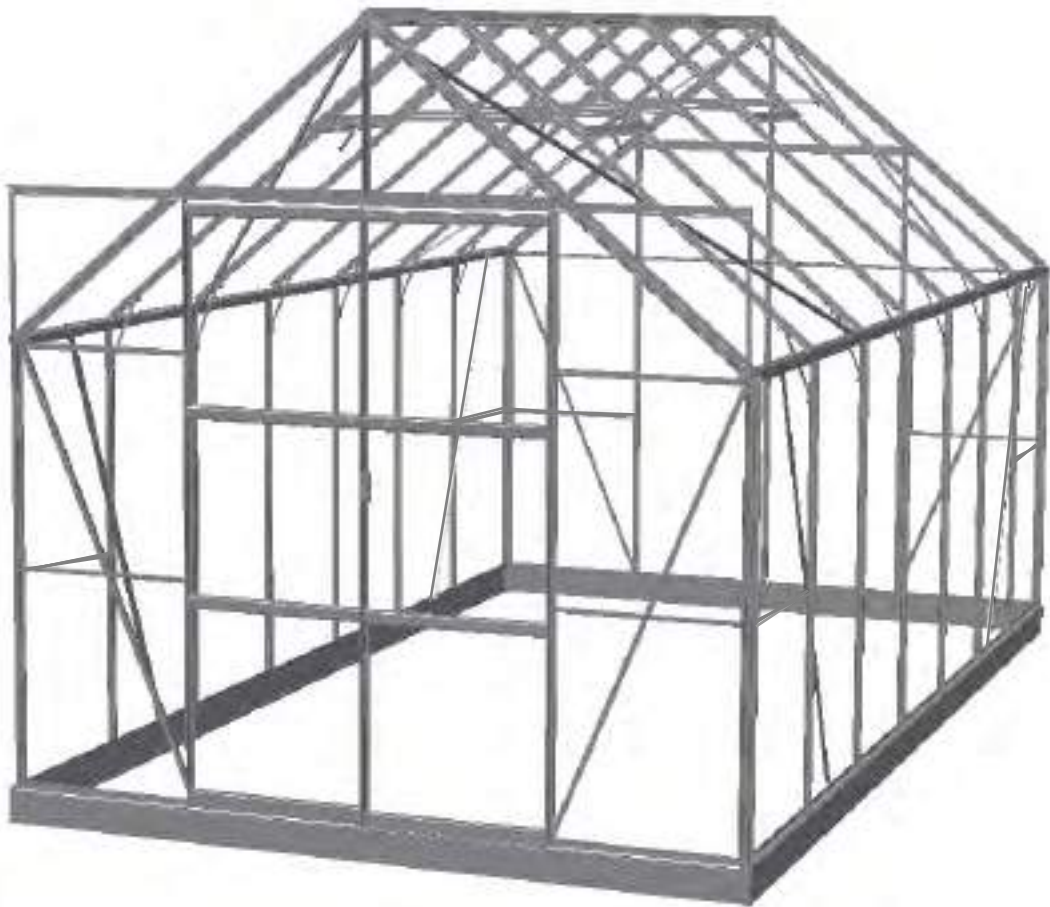


Halls Magnum

108, 128, 148



MODEL: 108 :8.3m²
 128 :9.9m²
 148 :11.5m²

19/10/20

Dear Customer!

The assembly of your new greenhouse requires no technical knowledge. However, it is important that the assembly instructions are strictly followed. The assembly instruction is a combination of text and illustrations. The profiles are packed separately in numbered packs corresponding to the order in the assembly instruction. Erect one pack at a time. All nuts bolts and fittings are found in bag No. 0 (specified on page 12). Each pack is specified in separate lists of components.

All detailed illustrations are marked with symbols:



Seen from inside



Seen from outside

Precautions.

- Assembly must be carried out in dry, calm weather.
- Always use working gloves while glazing. Greenhouse glass has sharp edges, especially if it breaks.
- Assistants and especially children must be warned broken glass is an element of danger. Pick up broken glass at once and remove with care.
- We recommend to use protective glasses while fixing spring wire glazing clips.
- Place the ladder on a level support.
- It is essential to have an assistant.

References.

The column marked indicates the page(s) on which the component is used.

Tools

The mounting of the greenhouse requires the tools shown on page 12.

Page 13: Foundation

If you are not using the pre-fabricated base for this greenhouse, you must have an alternative base to raise the frame off the ground, otherwise the door will not run correctly. If you are making your own base, the measurements indicated must be external measurements. We recommend 19mm x 32mm pressure treated timber for DIY base, also for wall battens.

For the pre-fabricated base, you furthermore need about 75 litres of concrete and 4 or 6 (depending on the size of greenhouse) plastic concrete pipes of about 800mm which are placed in a non-freezing depth for the fastening of the corner and/or middle anchors.

The base must be 100% level and square; the latter is ensured by checking the two diagonal measurements are equal.

For the pre-fabricated base on a solid foundation i.e. concrete pad, slabs or sleepers, the ground anchors will need to be cut to the height of the base with a hack saw as they are also corner brackets. (A)

Pages 15-34:

Place the components as shown on the illustration and assemble in the order shown in the pictures. Do not tighten the nuts completely until the front gable construction has been assembled. Fitting of glass/polycarbonate

Important before glazing!

Make sure that the gables and sides are level and square, and that the door(s) and window(s) are functioning perfectly.

Best order of assembly:

- 1) Rear gable - 2) Front gable - 3) Sides - 4) Frame assembly - 5) Roof and bracing 6) Doors - 7) Vent - 8) Glazing

Remember to insert extra bolts in profiles 723 to fit 913.

Pages 29-32: Glazing

Fit glazing strip (411) to all glazing bars, gable bars and corner posts (vertical bars) before you begin to glaze the greenhouse.

Start glazing the roof first (working from the bottom up for horticultural glass), one pane at a time. Spring wire clips and glass holder clips are to be fitted as shown.

X = Spring wire clips, > = Glass holder clips

Page 33-34: Mounting of Polycarbonate

The illustrations on page 33-34 show where to mount them. The type indication states the length in mm. A possible adjustment is made by means of a fine-tooth saw.

NBI To avoid the formation of algae the polycarbonate sheets must not come into contact with the ground. Rest them on a piece of cardboard.

J, K, L, M – lists are mounted as shown on page 33-34.

Sealing of the polycarbonate sheets

The sheets may be sealed against insects. Close the top-end off with alu-tape (**NOT SUPPLIED**) or silicone (**NOT SUPPLIED**).

The bottom only with airstrip tape (**NOT SUPPLIED**) to let condensation out.

Now your greenhouse is completely assembled. However, please notice the following:

Maintenance

- Grease doors (hinges and lock or door track).
- Clean the gutter for leaves, etc.
- Adjustment of windows.
- Replacement of broken glass.
- Clean the greenhouse with disinfectant before and after the growing season.

Winter Protection

In areas with occurrence of snow we recommend the following winter protection.

- Support the roof ridge at the centre of the greenhouse.
- Remove greater snow loads from the roof.
- Take precautions against snow falling down from a tree for instance, or a roof.
- Dismount the cylinders for the automatic window openers, if any (optional extras). Secure door(s) and window(s) preventing wind damage to the greenhouse.

Insurance

Please note that not all insurance companies cover greenhouses automatically. Please contact your insurance company to ensure an insurance coverage.

Guarantee

The greenhouse frame only, has a guarantee of 12 years which covers replacement of faulty components.

The guarantee does not cover glass, polycarbonate, assembly, freight etc.

There is a 2 year guarantee on painted parts, if any. Note that marks in the painting may occur due to suspension of the profiles.

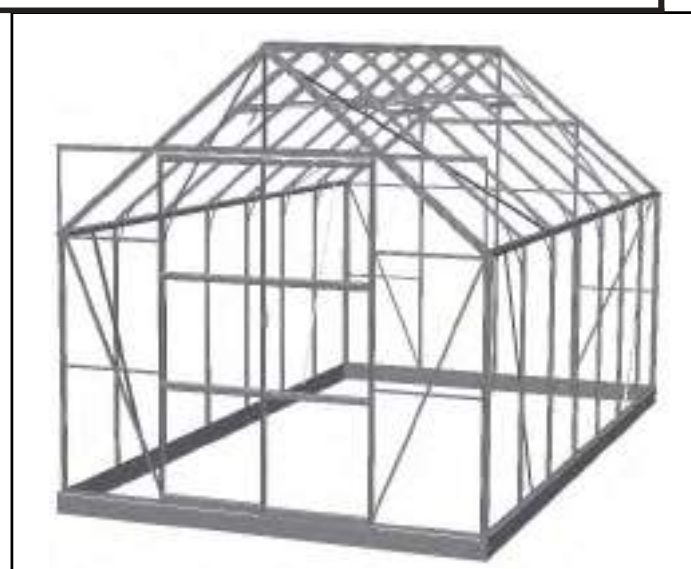
The guarantee is invalid if the greenhouse is not assembled according to these instructions.

Complaints

All our greenhouses are built to high standards of quality. However, should a complaint occur, please contact your dealer at once. Remember to specify the defect by indicating the greenhouse model and number of the component, and if possible, the quality control number.

Survey - Übersicht - Oversigt - Översikt - Vue d'ensemble
Overzicht - Resumen - Schema - Sisällys

	
	13
	14 - 16
	17 - 19
	20
	21 - 22
	23- 25
	26 - 27
	28 - 33



Tools - Werkzeug - Værktøj -
Verktyg - Outillage
- Gereedschap
Herramientas - Utensili -
Työkalut



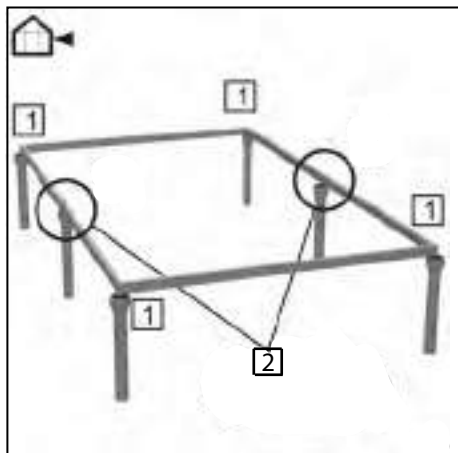
Fittings - Raccorderie -
Hulpstukken - Garnitures -
Accesorios - Osat

θ	#		108 8.3m²	128 9.9m²	148 11.5m²
	901	14-17	2	2	2
	902	14-17	2	2	2
	900W	15-17	2	2	2
	134/697 M6x11	14-25	164	180	200
	625/697 M6x15	14-20	30	30	30

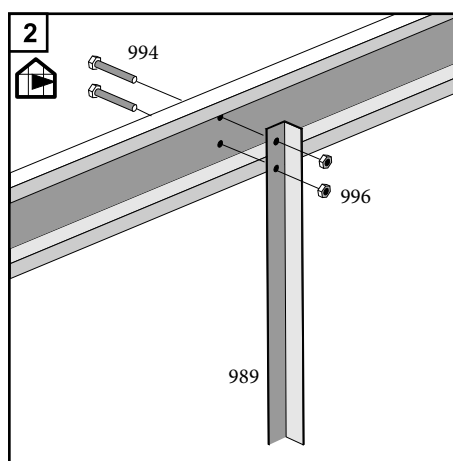
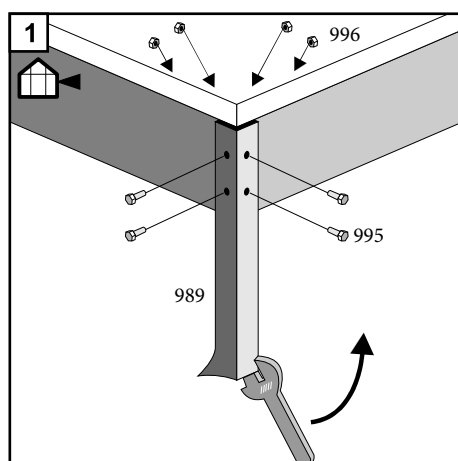
Accessories - Zubehör - Tilbehør - Tillbehör - Accessoires
Toebehoren - Accesorios - Accessori - Lisävarusteet

Foundation - Fundering - Fundament - Fondement
Fundamento - Basamento - Perustus

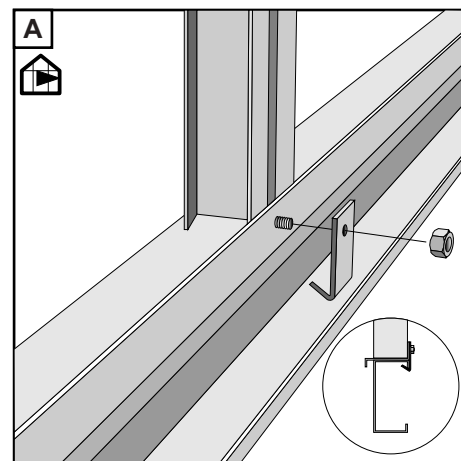
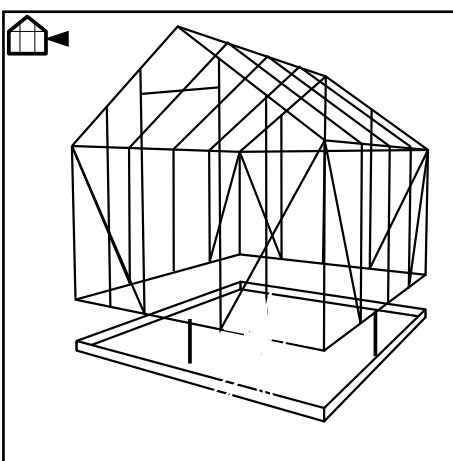
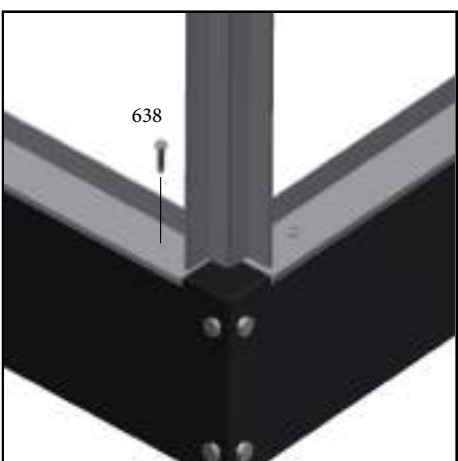
Steel-foundation



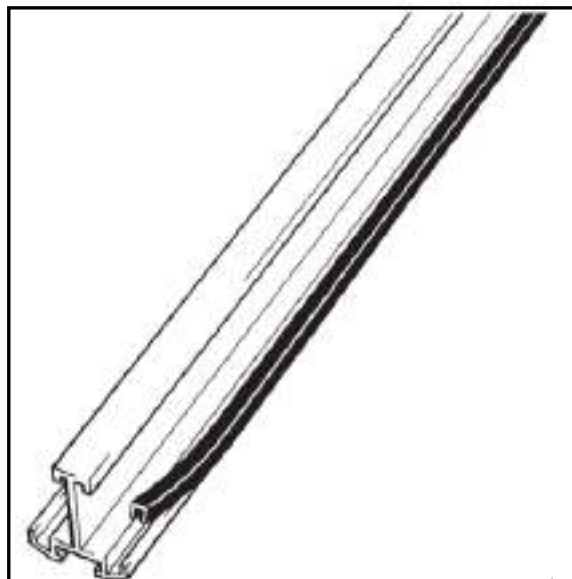
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108 8.3m ²	2560 mm 8ft 5"	3182 mm 10ft 5"	4084 mm 13ft 5"
128 9.9m ²	2560 mm 8ft 5"	3804 mm 12ft 6"	4585 mm 15ft"
148 11.5m ²	2560 mm 8ft 5"	4426 mm 14ft 6"	5113mm 16ft 9"



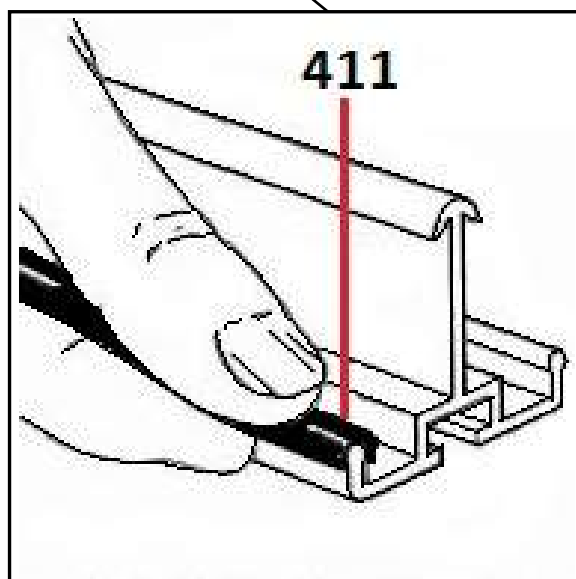
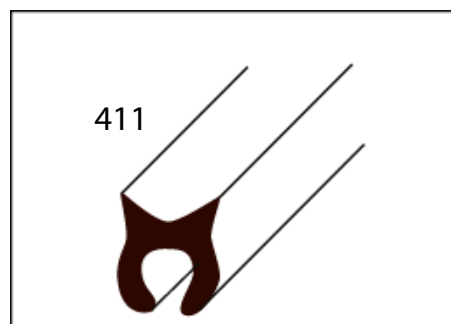
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C		2560	2	2	2
		3182	2		
		3804		2	
		4426			2
L	989		6	6	6
T	995	10	16	16	16
	994	40	4	4	4
B	996		20	20	20
S	638		8	8	8
F	F00031		8	10	12
	F00040				



