

This is different to the one in the box this is a Demo copy for a new manual, please try and use this or give it to whomever is fitting the building and help us spot anything we might have missed and report anything found to,
henry.baggaley@greenhousepeople.co.uk

Model

HE-TRA



For base plan see rear,
or pages 6 and 7

6' Wide

ASSEMBLY INSTRUCTIONS

ISSUE 3

Dear Customer,

Thank you for ordering your new greenhouse from us. We hope you find these instructions along with each member of 'The Greenhouse People' team helpful and informative.

Please read all information before you begin and take care to read all instructions it will save you a lot of **time** and **frustration** later on. This instruction manual is also available online at www.greenhousepeople.co.uk in our technical help section where you can zoom in on all the pictures and text and reprint a copy if your manual gets left out in the rain.

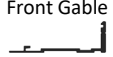
If you want any more advice, you can always give us a ring on 01782 388811.

Once again, thank you for your order and all the very best with your greenhouse.

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Sec- tion	Part No.	Profile	Size (mm)	Quantity (For Every Length)
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F R O N T	HE 300	Base Bracket 	-	5
	HE 308	Front Purling 	638	4
	HE 315	Flat Bracing 	1,779	2
	HE 333	Front Gable 	1,888	1
	HE 404	Door Track Support Bracket 	-	2
	HE 405	Door Track Main Support 	612	1
	HE 409	Glazing Bar Roof Corner L 	1,130	1
	HE 415	Glazing Bar Roof Corner R 	1,130	1
	HE 430	Glazing Bar Corner Side 	1,670	2
	HE 438	Glazing Bar FR8 	2,075	2
	HE 500	Ridge Plate 	-	1
	Rubber		1000	20m
	HE 508	Door Track Support 	252	1
	HE 400	Door stop 	40	1
	HE 402	Door Track 	1,320	1
	HE 374	Door Runner 	1,320	1
	HE 525	Threshold 	588	1
	HE 401	Door Strike 	80	1

Sec- tion	Part No.	Profile	Size (mm)	6 4	6 6	6 8	6 10	6 12
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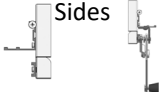
R E A R	HE300	Base bracket 	-	4				
	HE315	Bracing, flat 	1,779	2				
	HE314	Rear Purling 	1,876	2				
	HE333	Rear Gable 	1,888	1				
	HE409	Glazing Bar Roof Corner L 	1,130	1				
	HE415	Glazing Bar Roof Corner R 	1,130	1				
	HE430	Glazing bar Corner Side 	1,670	2				
	HE438	Glazing Bar FR8 	2,075	2				
	HE500	Ridge plate 	-	1				
	Rubber		1000 (1m)	23m				

S I D E S	HE300	Base bracket 	-	2	4	4	4	4
	HE303	Diagonal Bracing 	1,742	4				
	HE354	Side Cill 	3,748					2
	HE353		3,128				2	
	HE352		2,508			2		
	HE351		1,888		2			
	HE350		1,268	2				
	HE447	Side Glazing Bar 	1,670	2	4	6	8	10
	HE464	Gutter 	3,748					2
	HE463		3,128				2	
	HE462		2,508			2		
	HE461		1,888		2			
	HE460		1,268	2				

G L A Z I N G	HE577	Glazing Clip 	-	10				
	HE557	Glass Jack 	590	1				

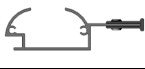
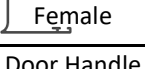
Section	Part	Profile	Size (mm)	6	6	6	6	6
	No.			4	6	8	10	12

R O O F	HE443	Roof Glazing Bar 	1,130	2	4	6	8	10
	HE484	Ridge 	3,748					1
	HE483		3,128					1
	HE482		2,508			1		
	HE481		1,888		1			
	HE480		1,268	1				
	HE600	Ridge Cantilever 3 	608	1	2	3	4	5
	HE601	Eaves Cantilever 	460	2	4	6	8	10
	HE690	Hanging Basket Rail 	3,748					2
	HE689		3,128					2
	HE688		2,508			2		
	HE687		1,888		2			
	HE686		1,268	2				

L O U V R E AILOV/C	-	Top/Bottom 	592	2				
	-	Sides 	444	2				
	-	CL1044 	10	4				
	-	SYBOLM6x11CROP 	10	4				
	-	SYNUTM6 	-	4				

H E V E N T/ C	HE540	Vent Bottom 	590	1	1	2	2	2
	HE541	Vent Side 	604	2	2	4	4	4
	HE543	Vent Top 	650	1	1	2	2	2
	HE542	Slam Bar (+Pegs) 	647	1	1	2	2	2
	HE330 / SYSTAY	Casement Stay 		1	1	2	2	2

Section	Part No.	Profile	Size (mm)	6	6	6	6	6
				4	6	8	10	12

D O O R	HE707 (HE371 + Door skid)	Door Bottom 	618	1				
	HE708 (HE701 + wheels)	Door Top 	618	1				
	HE373	Door Middle 	618	1				
	HE717 (HE377 + Lock)	Door Stile with Lock 	1,880	1				
	HE379	Door Stile Female 	1,880	1				
	HE384	Door Handle 	112	1				
	HE558	Edging Strip 	870	4				
	HE560	Door Stop Bung 	50	2				
	HE571	Draught Excluder 	3,800	1 Roll				

S M A L L S	HE583	Self Tapping Screw 	19mm	18	18	22	26	30
	HE576	M6 Bolt 	10mm	105	119	139	159	179
	HE579	M6 Nut 	M6	134	150	178	202	226
	F1622B	Nut Caps 	-	130	146	170	194	218
	HE588	M6 Bolt 	15mm	23	25	27	29	31

Capping	Part No.	Destination	Size (mm)	6	6	6	6	6
				4	6	8	10	12

6' W FRONT 	HE831	Top Side Door	124mm	2				
	HE832	Front & Rear	2075mm	2				
	HE834	Corner Bar/Sides	1670mm	4				

6' W REAR 	HE832	Front & Rear	2075mm	4				
	HE834	Corner Bar/Sides	1670mm	4				

SIDES 	HE834	Sides	1670mm	8	12	16	20	24
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ROOF 	HE833	Roof	1140mm	8	12	16	20	24
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Note: You may want to keep your capping in a warm environment before you install it as it will make it easier to fit.

BASE PREPARATION

You have quite a choice in terms of the style of base that you can prepare. The most important objective is that it is level. The different styles of bases that we recommend are as follows:

Note: Your greenhouse size is only nominal, for example a 6 X 8 greenhouse is not exactly 6' by 8'! It will actually be 1955mm x 2614mm. So be careful when building your base as mistakes on the size of your base are difficult to correct later. Also we don't recommend building your greenhouse directly onto soil.

1. **Slabs** - Level paving slabs are ideal for a greenhouse base. Make sure the area of slabs is either the same size or larger than the footprint of the greenhouse. Slabs are also good for drainage because of the joints between them. If you put a polythene sheet or similar barriers underneath, this could prevent drainage. You can also lay your slabs out as a perimeter around the edge of the building with a path up the middle if you want to grow directly from the soil.

RECOMMENDED

2. **Concrete Plinth** - This is a simple footing around the edge of the greenhouse. You can do this by digging a small trench about 4-6" deep by 6" wide. As with all bases ensure that it is level along the length as well as side to side. If you don't have a long level then you could use a long bar or straight piece of wood under your level to get a more accurate reading. This is probably the cheapest and easiest base to build which enables you to have soil inside so that you can grow straight from the ground.

3. **Solid Concrete** - This type of base is good from a structural point of view as you can get good fixings. It is also fine as far as drainage is concerned as long as the concrete is not sealed, painted or laid on a membrane.

Ways of increasing drainage are: When laying the concrete you could lay Aco drive drains to take surface water away or if the concrete is already laid you could simply drill through the concrete and create soakaways.

4. **Brick Base** - This is the traditional greenhouse base. It is usually 1 or 2 courses high but can be higher if required. This is a much more costly and difficult base to install. This is because you need to make a concrete footing first, then you need to lay the courses of bricks to the millimetre so that they fit the cill of the greenhouse perfectly.

However it does have an advantage, the cill overlaps the brick edge minimising water flow under the cill, which is important if you need to control the humidity and are using a de-humidifier etc.

Important: Always use a completely solid engineering brick for the top layer with no holes or frogs (such as Staffordshire Blue). This is because you'll need to anchor your greenhouse down by drilling and screwing into the bricks and if they have holes in then this is extremely difficult. If you are doing more than one course then you can use bricks with holes or frogs lower down where it will not matter.

Two different styles of base that we don't recommend:

1. **Block Paving** - This is not an ideal base for a greenhouse. This is because when you screw your greenhouse down you will only be screwing into loose blocks, which will not be a strong enough fixing.
2. **Tarmac** - Again not ideal because of the anchoring problems, and it is much harder to get a level surface. However if you do want to put your greenhouse on tarmac, then the way to anchor it will be as on soil. You can dig out spade width holes where each base bracket will situate and fill these with concrete, let it set, then when your greenhouse is in position you can screw into the concrete.

BASE PREPARATION

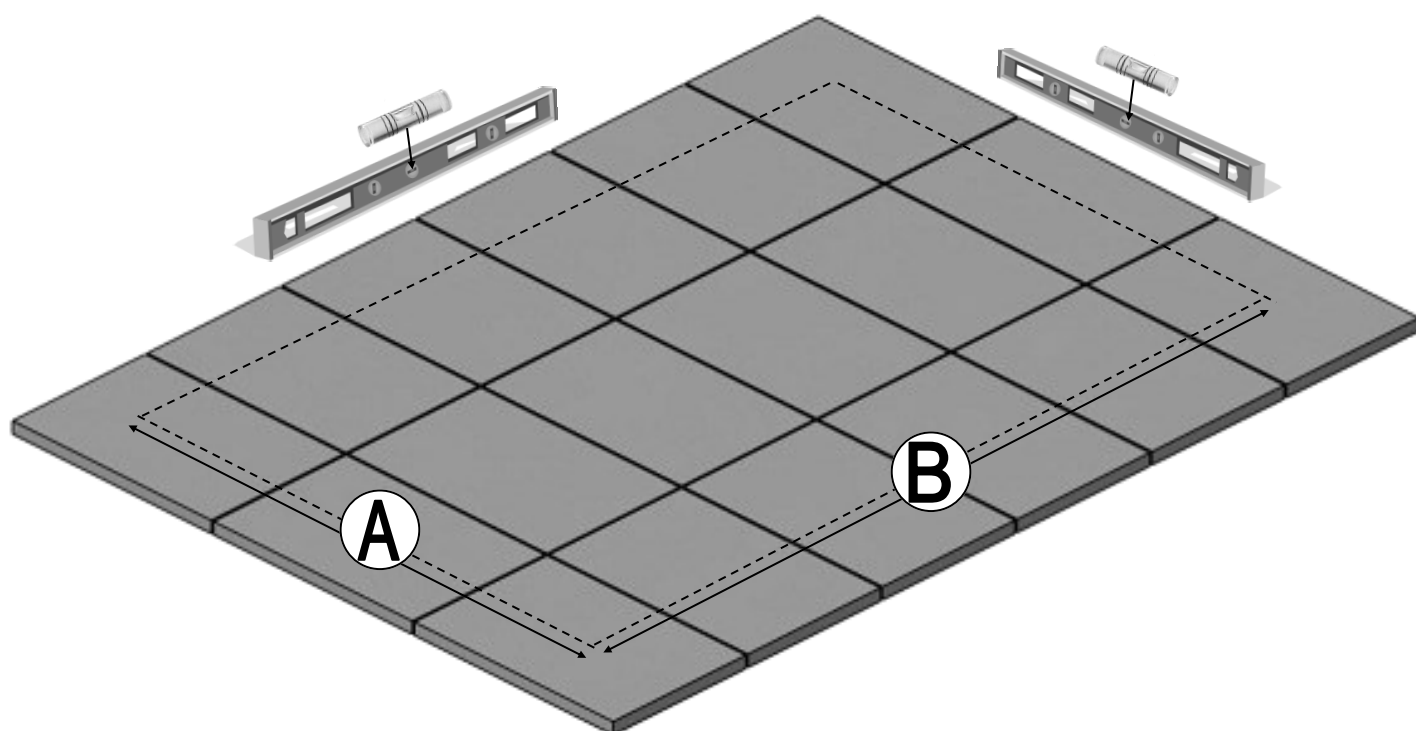
BRICK BASE

Size	Width (A)	Length (B)
	mm	mm
6 X 4	1955	1374
6 X 6	1955	1994
6 X 8	1955	2614
6 X 10	1955	3234
6 X 12	1955	3854
6 X 14	1955	4474
6 X 16	1955	5094
6 X 18	1955	5714
6 X 20	1955	6334
6 X 22	1955	6954
6 X 24	1955	7574
6 X 26	1955	8194
6 X 28	1955	8814
6 X 30	1955	9434

The following table gives the external dimensions for a brick base. Look for your building size in the left hand column and read across for the width and length.

The dimensions allow the lips of the cills to overhang. This helps prevent water running back into the greenhouse.

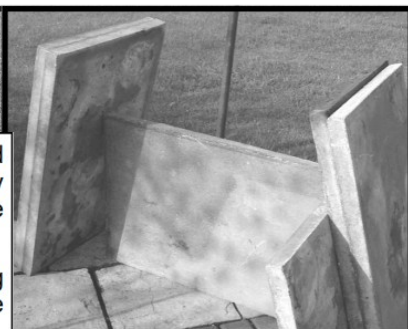
When building your base make sure the diagonal measurements are equal.



1

Mix DRY concreting sand and cement thoroughly and evenly with a spade and rake.

Please note: This slabbing technique should only be carried out on a dry day.



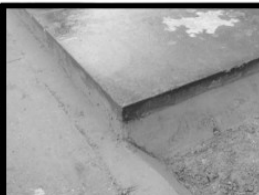
Slabs, ideally 3' x 2', 2" thickness.

2



Use a long spirit level (or shorter level on a straight plank) to drag out the sand / cement mixture until it is perfectly level. Start at one corner and work away from that point dragging and tapping down as you go. When you have levelled the sand / cement mix you can lay your slabs directly onto the mixture. You may need to give each slab a tap to make the top edges line up perfectly flush.

3



Finishing off the edges of your slabs with a slightly stronger mix of sand and cement will give a much neater finish.

Simply use a float to smooth the edges. Use a watering can to dampen the slabs at the end to remove any cement dust and to dampen the sand and cement below the slabs slightly.



When making a slab base like this you must make it larger than your greenhouse to ensure that it will easily fit. It is a good idea to have some space around any garden structure enabling cleaning and general maintenance access.



If you have any queries please do not hesitate to call us on
01782 385409

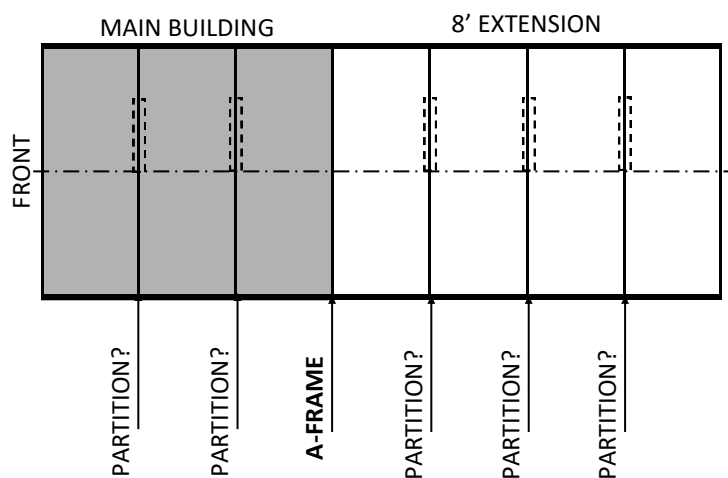
A-FRAMES AND PARTITIONS

Please be aware on buildings **longer than 12'** the **A-frame** supplied needs to be positioned were every extension join commences. Therefore if you are having a **partition** in your building it can NOT go on the join it will need to go 2' in front of the a-frame or 2' behind! Please also note that on a single door partition the door is **not central** to the building it is off to one side which may affect the location or width of your path.

Your partition

All extensions are 8' long so for example on a 14' long building it consists of a 6' long building with an 8' extension. If you are adding a partition to a 14' building therefore it can NOT be fitted 6' from the front of the building, see diagram below.

14' EXAMPLE SHOWN BELOW WITH A-FRAME AND PARTITION OPTIONS



Other examples,

1. a 20' long building will consist of a 12' long building with an 8' long extension
2. a 22' long building will consist of an 6' long building with two 8' extensions

SAFETY

Toughened Glass

VERY IMPORTANT INFORMATION

Please take extra **CARE** handling toughened glass. It is extremely vulnerable to **BREAKAGE** at the edges and in particular, the **CORNERS**. When you are **MOVING** it, please take care not to brush the **EDGES** of the glass against concrete etc.. as it can **SHATTER** or **BREAK** very easily. Likewise, it should **ALWAYS** be stacked on wooden bearers, or cardboard, or carpet, or anything to avoid direct contact with a hard floor.

Once the glass is installed into the frame the whole structure becomes much more **RIGID**.

The toughened glass in particular is very resilient to face-on **DAMAGE**.

If you are unsure about anything to do with glazing your greenhouse please ring us on **01782 388811**.

- Some of the components in this kit may cause **injury** if not used sensibly. When handling any of the metal components and during glazing please take **care** and **wear gloves**, **goggles** and **ear protectors** when you judge necessary.
- Do not assemble the frame in high winds.
- Children should not play near glass greenhouses.
- REMEMBER: Glass is fragile, handle with extreme care!
- Do not push or lean on the glass panels.
- Be careful when using agricultural chemicals such as fertilisers, fungicides and insecticides etc. in the greenhouse. Do not use chemicals that are for outside use only. Always read the labels carefully.
- Do not latch the door when anybody is inside the greenhouse.
- Use extra care when moving heavy or awkward objects such as tables, poles, internal frames etc. within or near the greenhouse.
- Do not place your greenhouse in vulnerable locations such as under trees, in playing areas, etc.



- Be aware of the increased temperature in a greenhouse on a sunny day.
- Do not keep pets or other animals in a greenhouse.
- When cleaning glass, do not exert too much pressure.

IMPORTANT!

- Do not keep petrol or petrol machinery in a greenhouse.
- Please clear all lying snow from the greenhouse roof, it can cause the roof to buckle or collapse



GENERAL ADVICE

Preparation and things to consider:

- Bear in mind that constructing your greenhouse can take some **time**, you may need to leave it and come back to it.
- The more **space** available in which to work the better, a large **clean, clear** garage floor is ideal or a **flat** lawn area.
- **Tidy** your work space prior to assembly. This will reduce the chances of losing any of the smaller components. It is a good idea to find a tub for all your nut and bolts etc...
- When building your own brick/concrete/slab foundations ensure that they are level and square and built to the correct outside measurements otherwise your frame will not be true and the glass will not fit.
- Be sure that all four sides of the constructed greenhouse are square before installing glass, and do not install the glass until the greenhouse is in its permanent location.
- Anchoring down your greenhouse is the **final stage** of construction (including glazing). The greenhouse frame must be anchored to a permanent foundation. This will not only help secure it against powerful winds, but will help prevent breakage of the glass caused by the freezing and thawing process of the earth.

Organising your components:

- On opening your main greenhouse box **DO NOT UNWRAP** any of the **labelled bundles** until they are required. Be **CAREFUL** not to mix-up any of the bundles.
- Assess each component in accordance with the **parts list** in the manual.
- Separate like from like components.
- Most parts are stamped with their part numbers.
- If your greenhouse is a painted one there maybe a few 3mm holes in the ends of some bars. These are jig holes used for painting and have no bearing on construction.
- If you are unsure what a component is try checking the length against the parts list inside the box.



Tools advice:

- You will find a tool kit supplied. This consists of: A pair of gloves, a 10mm spanner, a 10mm spinner and a Philips screwdriver. **Other tools** that may be required are shown in the picture (top right).
- You will also find a tube of silicone and a silicone gun in the box. This can be used throughout the greenhouse to stop any leaks.

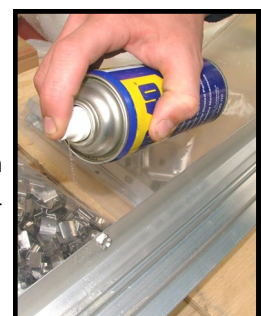


Using the manual:

- **Read** the information relevant to each stage of construction immediately **before** you begin. **Study** each drawing carefully before you begin each stage of construction.

Glazing preparation:

- WD40 or a similar product can be sprayed into the glazing channels to make it much easier to insert the glazing rubber. All rubber should be added to the glazing channels **PRIOR** to any assembly.

