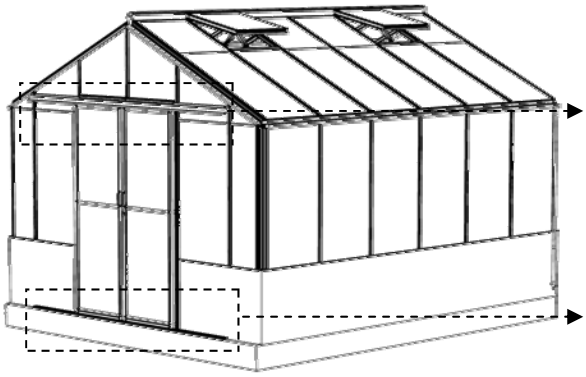
5

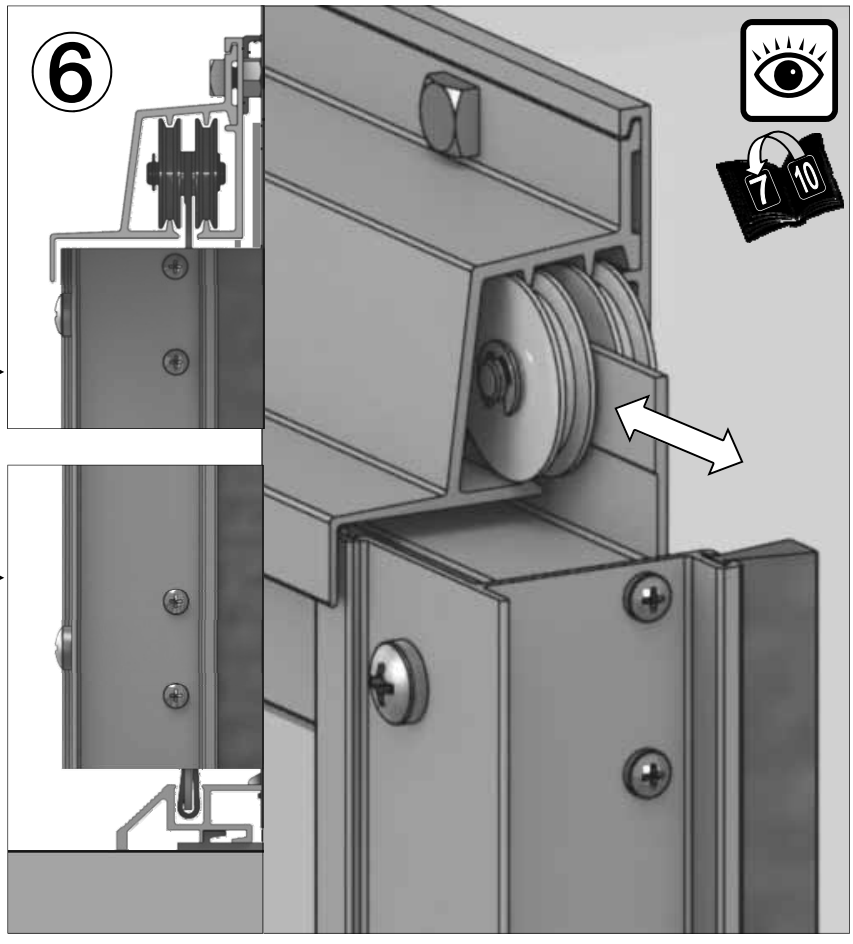




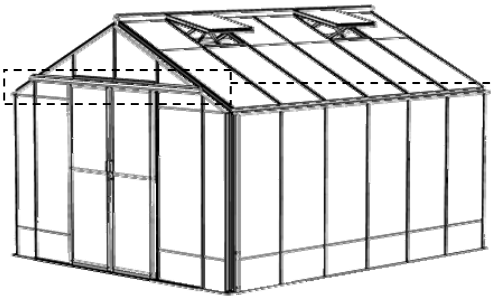


6

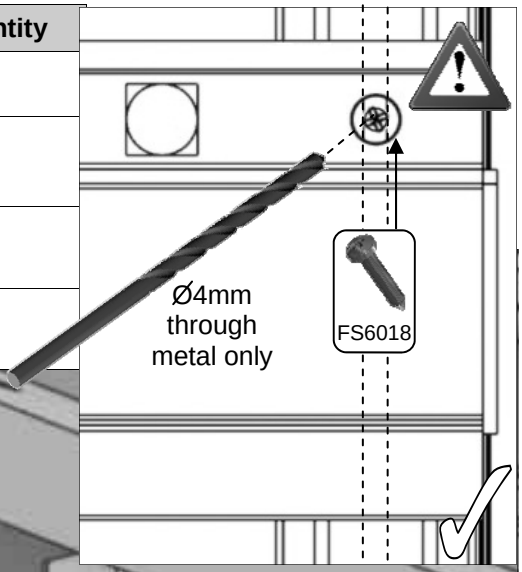


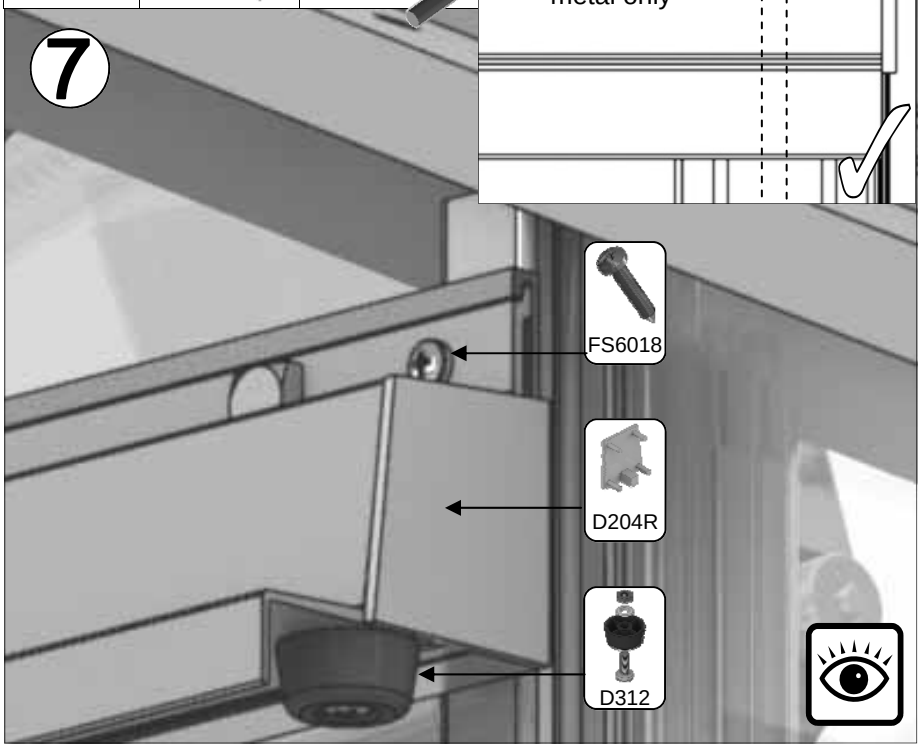


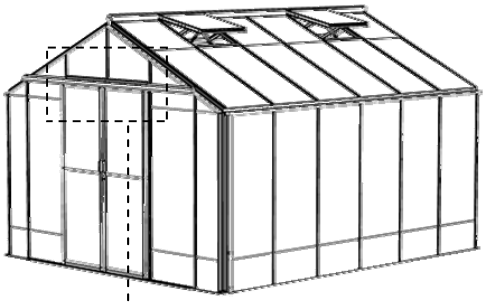
10



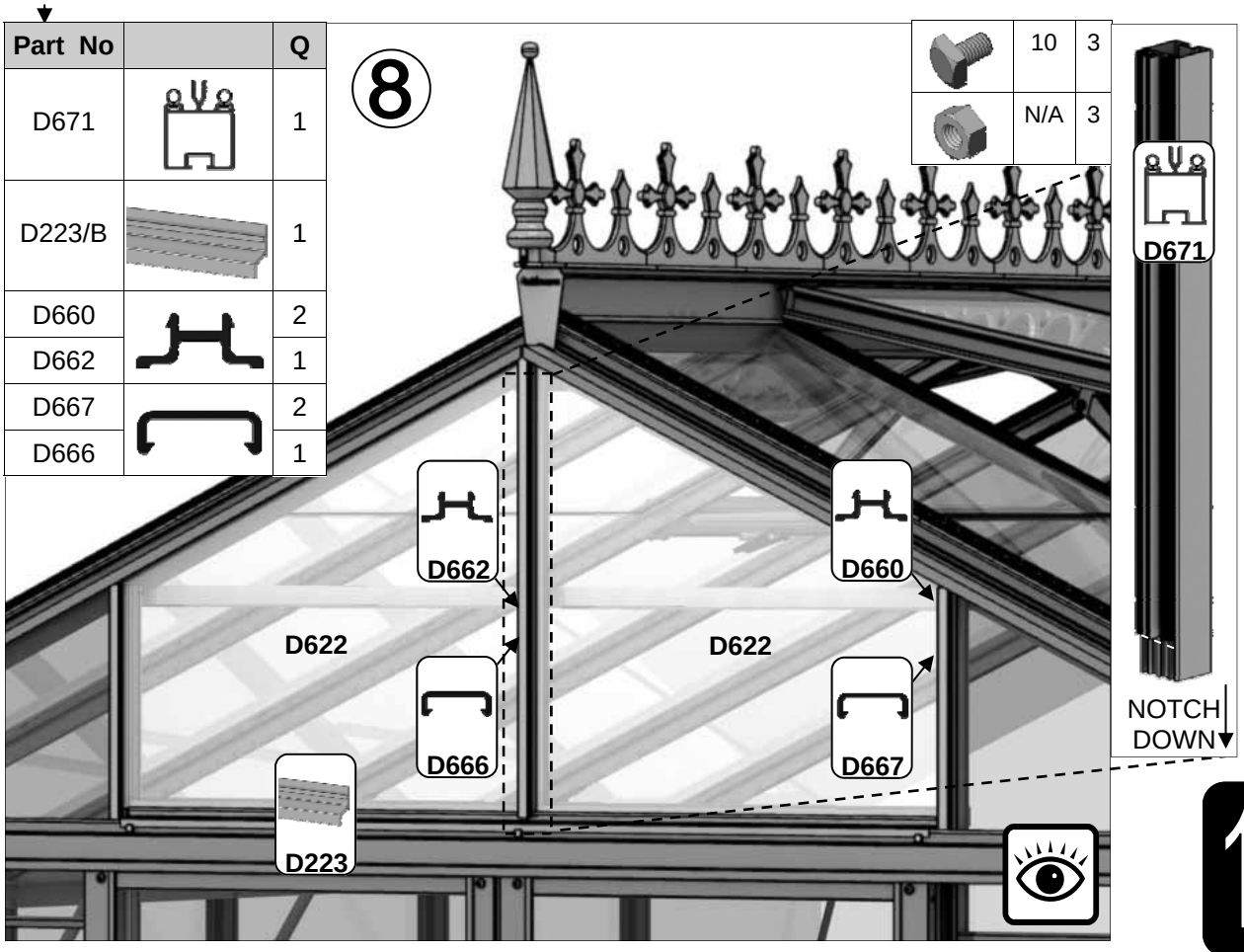
Part No		Quantity
FS6018		2
D312		2