**Forberedelse - Preparation - Vorbereitung - Forberedelse - Preparat
forberedlser - preparativos - preparativi - Valmistet**

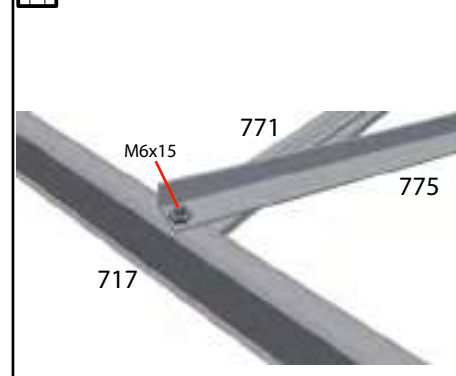


768
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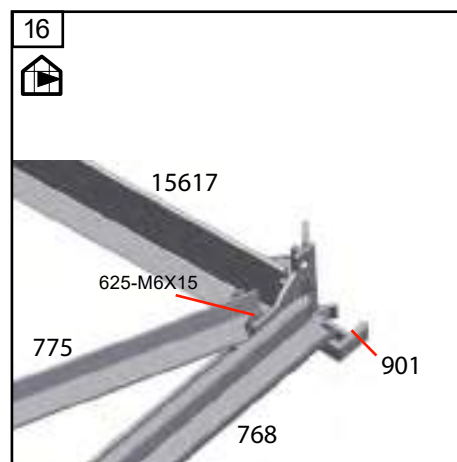
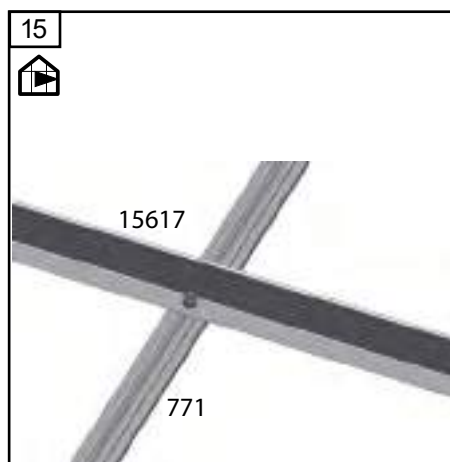
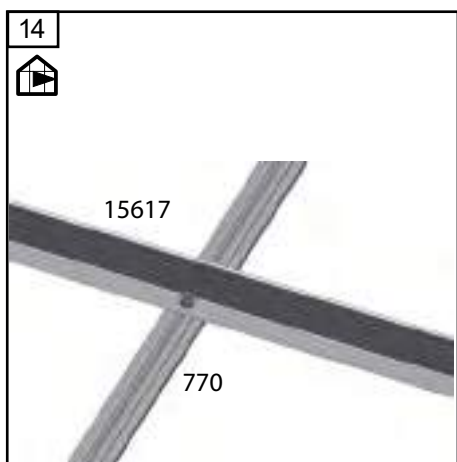
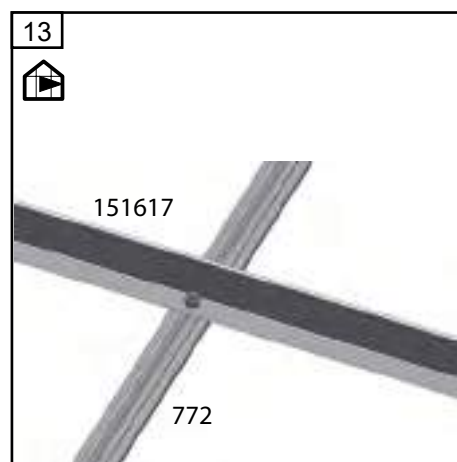
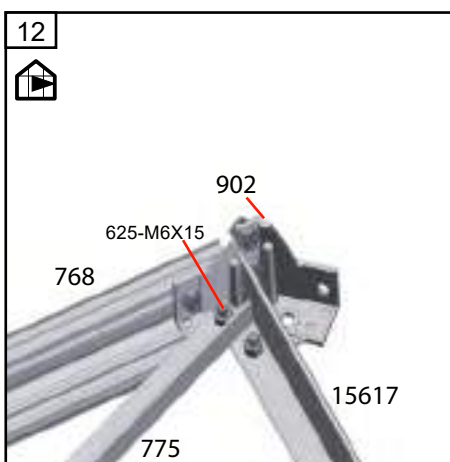
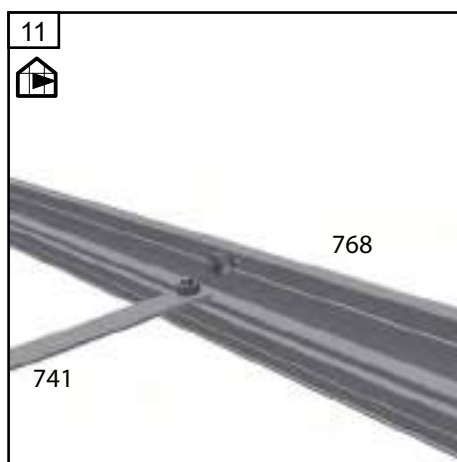
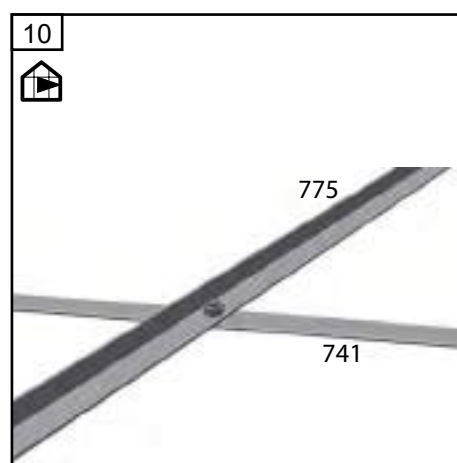
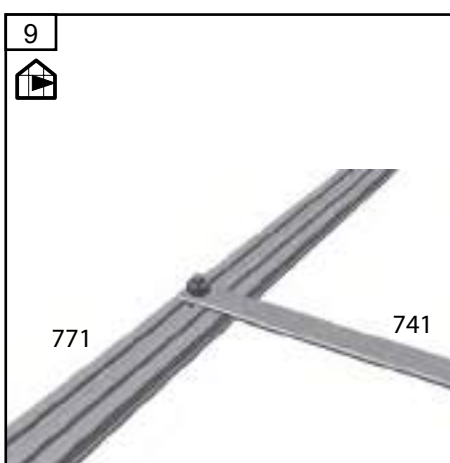
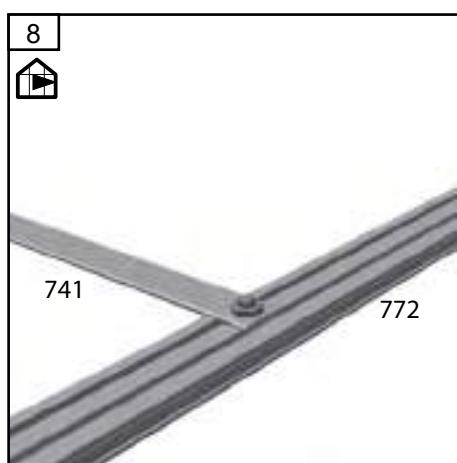
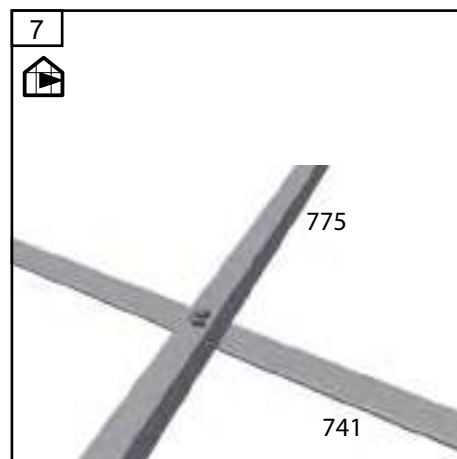
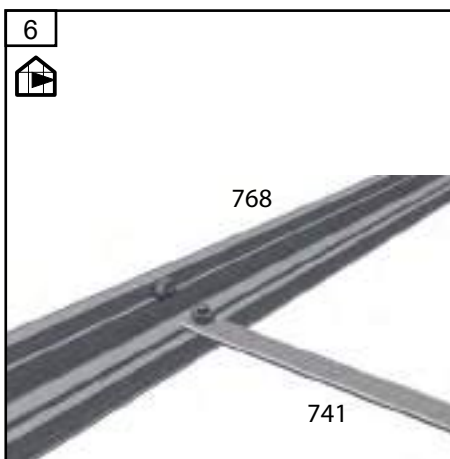
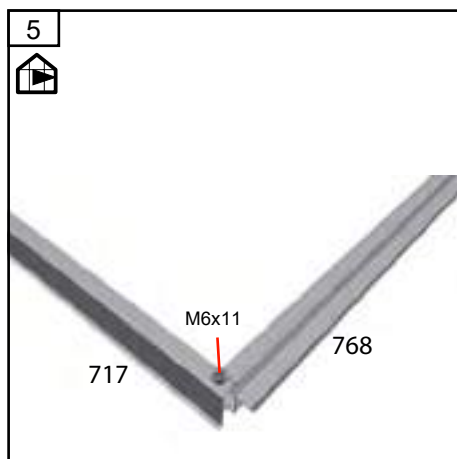




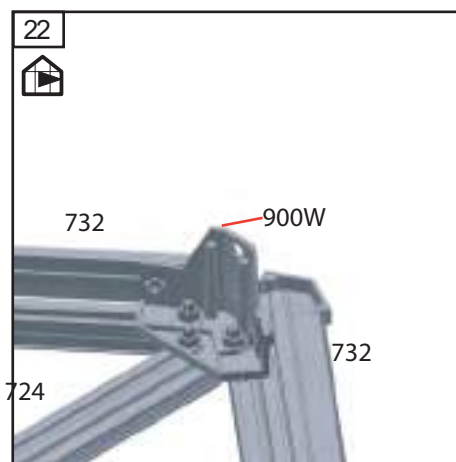
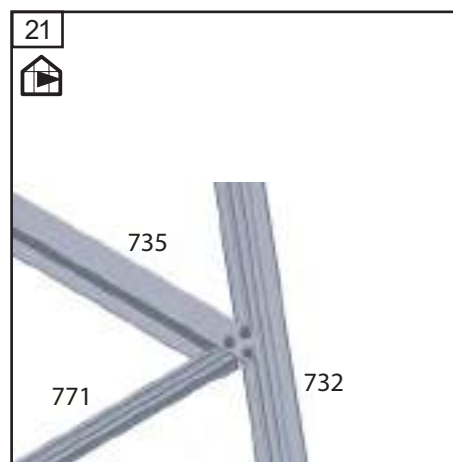
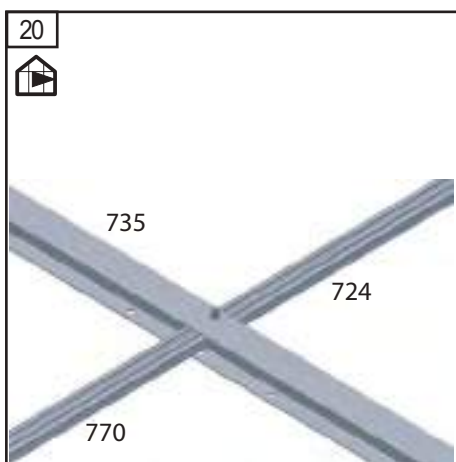
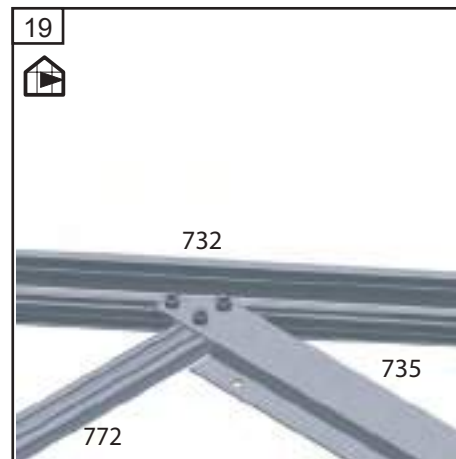
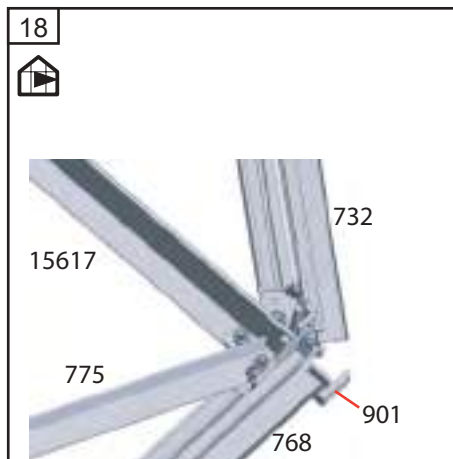
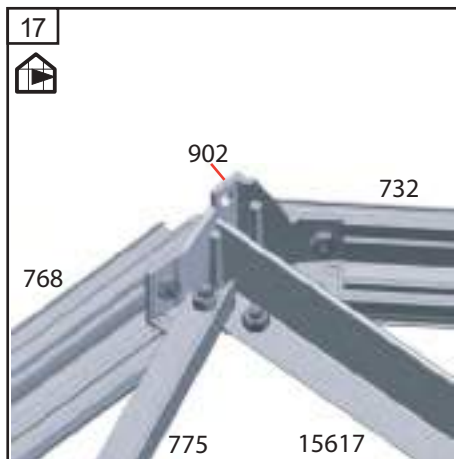
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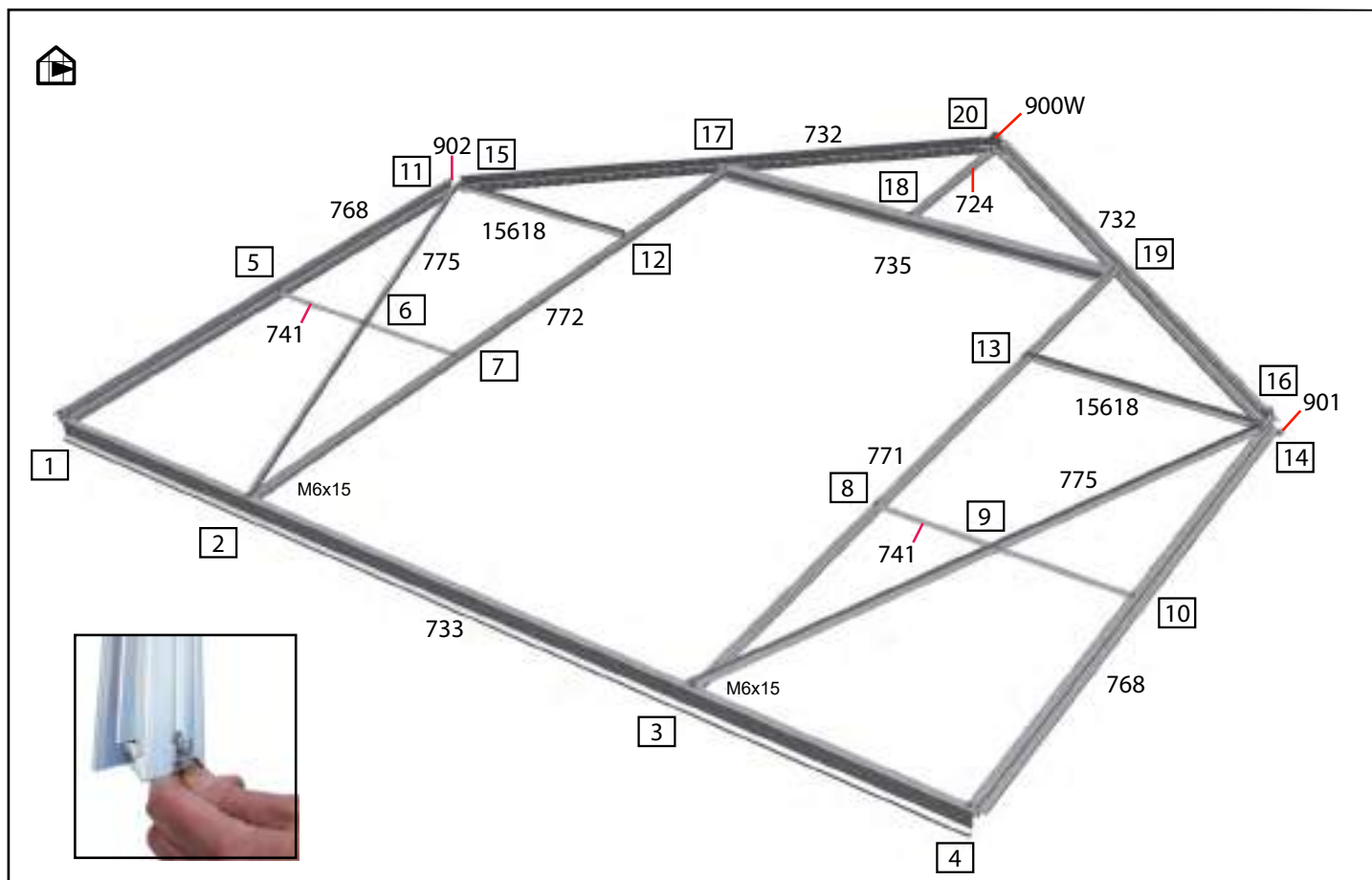
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Achtergevel - Frontis trasero - Pannello posteriore - Peräpääty**



