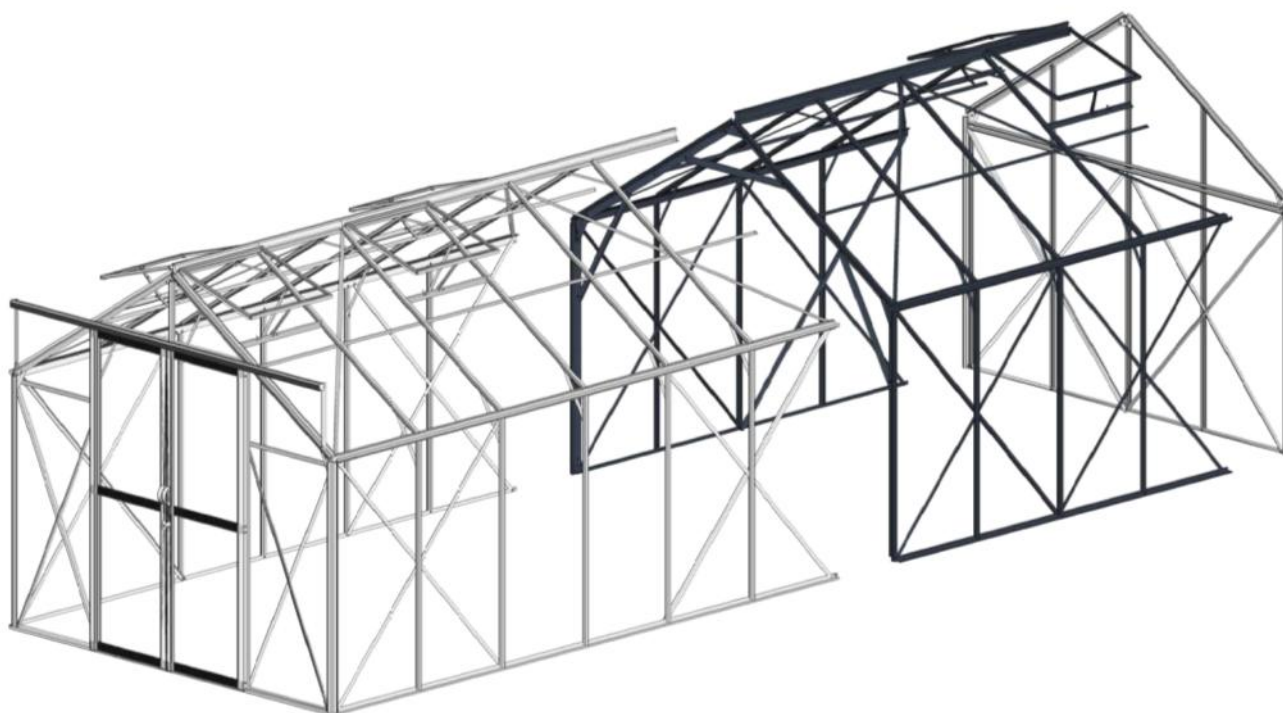




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Titan 912 and 914 Extension ASSEMBLY INSTRUCTIONS



**To be used in conjunction with
Titan 912 or Titan 914 instructions**

Parts list

A-FRAME

#	666	681	692	694	202	491	492	493	494	m6	a1	a8	a2	595
mm	1535	1571	1535	1500	850	-	-	-	-	-	M6X10	M6X15	M6	100
Ext	2	2	2	2	3	1	2	2	1	2	20	20	40	2

Side Wall

#	634	666	672	722	727	753	a1	a2
mm	2776	1535	2776	2055	2055	400	M6X10	M6
Ext	2	6	2	4	4	6	44	44

Roof

#	702	681	716	751	752	a1	a2
mm	2776	1571	2769	400	2084	M6X10	M6
Ext	1	6	2	3	4	34	34

2 Vents

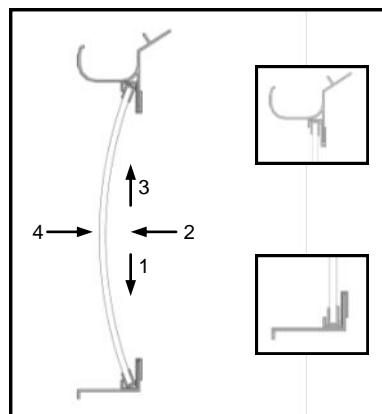
#	521	541	531	551	201	a1	a2	a4	a7	a9	p3	p10
mm	724	707	601	678	300	M6x10	M6	Φ3.9x8	M4x8	M4	-	-
Ext	1	1	2	1	1	8	8	2	2	2	2	1

Polycarbonate sheet

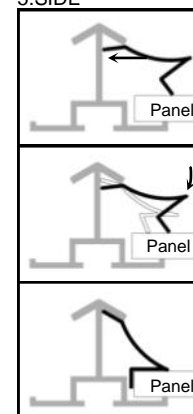
s-660	b7	s-660	s-660
c-1570	c-1570	c-1570	c-1570
B6	B8	B6	B6
c-938	c-938	c-938	c-938
s-660,f-3	s-660,f-3	s-660,f-3	s-660,f-3
s-660,f-3	s-660,f-3	s-660,f-3	s-660,f-3
c-1534	c-1534	c-1534	c-1534
b5	b5	b5	b5
s-660,f-3	s-660,f-3	s-660,f-3	s-660,f-3