D204L /B		1
D204R /B		1

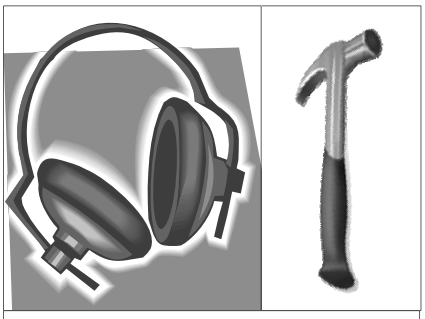


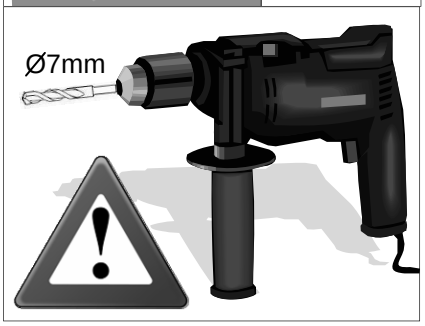


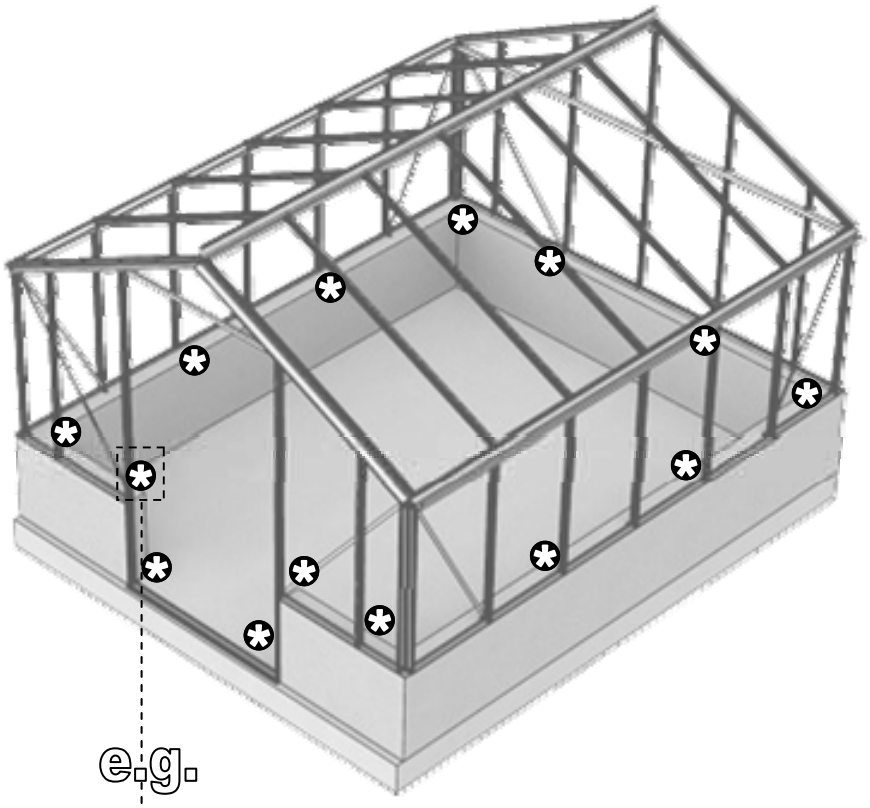


Part No		Q
D671		1
D223/B		1
D660		2
D662		1
D667		2
D666		1

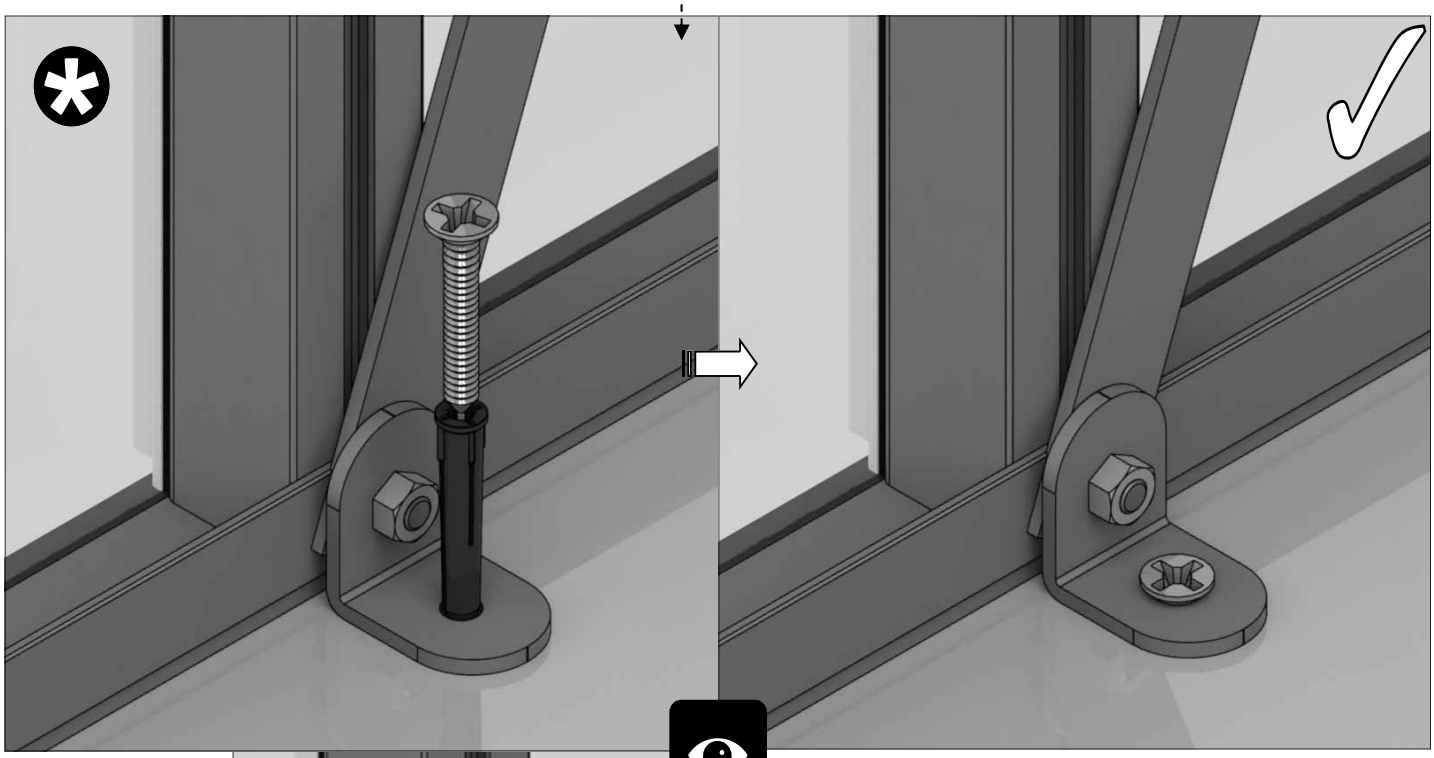


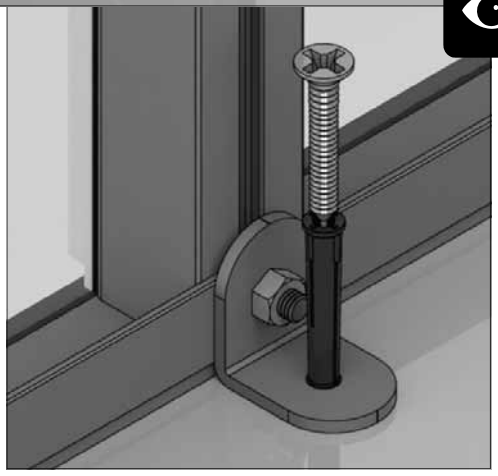




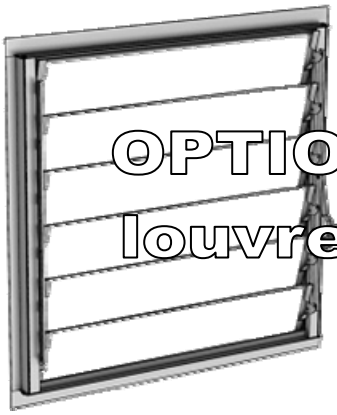


e.g.