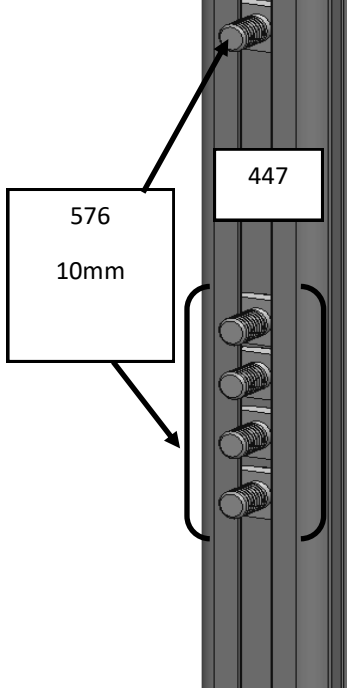


SIDE ASSEMBLY

Part No. Code Example (HE300)	300	303	350	351	352	353	354	447	460	461	462	463	464	576	588	579	580
Profile																	
Length (mm)	-	1,742	1,268	1,888	2,508	3,128	3,748	1,670	1,268	1,888	2,508	3,128	3,748	10	15	-	-
Quantity (4ft)	2	2	2						2	2				6	2	8	8
Quantity (6ft)	4								4					12	4	16	16
Quantity (8ft)	4								6					16	6	22	22
Quantity (10ft)	4								8					20	8	28	28
Quantity (12ft)	6								10					24	10	34	34

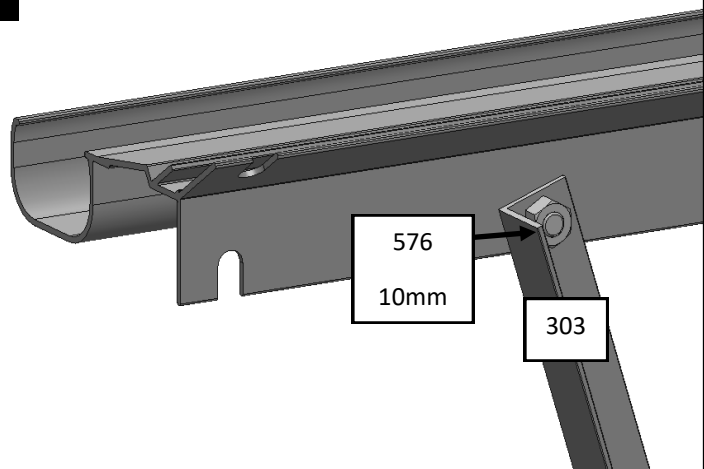
1

Once rubbered, Slide 1 extra 10mm bolt into the channel of each glazing bar and 4 more if it is the side you will be installing staging and shelving.

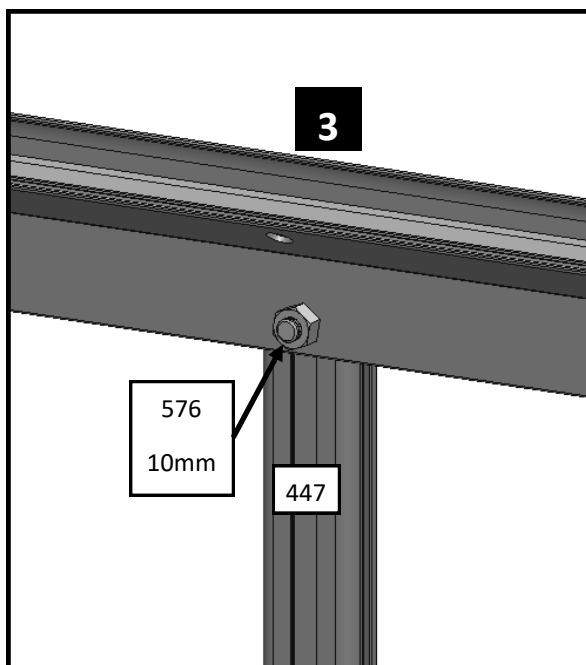


Attach the diagonal bracing (303) to the gutter using the 10mm bolts.

2

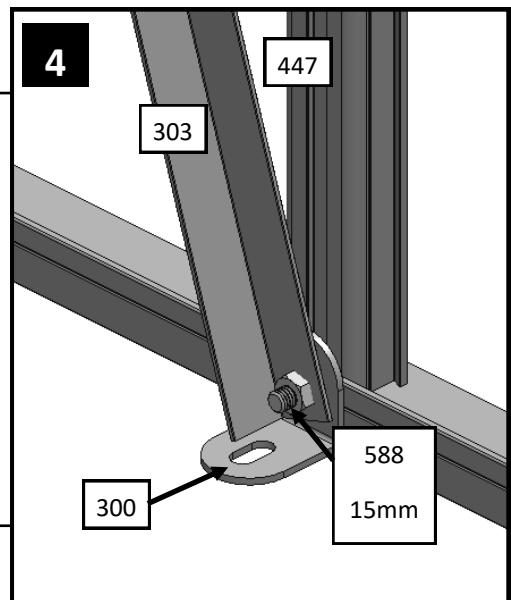


3



Attach the bottom of the glazing bar (447) to the bottom cill and then put the base bracket (300) and then the diagonal bracing (303) on top of the bracket then tighten up with a nut.

4

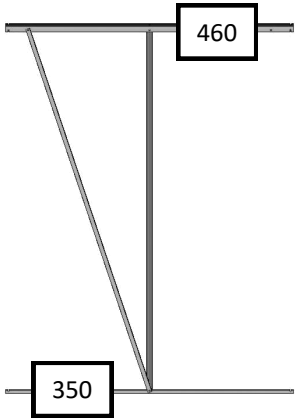


***Don't worry about adding extra bolts for the louvre.**

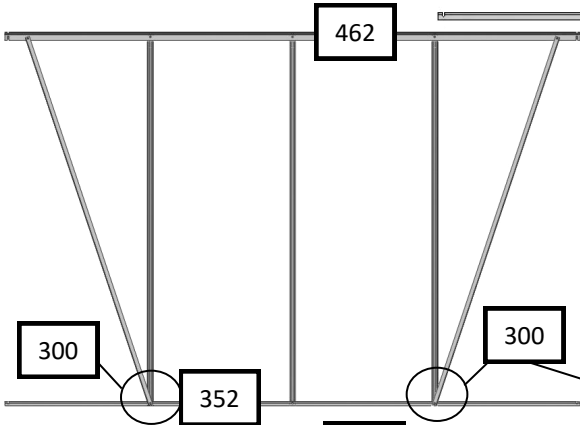
SIDE ASSEMBLY

All Diagrams Inter-

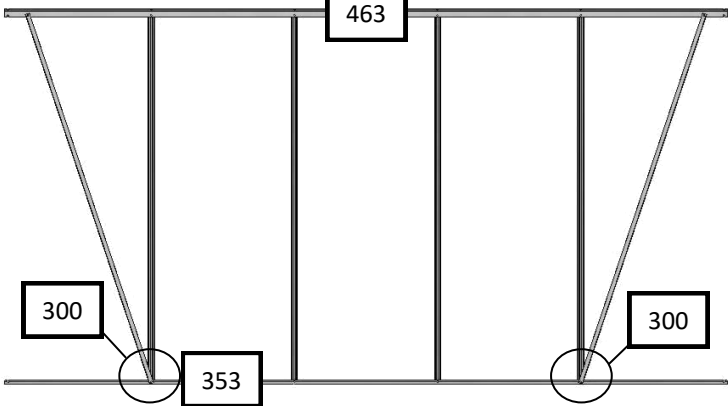
4' LONG



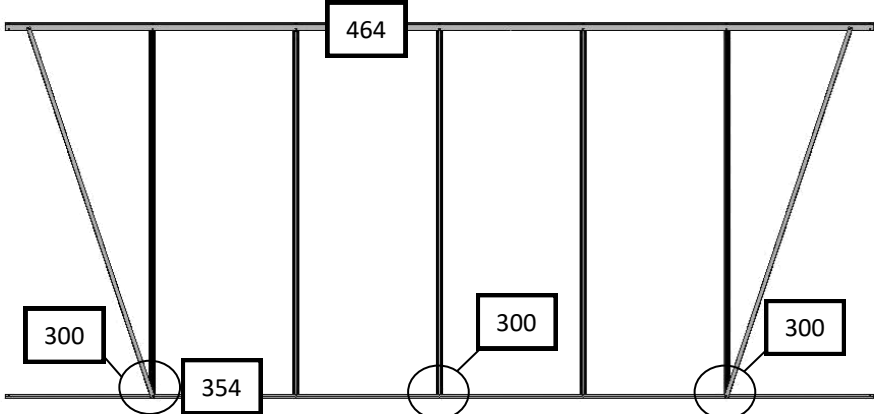
8' LONG



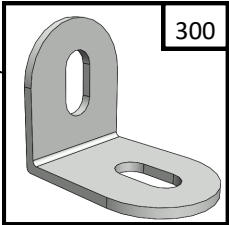
10' LONG



12' LONG

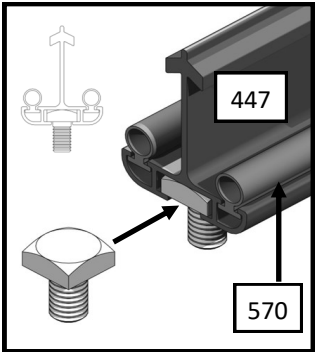


6' LONG
Example

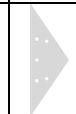


IMPORTANT

Ensure you slide the glazing rubber into the glazing bars before you begin to assemble.



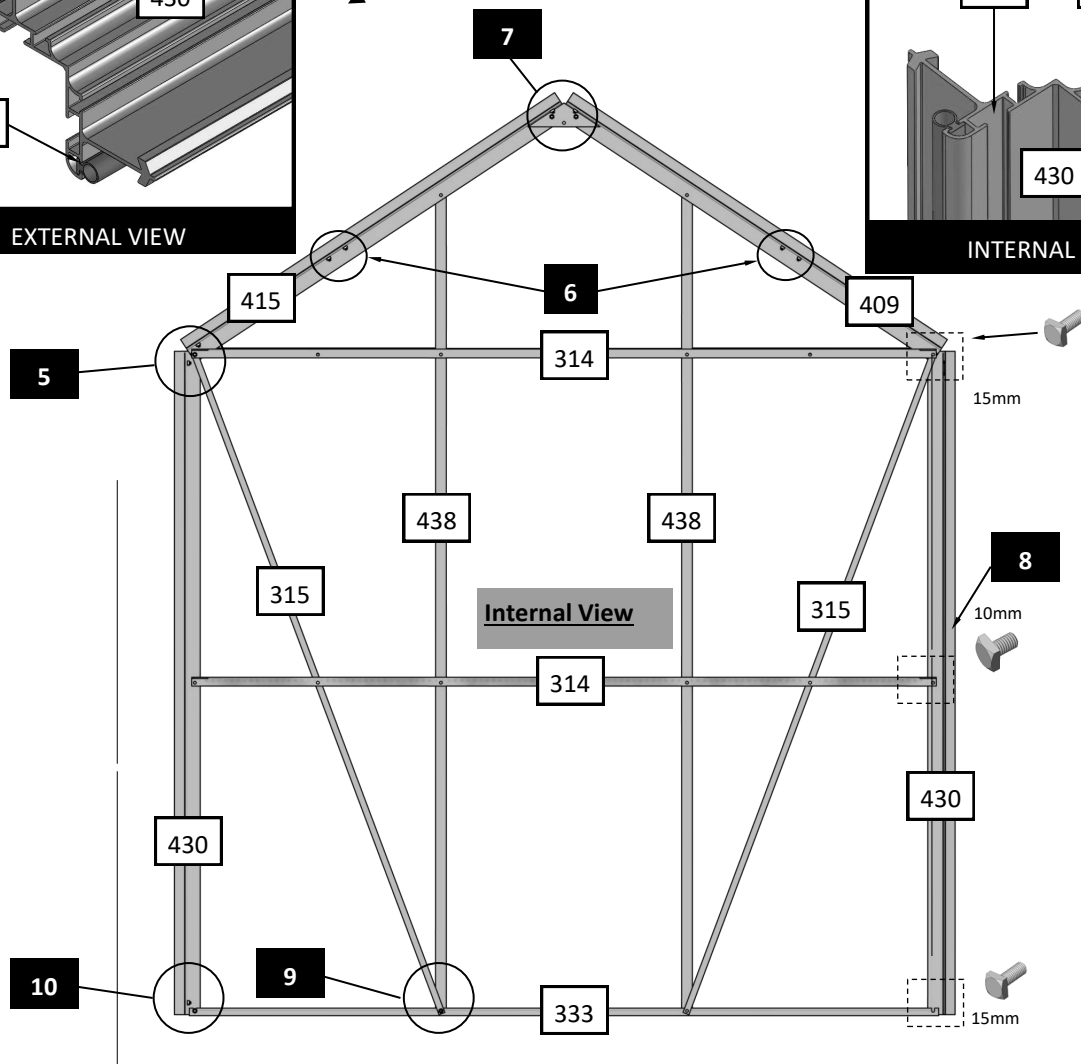
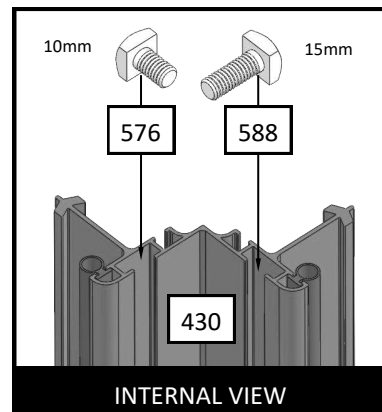
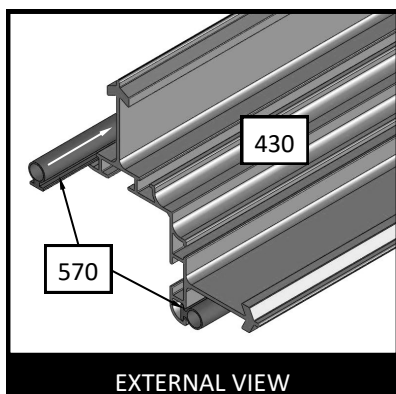
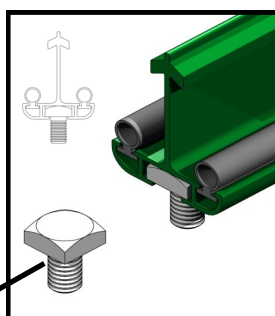
REAR ASSEMBLY

Part No. Code Example (HE300)	300	315	314	333	409	415	430	438	500	576	579	580	588
Profile													
Length (mm)	-	1,779	1,870	1,882	1,130	1,130	1,670	2,075	-	10	-	-	15
Quantity	4	2	2	1	1	1	2	2	1	24	30	30	6

Ensure you slide the glazing rubber into the glazing bars before you begin to assemble.

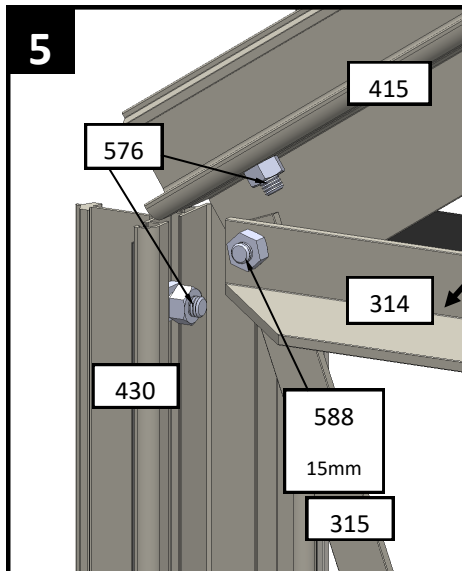
IMPORTANT

Before anything, remember to put the glazing rubber into the glazing channels.
See diagrams above and below.



REAR ASSEMBLY

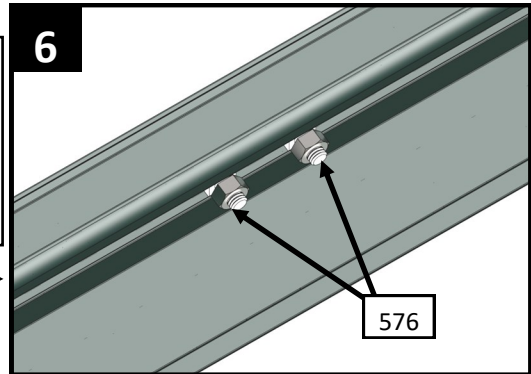
5



The horizontal purling (314) can be fitted in either orientation. This is helpful when joining the sides to the gables. The orientation shown in the diagram is preferred as it is easier to tighten the bolt on the roof bar (415) when attaching the sides to the gables. Slide extra bolts (576) 50mm from each end to attach the ridge and sides.

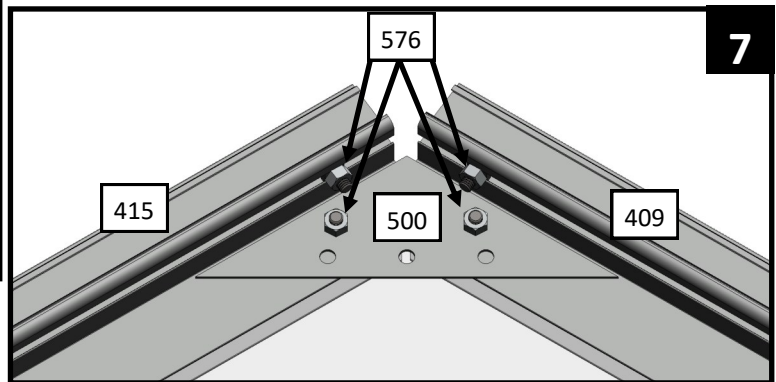
Slide 2 x 10mm bolts into the roof corner bars (415) and (409). This is for the hanging basket rails.

6

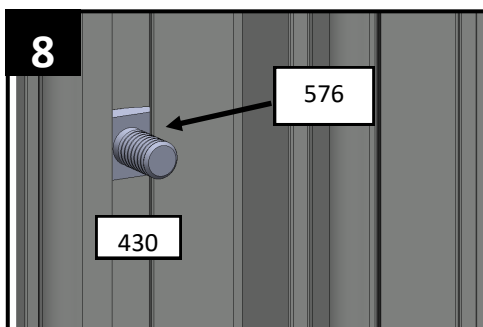


Attach the ridge plate (500) with the 10mm bolts that in the (415) and (409) corner roof bars. Slide 2 more 10mm bolts into the channel in the roof corner bars (415) and (409), one at the top and one at the bottom. These will be used to attach the ridge and gutters. It makes the build easier to already have them in place.

7



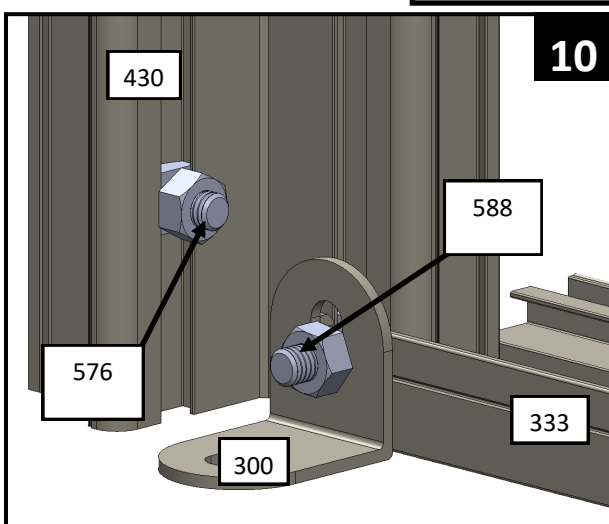
8



Slide an extra 10mm bolt (576) into the channel of the corner glazing bar (430) for the bracing (314) to attach to. Do the exact same on the same channel on the other corner glazing bar (430)

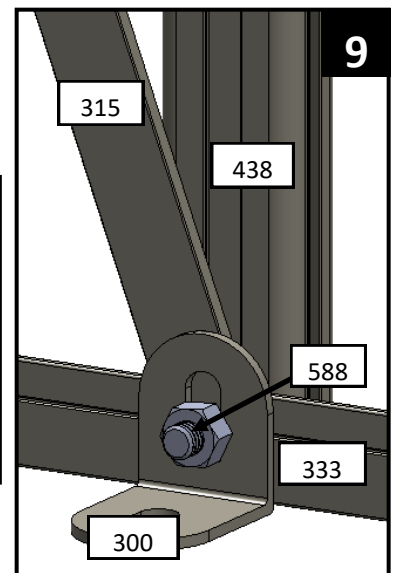
Attach the base bracket (300) to the cill (333) and corner side glazing bar (430) with a 15mm bolt. Leave another 10mm bolt in the channel of the corner side glazing bar (430). This is for attaching the side cill to the corner side glazing bar (430).

10



Use a 15mm bolt to attach the base bracket (300) to the cill (333). Make sure the diagonal bracing (315) is behind the base bracket.