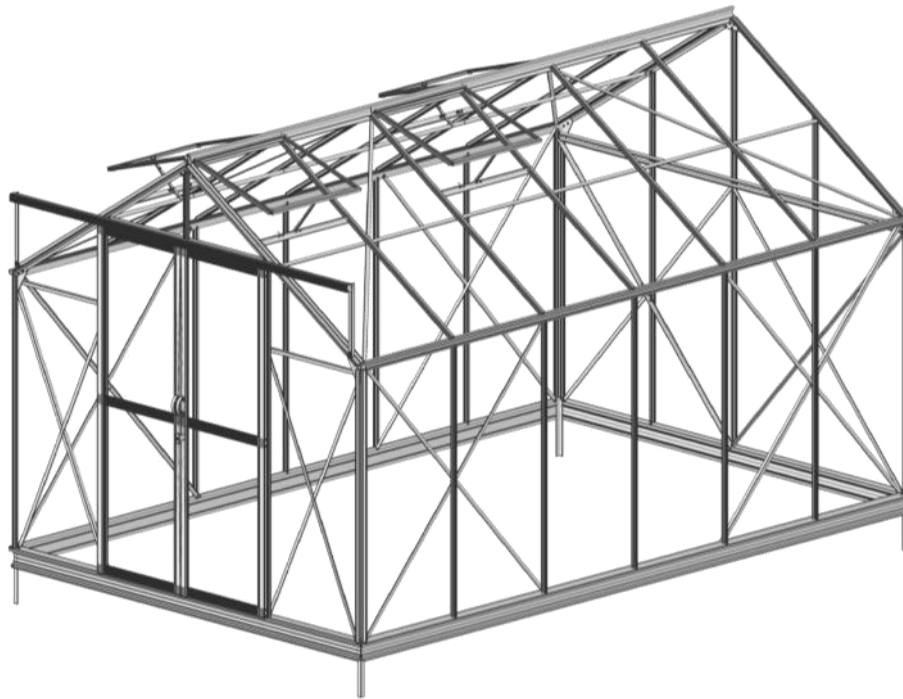
#		Size	Qty.
c		1534	16
		938	4
		1570	12
s		660	30
f		12	72