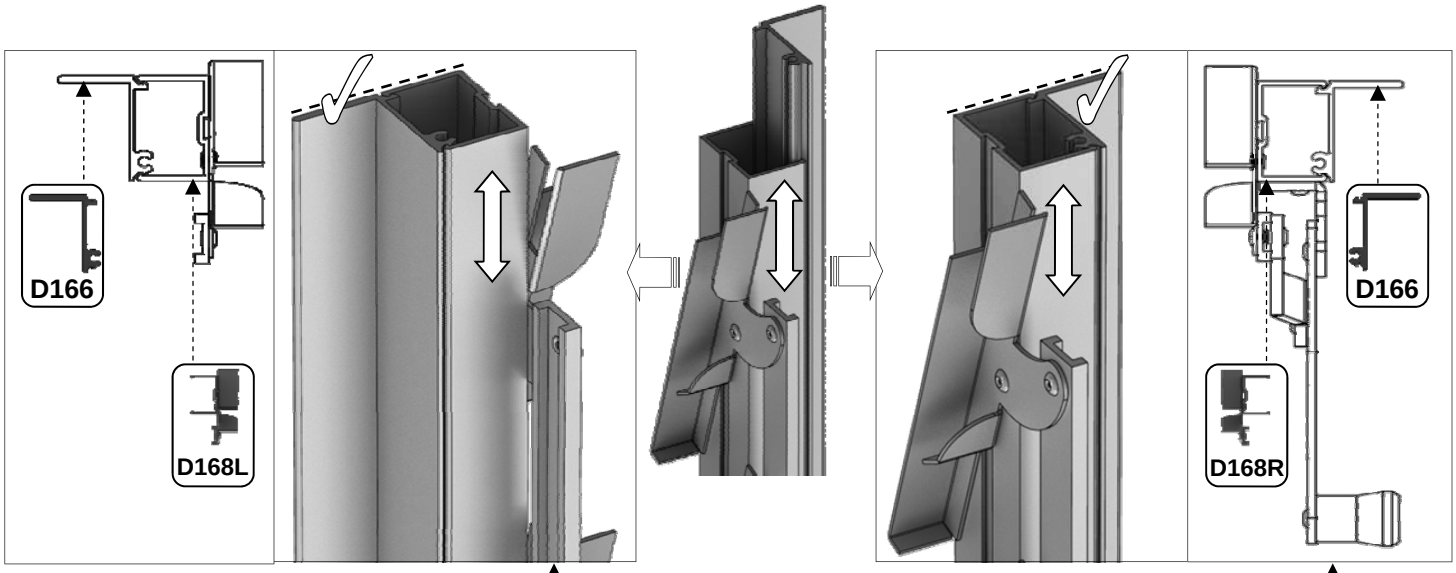


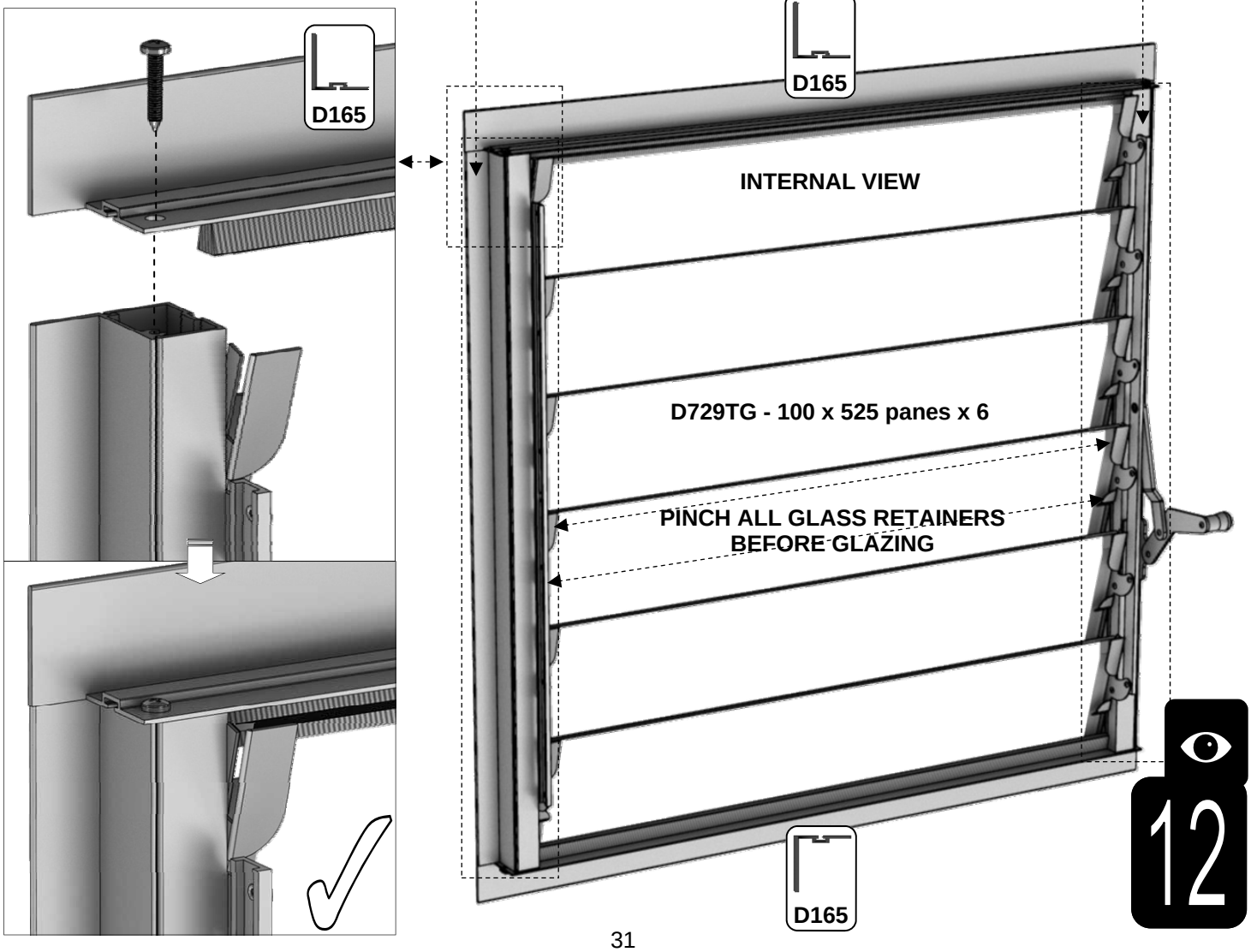
11



OPTIONAL louvre = {

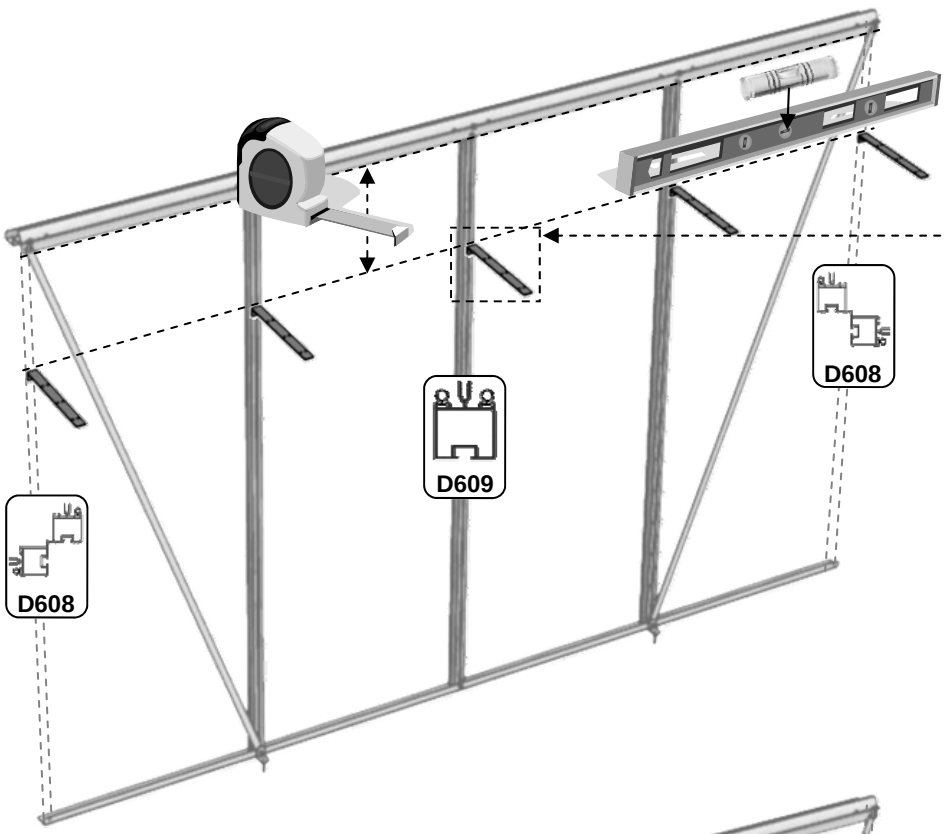
Part No		mm	Quantity
D168L		552	1
D168R (handle)		552	1
D165		612	2
D166		552	2
FS6013		12	4