9



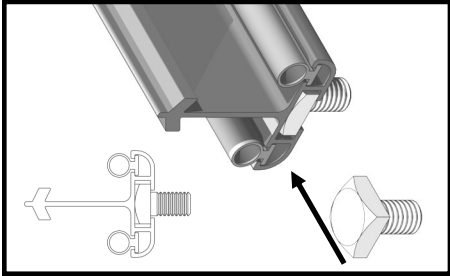
Part No. Code Example (HE300)	300	315	308	333	374	400	401	402	404	405	409	415	430	438	500	507	525	575	578	576	579	580	588
Profile																							
Length (mm)	-	1,779	636	1,882	1,320	40	80	1,320	-	588	1,130	1,130	1,670	2,075	-	252	588	25	-	10	-	-	15
Quantity	4	2	4	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	24	30	30	6

FRONT ASSEMBLY

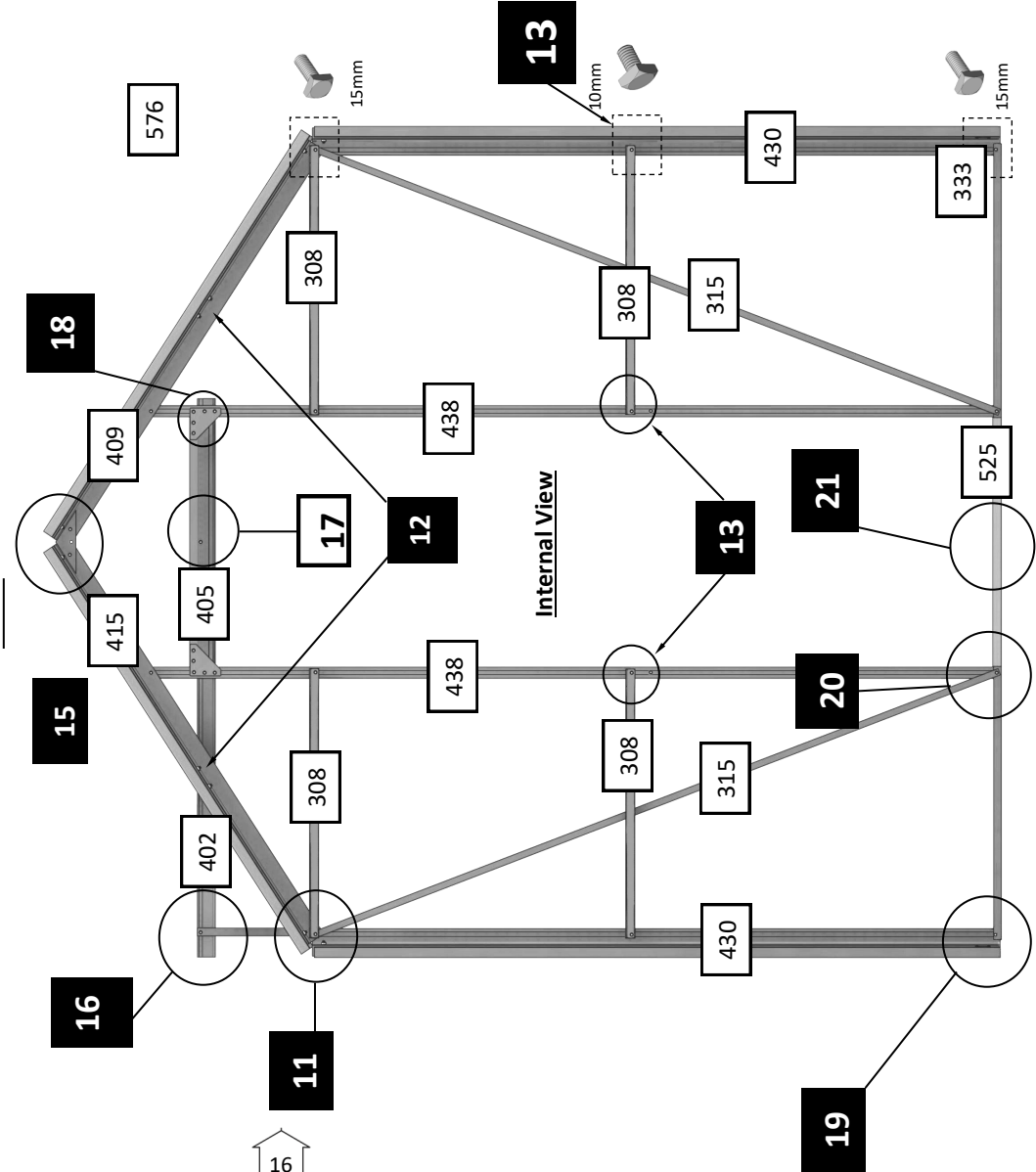
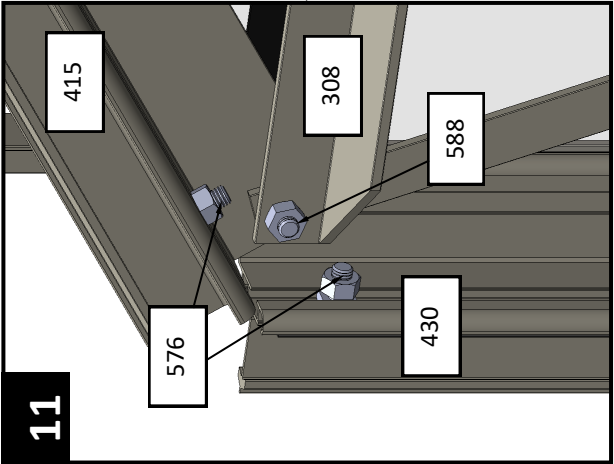
IMPORTANT

Ensure you slide the glazing rubber into the glazing bars before you begin to assemble.

Before anything, remember to put the glazing rubber into the glazing channels. See diagram above.



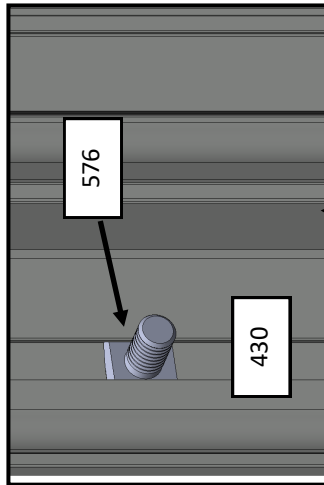
Attach the roof corner glazing bar (415) to the side corner glazing bar (430) with a 15mm bolt. Before you put on the nut, put your flat bracing (315) on and then your front purling (308) on top then put the nut on to keep everything in place. Leave a 10mm bolt about 50mm from the end of the 416 and the 430. These will be used later in the build.



FRONT ASSEMBLY

Slide 2 x 10mm bolts into the roof corner bars (415) and (409). There are to attach the hanging basket rail to later on in the build.

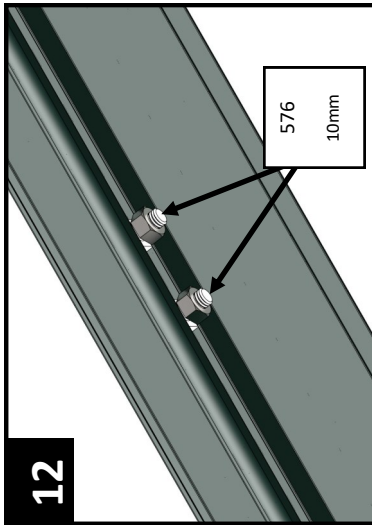
14



Slide an extra 10mm bolt (576) into the channel of the corner glazing bar (430) for the bracing (308) to attach to. Do the exact same on the same channel on the other corner glazing bar (430)

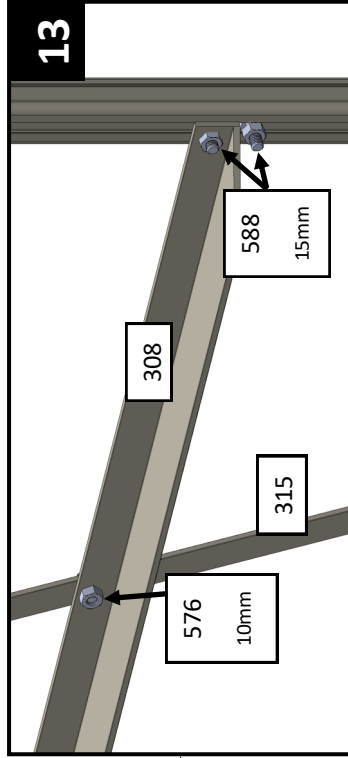
17

12

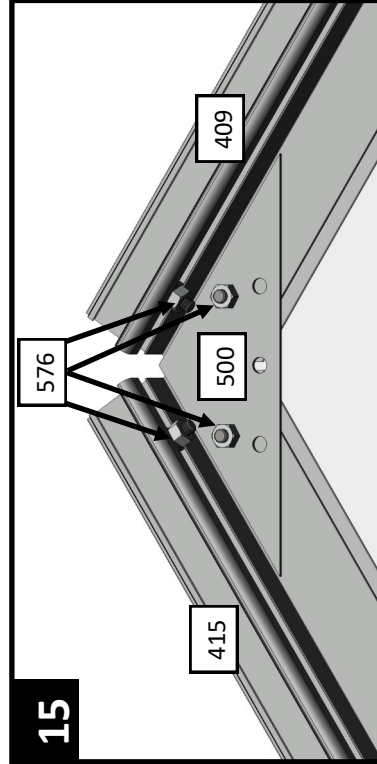


Attach the lower purling to the top of the two 15mm bolts in the glazing bar (438). The second 15mm bolt will be used later on for the door stops. The middle hole connects the purling to the diagonal bracing with a 10mm bolt. Then the attach the other side of the purling to the corner bar (430).

13



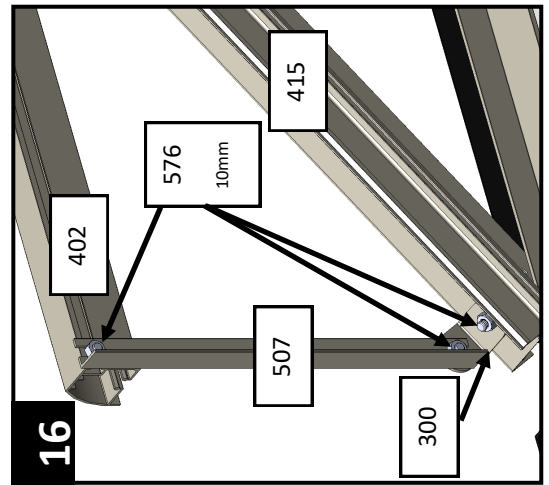
15



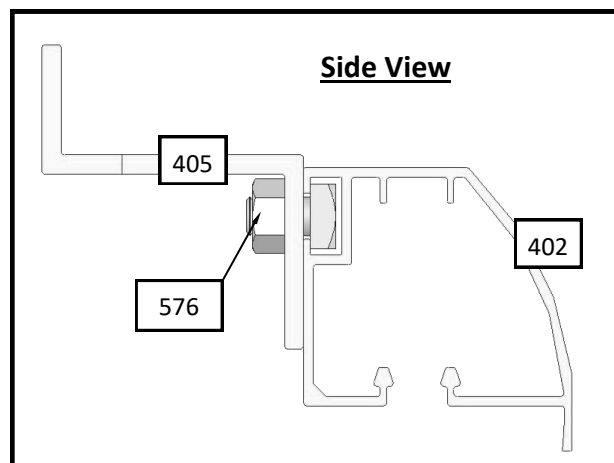
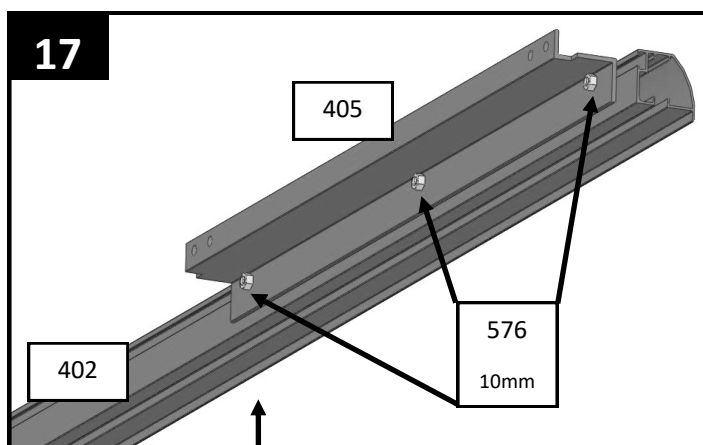
Attach the ridge plate (500) with the 10mm bolts that are in the above door glazing bar and in the 415 and 409 corner roof bars.

Attach 2 more 10mm bolts into the channel in the roof corner bars (415) and (409). These will be used to attach the ridge. It makes life easier to already have them in place.

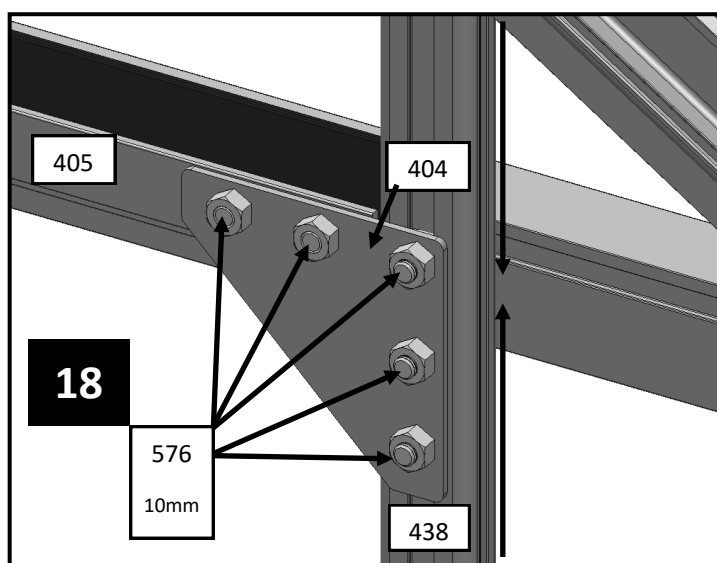
16



Slide another 10mm bolt into each end of the door track and attach the vertical door track supports (507). Bolt the other ends of the brackets to the roof corner bar (415) using a base bracket (300) (Diagram 14).



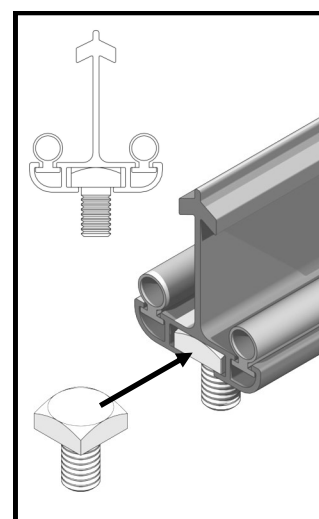
Bolt the door track to the main door track support (Diagram 15) by inserting 3 bolts into the bolt slot of the door track. Position these through the 3 holes in the main door track support above the door opening. When this has been achieved tighten all nuts. The height of the track will have to be adjusted when fitting the door.



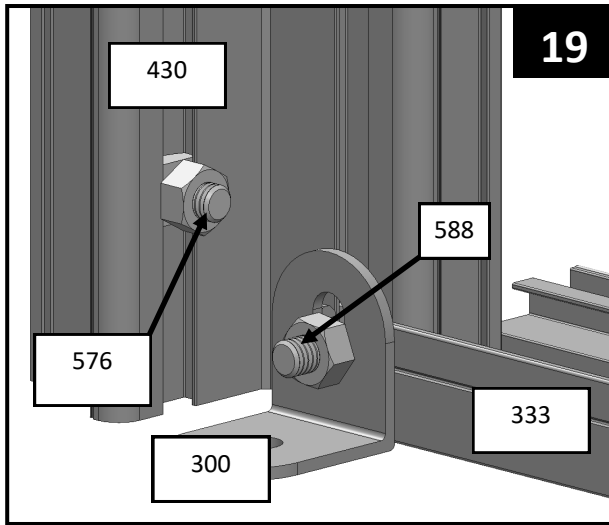
Attach the main door track support (405) to the two glazing bars using the door track support brackets (Diagram 16). Use three of the 10mm bolts to fix the door track support bracket to the glazing bars, leaving the last 10mm bolt below the

IMPORTANT

Make sure you remember to insert your glazing rubber into glazing bars and trim to length.



IMPORTANT

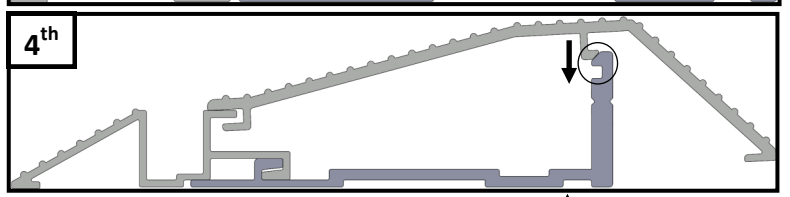
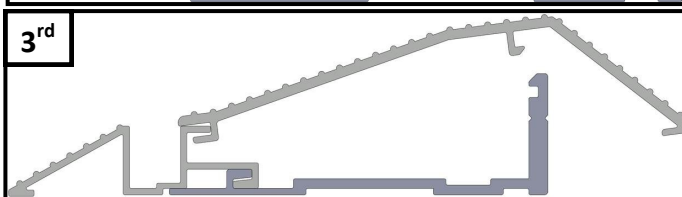
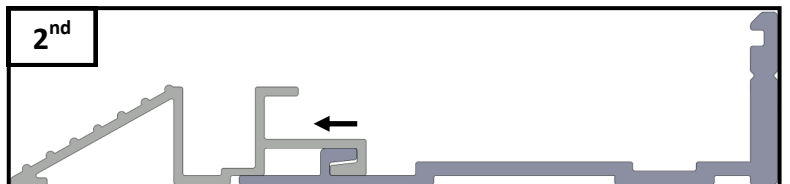
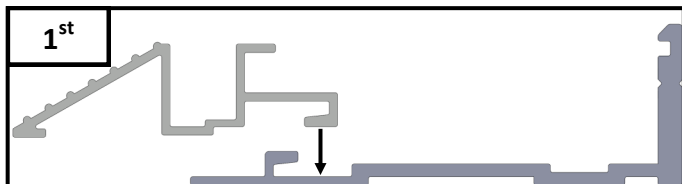
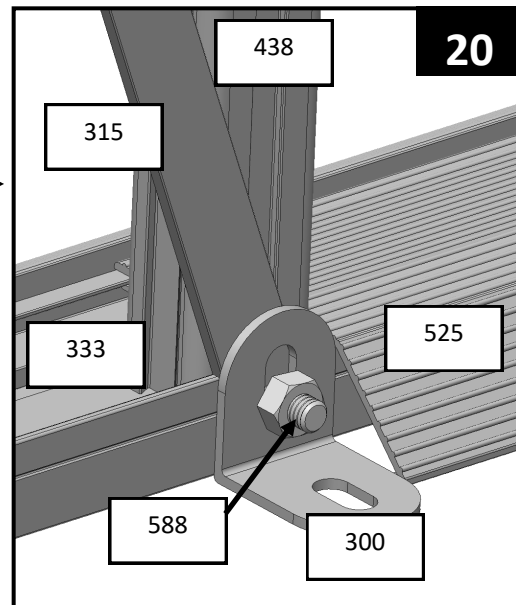


Attach the base bracket (300) to the cill (333) and corner side glazing bar (430) the with a 15mm bolt.