Assemble b5 Panel

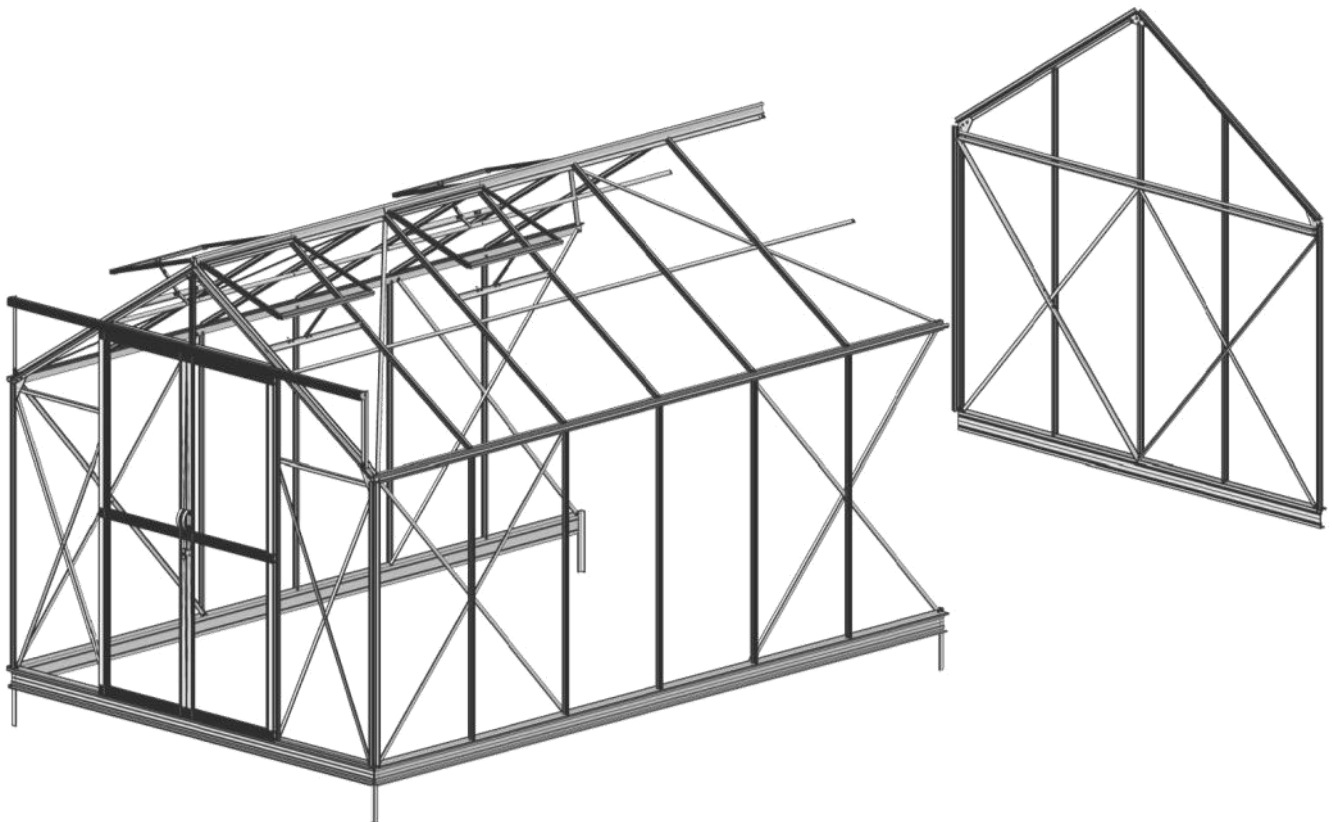


5.SIDE












Start with your completed greenhouse frame

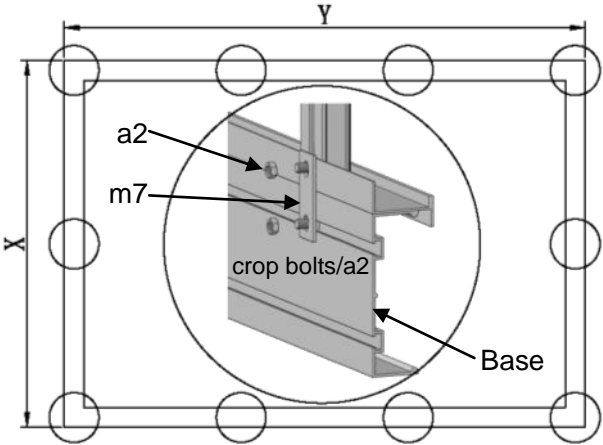
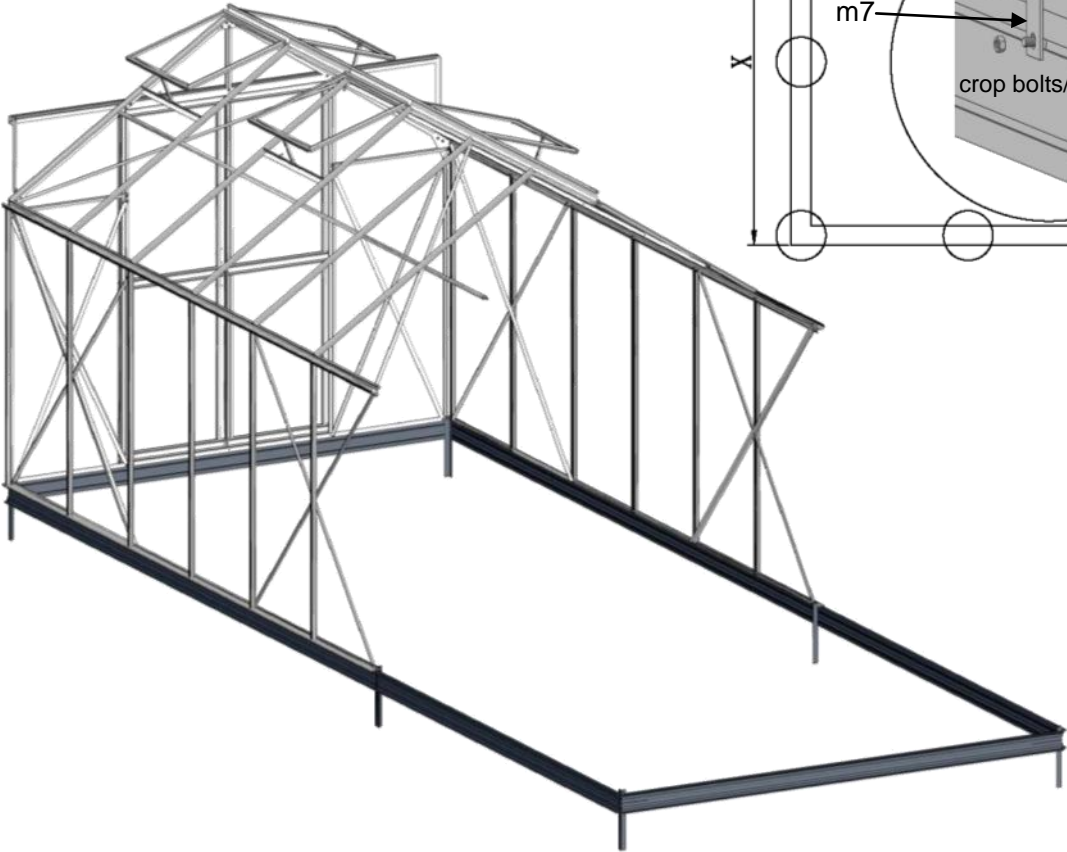
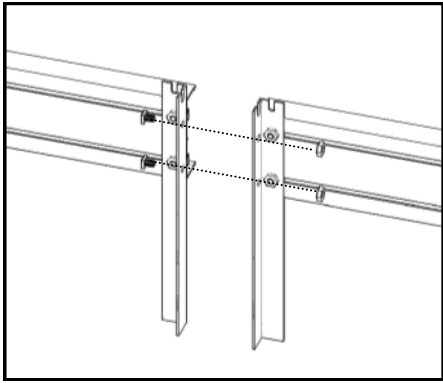
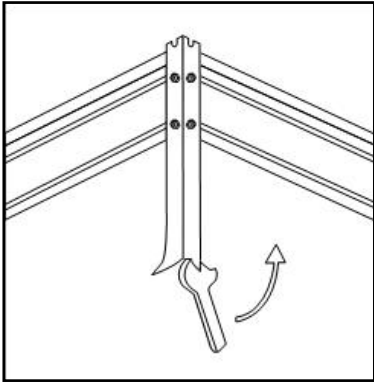


To add an extension unit disconnect the complete rear gable, together with the base. Put them aside for re-attachment later.

Extending the base

Model	Side profiles	Anchor leg	Fixing tab	Bolts/nuts		Crop bolts	Washer
							
EXT	2	4	8	16	24	8	8

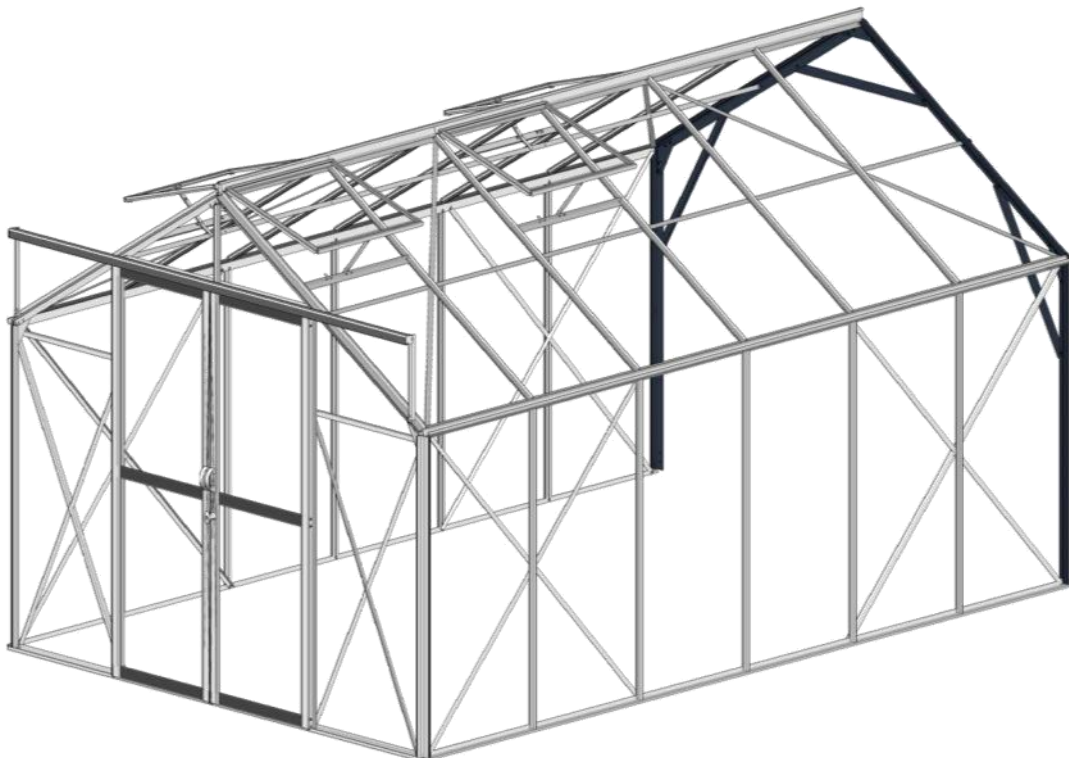
Width	Length	Combination
mm	mm	
2751	6319	one Titan 912 + one HB9 extension
2751	7013	one Titan 914 + one HB9 extension
2751	9095	one Titan 912 + two HB9 extension
2751	9789	one Titan 914 + two HB9 extension