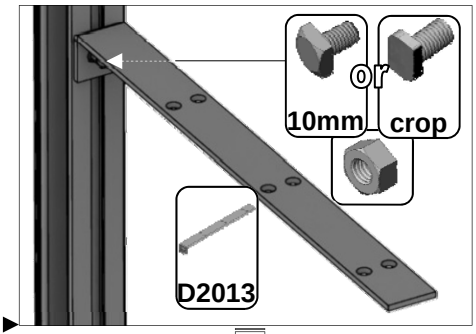


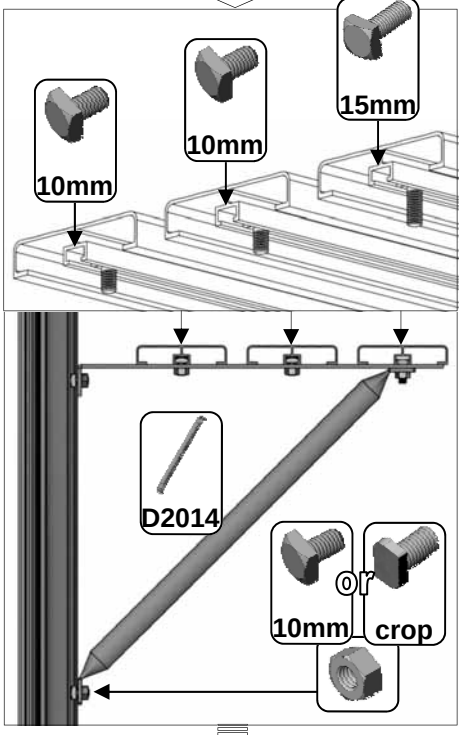


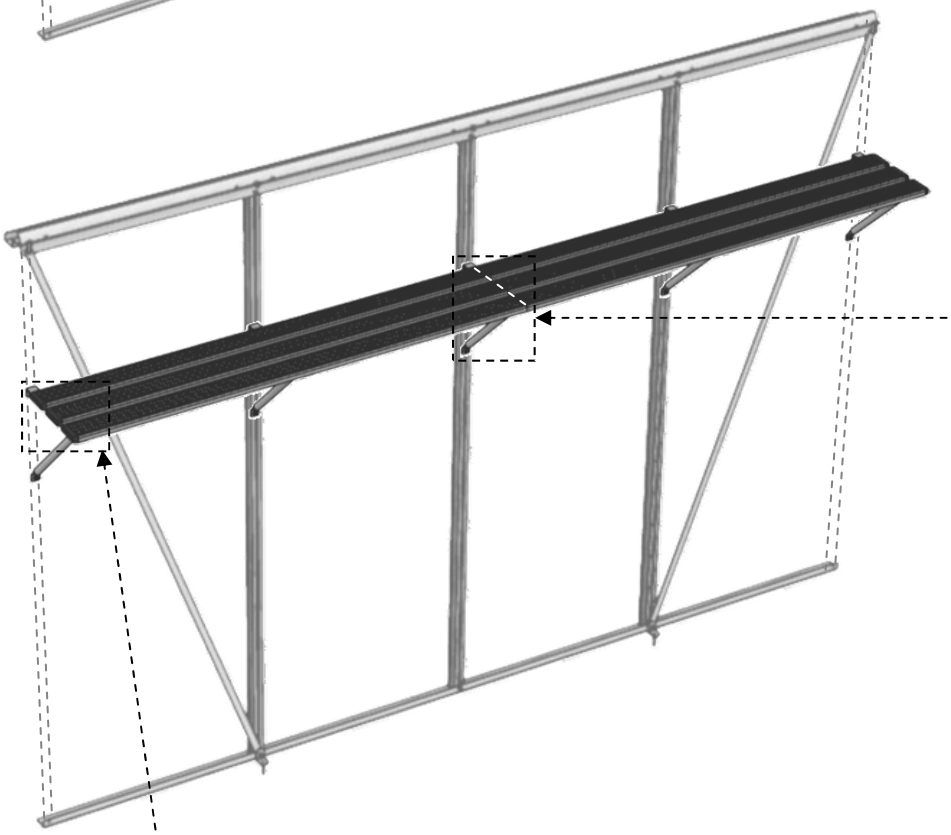
12

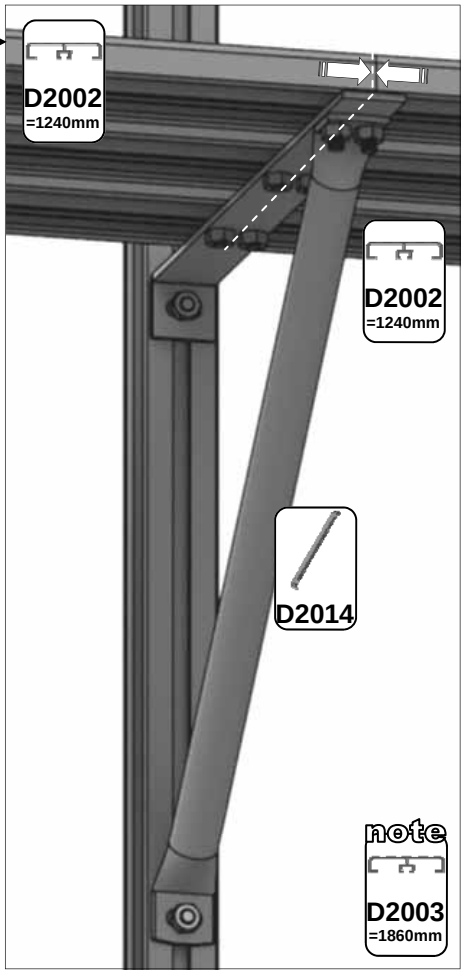
Example: 2x 4' 3 slat shelves 'ST0304' = 8' run