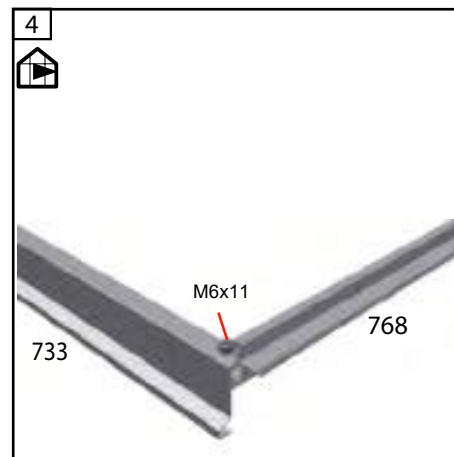
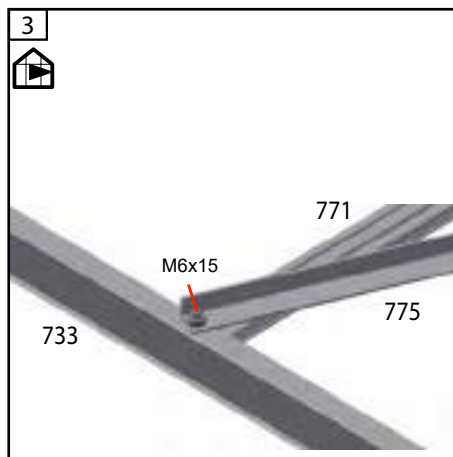
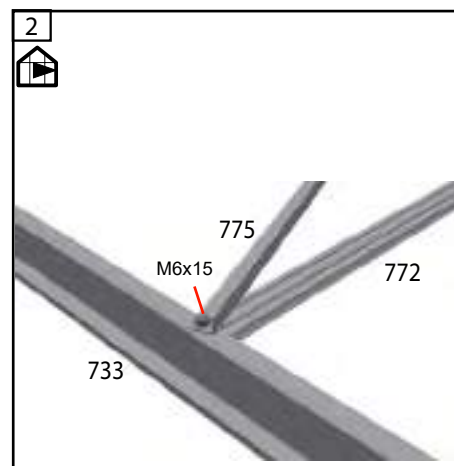
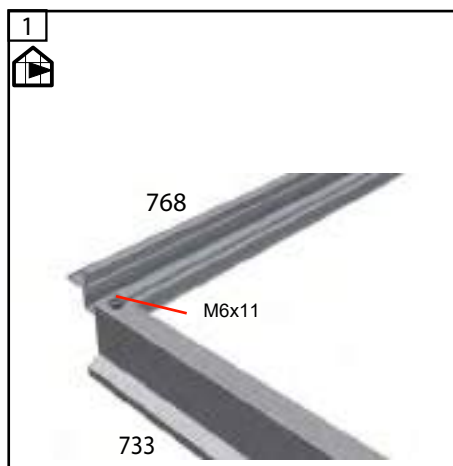
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Achtergevel - Frontis trasero - Pannello posteriore - Peräpääty**



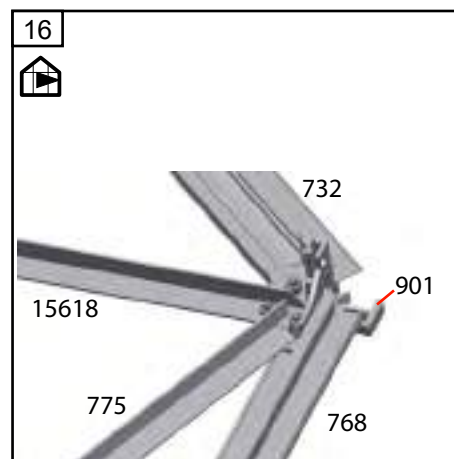
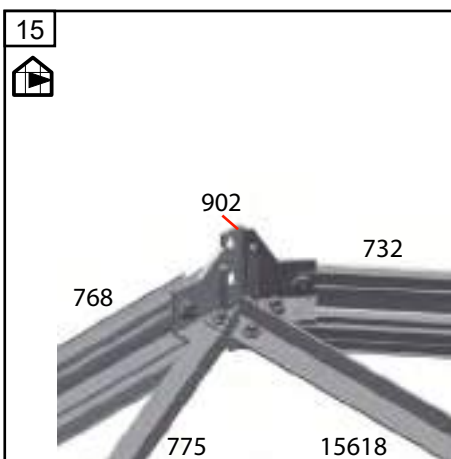
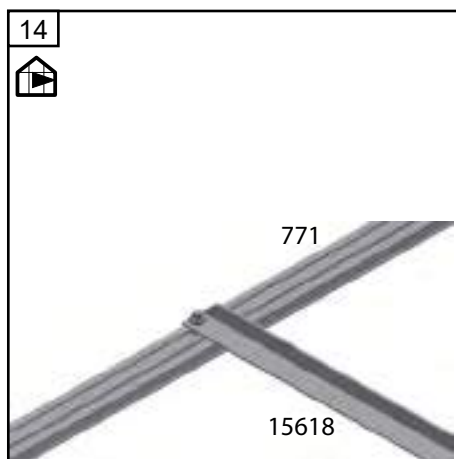
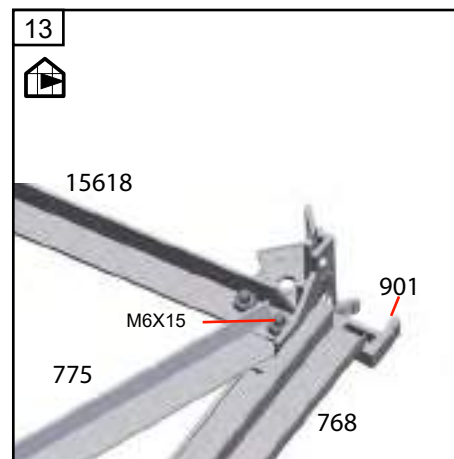
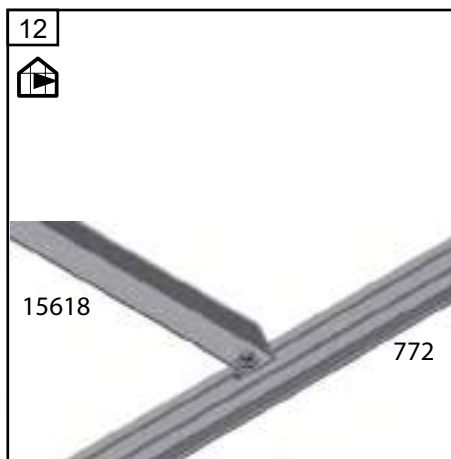
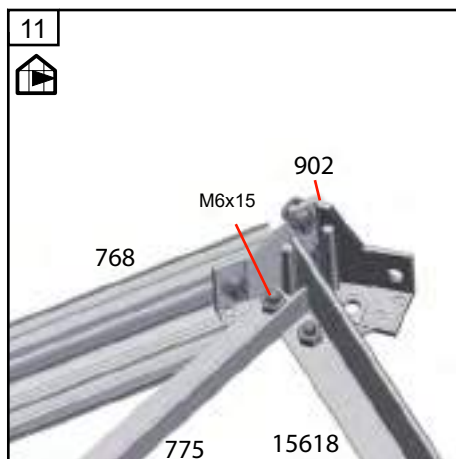
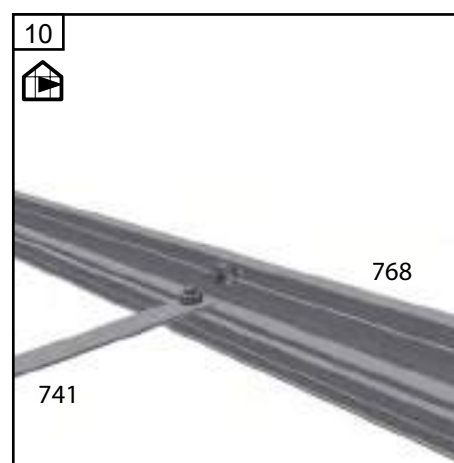
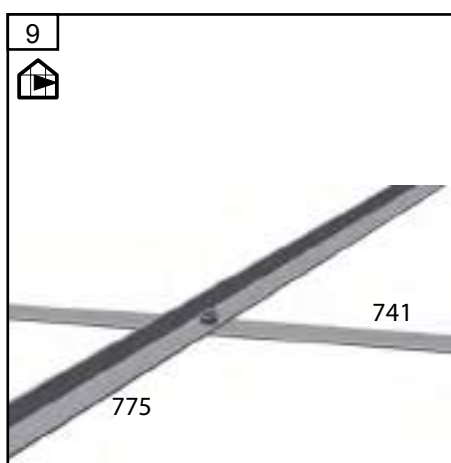
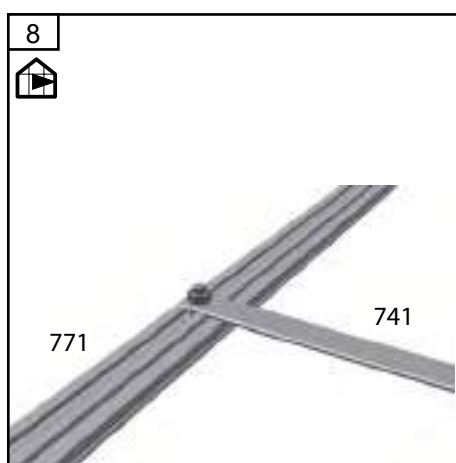
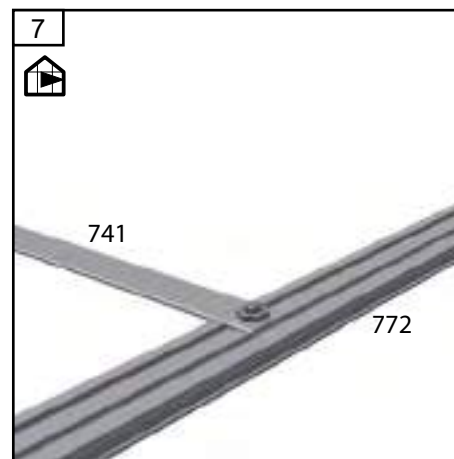
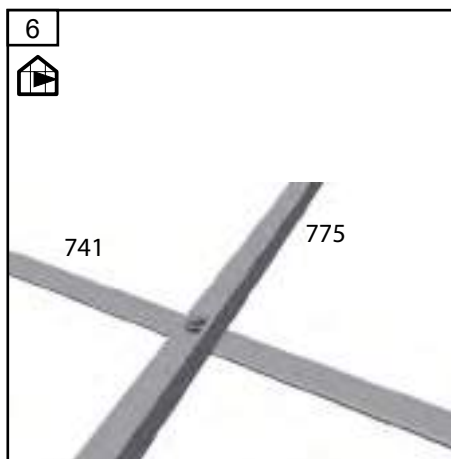
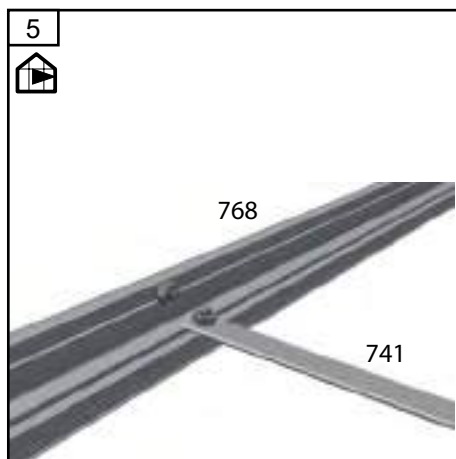
Front ganle - Vordergiebel - Forgavl - Frontgavel - Pignon devant Voorgevel - Frontis frontal - Pannello frontale - Ovipääty



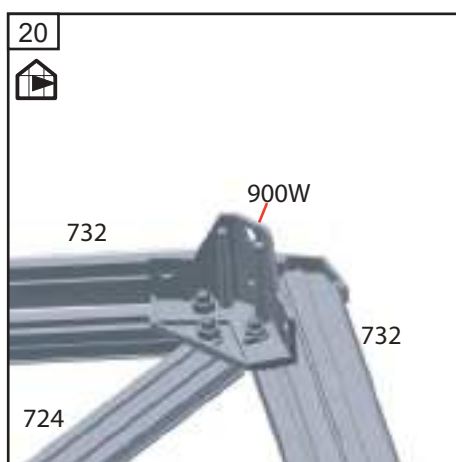
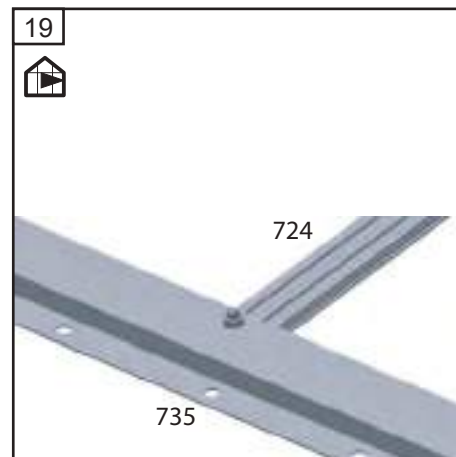
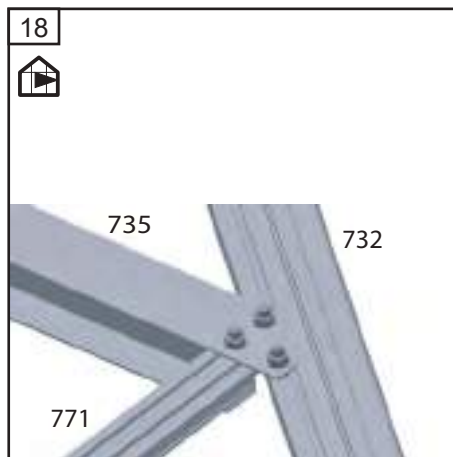
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	768	1481	2	2	2
	741	632	2	2	2
	775	1591	2	2	2
	771	1989	1	1	1
	772	1989	1	1	1
	15618	628	2	2	2
	732	1607	2	2	2
	735	1310	1	1	1
	724	521	1	1	1