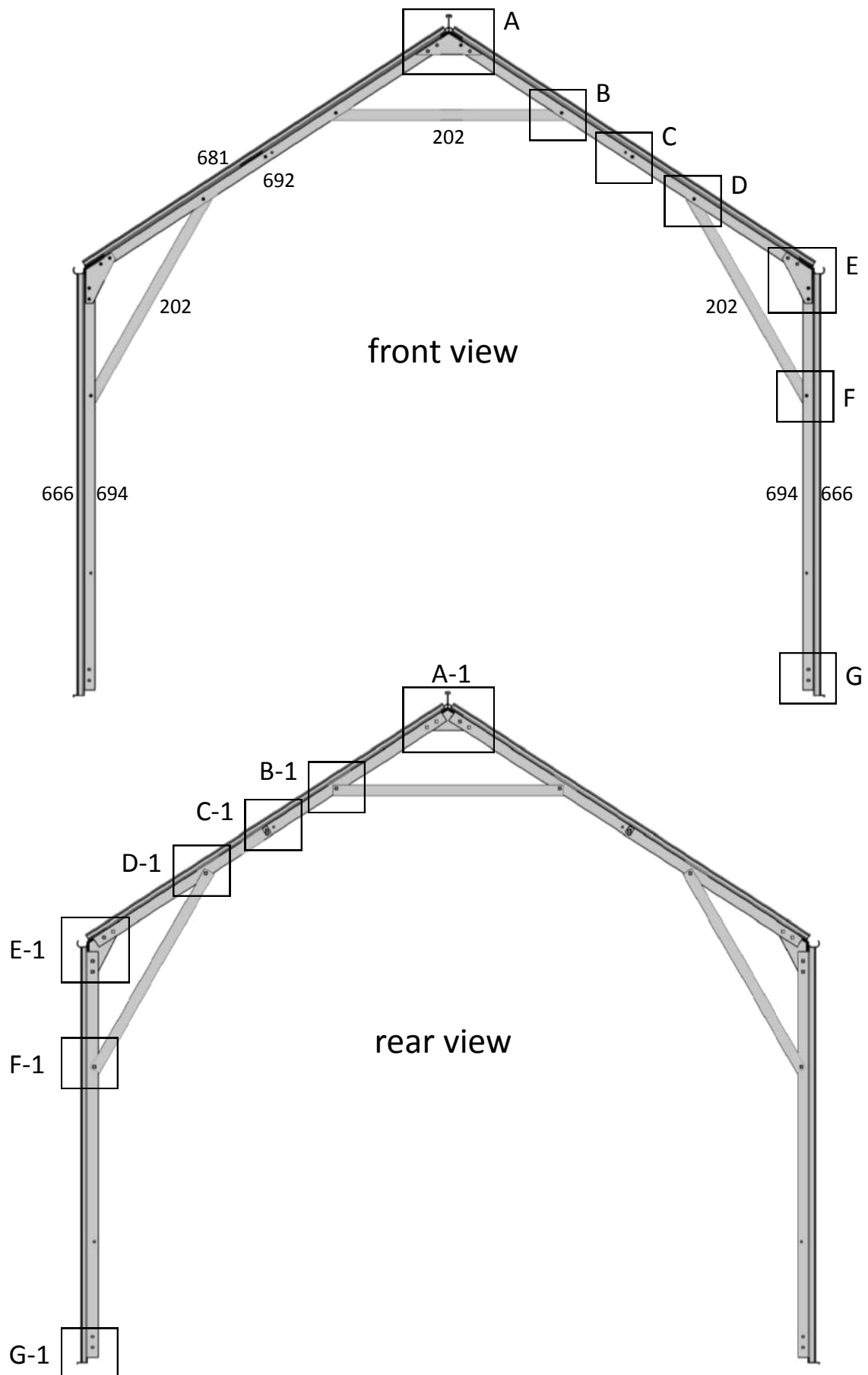
First extend the extend the aluminium base as shown above.