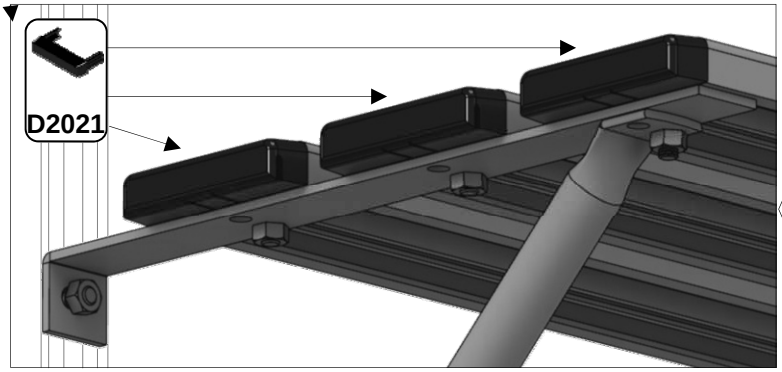






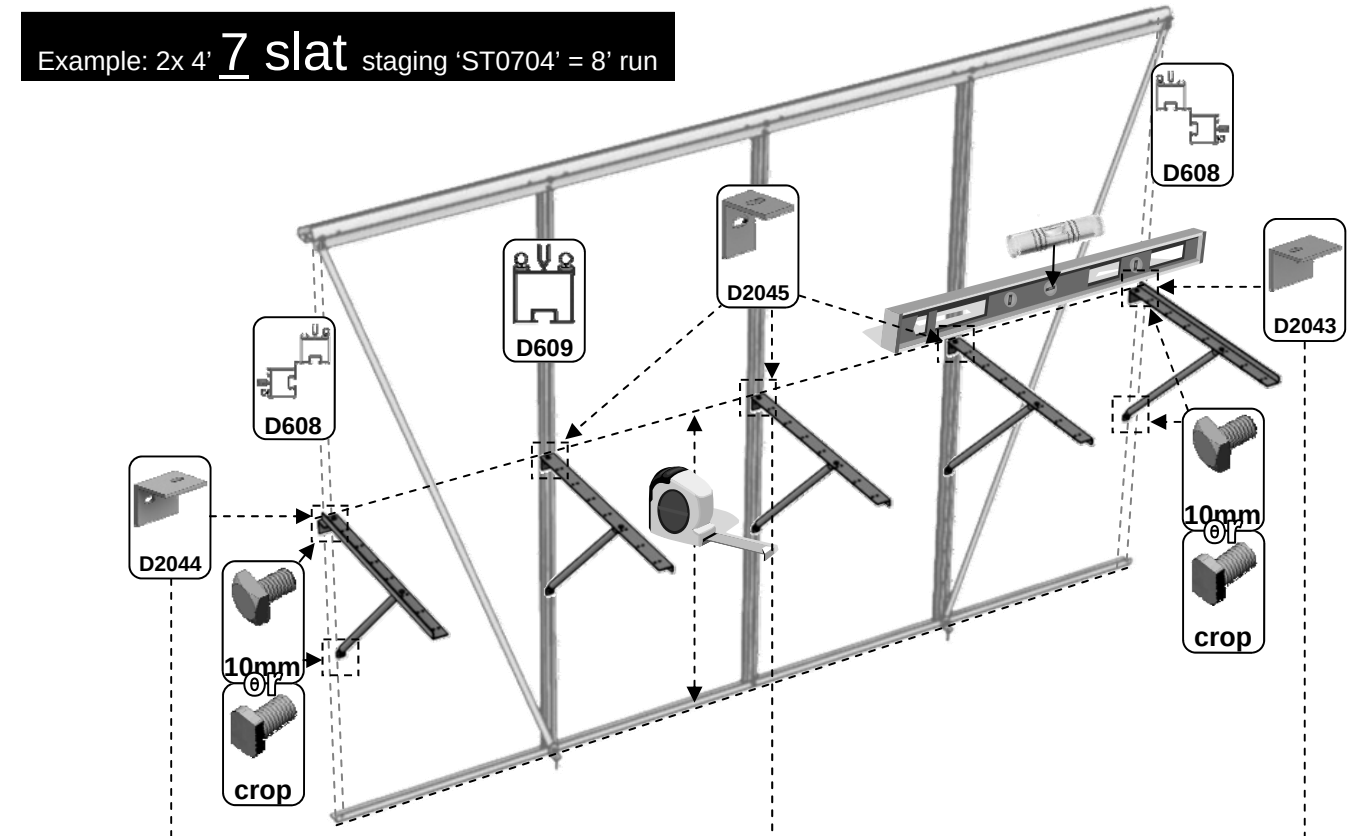


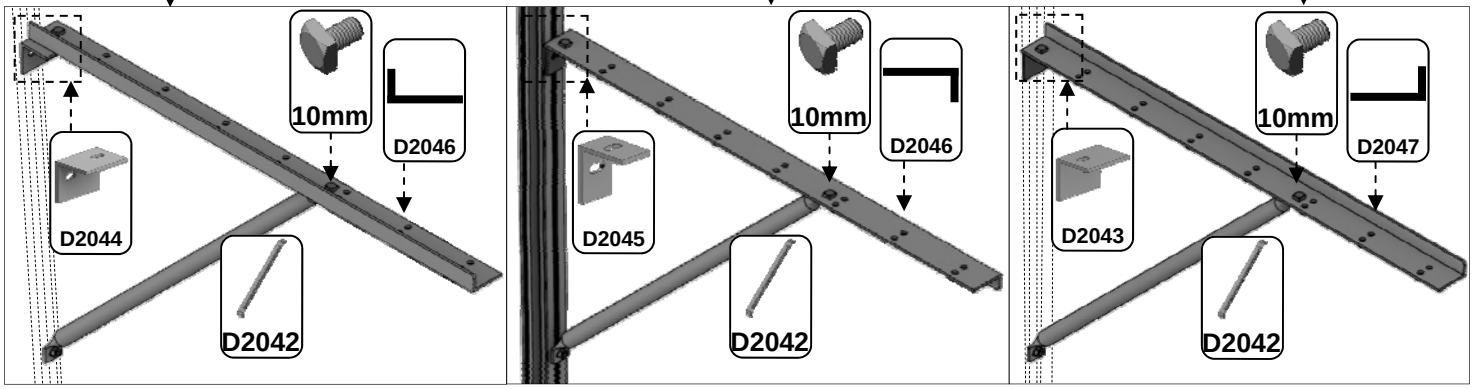


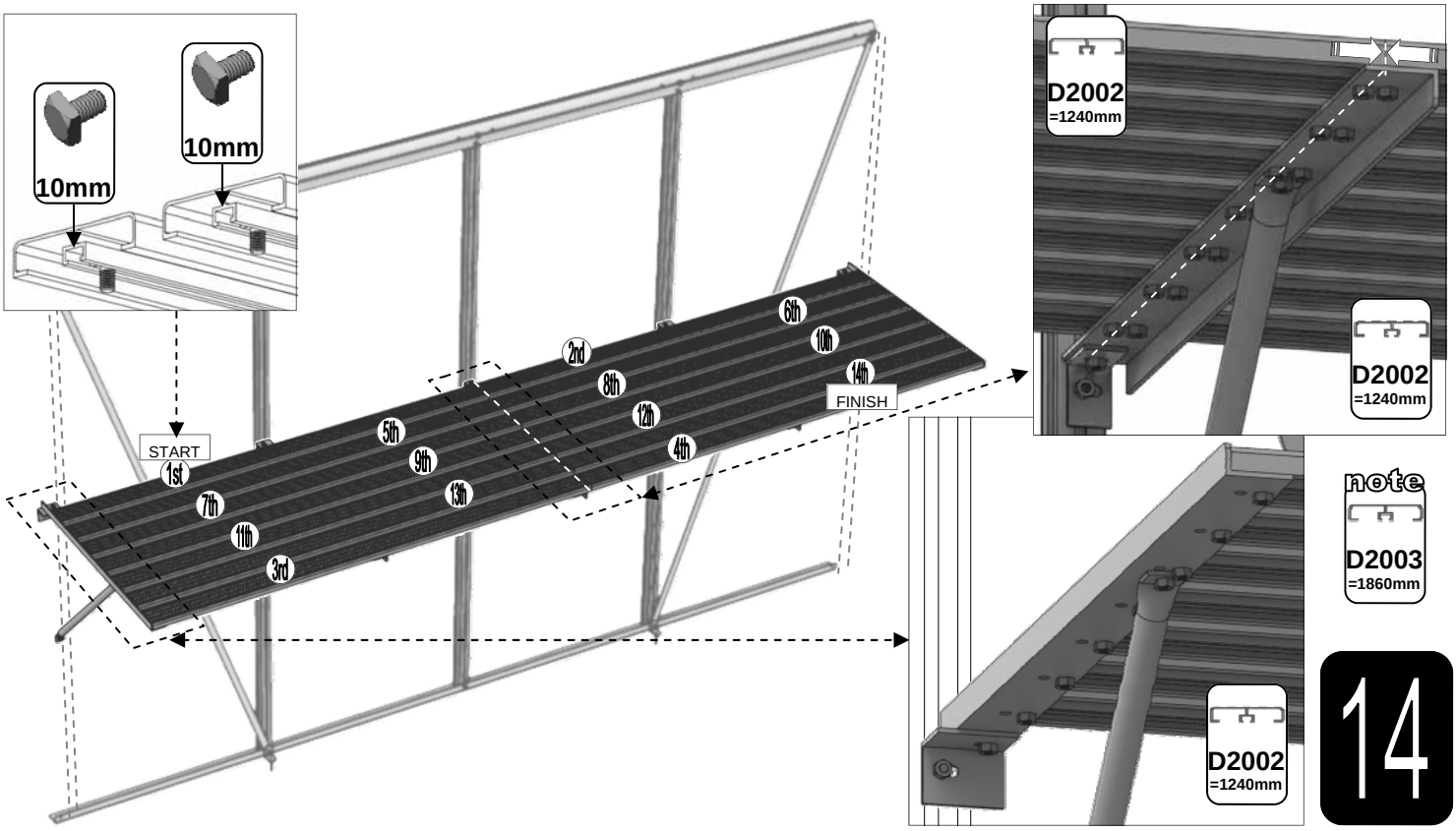


13

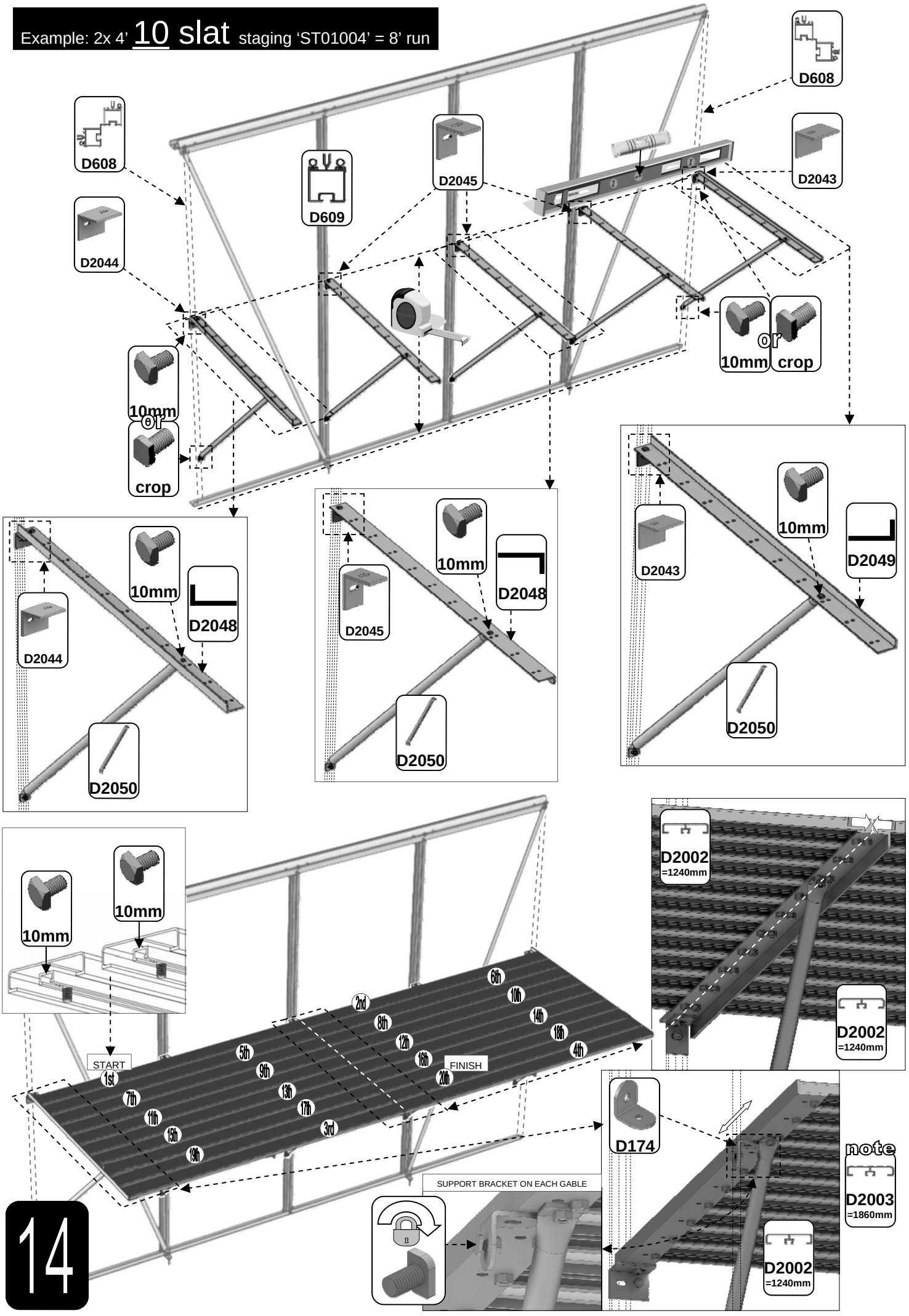
Example: 2x 4' 7 slat staging 'ST0704' = 8' run