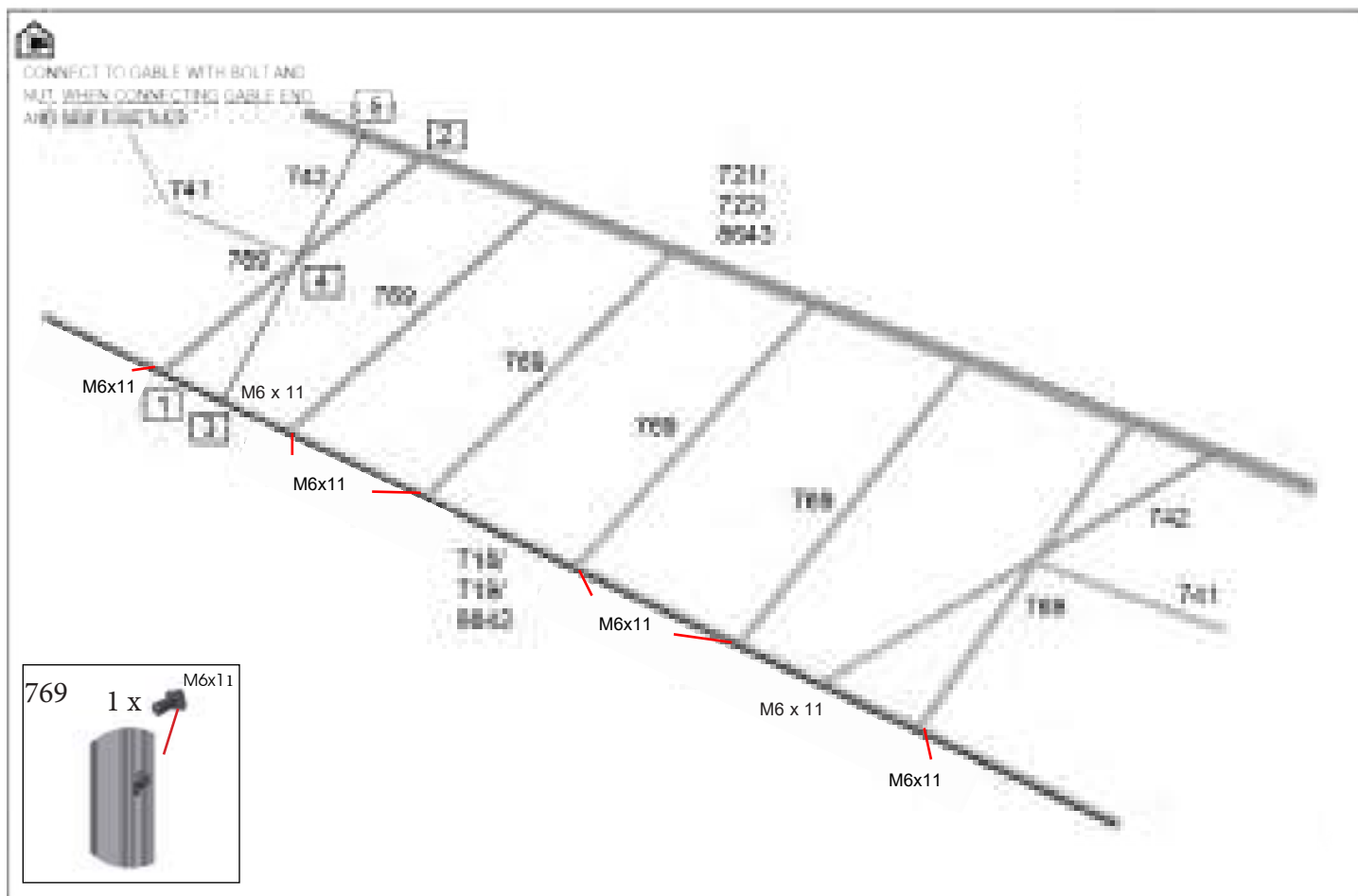
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Voorgevel - Frontis frontal - Pannello frontale - Ovipääty**



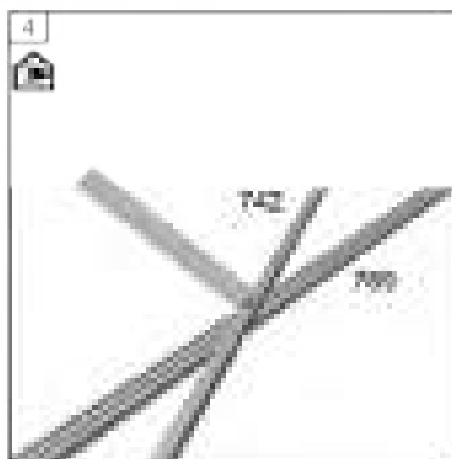
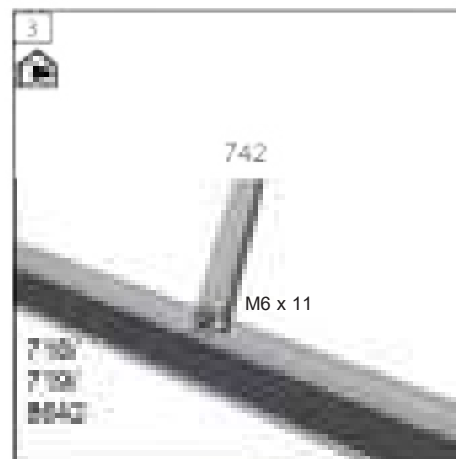
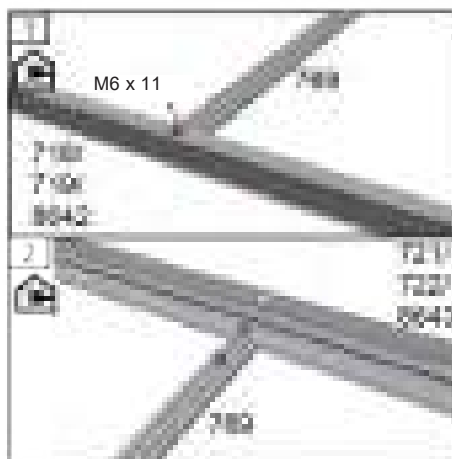
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Voorgevel - Frontis frontal - Pannello frontale - Ovipääty**

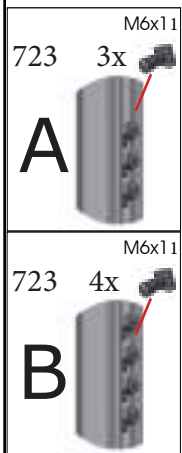


Sides - Seien - Sider - Sidor - Côtés - Zijkanten Laterales - Pannelli laterali - Sivut

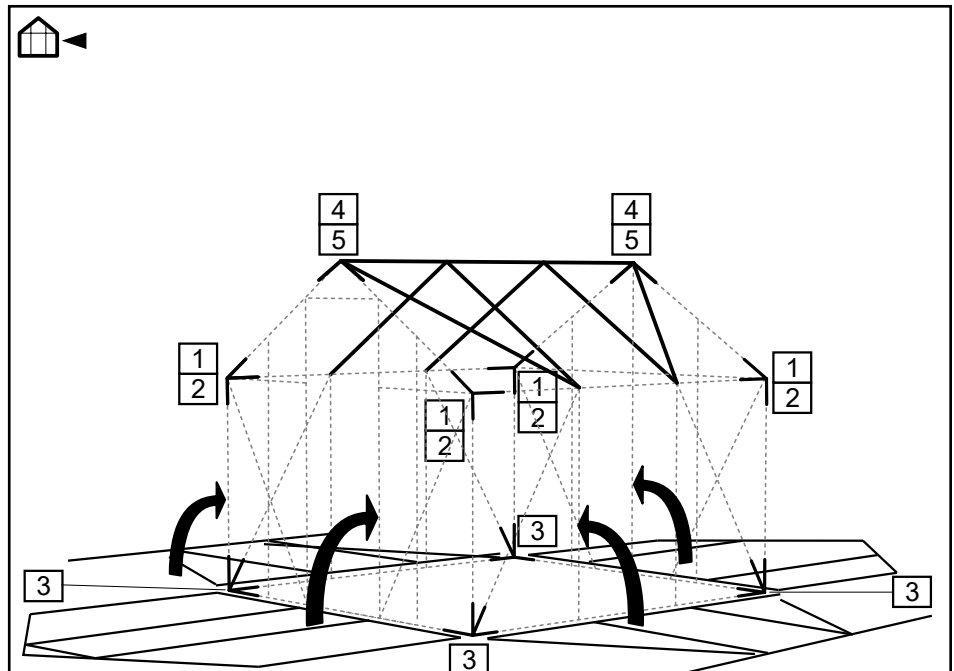


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	719	3746		2	
	8642	4368			2
	741	632	4	4	4
	742	1617	4	4	4
	769	1481	8	10	12
	721	3129	2		
	722	3751		2	
	8643	4373			2

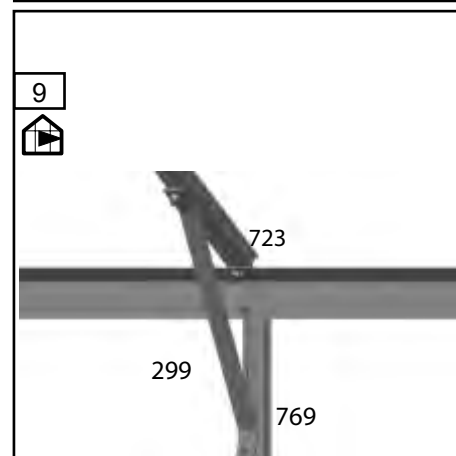
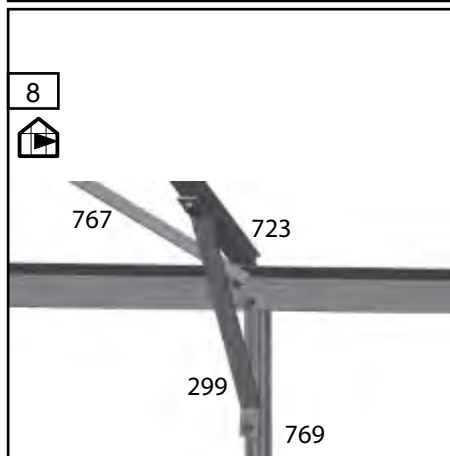
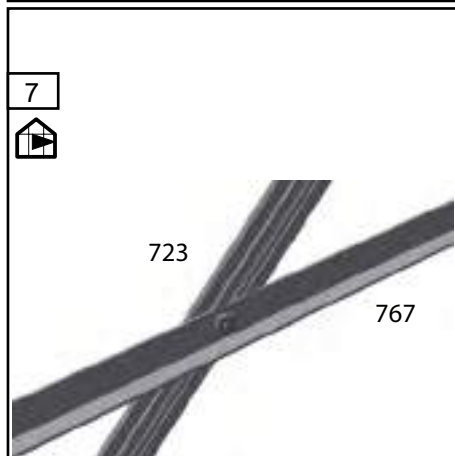
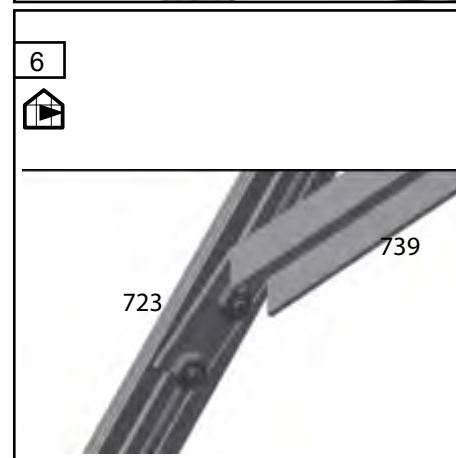
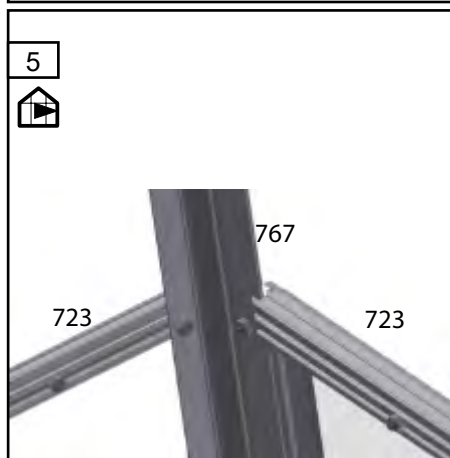
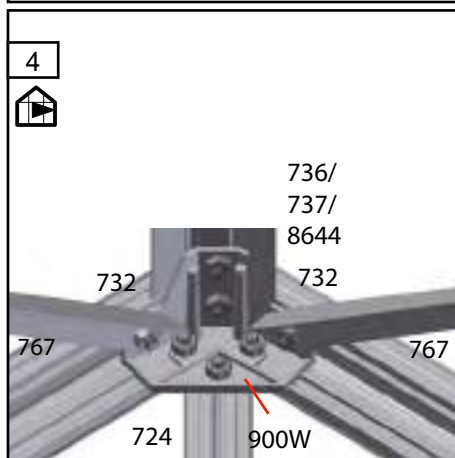
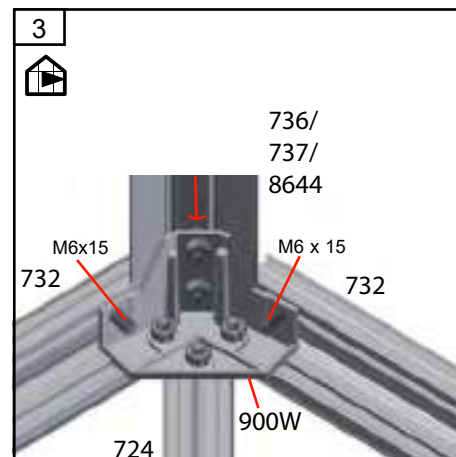
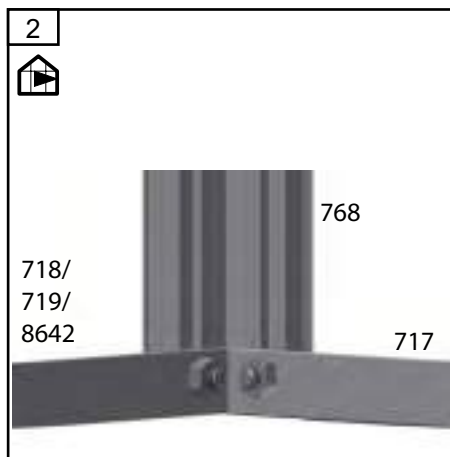
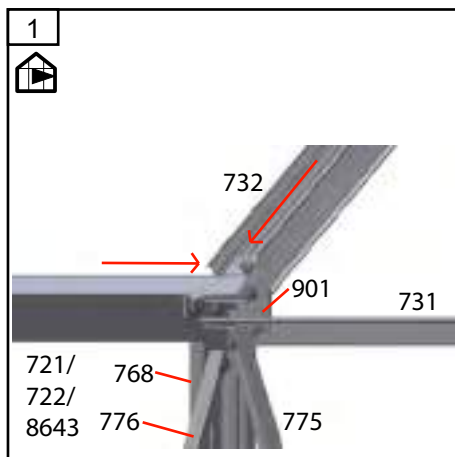




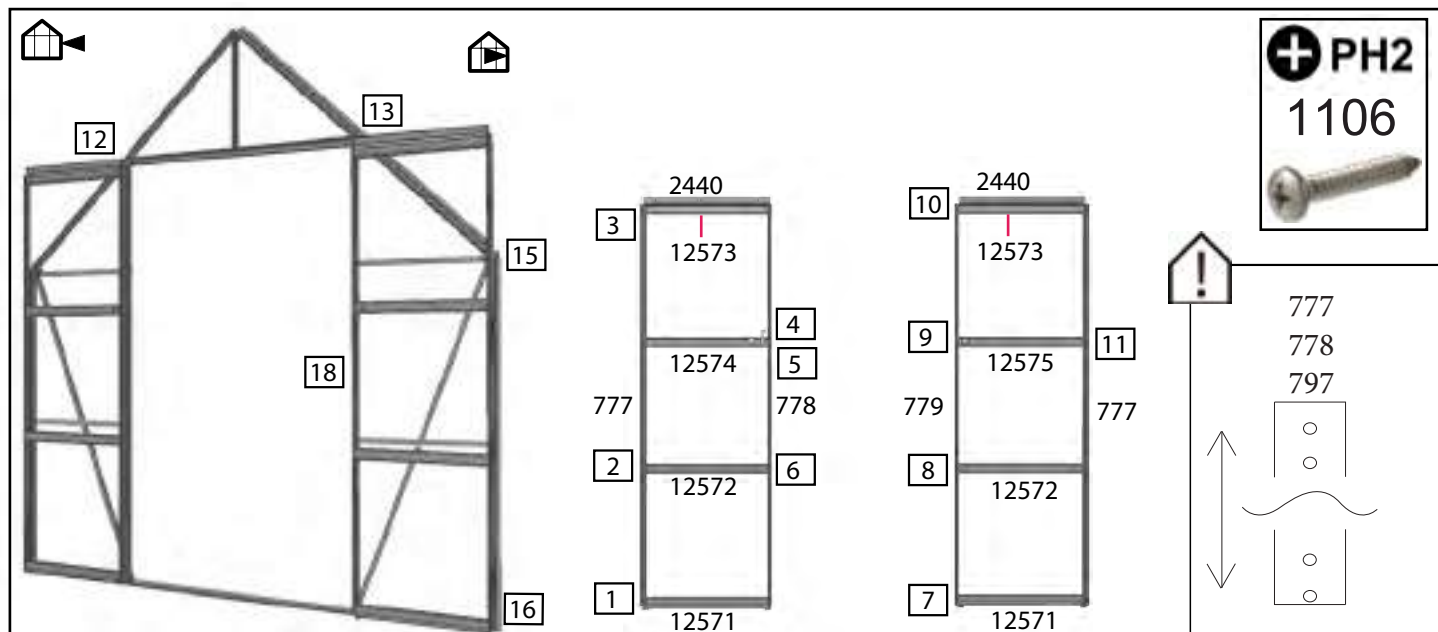
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	737	3751		1	
	8644	4373			1
	723	1607	8	10	12
	767	2011	4	4	4
	299	275	8	10	12
	739	838	4	5	6