A-frame Layout

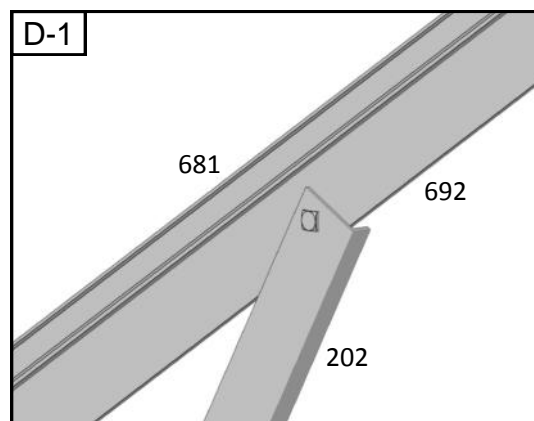
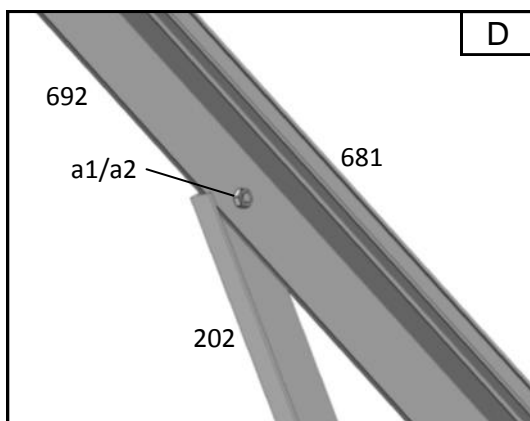
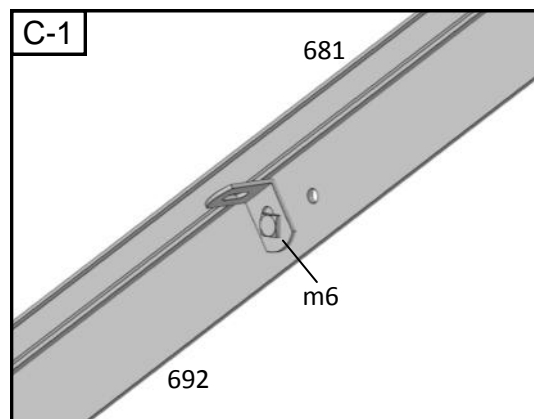
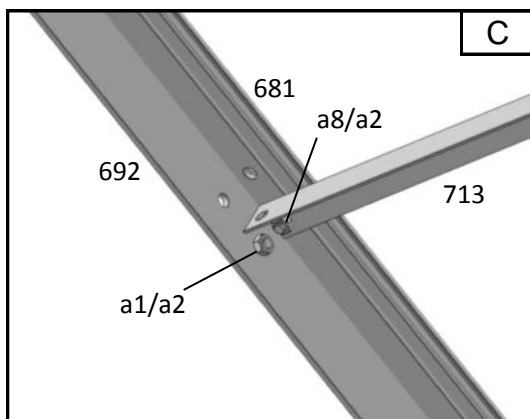
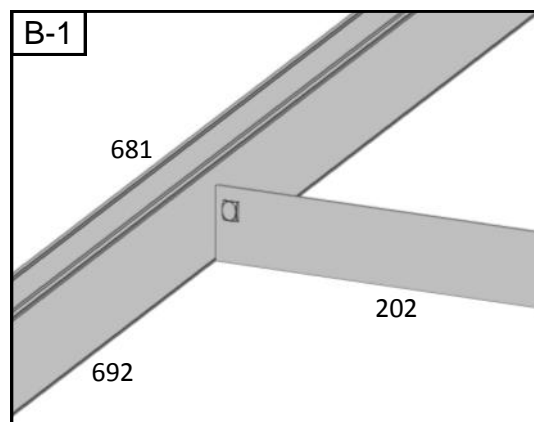
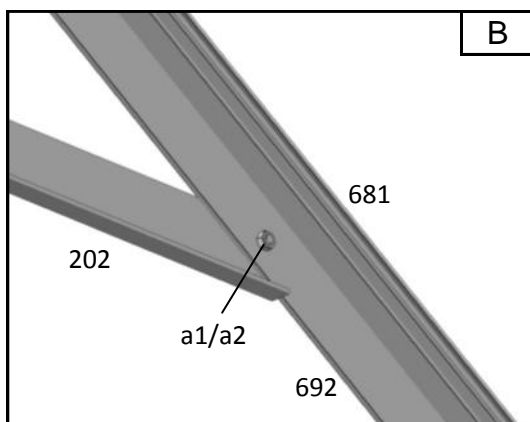
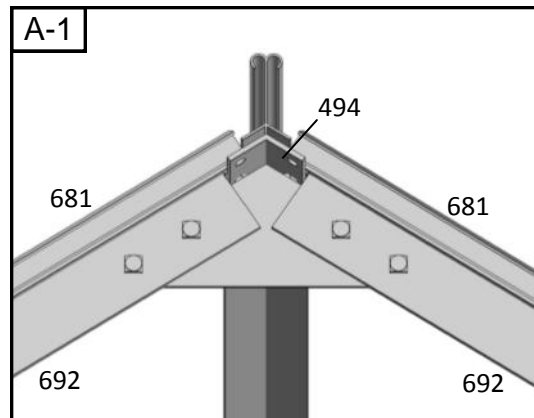
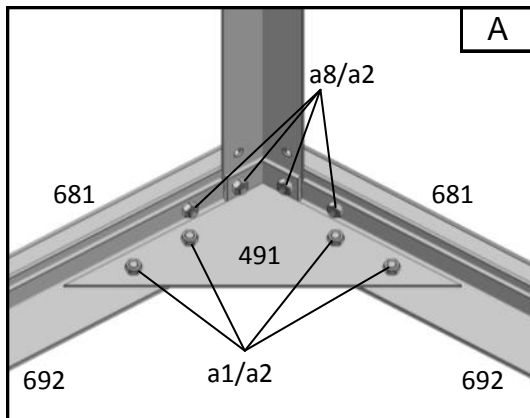
1. The A frame needs to be fitted to the original greenhouse. You need two side glazing bars (666) and two side bar braces (694). First insert three 15mm bolts into the channel on the back of the glazing bar. Locate these bolts with the holes on the short flange on the side bar brace (694) and with them equally spaced lightly tighten.
2. The roof and side wall glazing bars now need to be placed in position, these fix at the end of the main building's gutters and sills. Secure a side bar to the sill using a 15mm bolt followed by a sill extension bracket. Lightly tighten the nut, (Diagram G&G-1) . Make sure the large flange on the side bar brace (694) is facing towards the front of the building with the small flange pointing towards the rear (Diagram G&G-1). Insert another 10mm bolt in the top of the bar and angle it into the slot at the end of the gutter. Place the gutter extension bracket over this 10mm bolt and lightly tighten (Diagram E&E-1). Repeat this on the opposite side.
3. Now the roof bars (681) have to be installed. These need the roof bar braces (692) attached to them in the same way as in step 1. Take one of the roof glazing bars with a 10mm bolt pre-inserted in the bolt channel. Locate it on the slot at the end of the ridge. Place the ridge extension plate onto the bolt and lightly tighten the nut (Diagram A). Push another 10mm bolt into the bottom of the glazing bar and align it with the gutter and the gutter extension plate (Diagram E&E-1). Repeat on the other side.
4. The A-frame brace (202) can now be attached to the roof bar braces (692) using 10mm bolts. This A-frame brace is also used across the eaves and is attached using 10mm bolts.
5. Check that the ridge is level and straight and the sides are vertical. Then tighten all the bolts.