Leave another 10mm bolt in the channel of the corner side glazing bar (430). This is for attach-

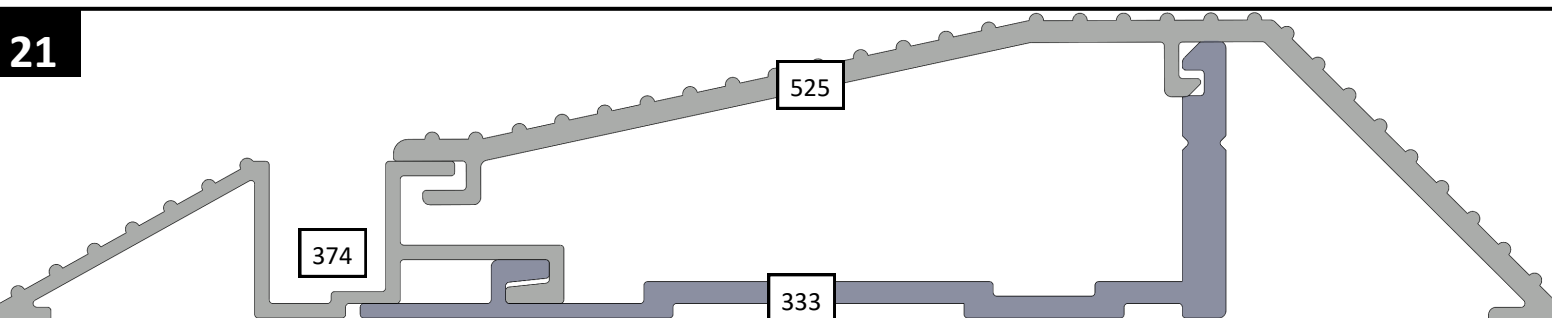
Use a 15mm bolt to attach the base bracket (300) to the cill (333). Make sure the diagonal bracing (315) is

Slot the door runner (375) onto the cill (334) and then insert the threshold (526) onto the door runner and cill then apply pressure until it clicks into place. You might find its easier to apply the pressure by standing on the



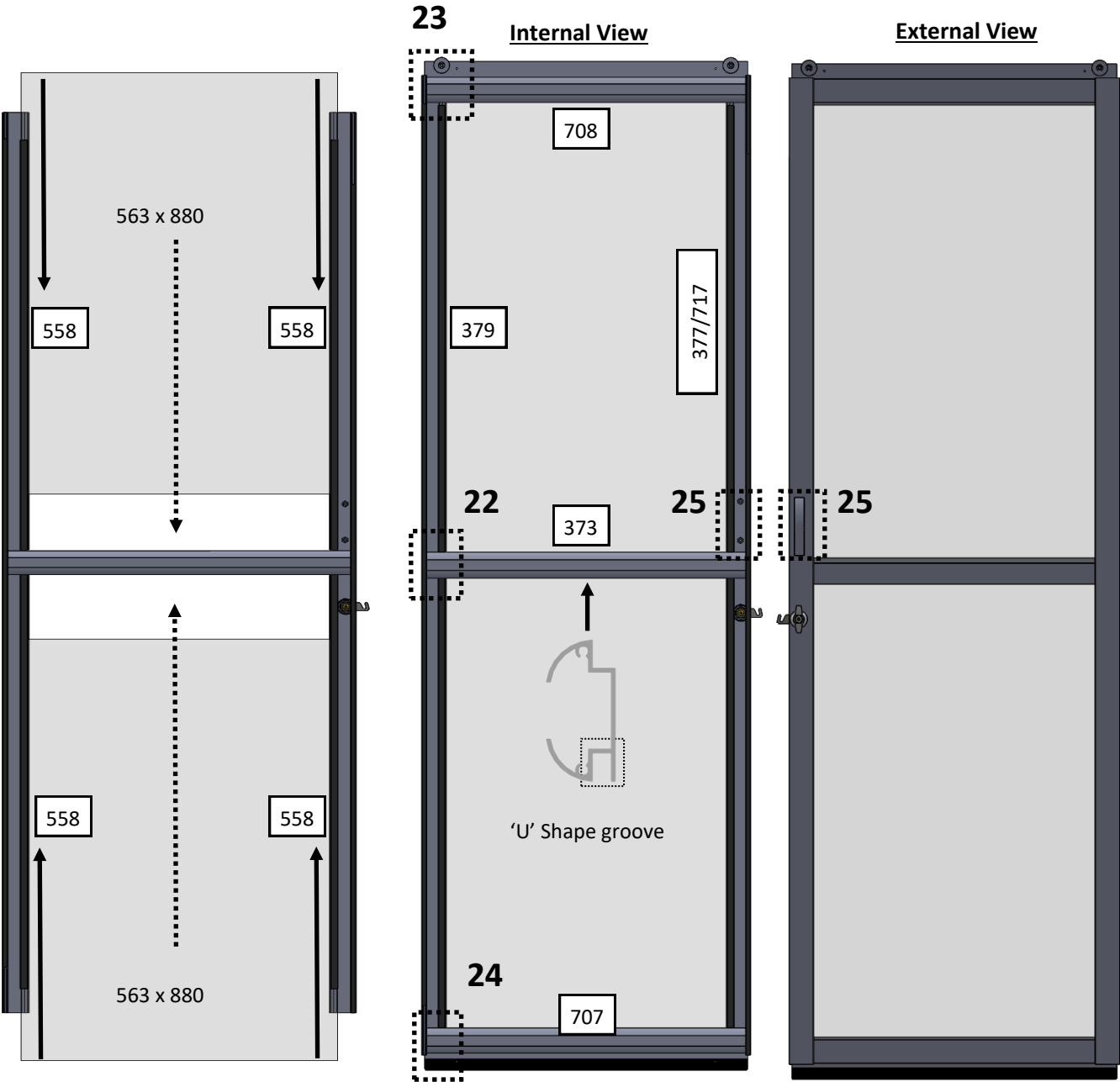
At this point when you feel resistance, apply some pressure by standing on the threshold until you hear it click into place.

21



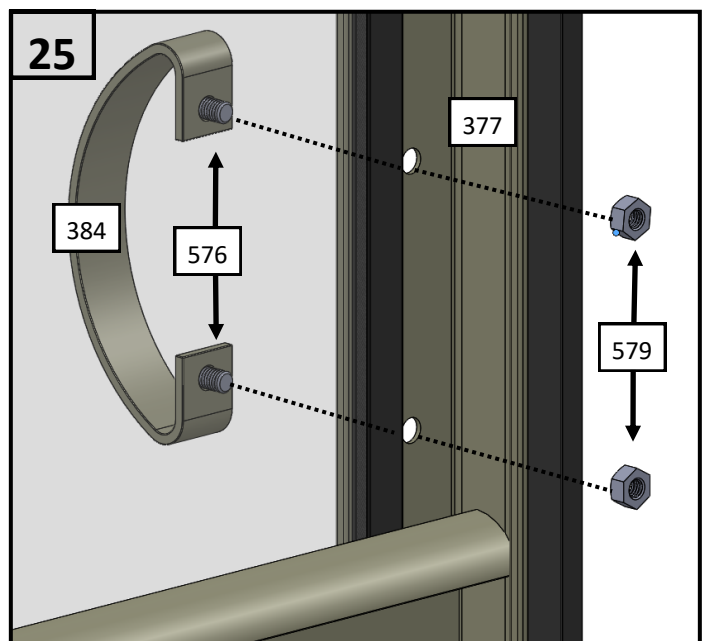
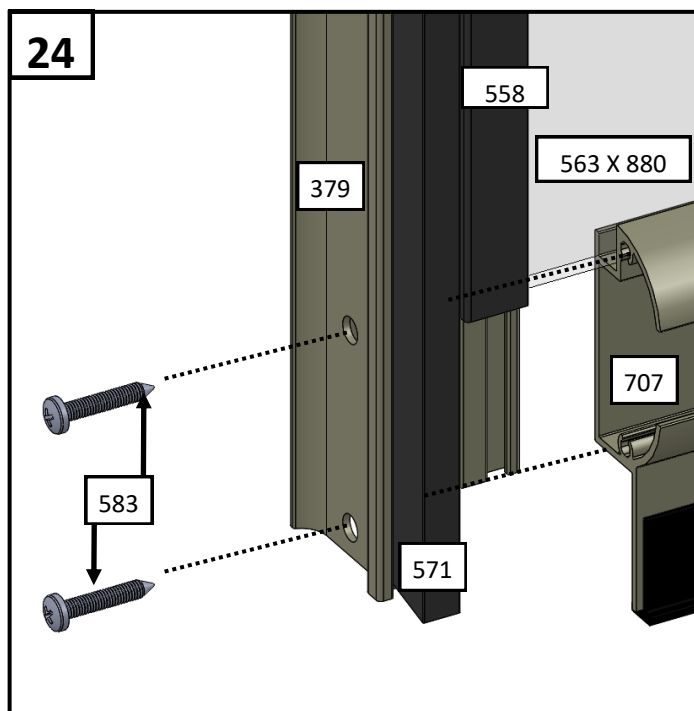
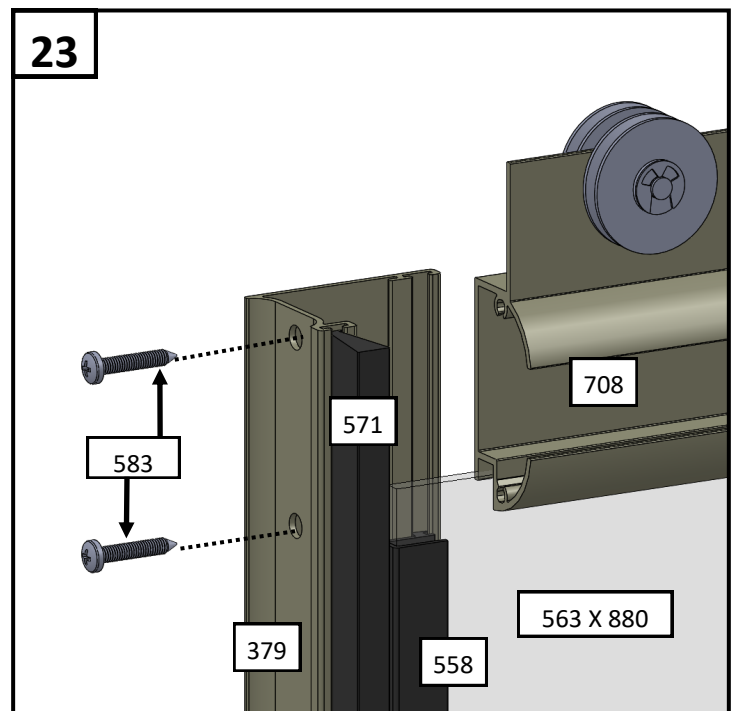
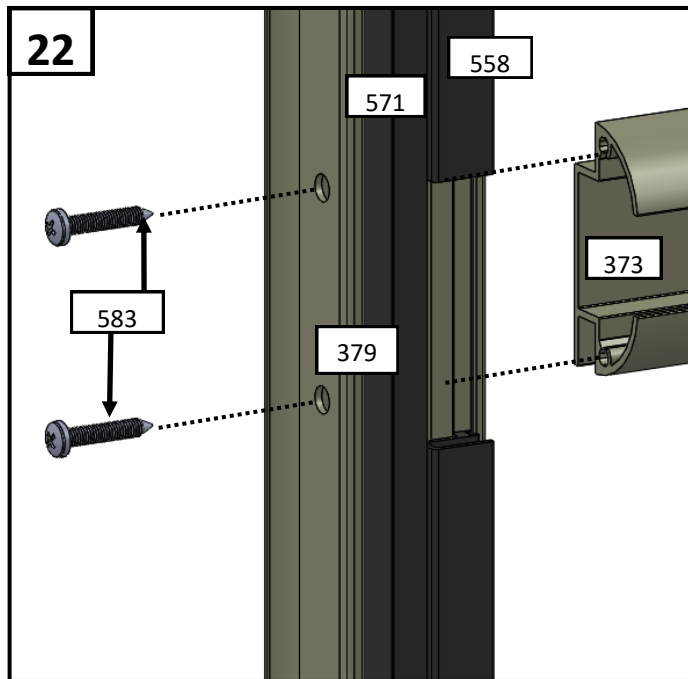
DOOR ASSEMBLY

Part No. Code Example (HE300)	373	715/ 377	379	384	558	571	583	576	579	707	708
Profile											
Length (mm)	618	1,880	1,880	112	870	3,800	19	10	-	618	618
Quantity	1	1	1	1	4	1	14	2	2	1	1



DOOR ASSEMBLY

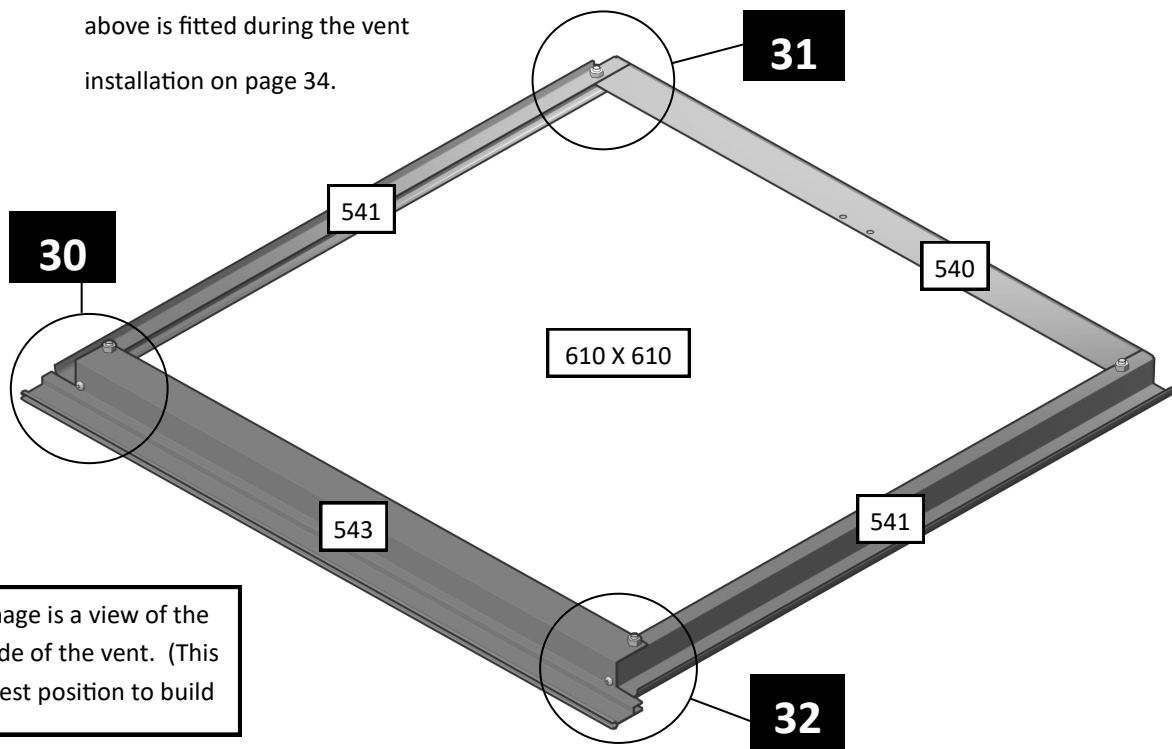
1. Attach the door middle (373) to the middle of the door stiles with the screws (diagram 22). 'U' shaped groove for the glass should face down.
2. Slide edging strips into the channels then slide the glass into the top section of the door. Then attach the door top (708) with the screws either side. (diagram 23)
3. Often the black plastic edging strip (558) will need to be trimmed down slightly. Use a **hacksaw**.



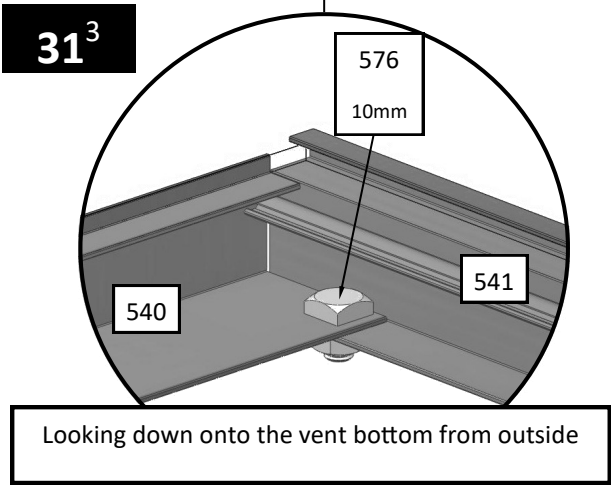
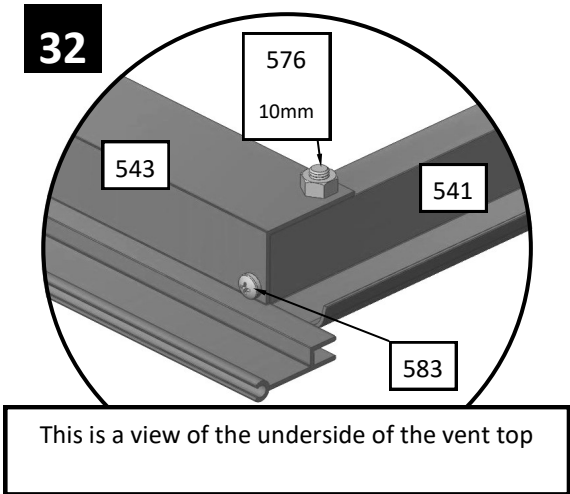
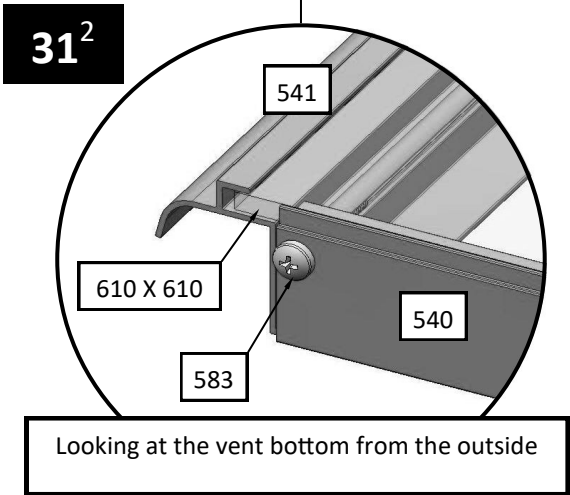
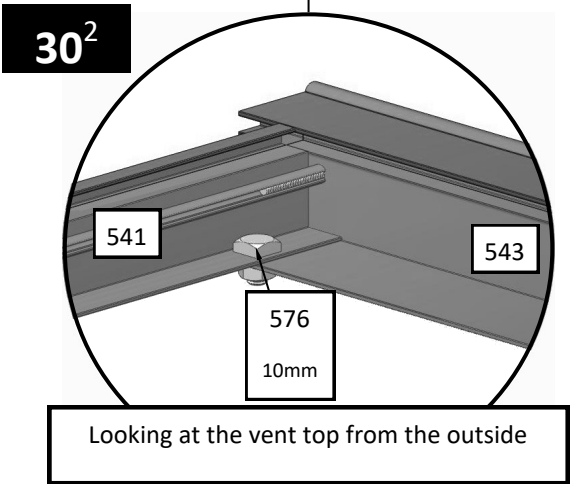
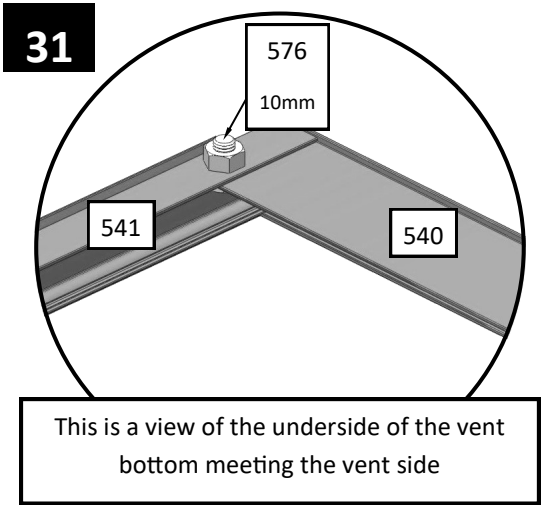
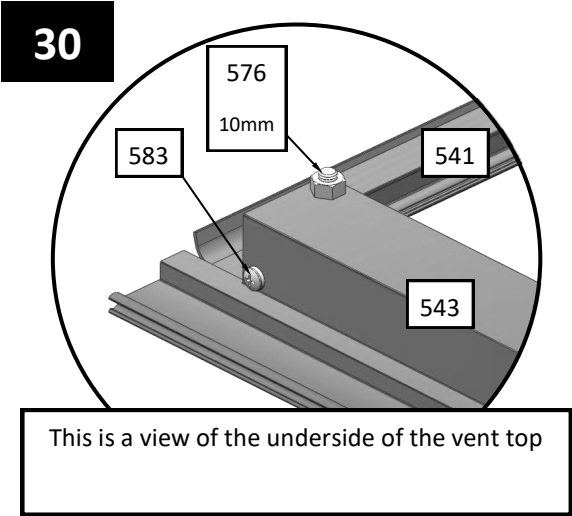
ROOF VENT ASSEMBLY- HEVENT/C/S

Part No. Code Example (HE300)	330	540	541	542	543	576	578	579	580	583	584	585	587	589	610x610
Profile															
Length (mm)	-	590	604	645	650	10	-	-	-	19	-	-	10	10	610x610
Quantity (Per Vent)	1	1	2	1	1	4	6	6	6	4	1	1	2	2	1

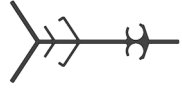
1. (Ignore step 1 if you are using an Autovent). Attach the casement stay to the vent bottom using the M4 countersunk screws and nuts.
2. Lay the components out so the underside of the vent is facing up. Lightly bolt the vent sides to the vent top. (Diagram 30 & 32)
3. Now use the self tapping screws to screw through the vent top into the screw channel on the vent sides. (Diagram 30 & 32)
4. Slide the 610 X 610 glass into the channels in the vent sides. Push the glass all the way up the channels until it slots into the vent top. (Diagram 30²)
5. Bolt the vent bottom on to secure the glass. (Diagram 31³)
6. Now tighten all the bolts.
7. Trim the end off the silicone tube. Run a bead of silicone all the way round edge of the glass on the outside of the vent. This will help to reduce any leaks and will also secure the glass.
8. Repeat for each vent.
9. The slam bar listed in the table above is fitted during the vent installation on page 34.