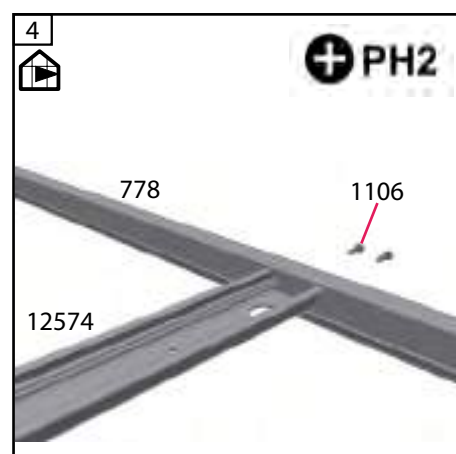
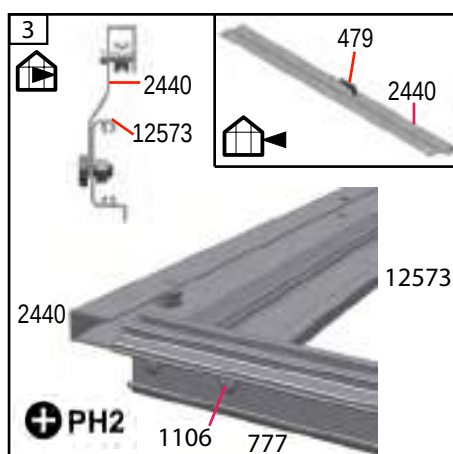
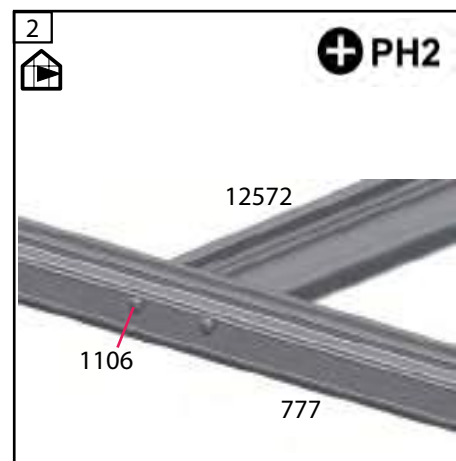
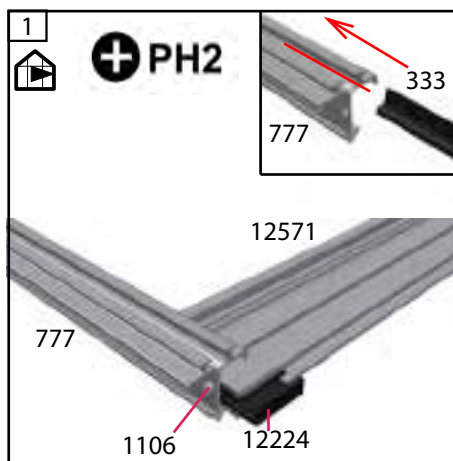
Roof - Dach - Tag - Tak - Toit - Dak - Tejado - Tetto - Katto



Door - Tür - Dør - Porte - Deur - Puerta - Porta - Ovi

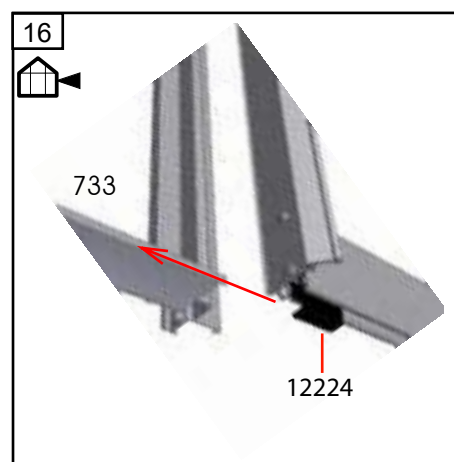
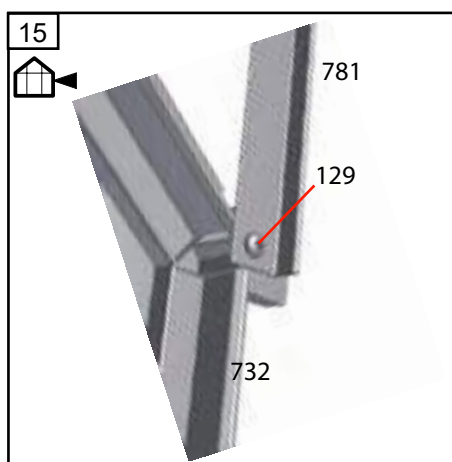
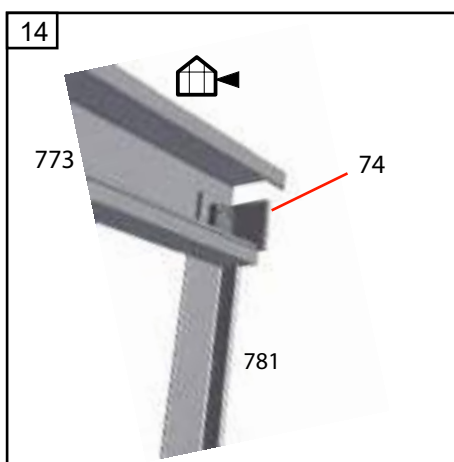
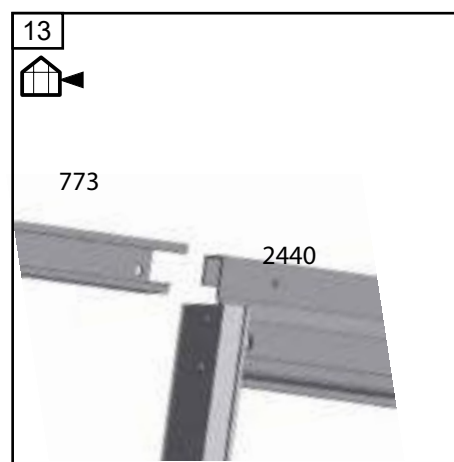
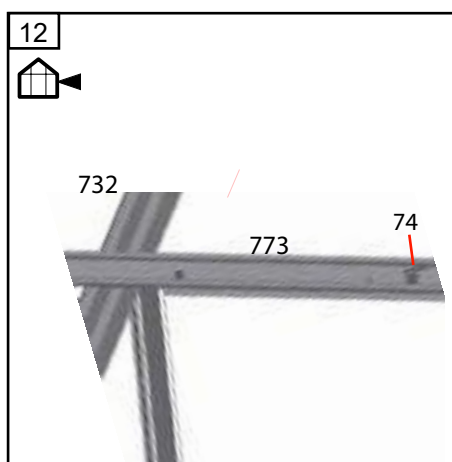
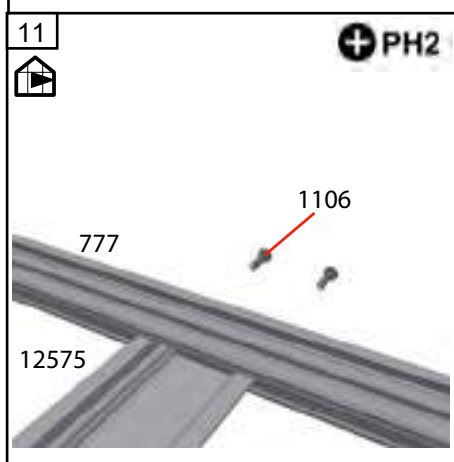
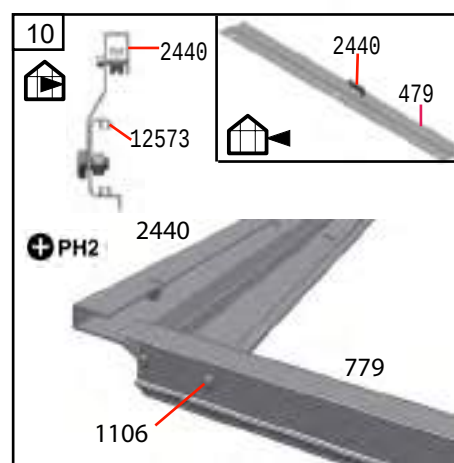
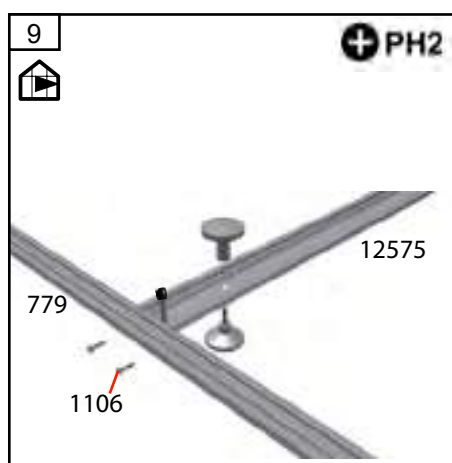
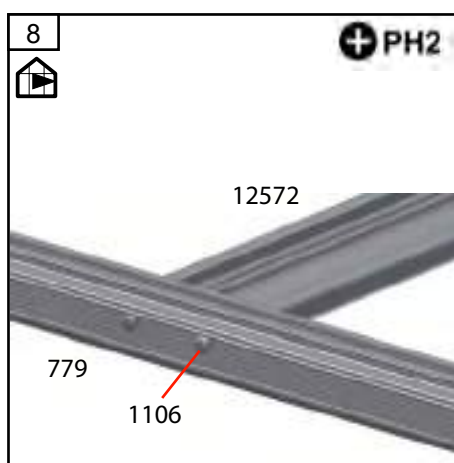
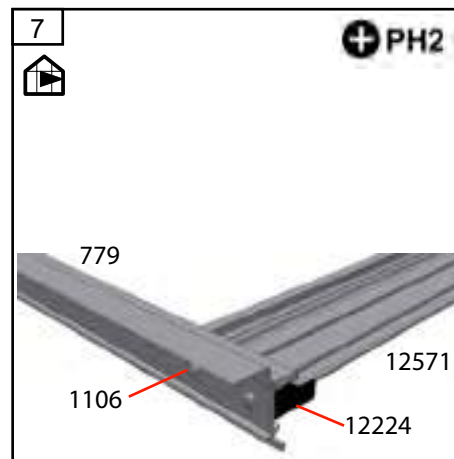
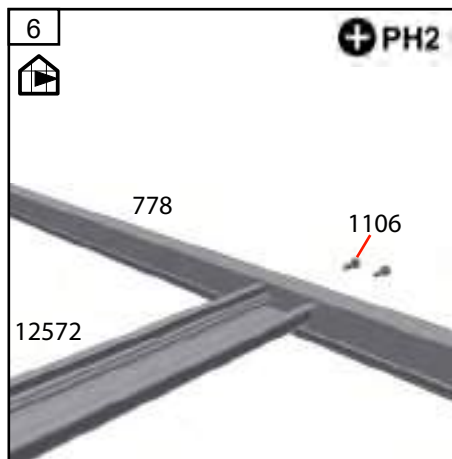
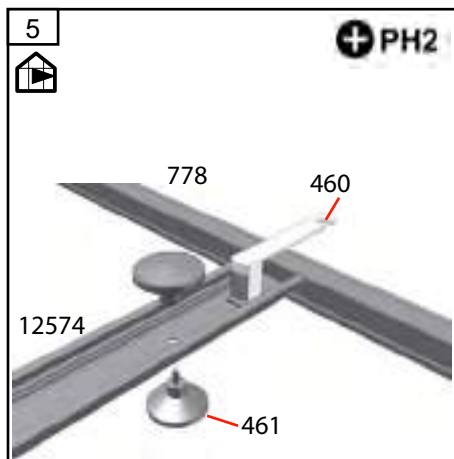


5	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	777	1958	2	2	2
	778	1958	1	1	1
	779	1958	1	1	1
	12571	620	2	2	2
	12572	620	2	2	2
	12573	620	2	2	2
	2440	610	2	2	2
	12574	620	1	1	1
	12575	620	1	1	1
	773	2508	1	1	1
	781	504	1	1	1
	782	504	1	1	1
	461		2	2	2
	333	1958	2	2	2
	12224		4	4	4
	780	100	1	1	1

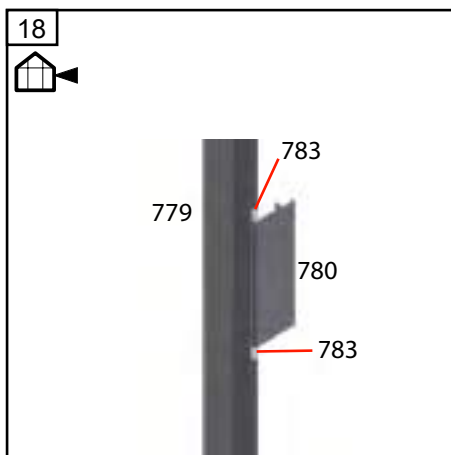
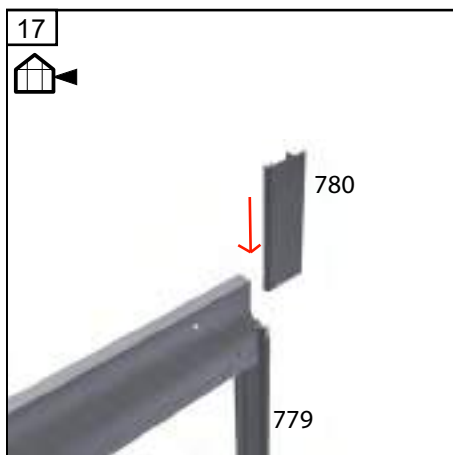


	479		2	2	2
	783		2	2	2
	129	8X12	2	2	2
	1106	6X16	32	32	32
	74	18	3	3	3
	460		1	1	1

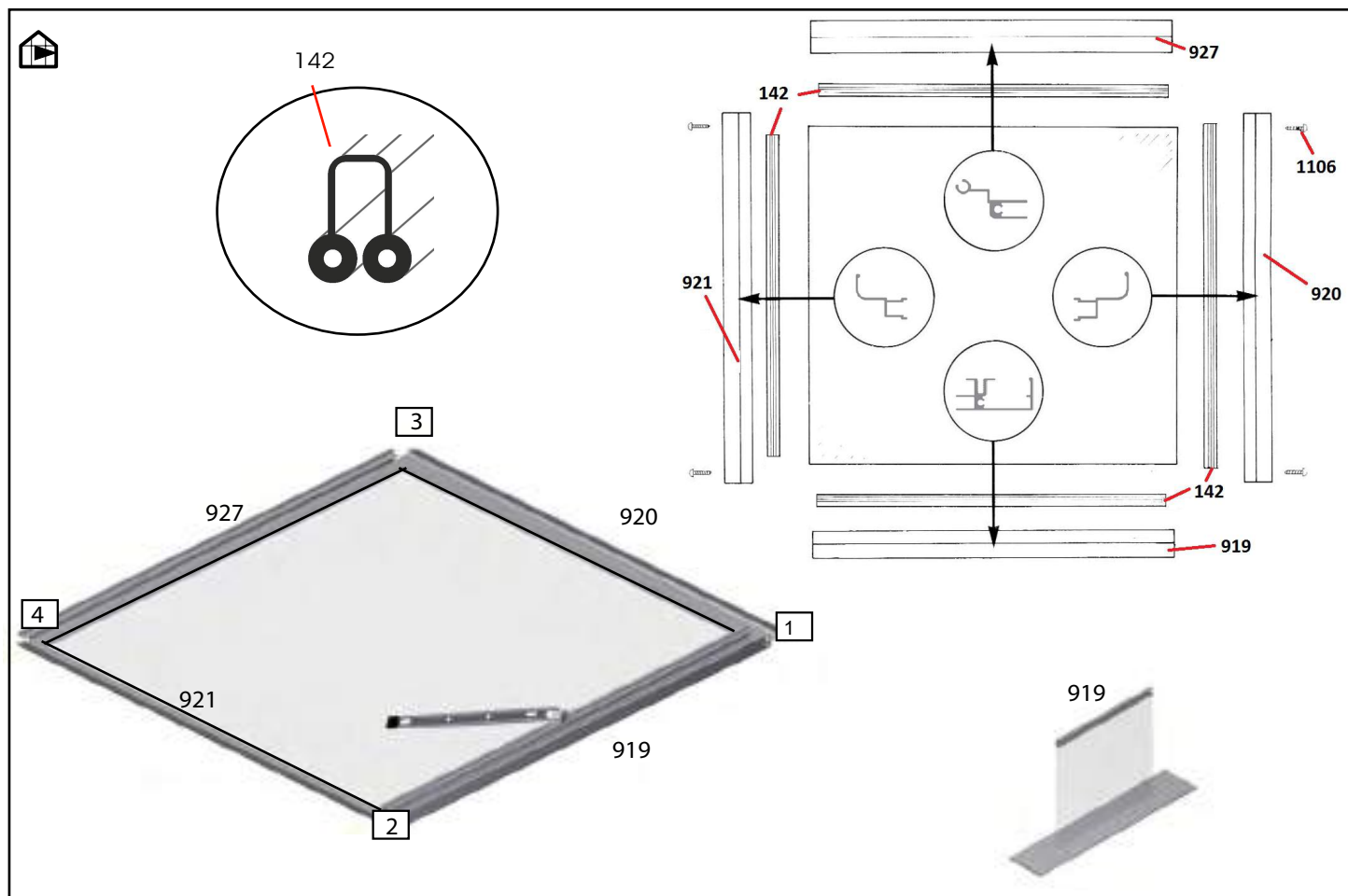
Door - Tür - Dør - Porte - Deur - Puerta - Porta - Ovi