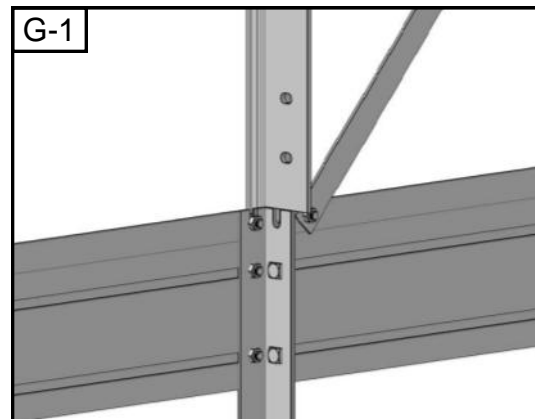
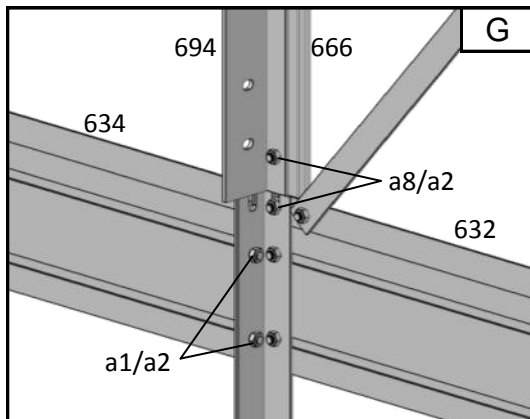
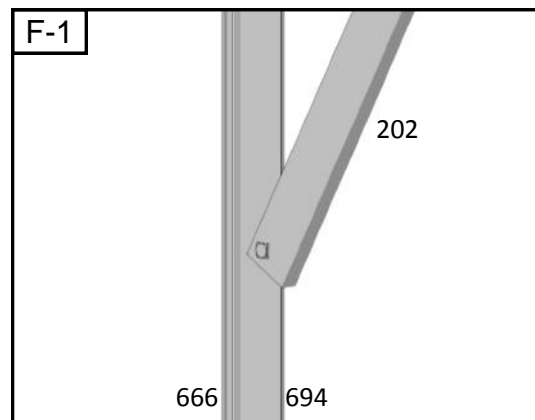
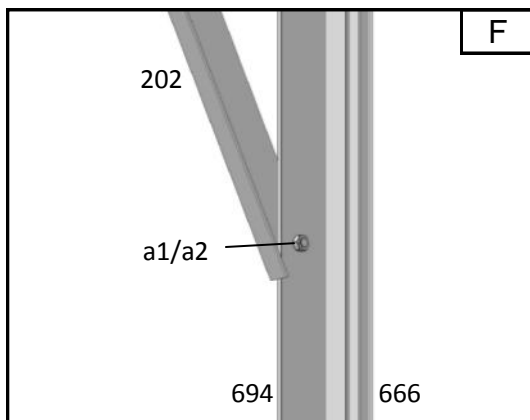
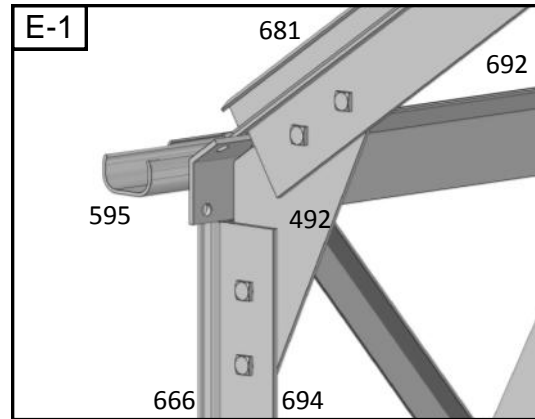
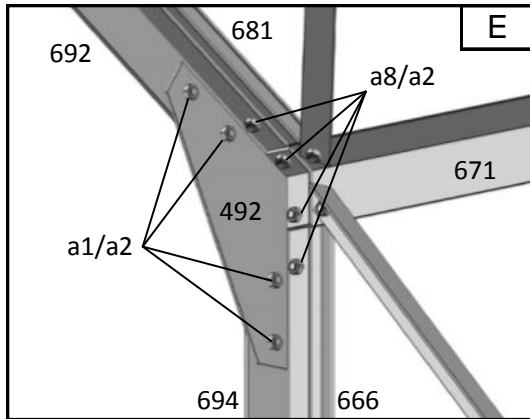
A-frame Layout



A-frame Layout



A-frame Layout



Main Building With Extension Assembly

6. You now need to have the rear gable in place (remember the rear gable has to go the right way around). Once the rear gable is in place the extension ridge can be attached (Image H). Fit this in exactly the same way as the main building's ridge, making sure the ridge sits on top of the ridge extension bracket. Remember it is easier to attach 10mm bolts to all the holes before you fix the ridge in place.
7. You now need to attach the extension sides. Simply attach the gutters and sills to the extension brackets using 10mm bolts (Image I). Stand on the inside of the greenhouse with the gutter facing away from you, insert the gutter bar into the gap between the corner bars so that the inside flanges which form the angle of roof and side line up with the bolts in the corner bars. Loosen the nuts holding the 2 bolts previously inserted into the corner bars and slide them into the slotted holes in the flanges of the gutter, then tighten. Repeat this with the bottom bolt and attach to the side sill. Repeat on the other corner.