ROOF VENT ASSEMBLY

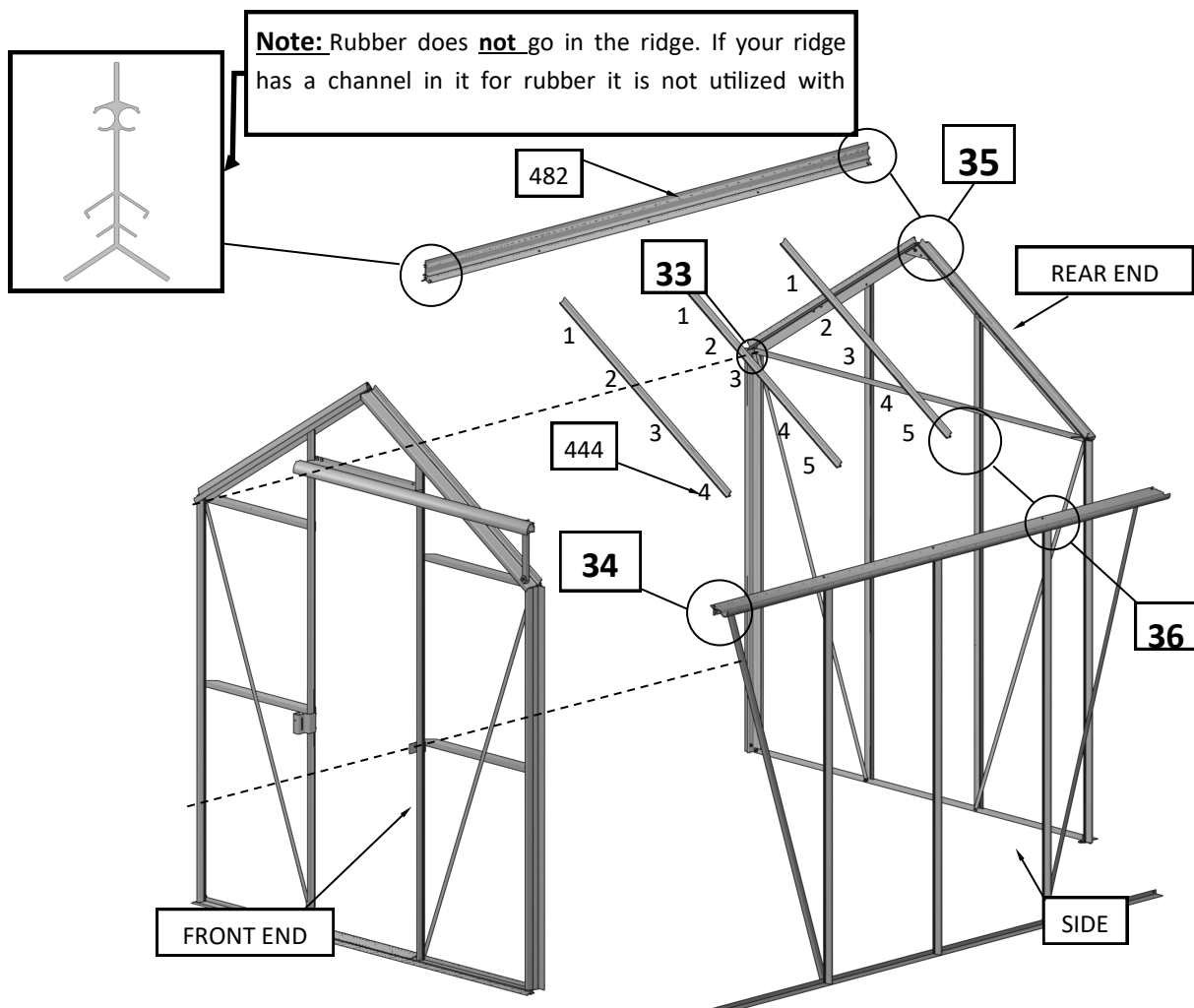


MAIN BUILDING ASSEMBLY

608Part No. Code Example (HE300)	443	480	481	482	483	484	576	579	580	600	601	685	687	688	689	690
Profile																
Length (mm)	1,130	1,268	1,888	2,508	3,128	3,748	10	-	-	608	601	1,268	1,888	2,508	3,128	3,748
Quantity (4ft)	2	1					14	14	14	1	2	2				
Quantity (6ft)	4		1				28	28	28	2	4		2			
Quantity (8ft)	6			1			44	44	44	3	6			2		
Quantity (10ft)	8				1		60	60	60	4	8				2	
Quantity (12ft)	10					1	76	76	76	5	10					2

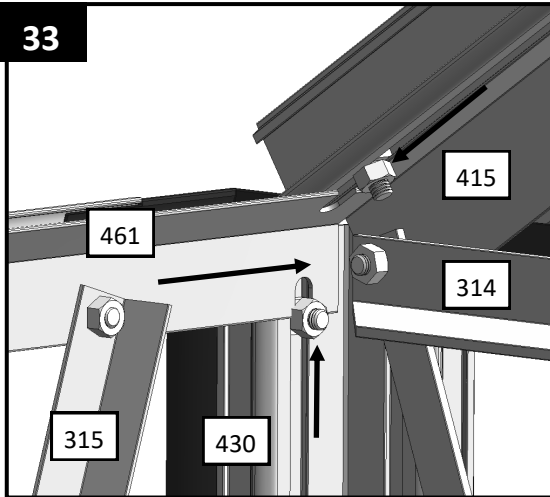
Very Important: A bolt will need to be slid into each roof bar for the ridge cantilever, two more bolts to attach the hanging basket rail, one more bolt is needed to attach the eave cantilever bracing between the roof and the side. Please note: At this stage you will need to insert an extra bolt into each bar either side of a vent opening. So you will have to decide now where your roof vents are positioned so that you can work out the correct number of bolts in each

Note: If you have purchased any *extension packs* or *partitions* you should now follow the instructions for those upgrades. The instruction books for the upgrades will tell you when to refer back to this main book.



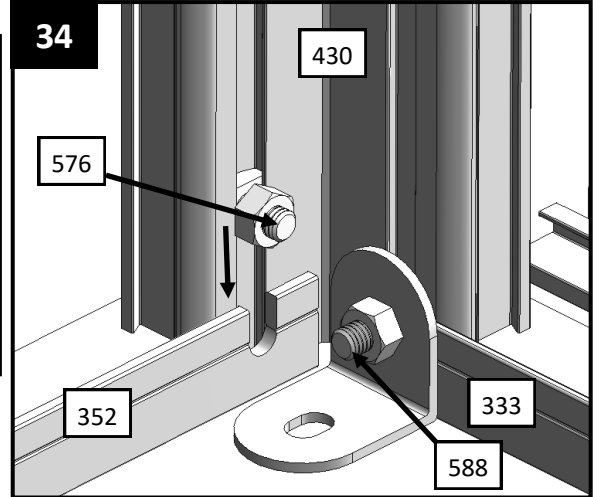
MAIN BUILDING ASSEMBLY

33

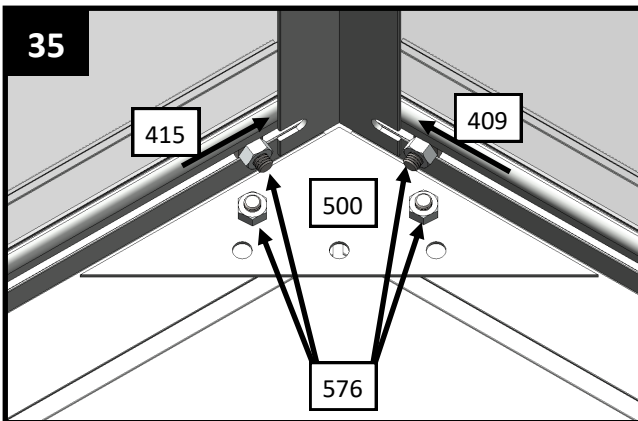


Slide the side assembly up to the front assembly so that the 10mm bolts previously placed at the top and bottom of the glazing side bar (430) and the glazing roof bar (415) can slide into the grooves on the side cill and the gutter

34

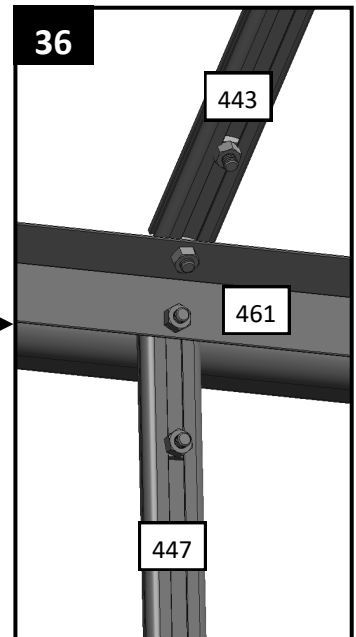


35



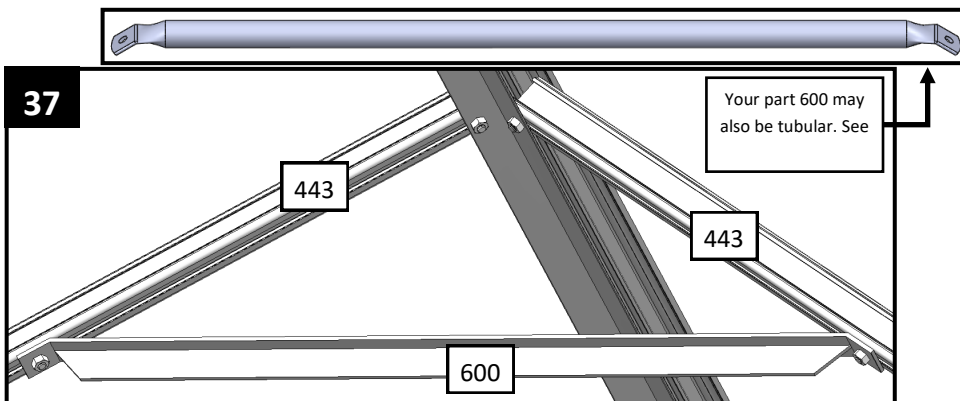
Slide the ridge (481) under the roof bars (415/409) so that the groove lines up with the channels and slide the 10mm bolts previously placed in the roof bars into the grooves of the ridge and tighten.

36



Slide 5x10mm bolts into the channel of the roof glazing bar (444) and insert the one of the bolts through the hole on the gutter (461) to attach the roof glazing bar to the side assembly. The other bolts in the roof glazing bar will be used for the ridge and eaves cantilever and the hanging basket rail.

37

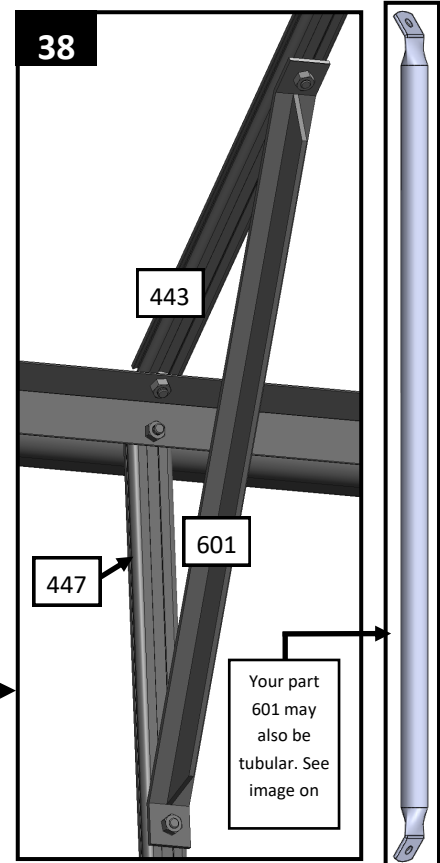


Your part 600 may also be tubular. See

Attach the T-bar cantilevers (600) which bolt into the apex of the roof. Use the top bolt out of those you have slid into each roof bar (Diagram 35). Your T-bar cantilevers may also be tube shaped.

Attach the eave cantilevers (601) between the roof and the sides using the bottom bolt in your roof bar channels and the extra bolt you slid into the side sections earlier on (Diagram 36)

38

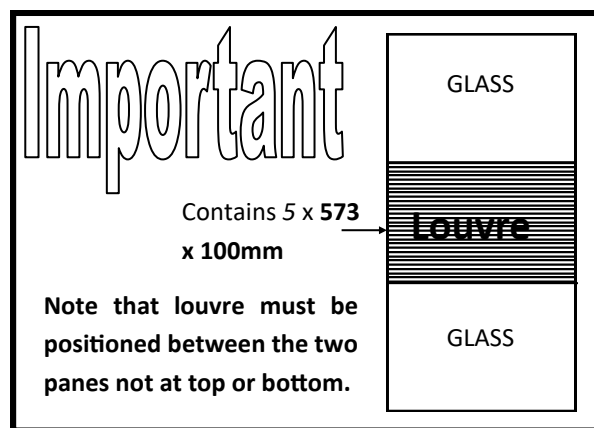
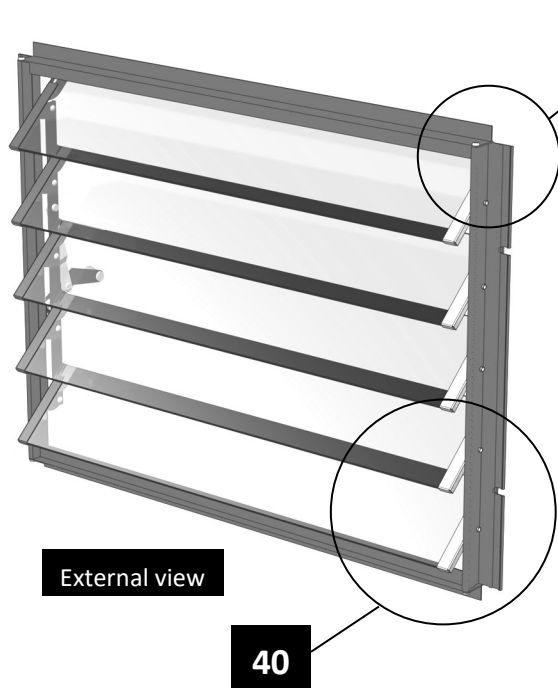


Your part 601 may also be tubular. See image on

LOUVRE ASSEMBLY– AILOV /C/PS

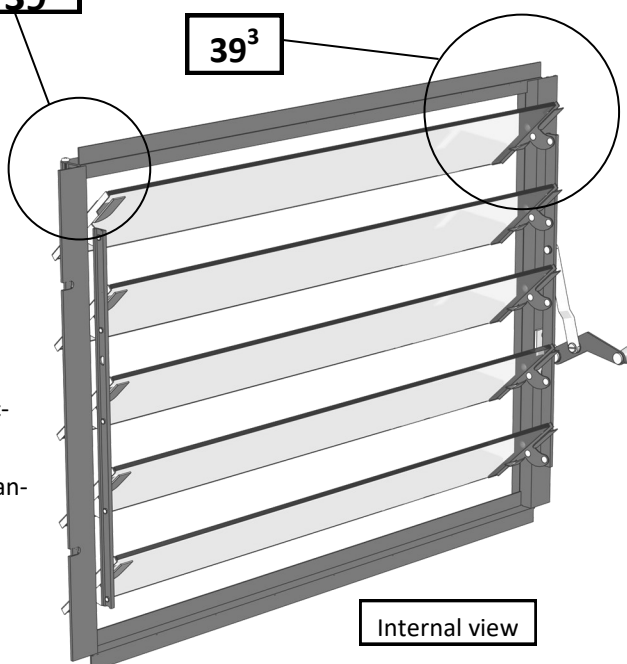
Part No. Code Example (HE300)	Top/ Bottom	Side Bar L	Side Bar R	583	SYBOLM6 X11CROP	SYNUT- M6	573x100
Profile							
Length (mm)	592	444	444	19	10	-	573x100
Quantity	2	1	1	4	4	4	5

1. Trim rubber to side lengths and place top and bottom cill into position on side bars. Secure with self tapping screws. (Diagrams 38 & 38²)
2. Repeat this process on each corner.
3. When you are fitting your louvre the pane of glass (610 X 457) must be inserted below it first.
4. Use your four crop headed bolts to attach the louvre to your side glazing bars (Diagram 39). You will **NOT** need **glazing separators** above and below the louvre. The glass simply butts right up to the metal.
5. Pinch glass holding clips together prior to glazing to help secure the glass blades tightly. (Diagram 38³)
6. Insert each of the five glass blades.



39²

39³



Don't worry if you haven't added any extra bolts to accommodate the louvre, because it comes with Crop head bolts (SYBOLM6X11CROP) that twist into the channels .

LOUVRE ASSEMBLY

39

Self tapping screws - 10mm M4

Side bar

Top cill

40

Use this slot to attach
the louvre to the
greenhouse frame

573 X 100

Bottom cill

39²

Self tapping screws - 10mm M4

Top cill

Side bar

39³

Top cill

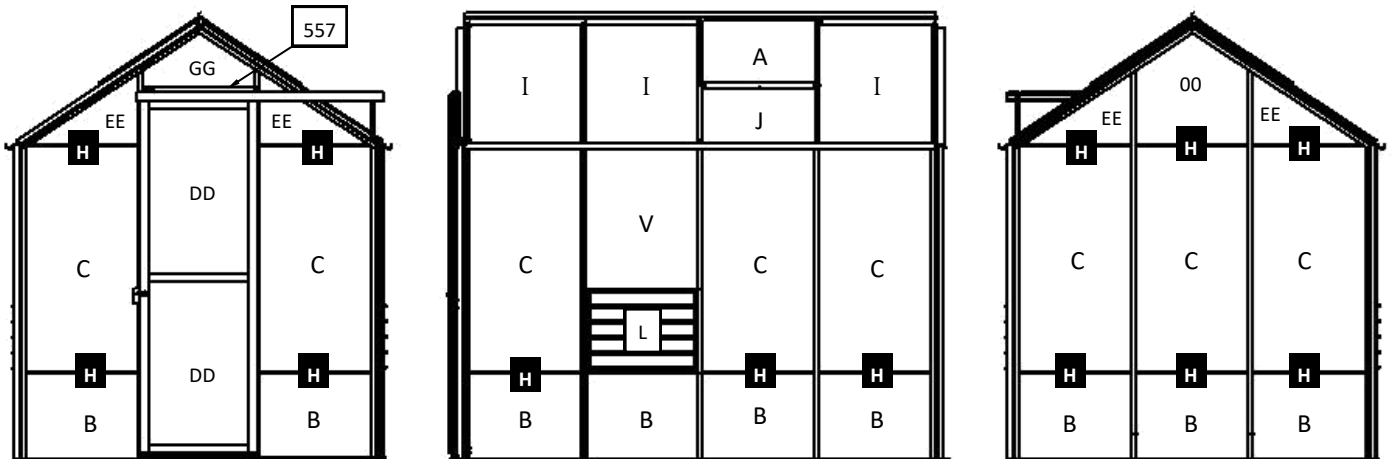
Side bar

573 X 100

Pinch before in-

GLASS PLAN

(Diagram showing the layout
for a 6 X 8 Greenhouse)



Part Name	Part No.	Size (mm)	6 X 4	6 X 6	6 X 8	6 X 10	6 X 12
A	-	610 X 610	1	1	2	3	4
B	-	610 X 457	9	11	13	15	17
L	-	573 X 100	5	5	10	10	10
C	-	610 X 1210	8	10	11	13	15
I	-	610 X 1148	3	5	6	7	8
J	-	610 X 545	1	1	2	3	4
V	-	610 X 759	1	1	2	2	2
DD	-	563 X 880	2	2	2	2	2
EE	-	610 X 412 X 10	4	4	4	4	4
GG	-	610 X 311 X 112	1	1	1	1	1
OO	-	610 X 622 X 421	1	1	1	1	1
Glass Jack	557	590 X 33	1	1	1	1	1
Glazing Separator	559	610 X 15	14	16	18	20	22

EXTRA LOUVRE WINDOW

Situated at side or rear center.

For one louvre remove:

Qty

C - 610 X 1210

1

And add:

L - 573 X 100

5

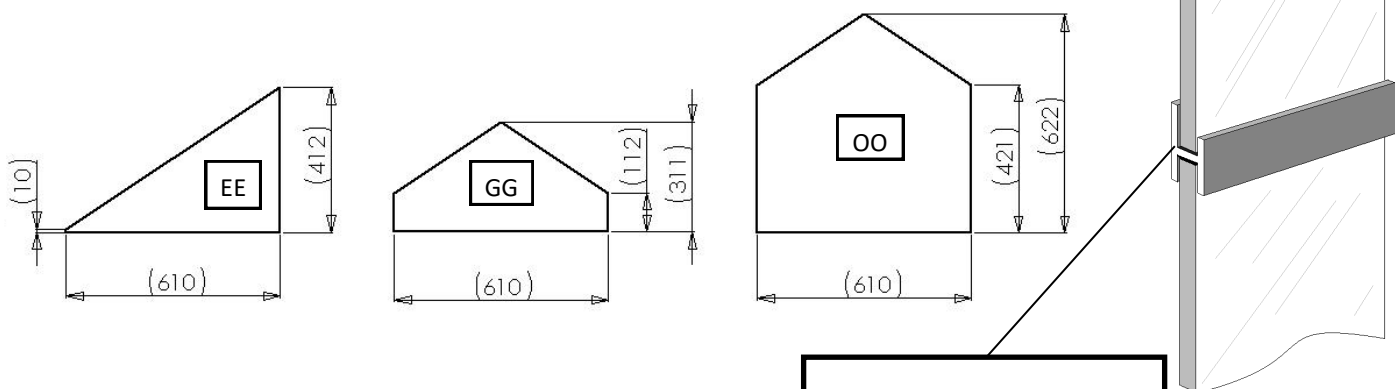
V - 610 X 759

1

Glazing separator

(559)

H



Please be aware that some
'glass separators' are often
located within your black rain-
water collection pipes

The short flange
should be on the
outside of the build-
ing facing upward.