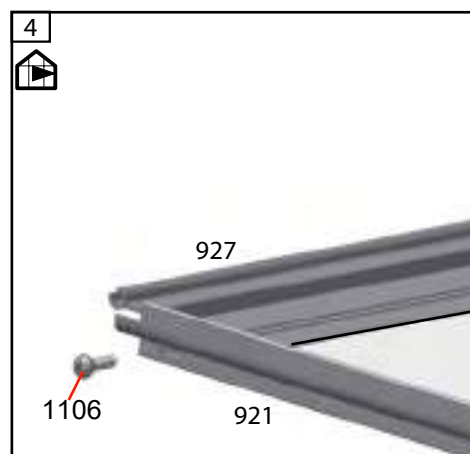
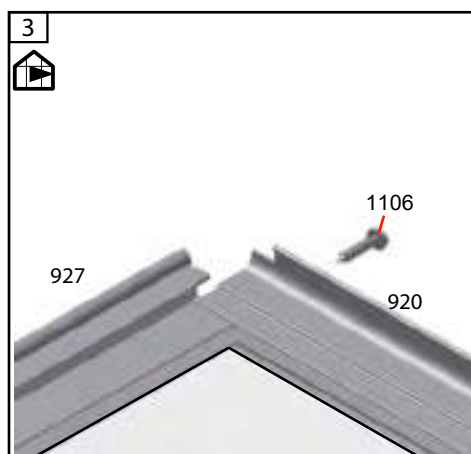
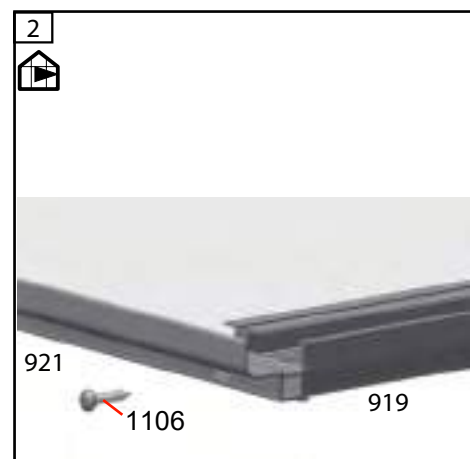
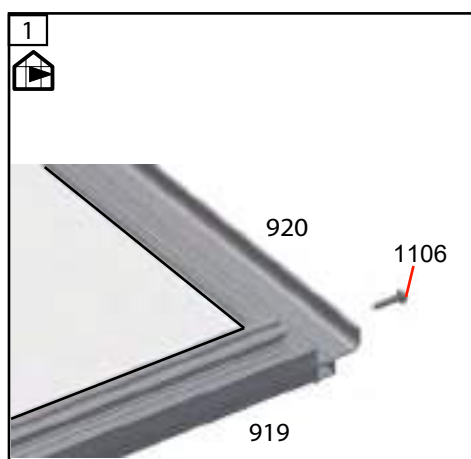
Door - Tür - Dør - Porte - Deur - Puerta - Porta - Ovi



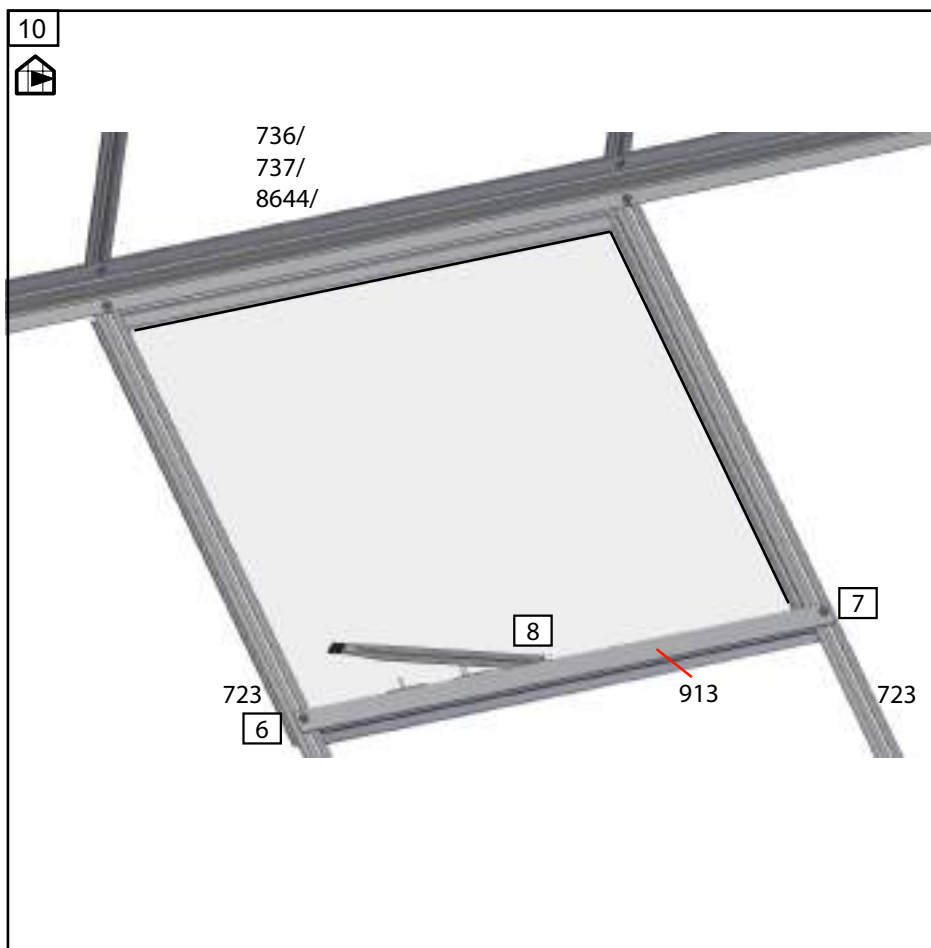
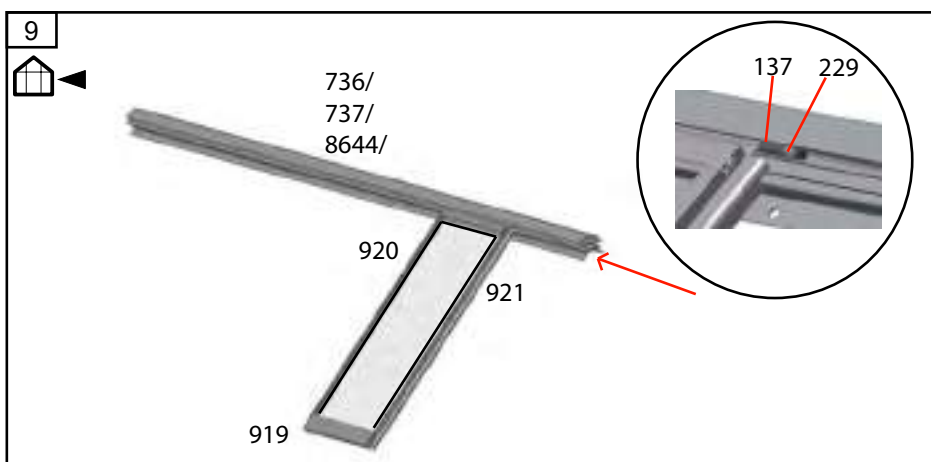
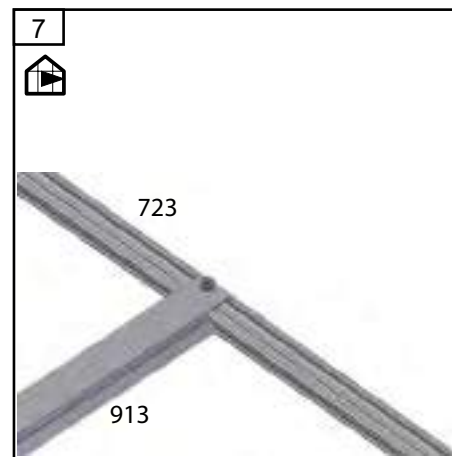
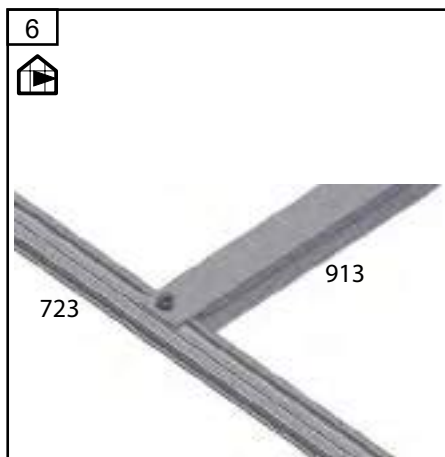
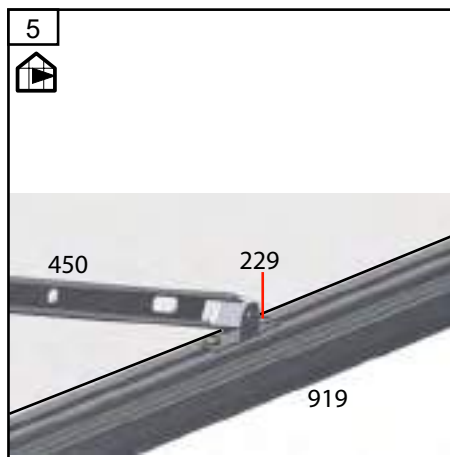
Windows - Fenster - Vinduer - Fönster - Fenêtres Ramen - Ventanas - Finestre - Luukut



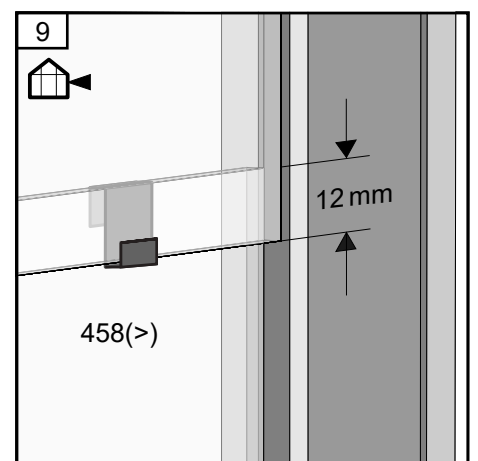
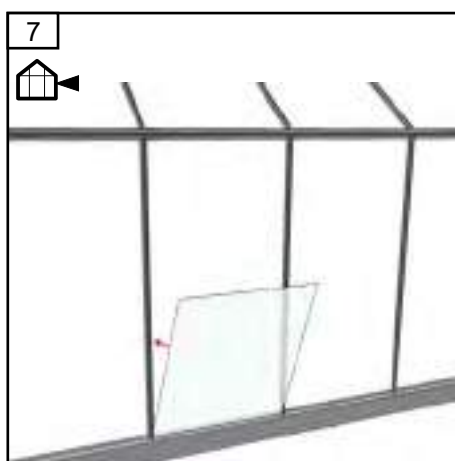
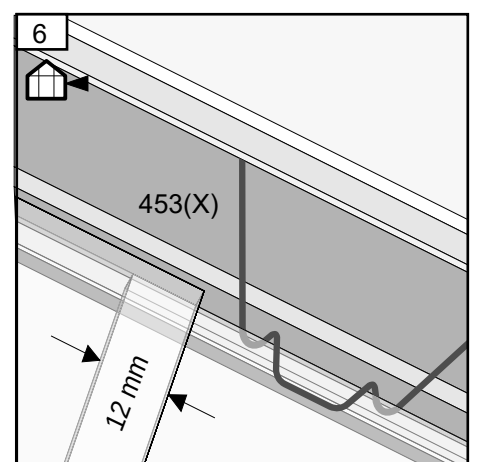
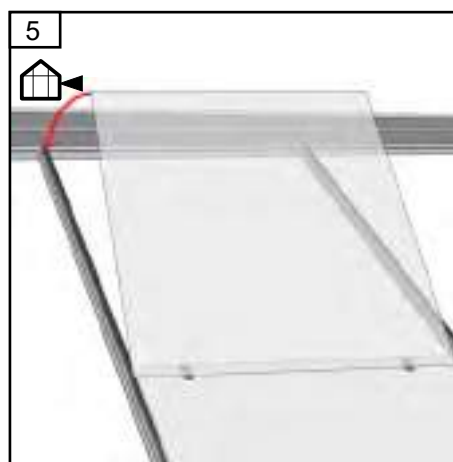
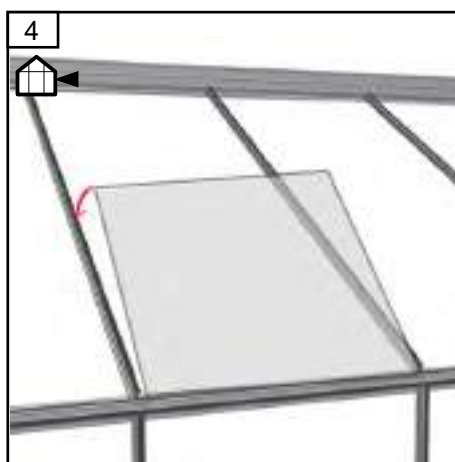
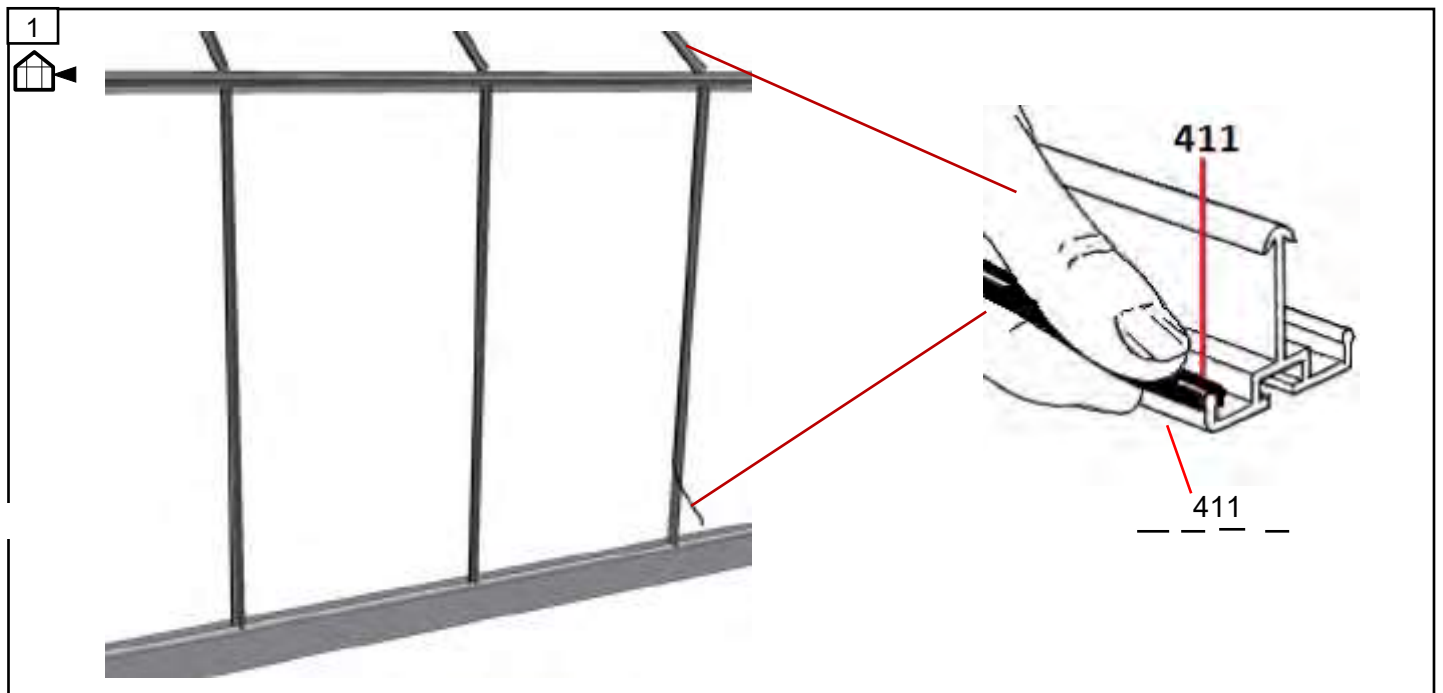
6	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	927	612	4	4	4
	919	600	4	4	4
	920	610	4	4	4
	921	635	4	4	4
	913	638	4	4	4
	450		4	4	4
	8588		4	4	4
	451		8	8	8
	137	32	8	8	8
	1106	6x16	16	16	16
	229	6x10	32	32	32
	142	2500	4	4	4