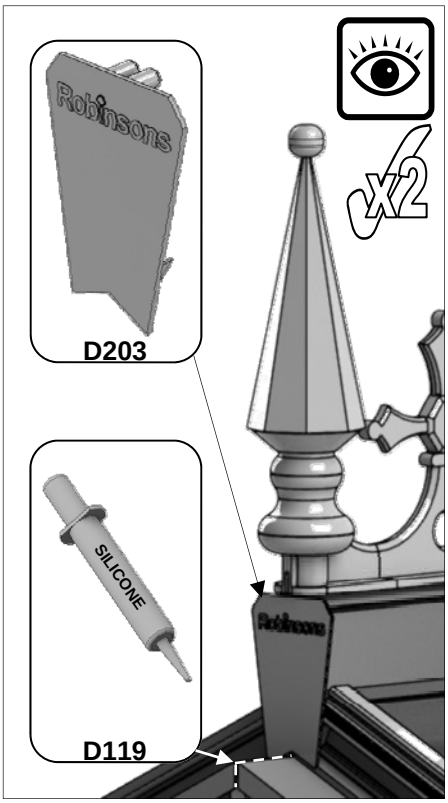


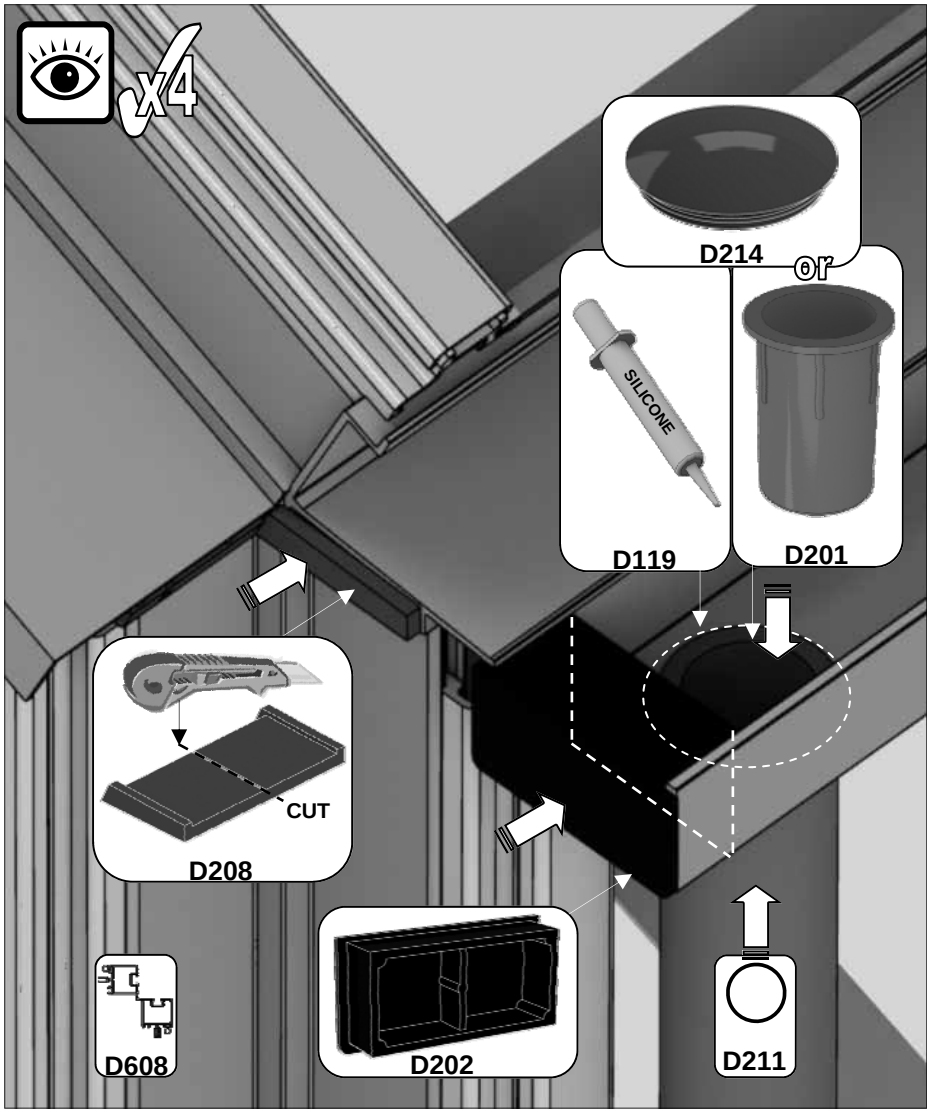


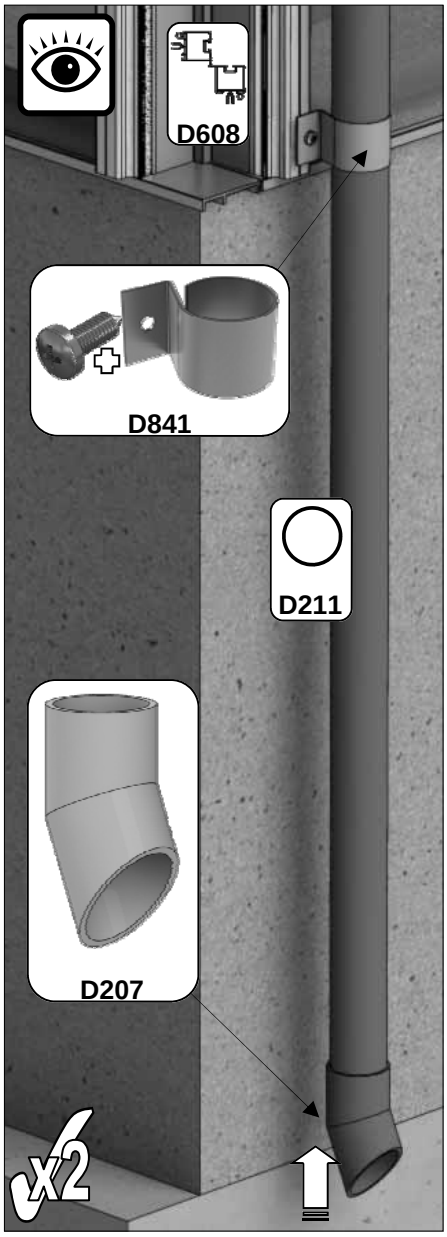
Example: 2x 4' 10 slat staging 'ST01004' = 8' run