GLAZING

You are about to begin glazing your greenhouse. It is vital that you take as many safety precautions as possible, especially when handling glass. When glazing the roof we recommend that one individual stands on some ladders inside the greenhouse (It is important that this person is not directly underneath the glass, it is best to stand to one side and help guide the glass in with one hand), while someone else passes the panes up from the outside. When handling glass, you should always wear long sleeves, gloves and goggles.

Important, when glazing any structure it is likely to take you several hours to complete the process. You should leave yourself enough time or get yourself help to do the job in one session. Before you begin the process carefully separate your glass into groups of similar panes being very carefully to measure and separate different types as some are quite similar. When moving the glass please be very careful and put down wooden bearers and cardboard to protect the glass from any hard ground or wall surfaces and to help keep the glass clean.

Glass separators (610mm black plastic strips) go on your front and rear gables and sides allowing one pane to sit directly on the pane below. **Often located with your black rain water collection pipes.**

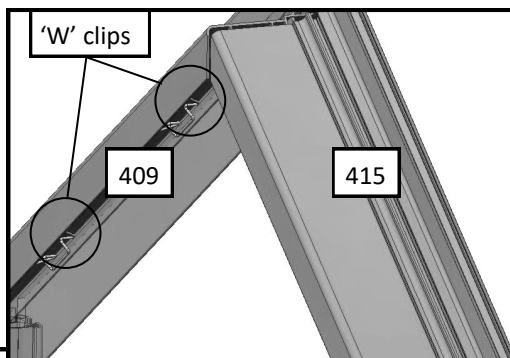
Please note **if your greenhouse will be tight up against a shed or a wall, then you should glaze those sides first** then very carefully move the building over to where you want it to be then carry on with the glazing. Its best to do this with as many helping hands as possible as this will be very heavy.

Ideal glazing procedure is as follows...

Glaze two diagonal opposite roof sections to ensure the building is square. Start with the front left roof section and the far right roof section. If this is proving difficult . Use a spirit level in the gutter to assess the vertical aspect of the structure. If it is not level, then the glass will not fit properly so you need to ensure the building is straight and level.

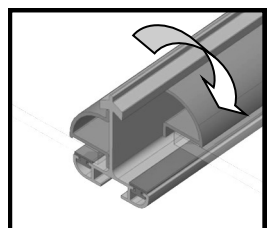
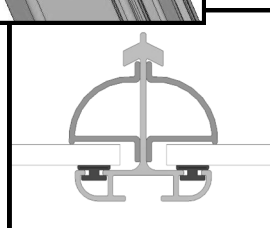
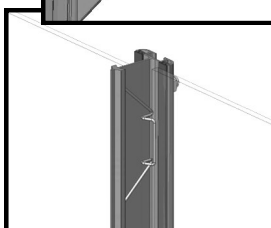
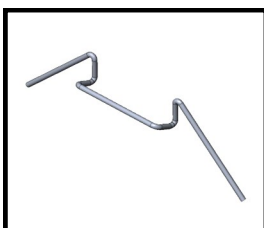
Leave the roof for now, and move on to glazing the front and rear gables. This helps with confirming how vertical the structure is. At the front, glaze either sides of the door and the panes above can be fitted later.

Once the door is in place, you (CC). Be sure to include the top of the door track support the glass jack. Place two 'W' diagram below)



can fit the pane above the door glass jack (557) that goes on then pane CC can go on top of clips on each angled pane (see

Fit two W-clips on the top of each of your angled gable panes.



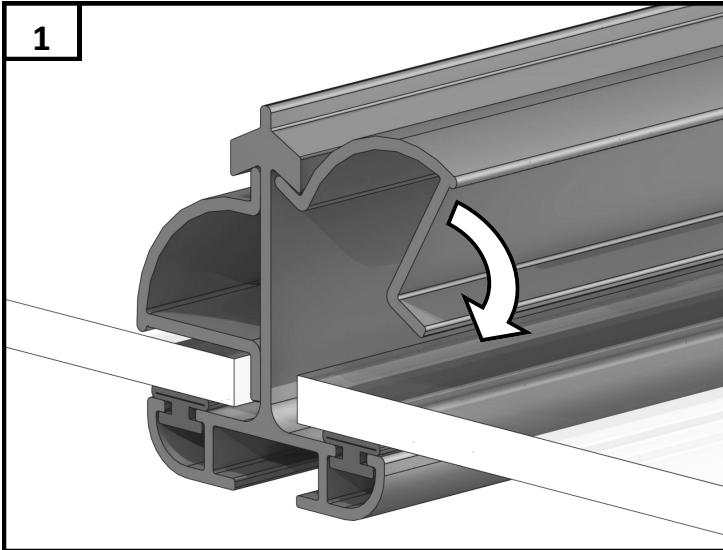
There are 2 glazing systems used, 'W' clips (used on the top edge of the angled panes in the gables. 2 per pane), and full length bar capping.

One end of the glazing clip hooks under the lip of the glazing bar. The bottom edge of the clip fits round the face of the glass. The final end of the clip is also hooked under the lip of the glazing bar.

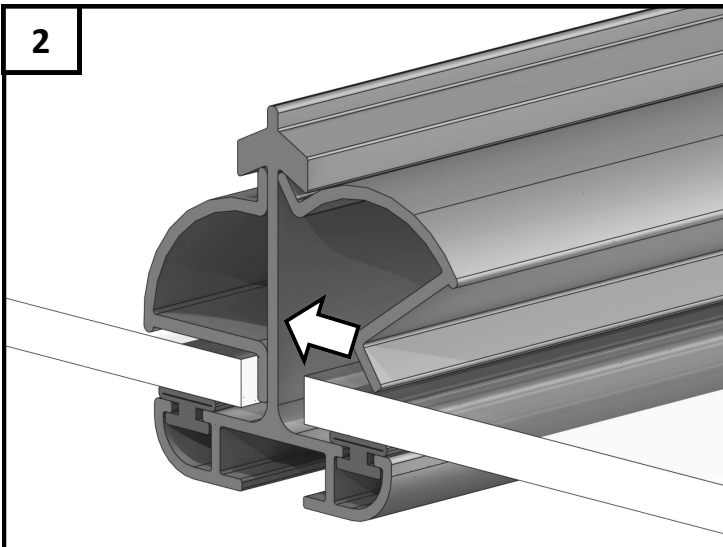
The bar capping runs the full length (P.T.O for exceptions) of each pane. It is inserted by hooking the top edge under the lip of the glazing bar and sliding the flat face across the face of the glass.

Glazing with Bar Capping

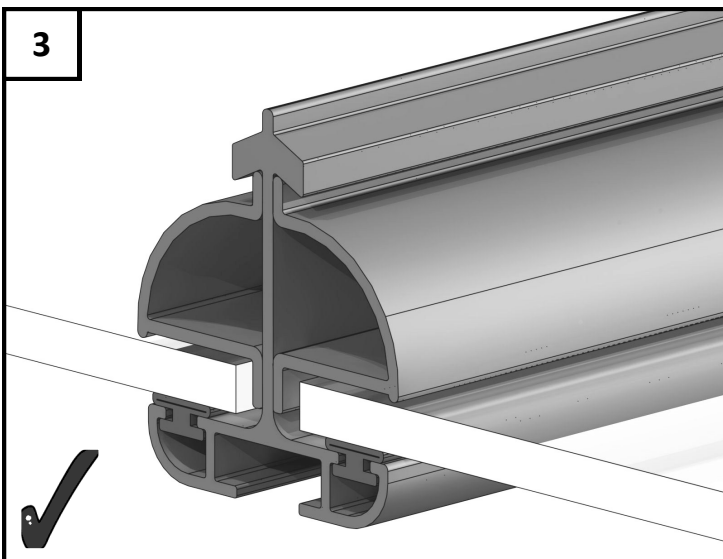
1



2



3

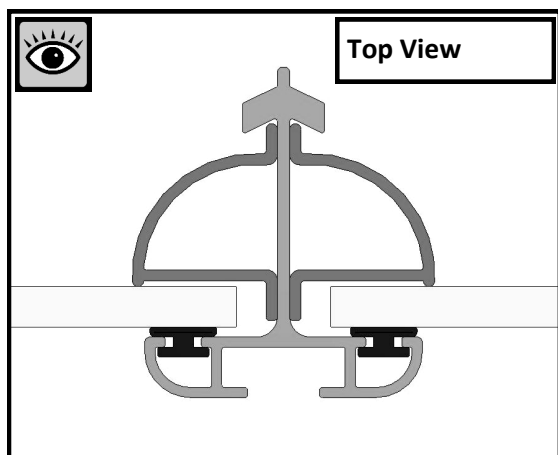


Key Points:

BAR CAPPING AROUND LOUVRES - Bar capping can go down each side of a louvre but it is a very tight fit. It is far easier to cut the capping so that it only goes on the glass above and below the louvre and not down the louvre side where it serves no purpose.

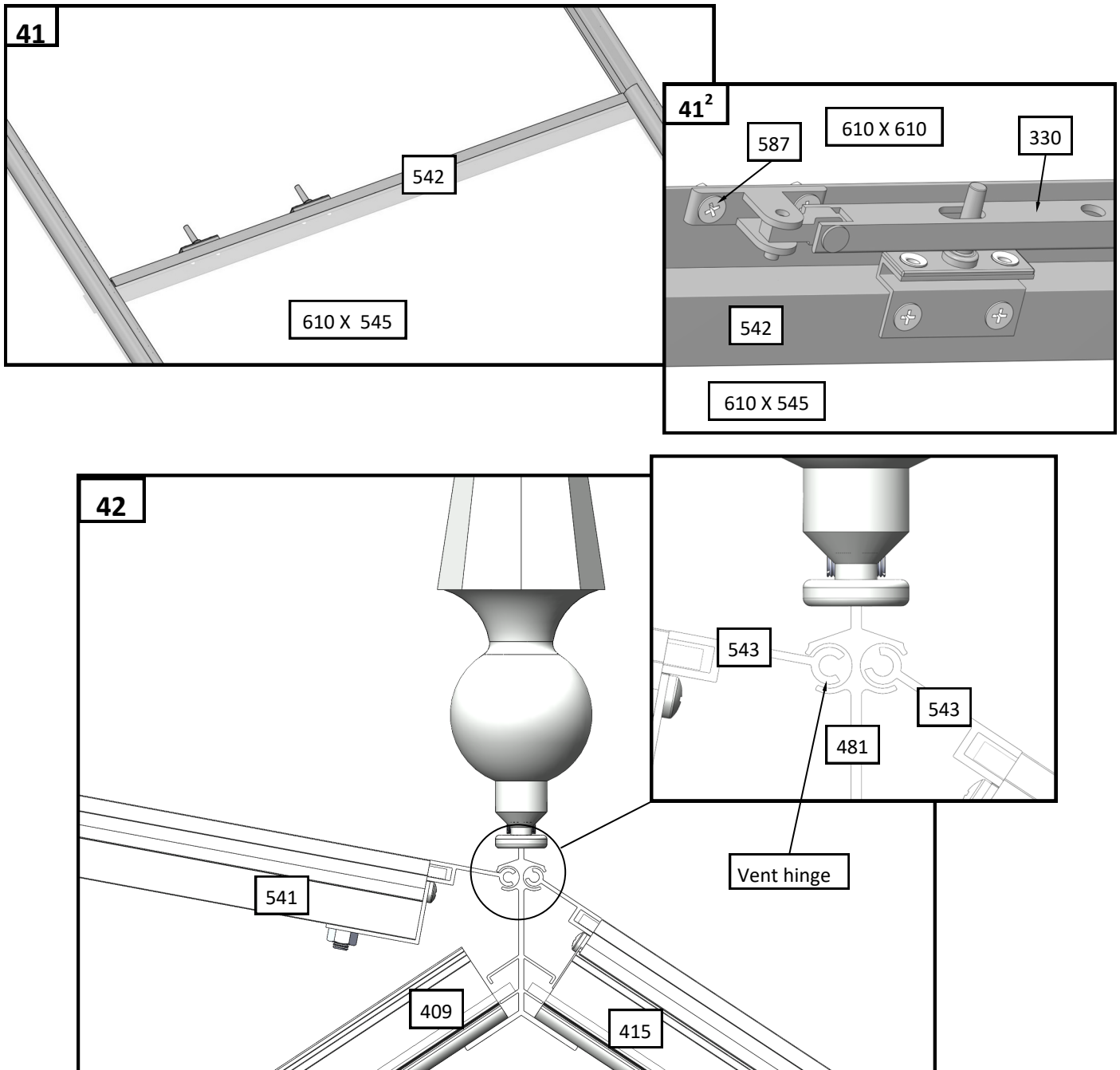
BAR CAPPING GENERAL - Do not tighten the bolts up fully until just before you put on the nut caps at the end of construction. Keeping the frame loose will help when inserting the bar capping allowing the building to expand slightly. In order to keep the glass central to its aperture during glazing it is a good idea to start off the capping on both sides. go 8" up each side and then choose one side to go all the way to the top.

BAR CAPPING UNDER VENTS - When you are glazing the roof you will need to cut the bar capping around the vent. The best tool for the job is a **hacksaw**. The capping can be cut down to just below the slam bar so that the vent can close down fully.



Don't be afraid to use some force when pressing the bar capping in as the glass will be able to withstand it.

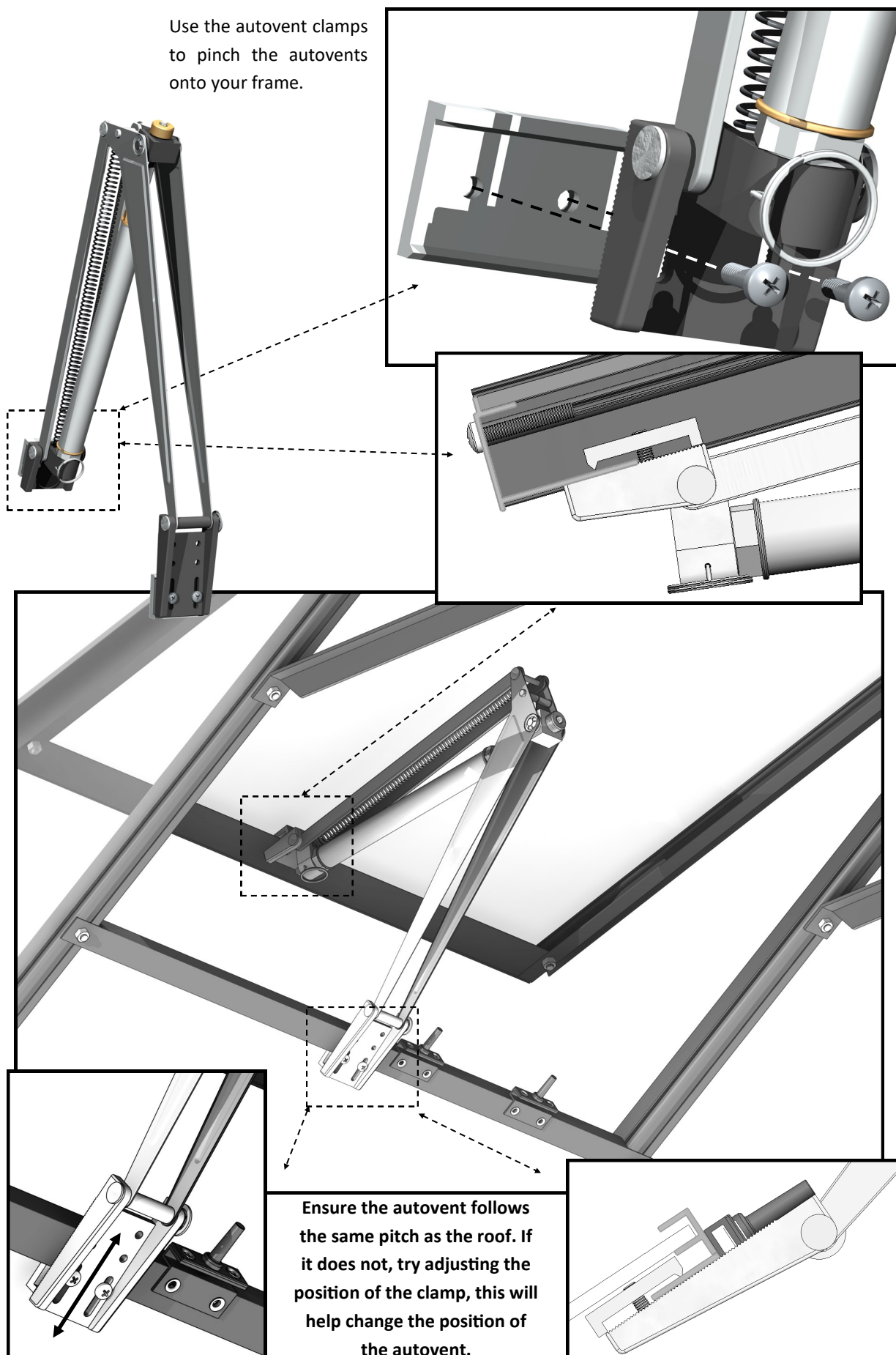
VENT INSTALLATION



1. Take the slam bar and slot it onto the bolts inserted in the roof glazing bars during the main building assembly, loosely fit the nuts. Now slide the slam bar onto the top of the pane of glass, below where the vent is going, and tighten the nuts (Diagram 41).
2. The vents should be slid into the ridge from either end after glazing. Please note that the rest of the roof should be glazed before the vents are inserted (Diagram 42).

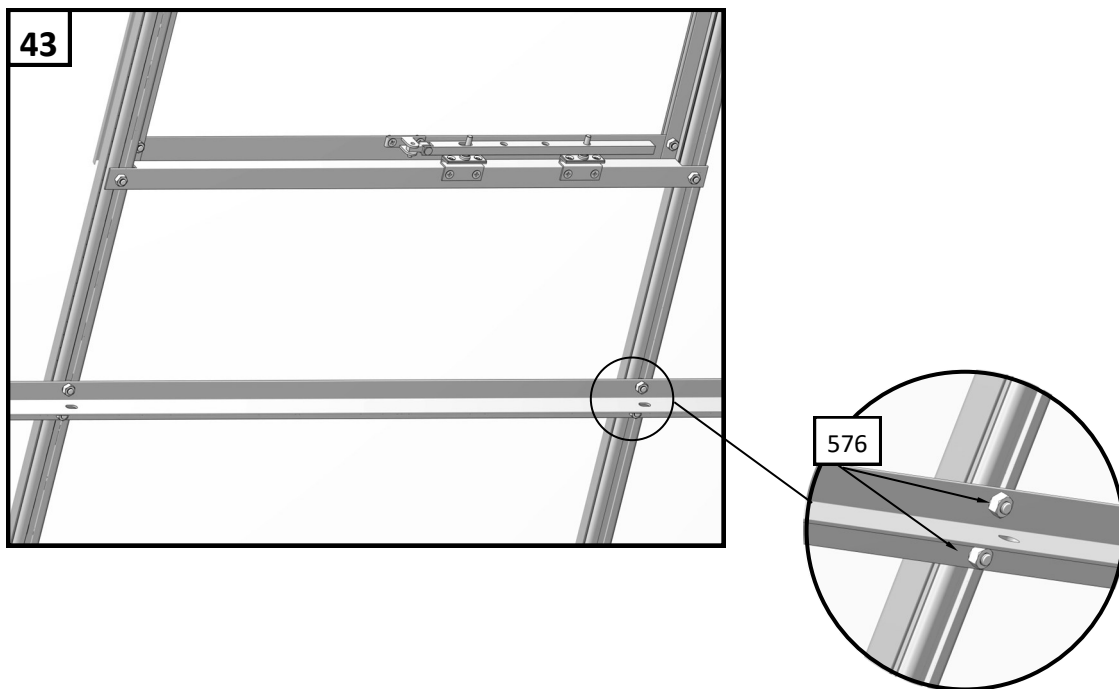
XL AUTOVENT ATTACHMENT

Use the autovent clamps to pinch the autovents onto your frame.