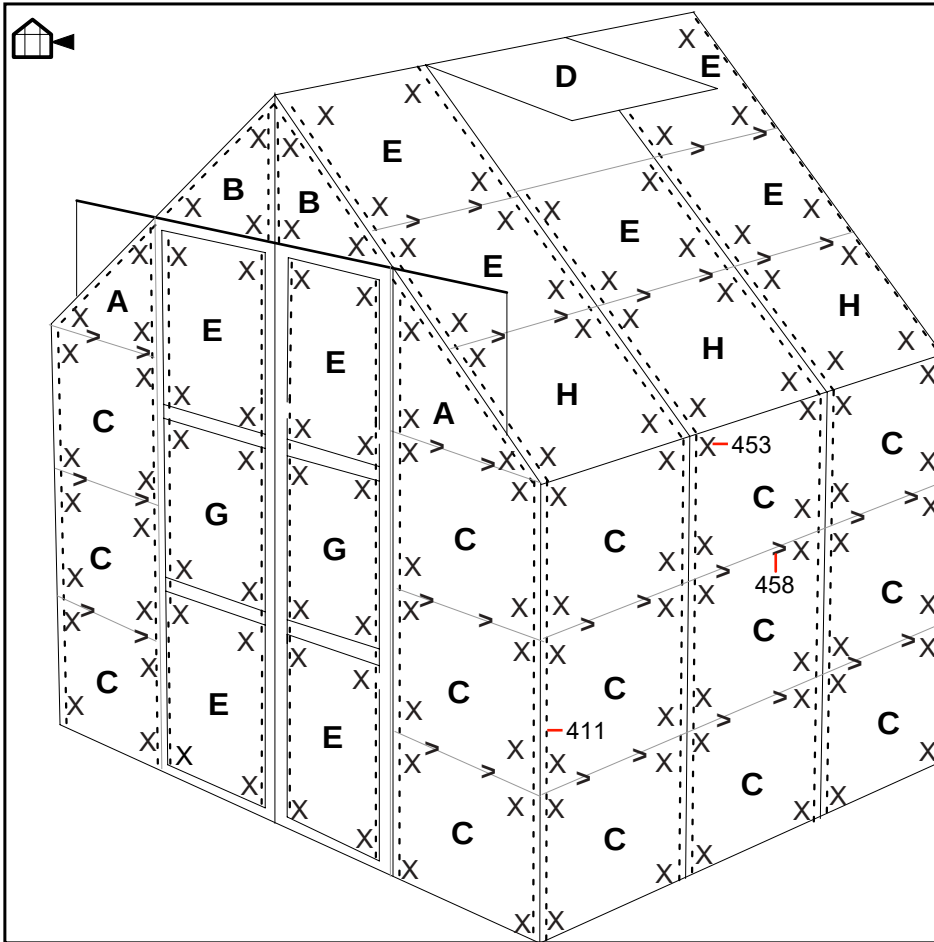
Windows - Fenster - Vinduer - Fönster - Fenêtres Ramen - Ventanas - Finestre - Luukut



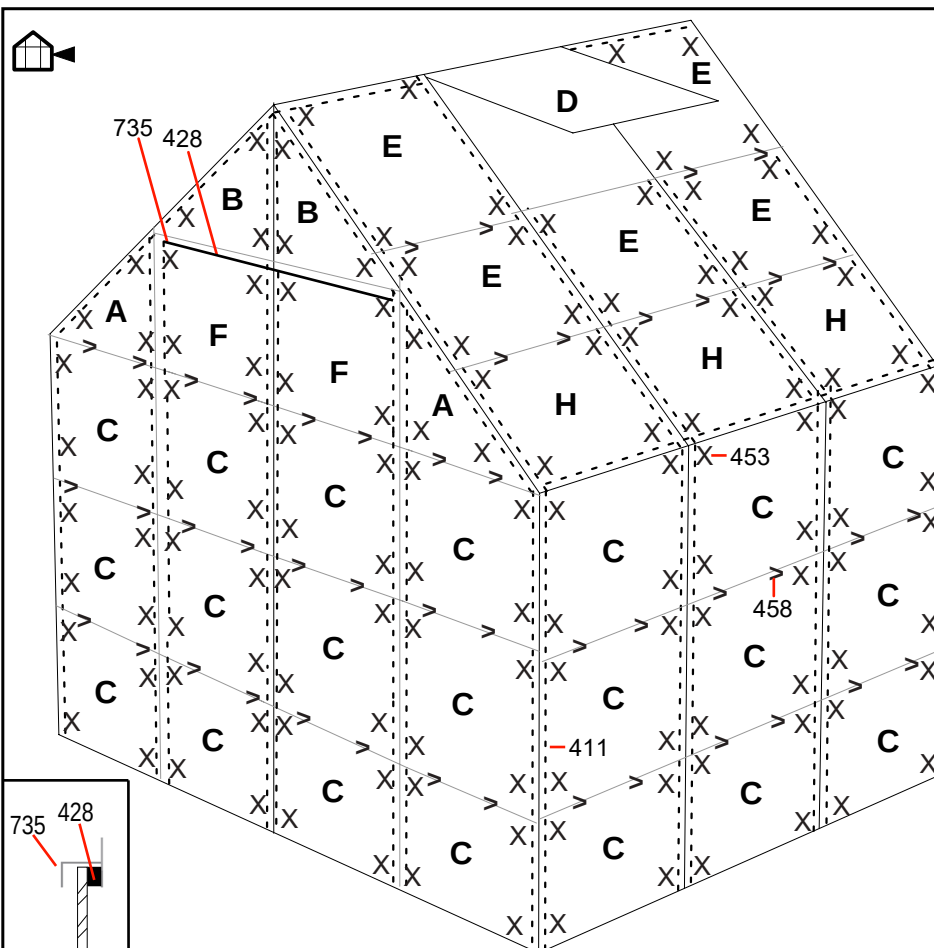
Glass - Glas - Verre - Cristales - Vetro - Lasit



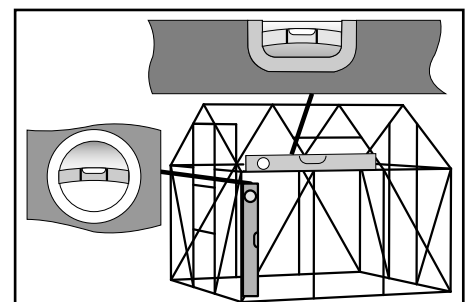
3 mm. - Glass - Glas - Verre - Cristales - Vetro - Lasit



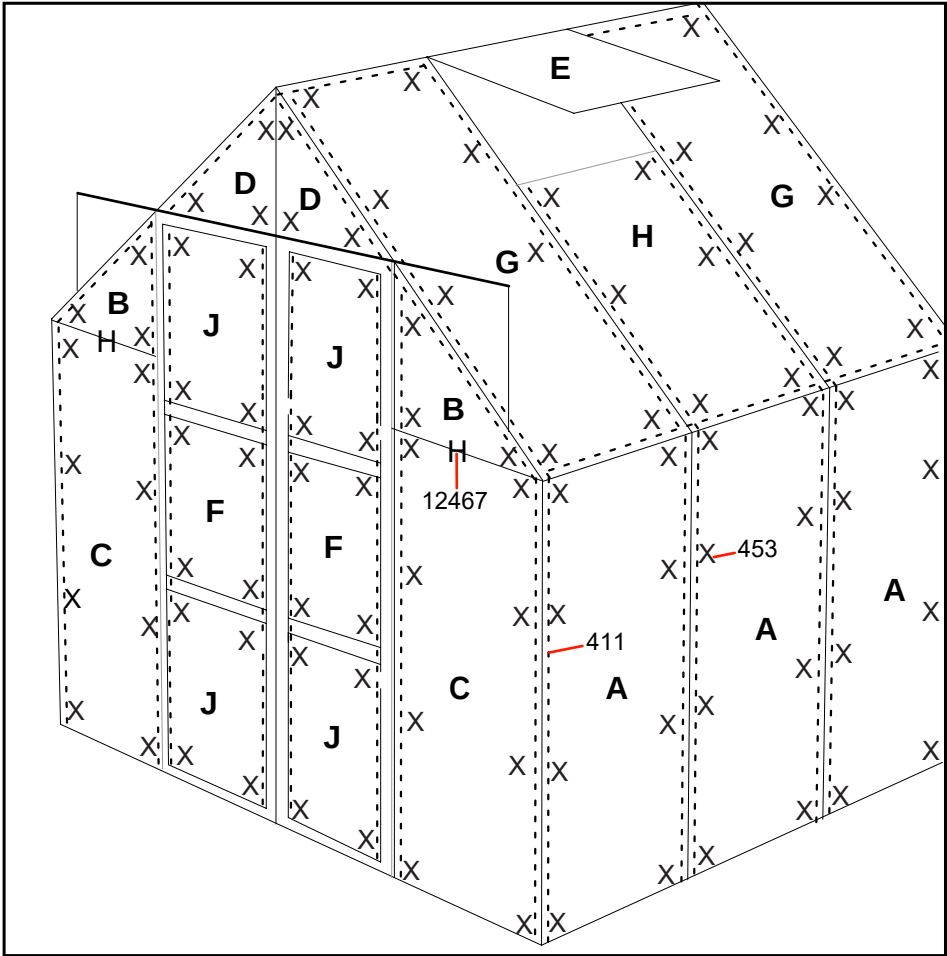
	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	A	610x520/8	4	4	4
	B	610x527/15	4	4	4
	C	610x504	48	54	60
	D	610x559	4	4	4
	E	610x610	20	24	28
	F	610x508	2	2	2
	G	610x574	2	2	2
	H	610x421	10	12	14



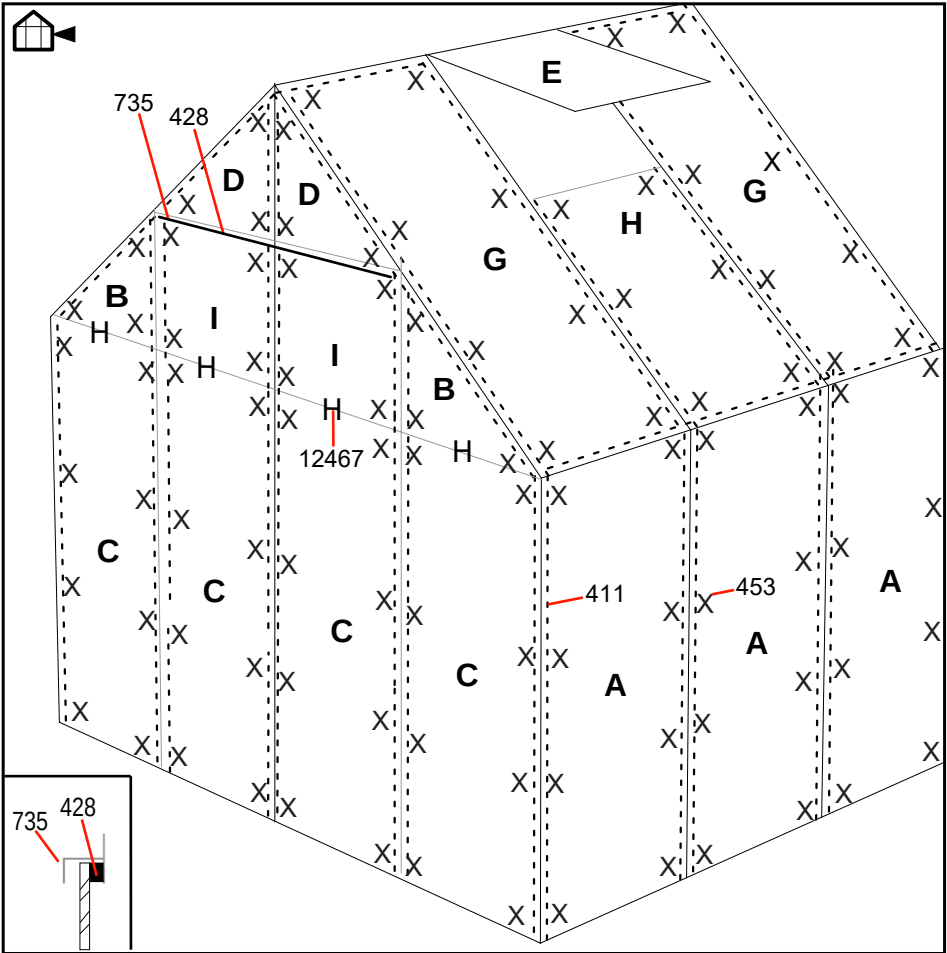
	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	X		360	408	456
	>		116	132	148
	411	101000/ 112000/ 124000	1	1	1
	428	620	2	2	2



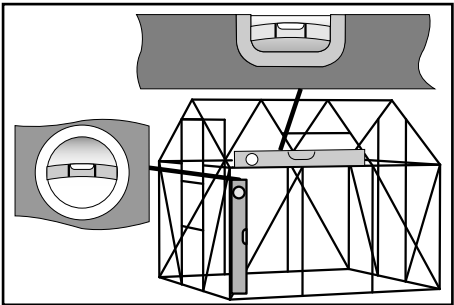
3 mm. - Toughened glass - Gehärtetem glas - Hærdet glas - Verre trempée



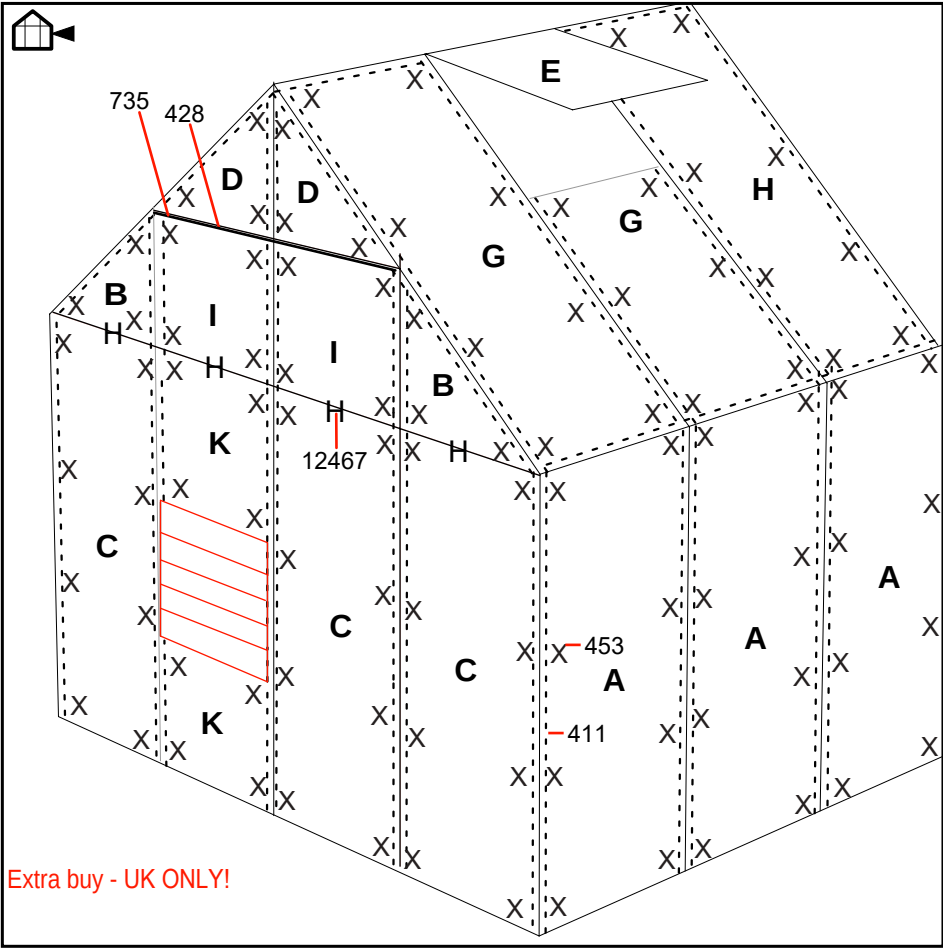
	#	mm	108 8.3m ²	128 9.9m ²	148 11.5m ²
	A	610x1486	10	12	14
	B	610x520/8	4	4	4
	C	610x1472	6	6	6
	D	610x527/15	4	4	4
	E	610x559	4	4	4
	F	610x574	2	2	2
	G	610x1617	6	8	10
	H	610x1018	4	4	4
	I	610x508	2	2	2
	J	610x610	4	4	4