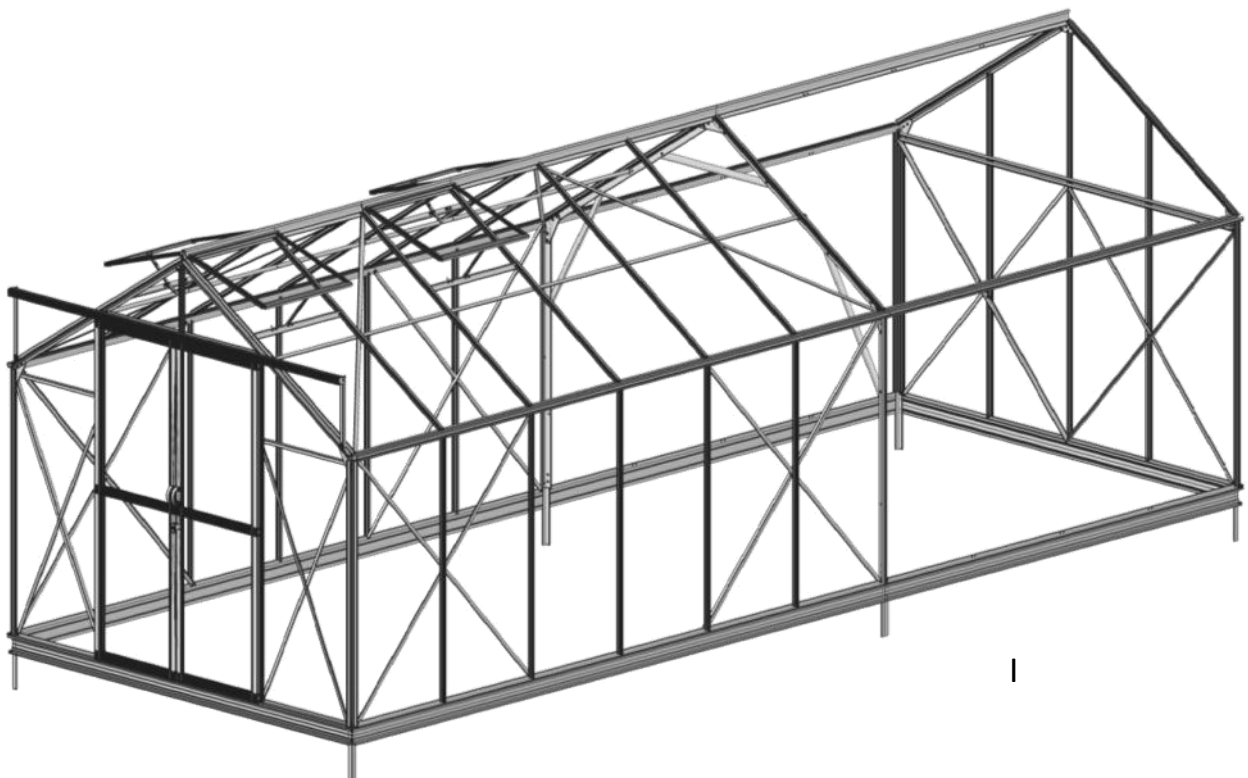
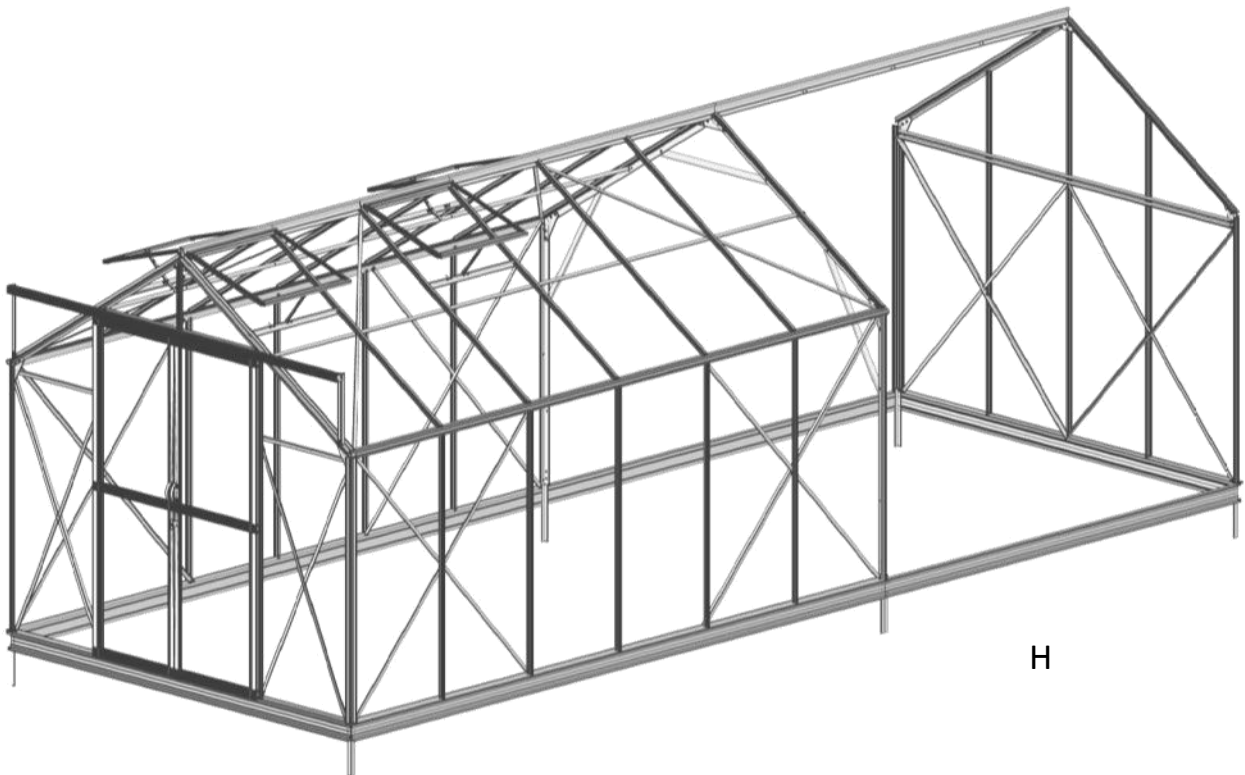
You will see that the holes are in pairs. When you are building the right hand side assembly you use all the right hand holes in the pairs. So when you build the left hand side assembly you will use all the left hand holes in the pairs.

8. The roof bars can now be attached to the structure. Attach the bars first at the ridge, prior to tightening ensure that the roof bar is pushed up hard against the ridge. Do not attach the bottom of the bars to the eave until all the roof bars are bolted to the ridge.