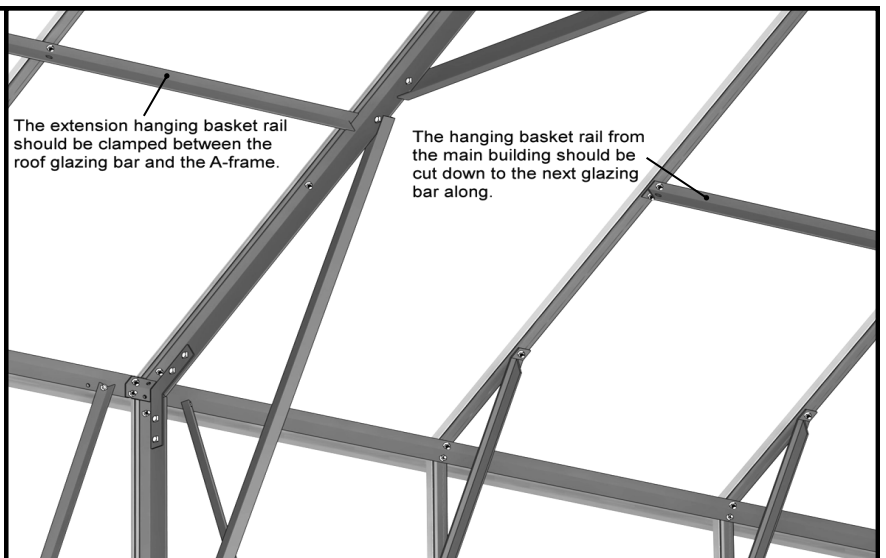


HANGING BASKET RAIL

1. The hanging basket Rails are fixed below the vents on the undersides of the roof.
2. Use the two remaining bolts in the bolt channels of the roof bars to attach the hanging basket rail. Start at one end loosely attaching nuts and work along to the other end. (If you are using an autovent you may need to adjust the position of the bars to allow the autovent to work freely).
3. The easiest way to ensure the rail is level all the way along is to hook a tape measure on the underside of the gutter and mark the two roof corner bars in the position you would like it.
4. Once you are happy with the position of the bars tighten all the nuts.



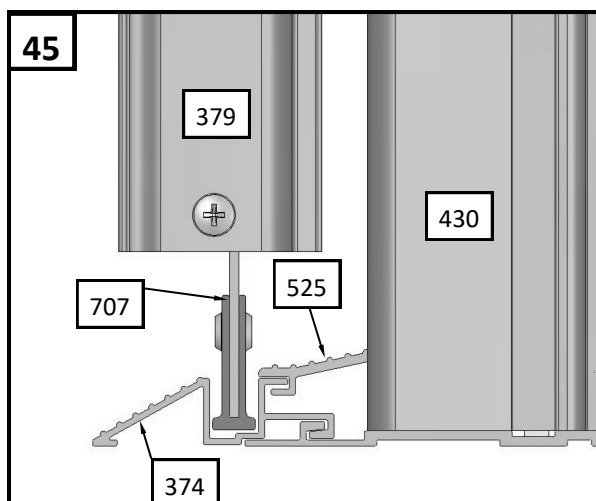
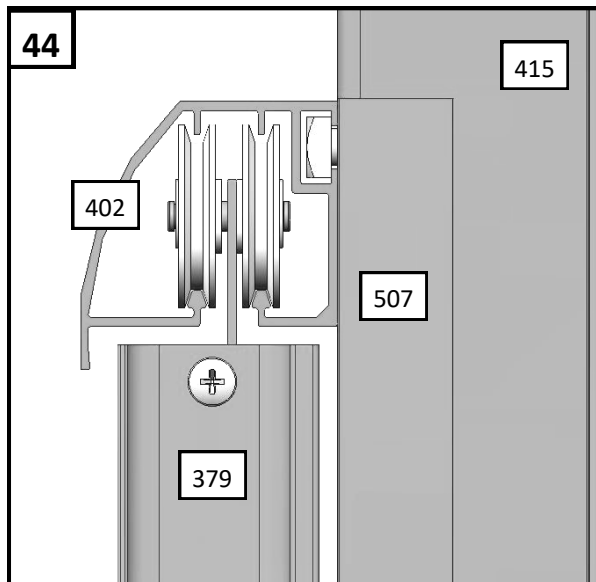
If you are fitting hanging basket rails to a building with an extension you will need to do the following. The main building's hanging basket rail will need to be cut down with a hacksaw to attach to the glazing bar in front of the A-frame. The extensions hanging basket rail is already notched out so that it can be clamped between the roof bar brace of the A-frame and the roof glazing bar.



DOOR INSTALLATION

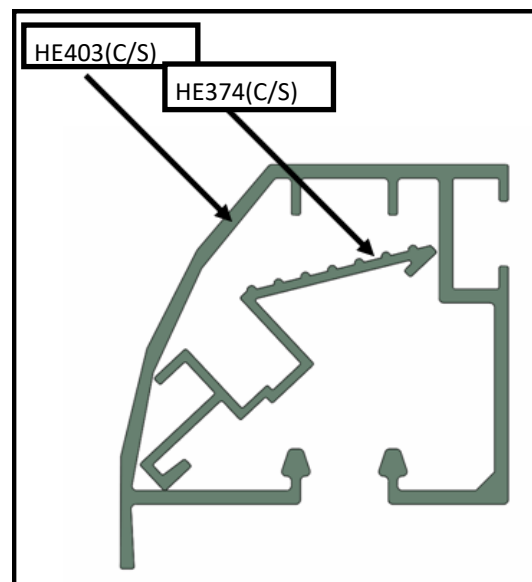
1. Take one of the doors and locate the first set of door wheels on the rails in the door track (Diagram 44). When doing this you also need to locate the door guide on the bottom of the door in the door runner (Diagram 45). When both of these are located slide the door further along the track until you can locate the second set of door wheels. To locate the door wheels and the door guide you will probably have to adjust the height of the door track, you do this by loosening the bolts that join the door track support bracket to the front glazing bars.
2. With the door half open you can now add the door stop (Diagram 47 & 48). Before you attach the door stops you should push on the door stop bungs (560).
3. Repeat step 1 and 2 for the second door. If you find that the door doesn't run very well at first, it is possible to fine tune this by adjusting the bolts on the main door track support. (You can also use WD40 on the door wheels and rails for an even smoother running door).

General maintenance: For a smooth running door you should oil the wheels regularly and keep the bottom door runner clear of grit by swilling with water.

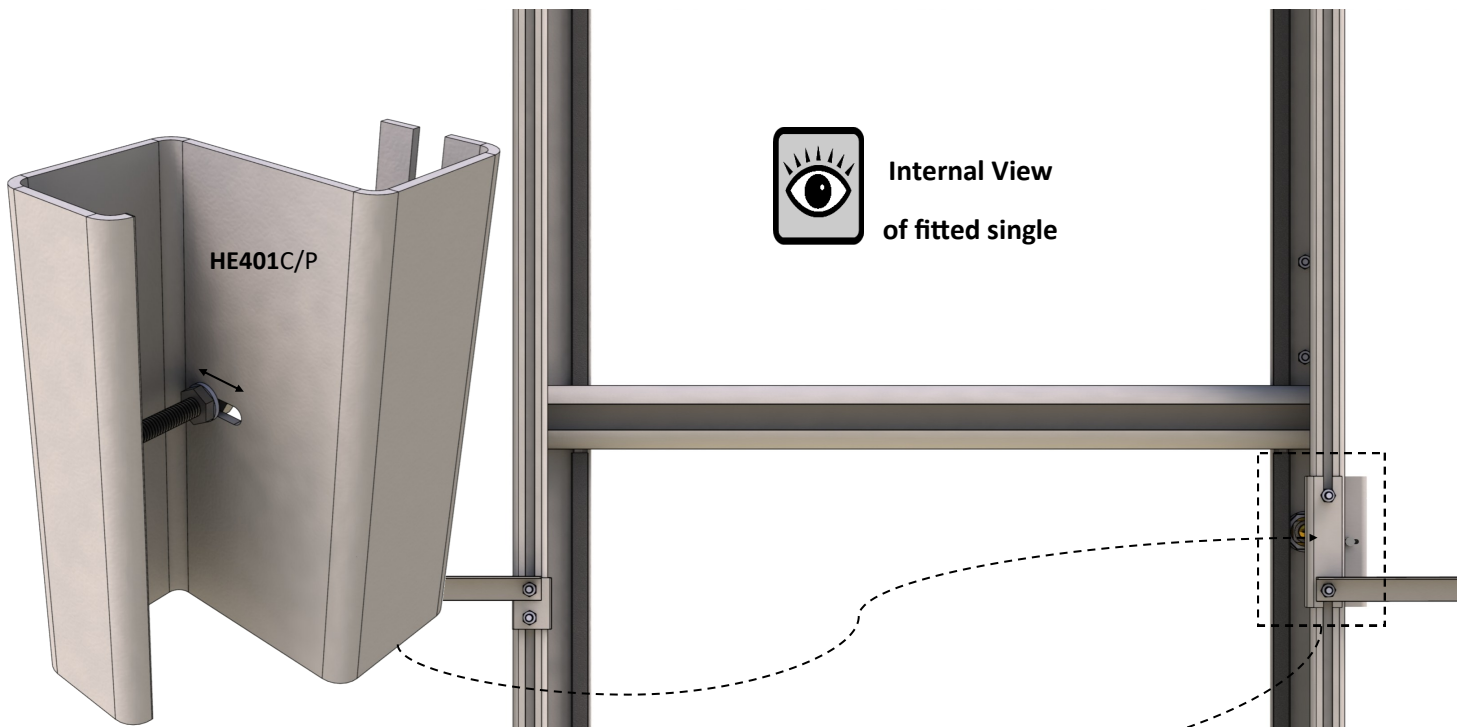


IMPORTANT **CHECKING OF PARTS -**

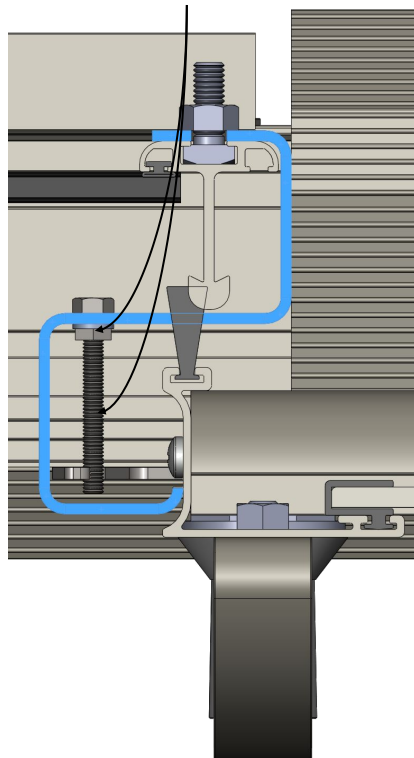
The Door Runner - HE375(C/S) is often reported missing, this can be found inside the Door Track - HE403(C/S)



DOOR Strike

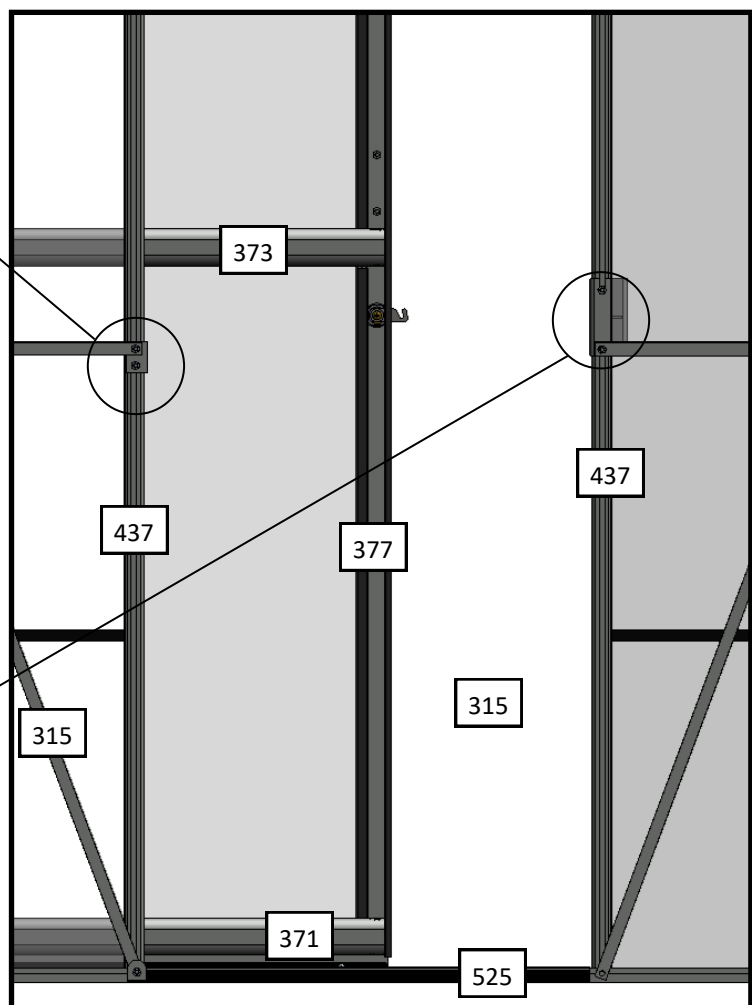
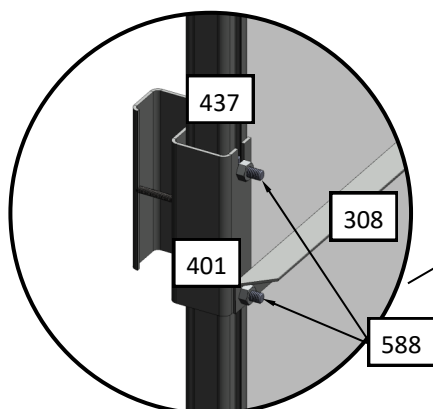
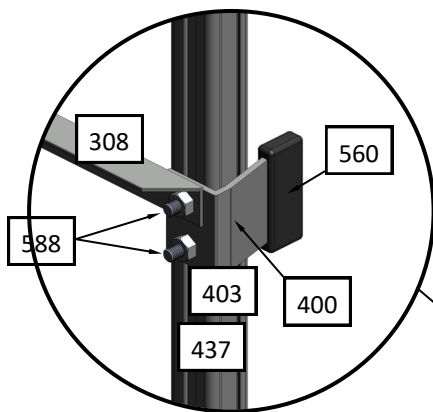
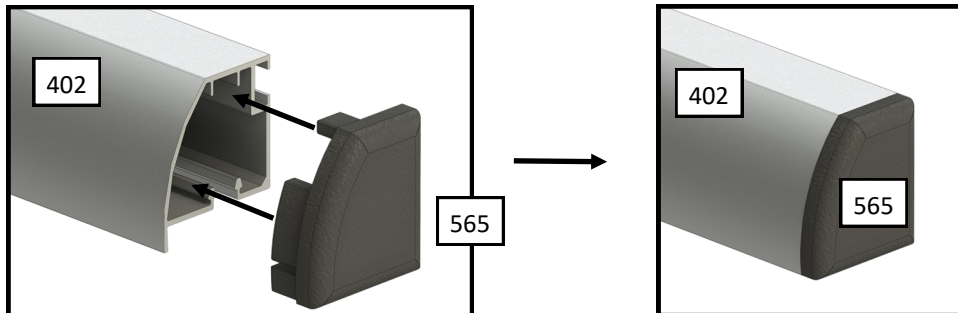
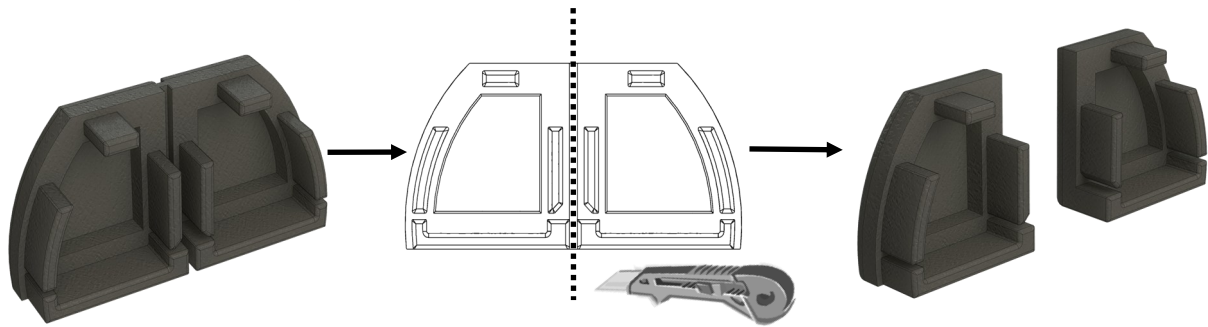


The HE401 (C/P) door strike should be fitted with a 35mm long M4 bolt, code 'HE589' and an M4 lock nut, code



DOOR INSTALLATION

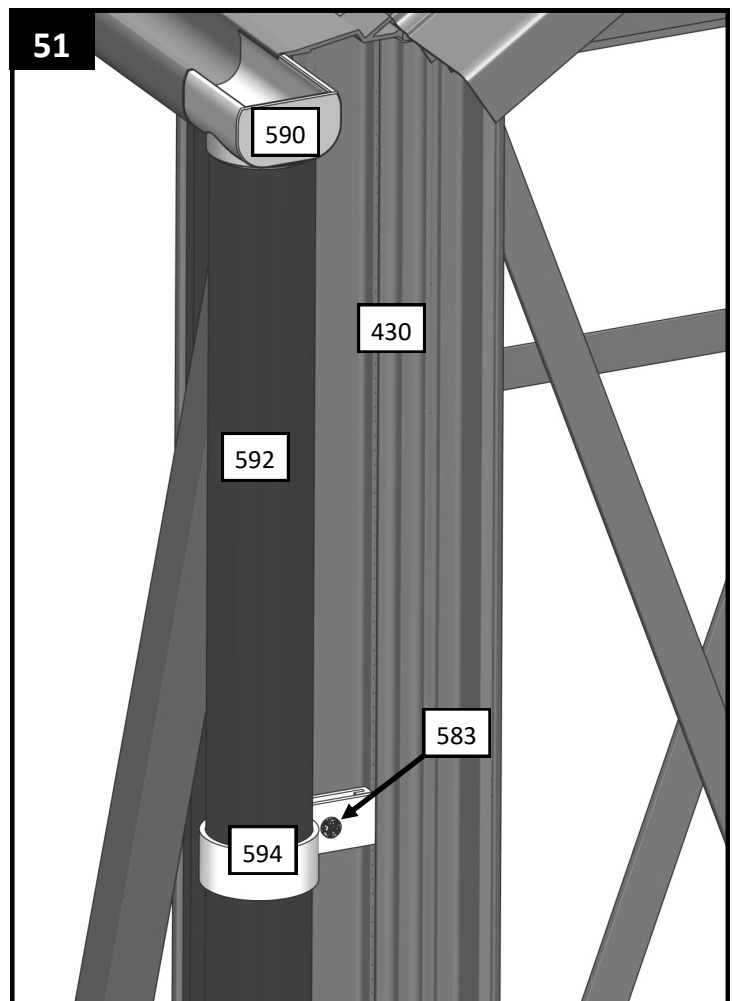
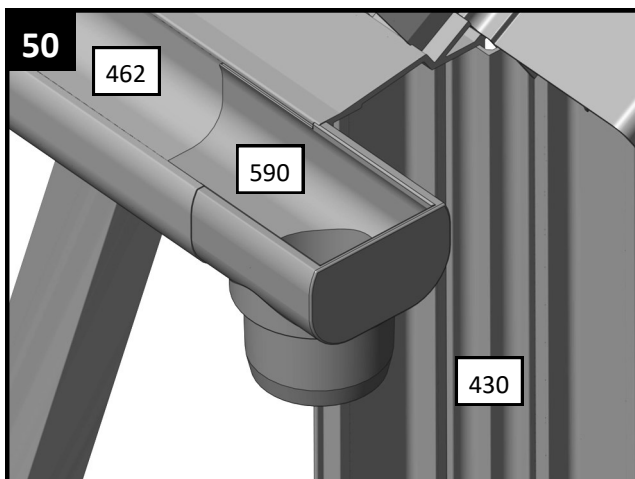
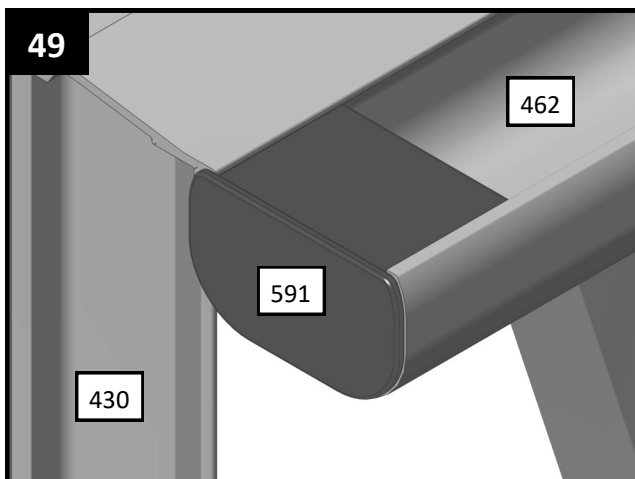
HE565 Door Track Caps— These are to be fitted after the doors are hung