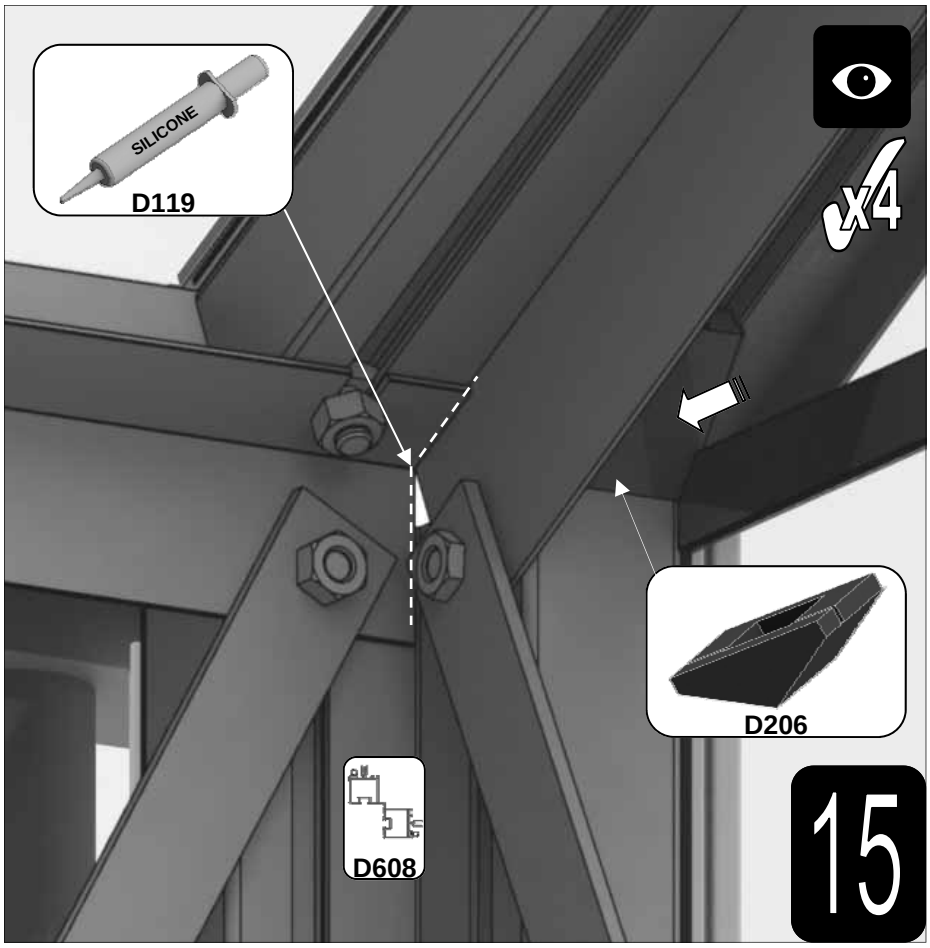


14


Robinsons
x2
D203
SILICONE
D119
Robinsons

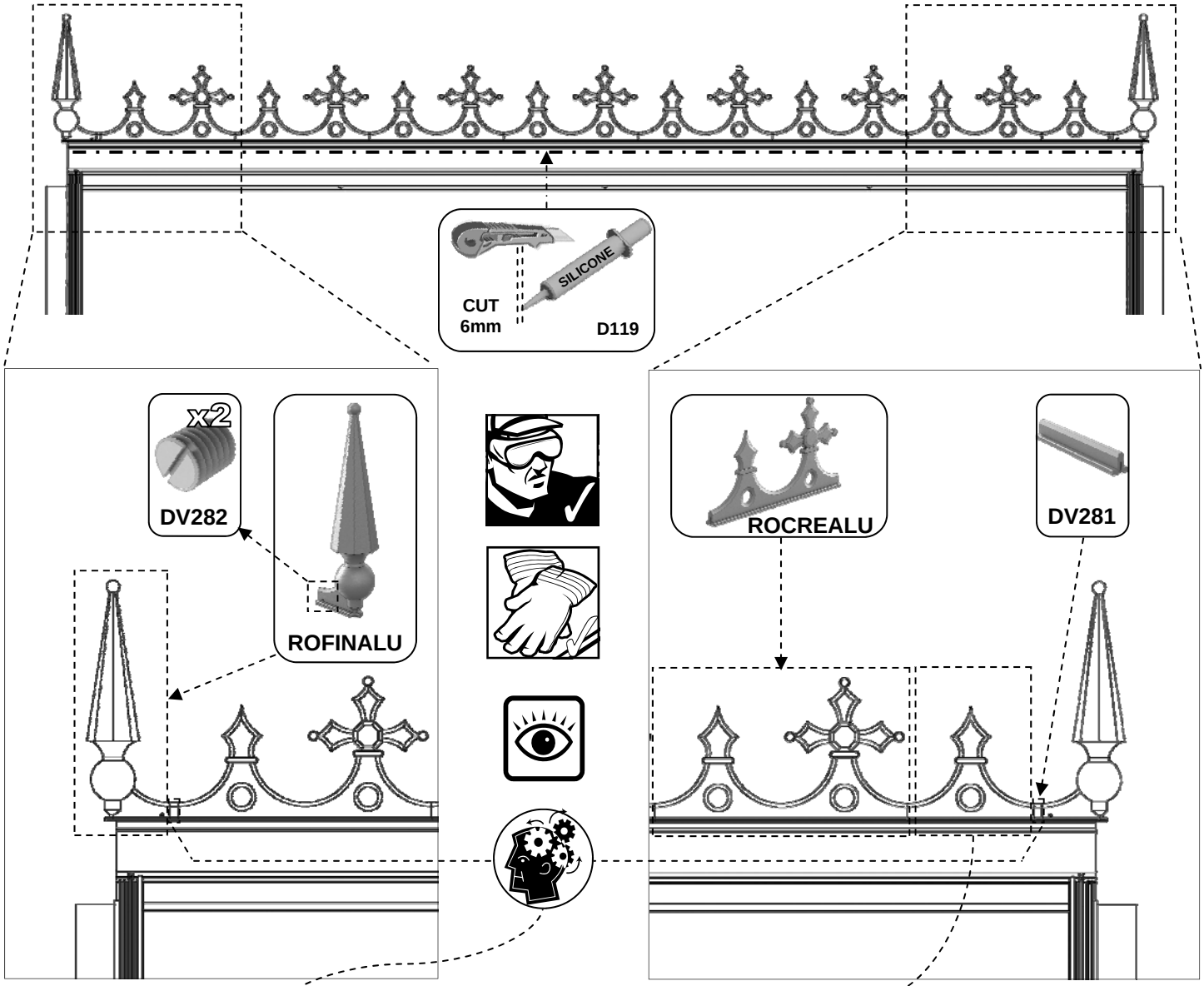

x4
D214
or
SILICONE
D119
D201
CUT
D208
D608
D202
D211

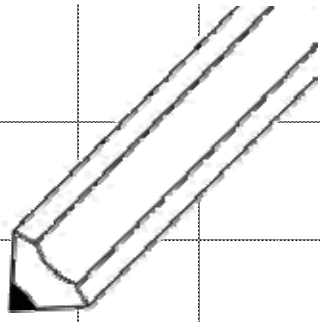

D608
D841
D211
D207
x2


SILICONE
D119
x4
D206
D608
15

OPTIONAL cresting = {

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





The Greenhouse People

The Dwarf wall model shown throughout this help sheet is a Royale on a 2' (610mm) wall. Some of the other models also have a dwarf wall option. The information shown in the pictures is however, relevant to all models.

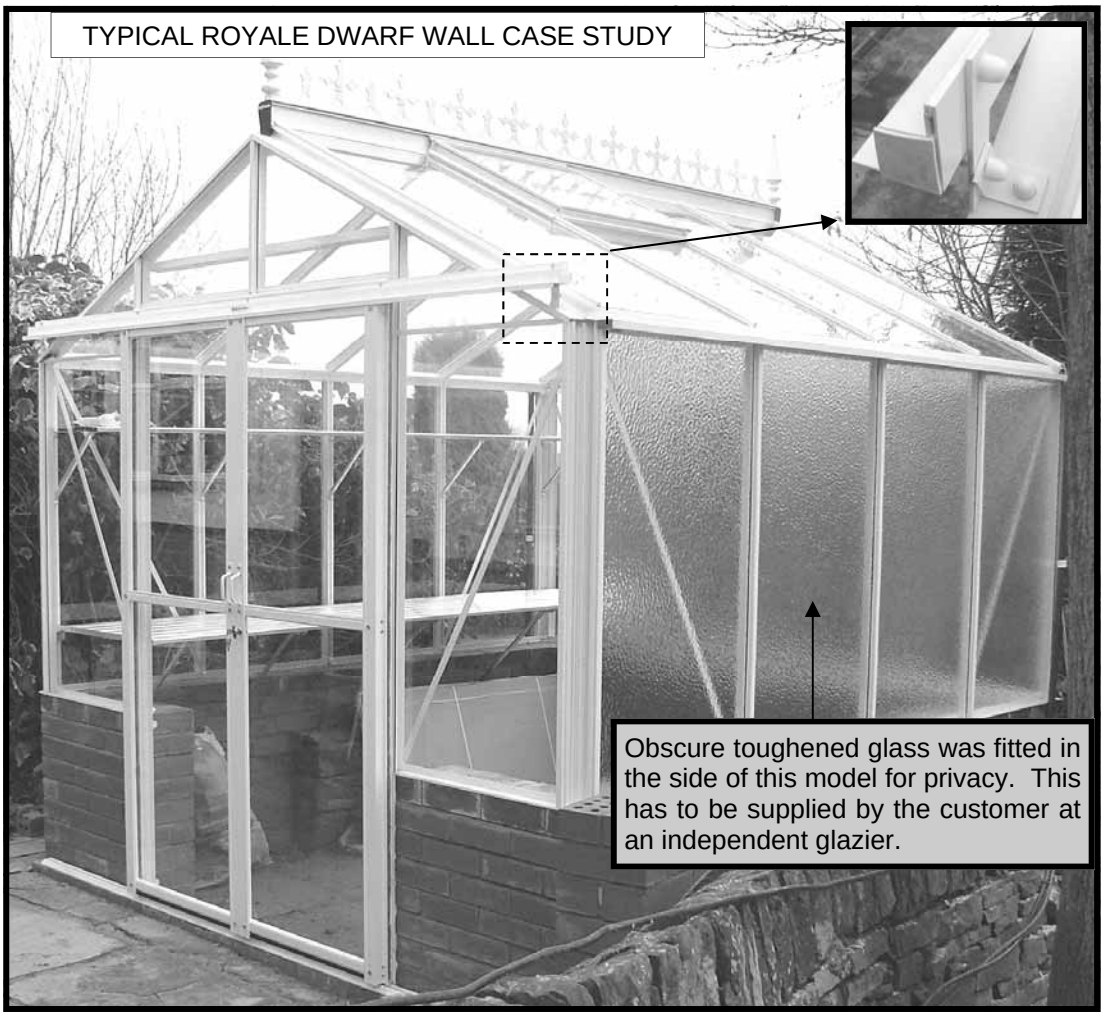
USEFUL INFORMATION:

ROBINSONS VENTS are slid into position down the ridge.