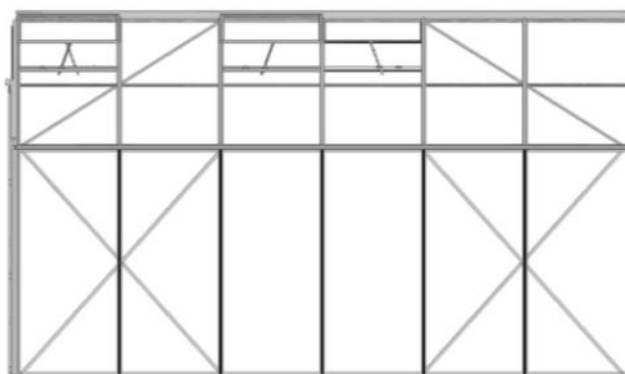
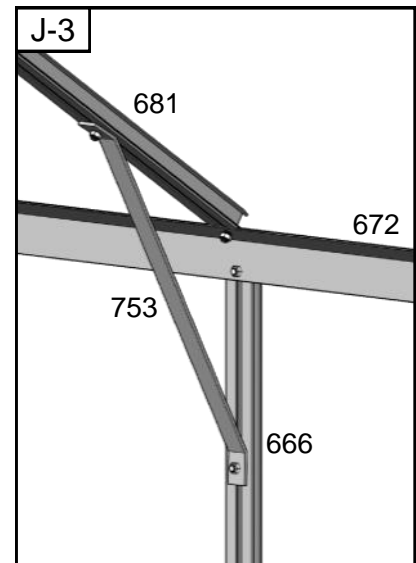
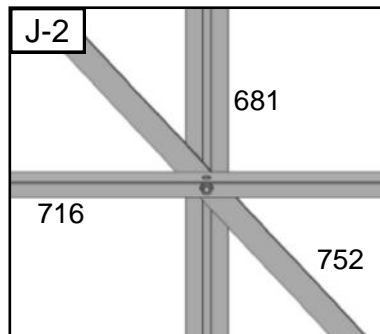
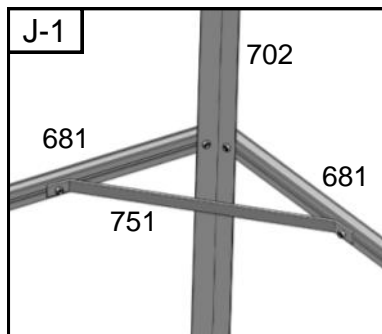
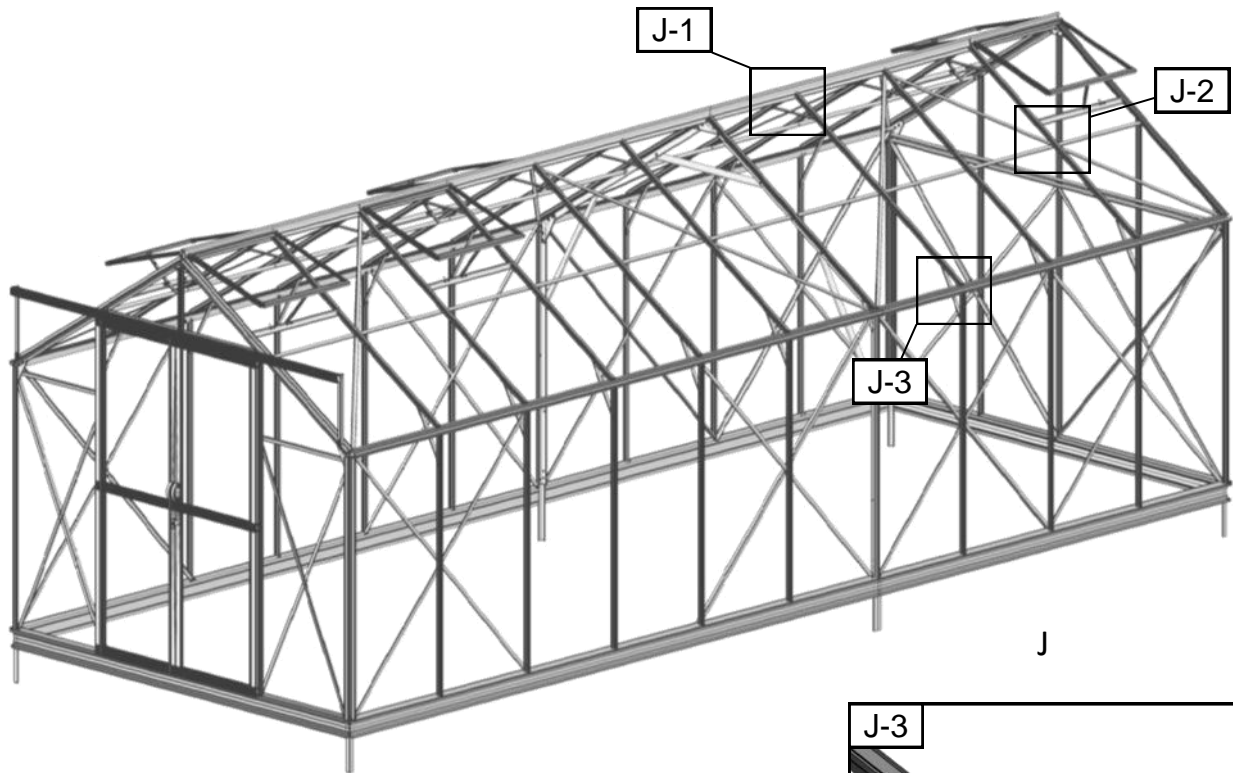
Very Important: Bolts will need to be slid into each roof bar for the ridge brace and another for the longitudinal brace (716). One more bolt is needed to attach the eave bracing between the roof and the side. Please note: At this stage you will need to insert an extra bolt into each bar either side of a vent opening. If you haven't already done so you need to decide now where your roof vents are going to be positioned so that you can work out the number of bolts in each bar.

9. Now attach the bottom of the roof bars to the gutter bar using a 10mm bolt. Slot the bolt into the holes in the upper flange (Diagram J-3). Start with the middle bars either side of the ridge.
10. Before tightening the nuts that hold the roof bar to the eave you must ensure that the roof bar is tight up against the small flange immediately above the gutter (key point). Failure to observe this point and the previous one of keeping the roof bar tight up to the ridge could result in a slight outward bow of the gutters and a downward dip in the ridge.
11. You can now attach the braces (751) which bolt into the apex of the roof. Use the top bolt out of those you have slid into each roof bar (Diagram J-1). Next you can attach the eave braces (753) 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 J-3). The remaining bolt in the roof bar is used to attach the vent shut rail (521, 521-1, 521-2 in your greenhouse manual) in your predetermined locations (note: the shut rails should be attached after the greenhouse has been glazed). For vent installation refer to your main Titan 9xx manual.
12. Once the frame has been constructed you can return to the Titan 912 / 914 instruction book and continue with the assembly.

Main Building With Extension Assembly



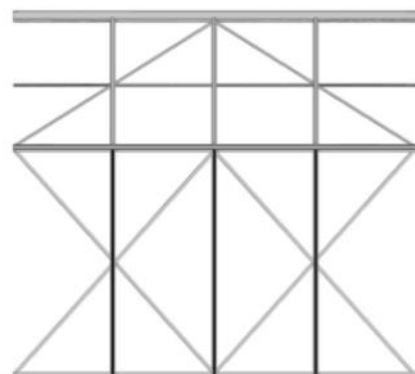
Main Building With Extension Assembly



Main Building



A-Frame



Extension



Main Building Rear