DOWNPIPE INSTALLATION

Part No. Code Example (HE300)	583	590	591	592	593	594
Profile						
Length (mm)	19	70	26	1500	-	-
Quantity	2	2	2	2	2	2

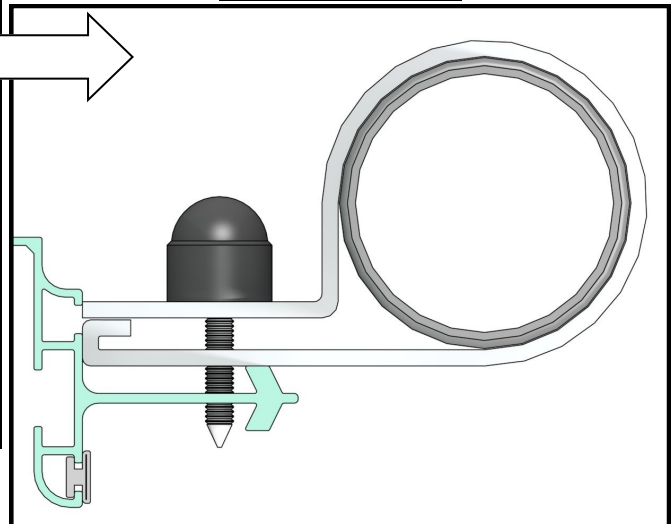
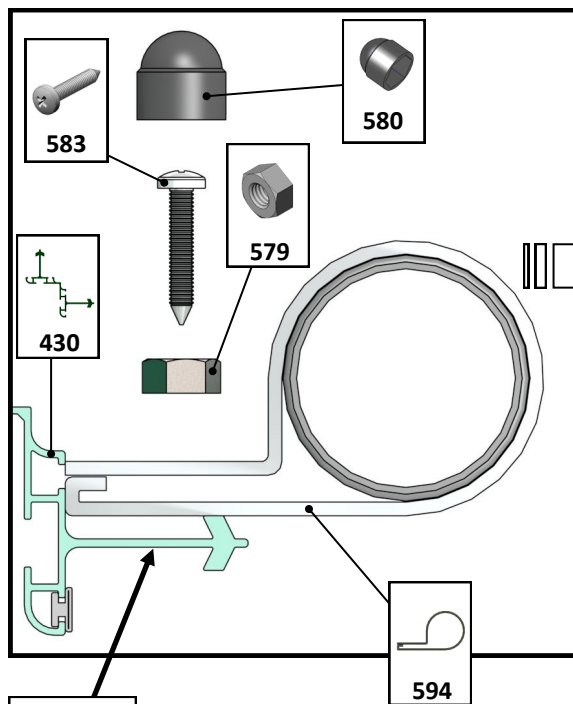
1. The gutter outlets and stop ends simply push into the gutters (Diagram 50 & 51). For an even better seal you could run a bead of silicone around the inside edge of the gutter before inserting the outlet and stop end.
2. Now take the downpipe and slide on the bracket. Insert the downpipe into the outlet.
3. When you are happy with its position line up the next bracket with the side corner bar and fix using one of the 2 methods shown on the next page
4. Finally push the 45 degree pipe (593) onto the end of the downpipe to direct the flow of water.
5. Repeat on the opposite corner.



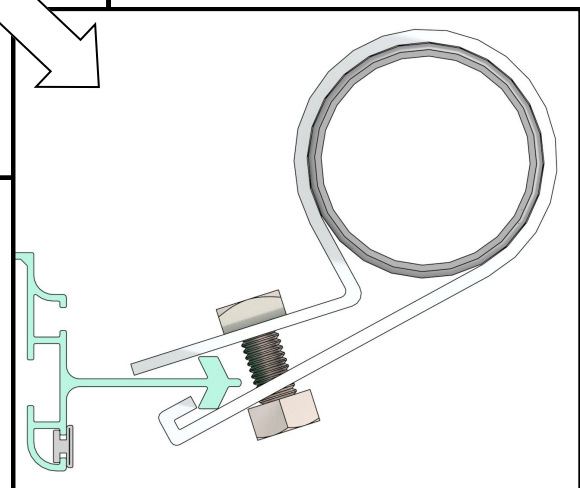
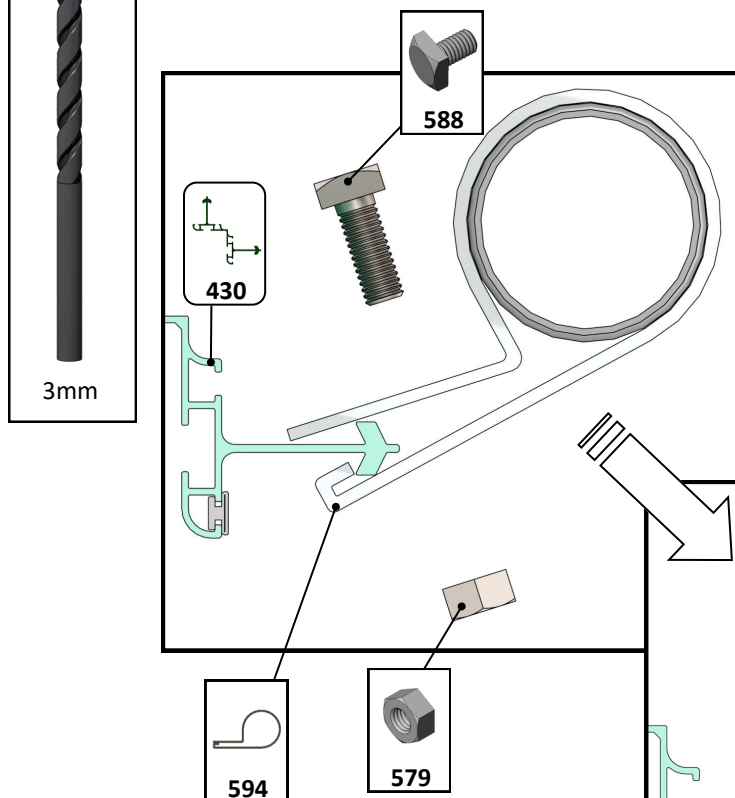
Downpipe Attachment

Choose one of the options for attaching your downpipes. It is entirely your preference, either method is as good as the other.

Option 1



Option 2



FINAL FIXING

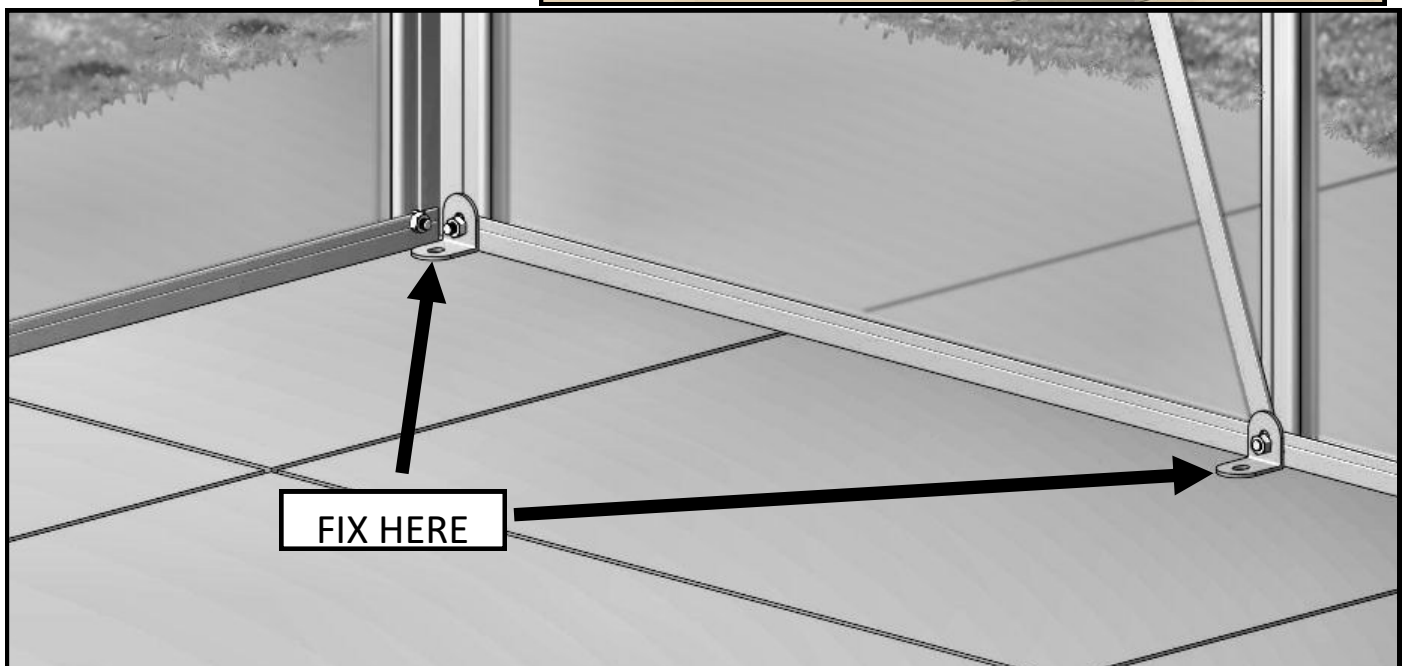
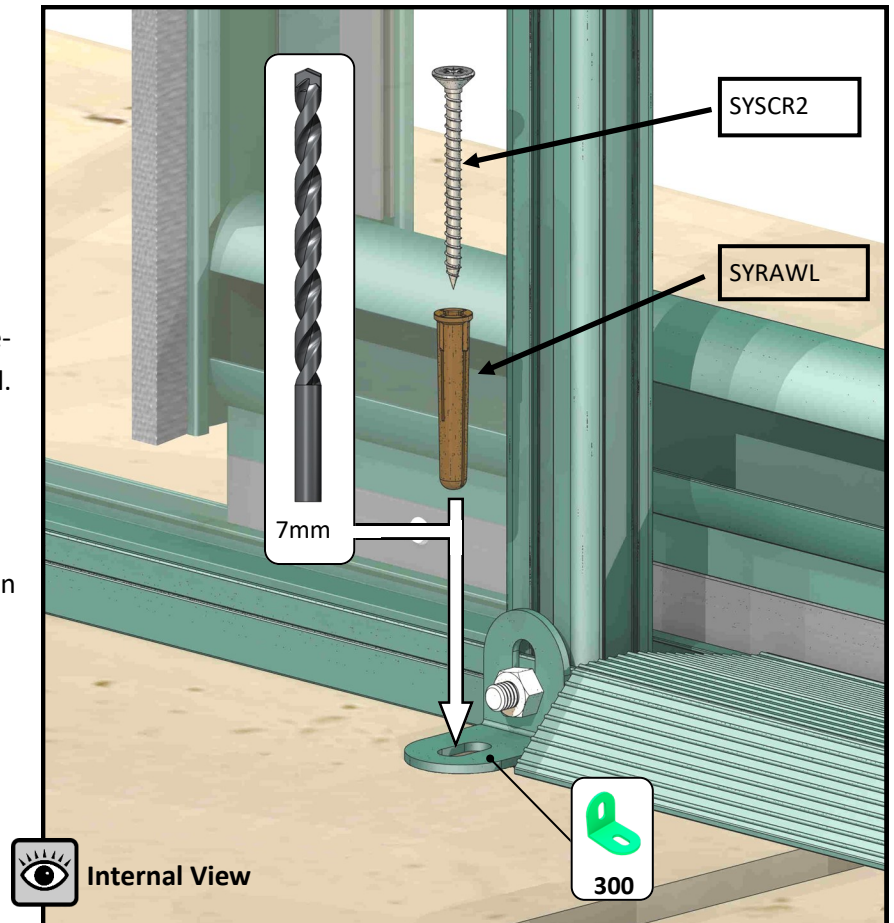
ANCHORING BUILDING

IMPORTANT

Do not fix the greenhouse to the base until the greenhouse is fully glazed.

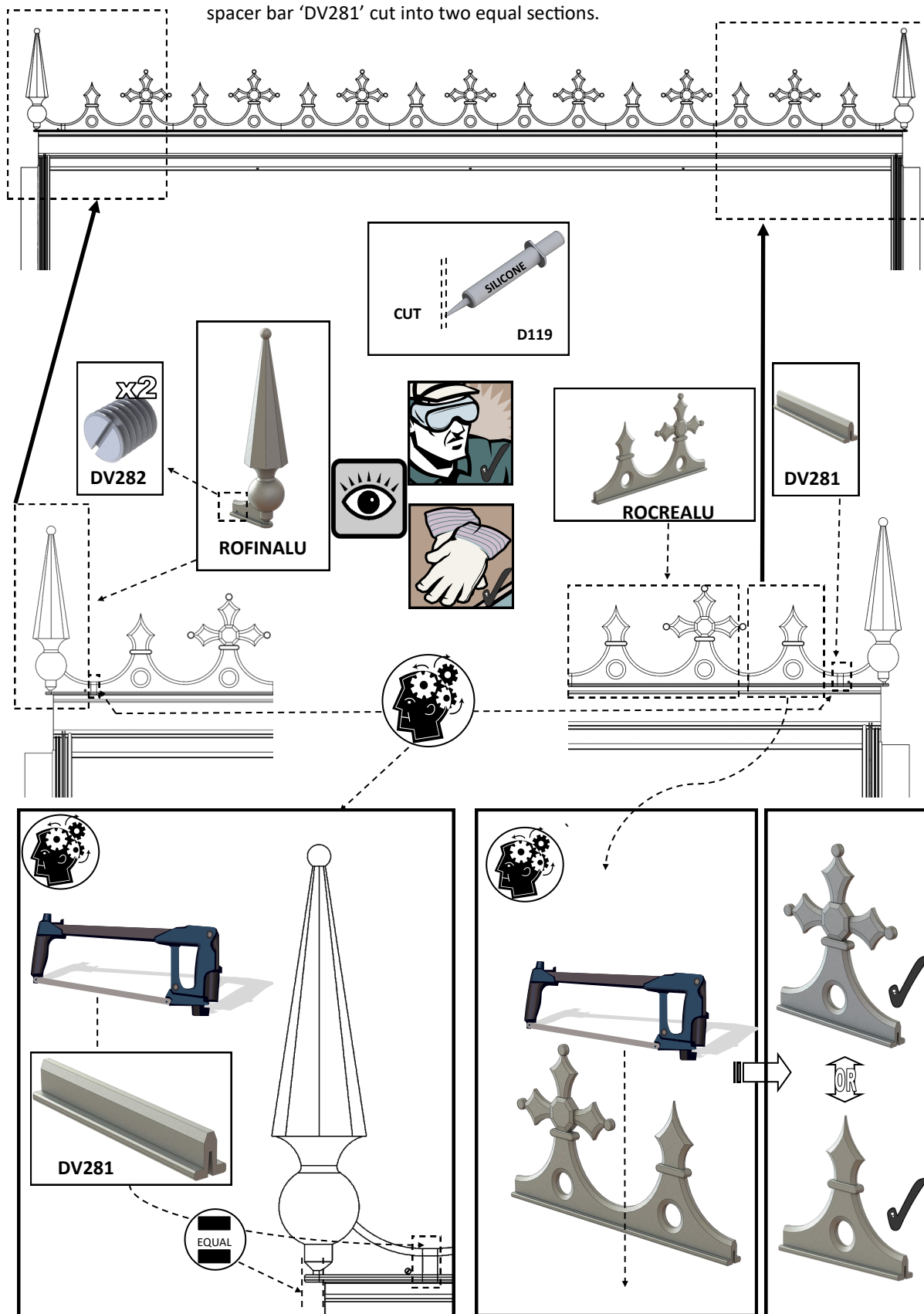
First of all, ensure the greenhouse is level and the uprights are vertical before fixing. Do this using a spirit level.

Drill through the holes in the base bracket into the concrete below and insert the wall plug into the hole then drive a screw into the hole to secure the greenhouse down.



Aluminium Cresting (Optional)

- 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.





The
Greenhouse
People

Auto Louvre HELPSHEET

Please read ALL before you begin.

INSTALLATION INSTRUCTIONS:

Please note that the 'Auto Louvre' (AL) must be fitted to a assembled and glazed louvre situated in its final greenhouse location.

1. Remove the louvre handle by drilling through the rivets, marked A.
2. Remove the screw in the louvre operating handle, marked B leaving a hole ready for 'AL' attachment.
3. Check that your louvre opens and closes properly without rubbing on its frame. Oil any moving parts if necessary.
4. Close the louvre ready for marking out.
5. Hold your 'AL' up to its frame.
6. Check that the black plastic pivot pin (a) goes through the lower hole in the 'AL' arm. Attach the 'AL' to the louvre operating handle through the previously mentioned hole (step 2 above) using the plastic catch (b/c).
7. Push the 'AL' against the frame ensuring that its flush and square. The louvre should still be in the closed position. Mark the position for the holes on the louvre frame.
8. Drill the two 3mm holes which you have marked.
9. Use the screws provided, to screw the unit to the louvre frame.

OPERATING INSTRUCTIONS:

Please note adjustments CANNOT be made without operating the unit manually by pulling down on the louvre arm to relieve the return spring pressure.

After allowing the cylinder to reach the temperature at which you require the louvre to start opening operate the louvre manually by pulling down on the arm to remove the pressure and firmly turn the adjusting screw in the direction of the 'LO' arrow (clockwise) until the unit begins to move the louvre without manual assistance. Any rise in greenhouse temperature will now cause the louvre to open wider. Please note: Further adjustment may be necessary in which case repeat the process above.

Your 'AL' can be adjusted to operate at different temperatures by turning the adjusting screw (LO, clockwise / HI anti-clockwise). Remember to relieve pressure by pulling down the louvre arm making the turning easier.

MANUAL OVERRIDE:

If you wish to open or close the louvre manually remove the top half of the plastic catch and carefully remove the link arm from the black plastic pivot pin. Providing you do not move the unit or the adjusting knob the unit will operate at your chosen temperature when reconnected.

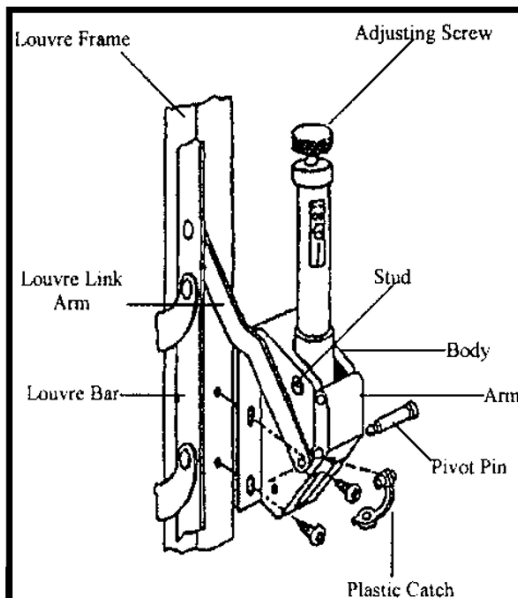
TECHNICAL INFORMATION:

Opening temperature range adjustable between 15°C and 25°C (59°F and 77°F).

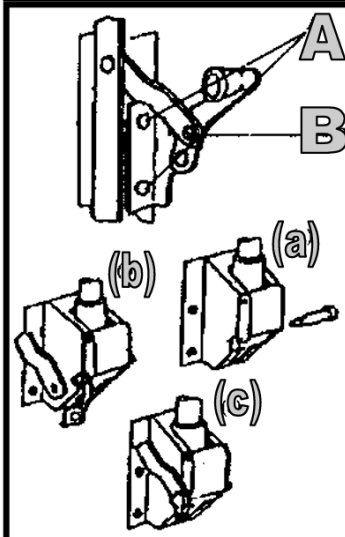
Do not heat the AL to more than 50°C (122°F).

Do not apply excessive loads by locking or covering louvre.

Do not attempt to dismantle the cylinder.



Please note that on most louvre's you will have to drill two 3mm holes for the louvre fixings. It is not a case of using the newly exposed rivet holes.



If you would like a brochure containing our extensive product range then please contact us at,

If you have any queries please do not hesitate to call us on

01782 388811.

www.thegreenhousepeople.co.uk

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Notes

Notes

BASE PLAN

See pages 6 and 7 for further details

Size	Width mm	Length mm
6 X 4	1955	1374
6 X 6	1955	1994
6 X 8	1955	2614
6 X 10	1955	3234
6 X 12	1955	3854
6 X 14	1955	4474
6 X 16	1955	5094
6 X 18	1955	5714
6 X 20	1955	6334
6 X 22	1955	6954
6 X 24	1955	7574
6 X 26	1955	8194
6 X 28	1955	8814
6 X 30	1955	9434

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