AUTOVENTS come as standard on each window allowing automatic climate / airflow in your greenhouse.

ROOF BAR CAPPING:
The bar capping in your roof comes in two sections and is then covered with a longer full length cover cap.

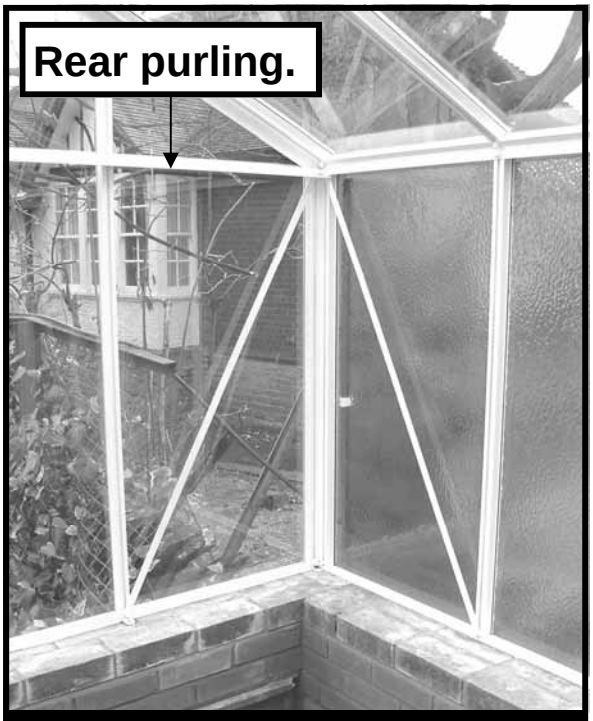
TYPICAL ROYALE DWARF WALL CASE STUDY



Obscure toughened glass was fitted in the side of this model for privacy. This has to be supplied by the customer at an independent glazier.

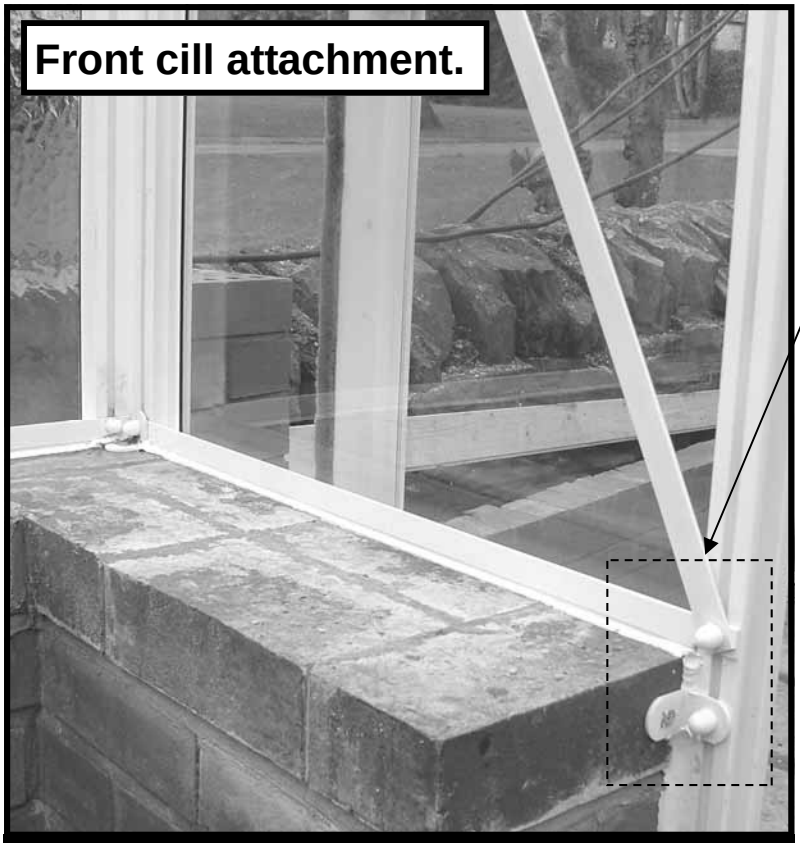
4' Front purling.

It should be fitted above the door to give extra strength horizontally across from the roof bars. If you are having difficulty getting the holes to line up push upwards on the ridge and its adjoining roof bars.



Internal view of rear right hand corner. The rear purling is seen on this picture which spans the back of the green house. Extra bolts need to be slid into each vertical glazing channel in the rear to allow the purling to be attached. In this case the purling is fitted at the ends using the same long bolt that joins the roof and side corner bars together. At this height the purling will not interfere with any shelving that you may have. A separate bolt can be used in the corners if you wish.

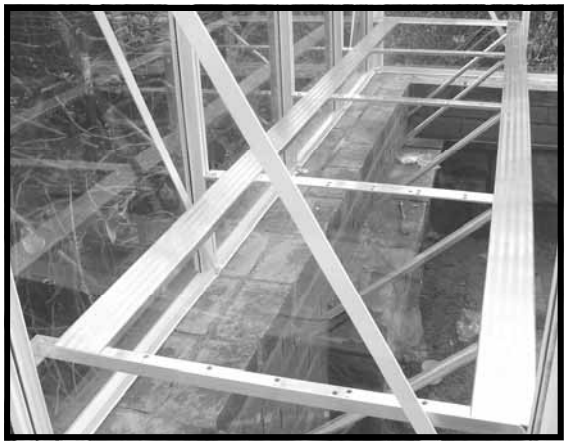
Front cill attachment.

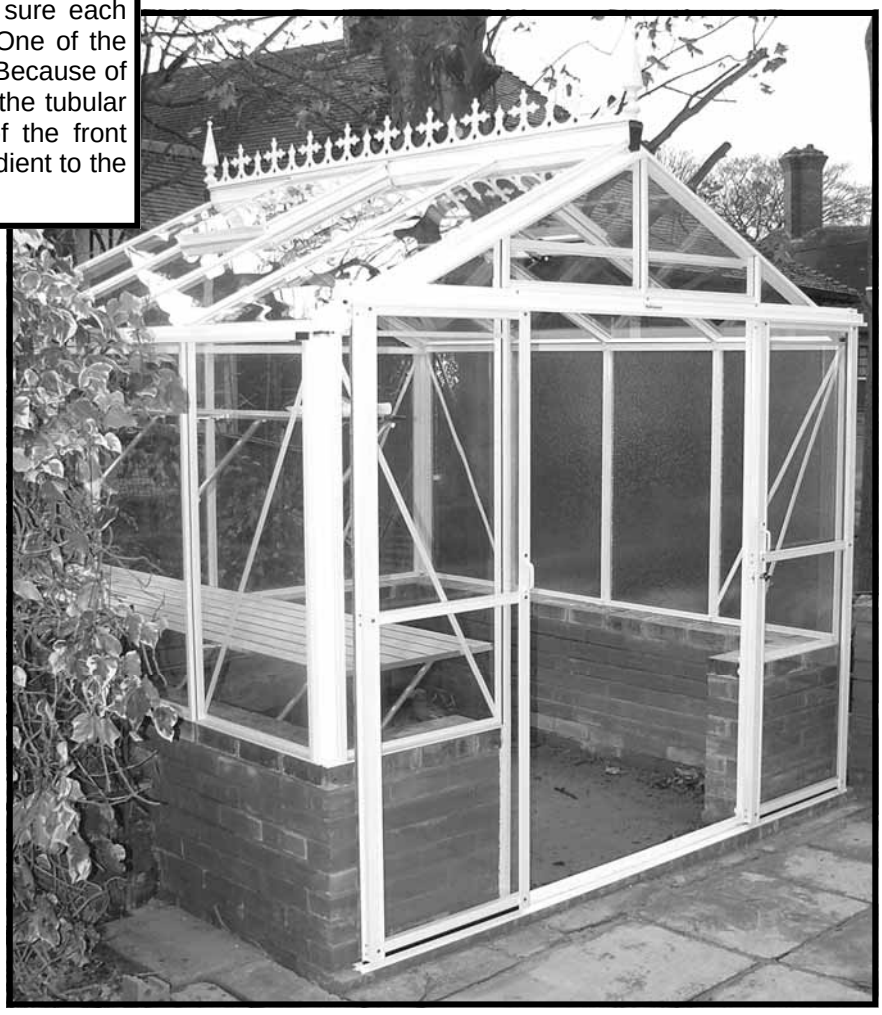


You can utilise your base brackets to join the frame to your dwarf wall.

Fixing staging in a dwarf wall model.

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





Please be aware that this is a 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