	#	mm	108 8.3m ²	128 9.9m ²	148 11.5m ²
	X		360	408	456
	H	12467	6	6	6
	411	101000/ 112000/ 124000	1	1	1
	428	620	2	2	2

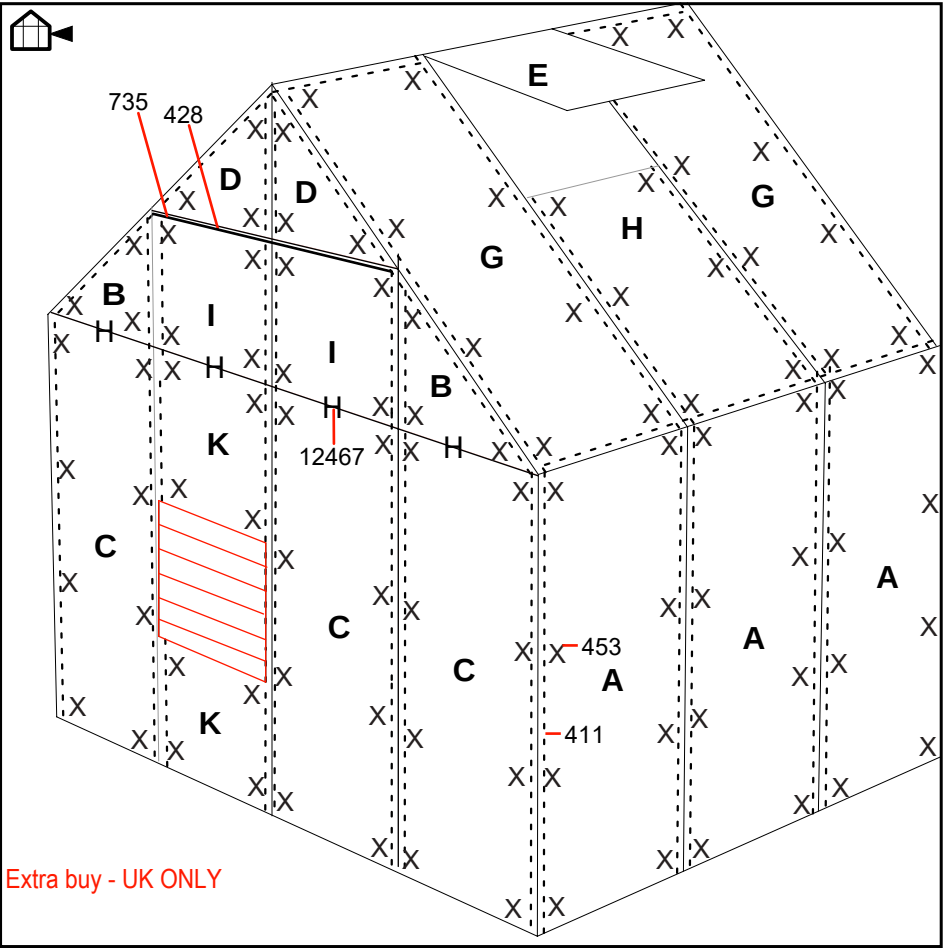
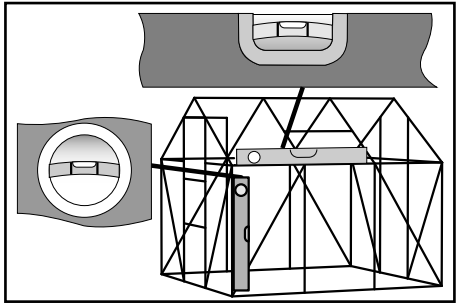


3 mm. - Toughened glass - Gehärtetem glas - Hærdet glas - Verre trempé



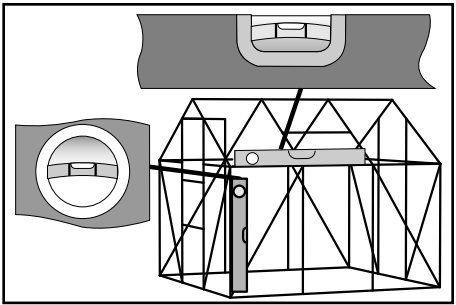
Extra buy - UK ONLY!

	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	K	610x514	2	2	2

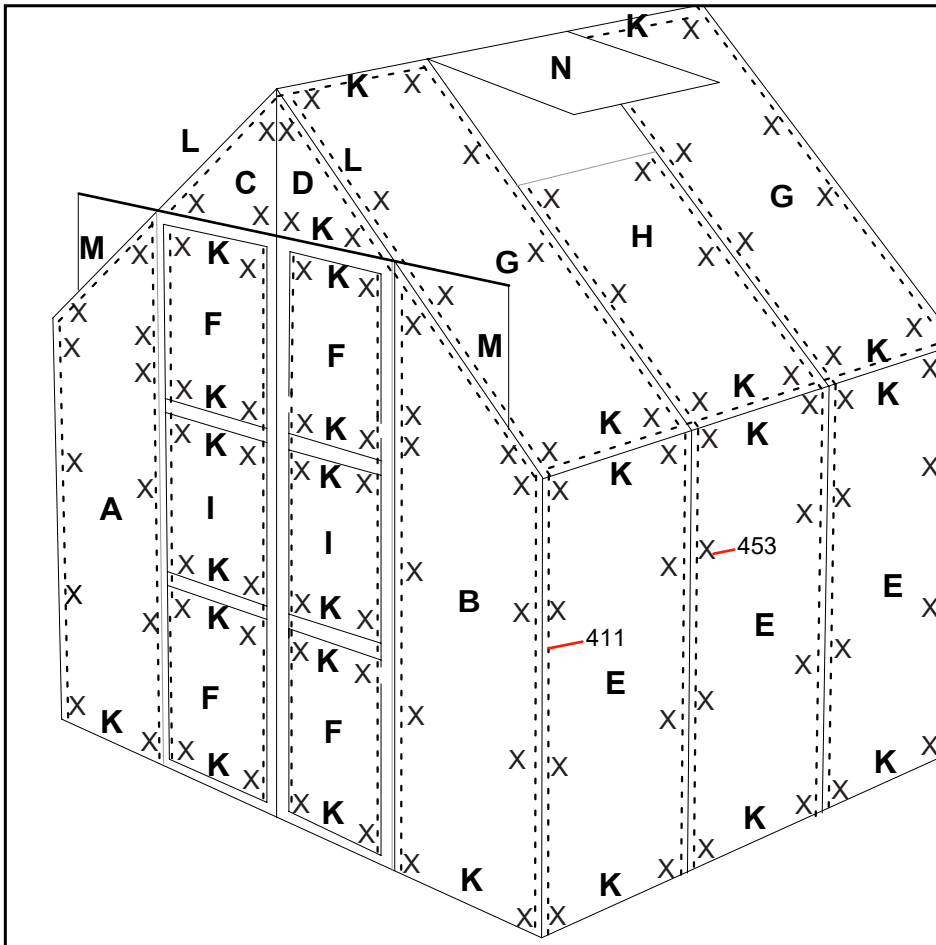


Extra buy - UK ONLY

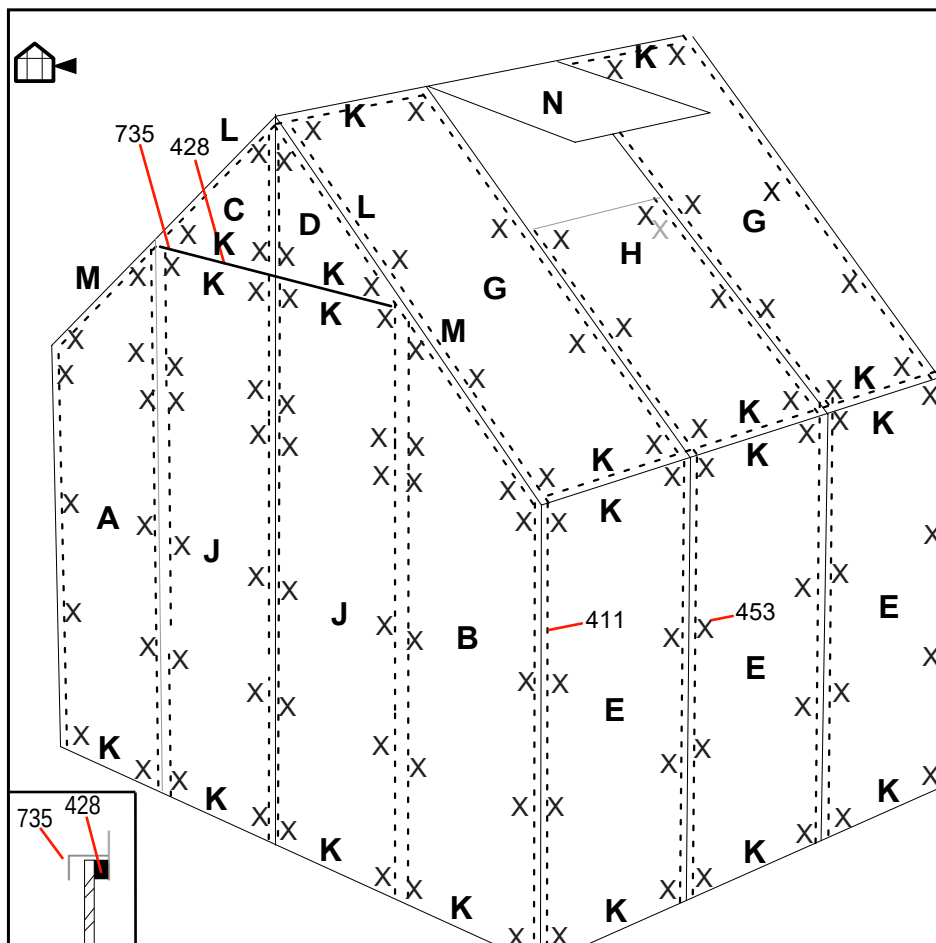
	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	K	610x448	2	2	2



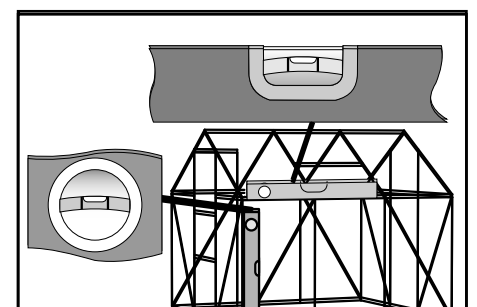
**4 mm. - Polycarbonate - Stegdoppelplatten - Polycarbonat - Isolierplast
Polycarbonaat - Policarbonato - Kennolevyt**



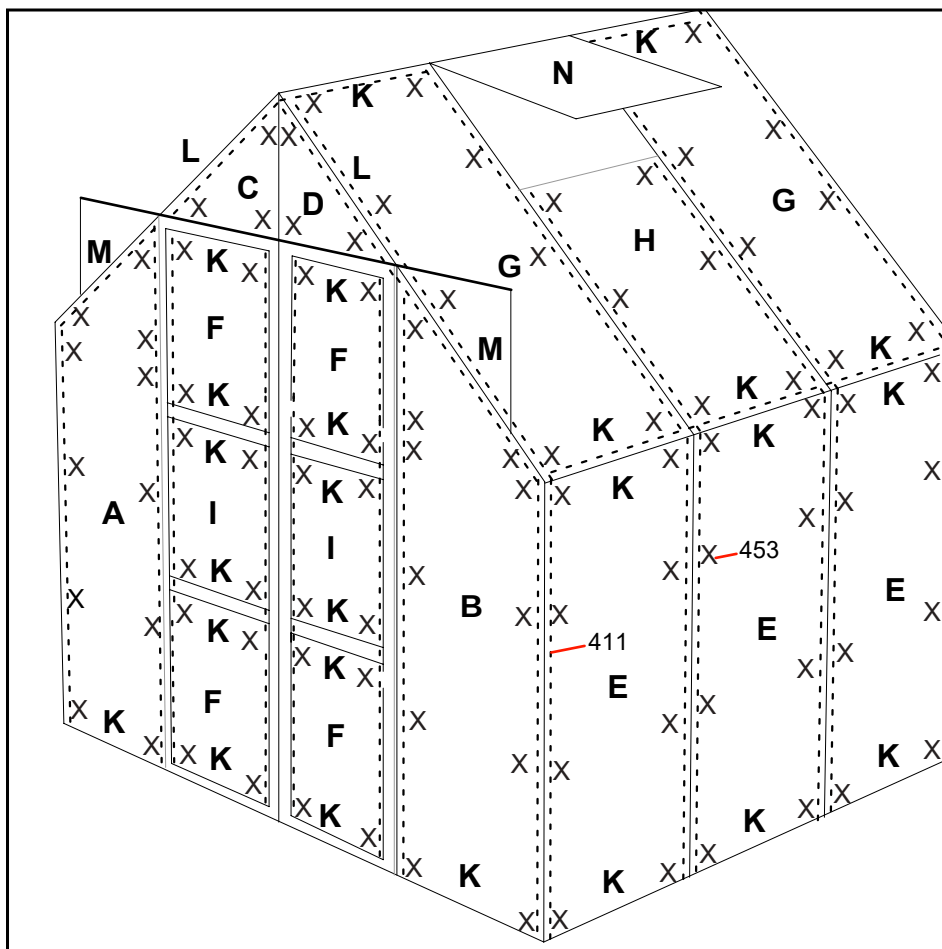
	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	A	617x1478/1996	2	2	2
	B	617x1996/1478	2	2	2
	C	617x11/529	2	2	2
	D	617x529/11	2	2	2
	E	617x1484	10	12	14
	F	617x608	4	4	4
	G	617x1614	6	8	10
	H	617x1017	4	4	4
	I	617x572	2	2	2
	J	617x1981	2	2	2
	N	615x558	4	4	4



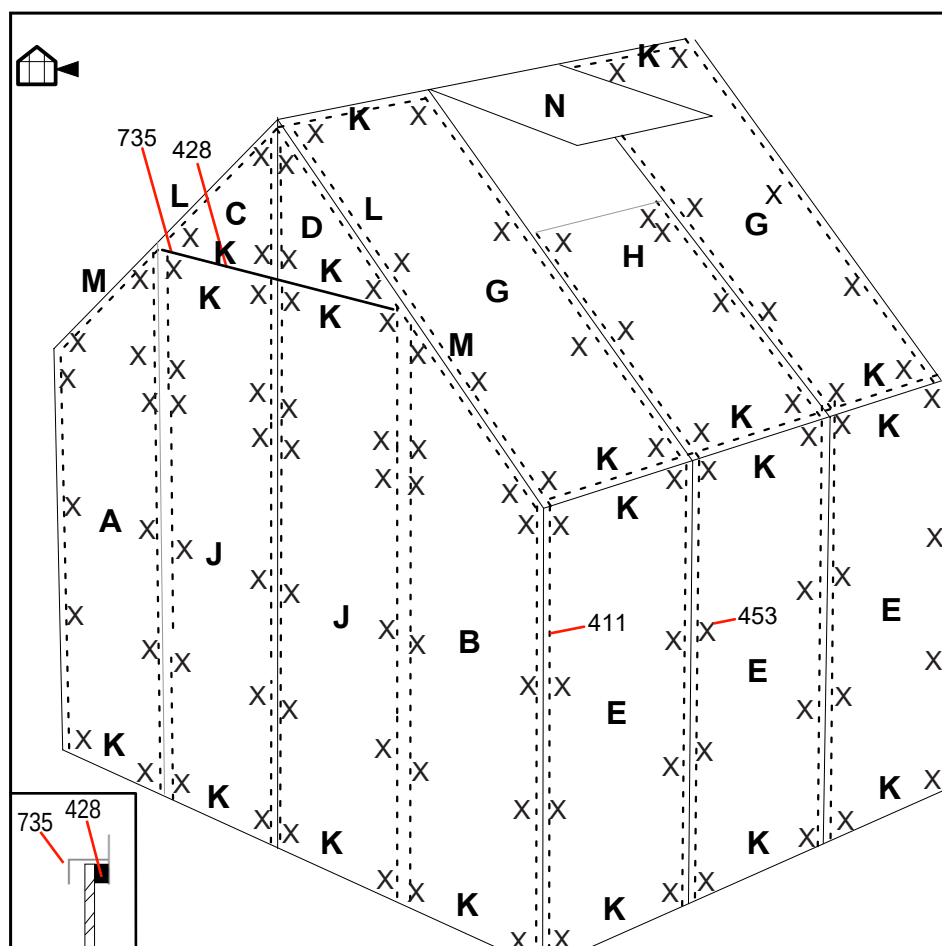
	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	X		360	408	456
	428	620	2	2	2
	K	617	60	68	76
	L	783	4	4	4
	M	795	4	4	4



6 mm. - Polycarbonate - Stegdoppelplatten - Polycarbonat - Isolerplast Polycarbonaat - Policarbonato - Kennolevyt



	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	A	617x1478/1996	2	2	2
	B	617x1996/1478	2	2	2
	C	617x11/529	2	2	2
	D	617x529/11	2	2	2
	E	617x1484	10	12	14
	F	617x608	4	4	4
	G	617x1614	6	8	10
	H	617x1017	4	4	4
	I	617x572	2	2	2
	J	617x1981	2	2	2
	N	615x558	4	4	4



	#	mm	108 8.3m²	128 9.9m²	148 11.5m²
	X		360	408	456
	428	620	2	2	2
	K	617	60	68	76
	L	783	4	4	4
	M	795	4	4	4

