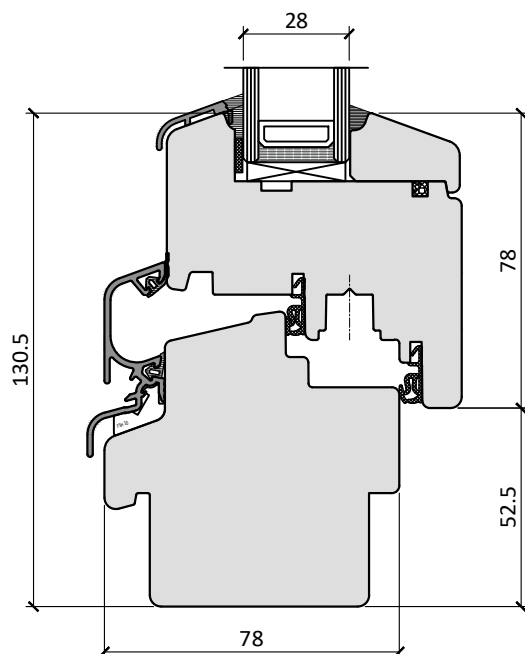
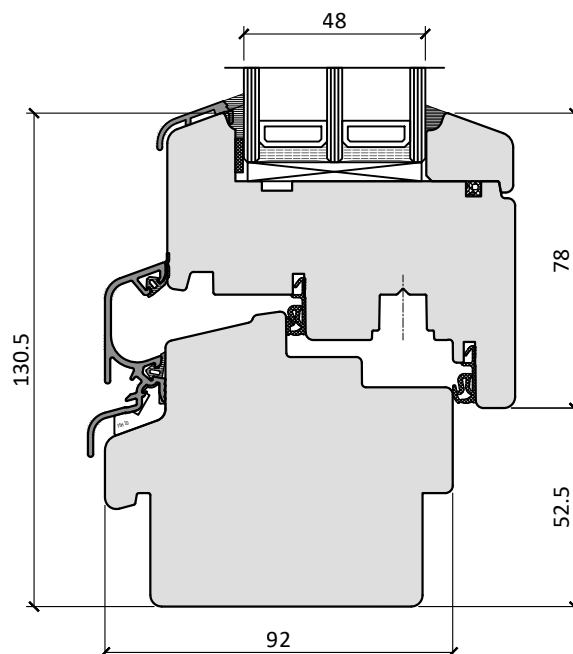


78 EUROPA



92 EUROPA



ENERGY											
Thermal Insulation EN ISO 10077-1	78 EUROPA DOUBLE GLAZED ONLY					92 EUROPA TRIPLE GLAZED ONLY					
	U _w value 1.3 W/m²K					U _w value 0.8 W/m²K					
COMFORT											
Air permeability EN 1026; EN 12207	1 (150 Pa)			2 (300 Pa)			3 (600 Pa)			4 (600 Pa)	
Water tightness EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E (900 Pa)	
Wind resistance EN 1221; EN 12210	1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)		4 (1600 Pa)		5 (2000 Pa)		Exxx (>2000 Pa)
Wind load resistance to frame deflection EN 1221; EN 12210	A (≤1/150)				B (≤1/200)				C (≤1/300)		
SAFETY											
Burglar resistance PAS 24:2016	COMPLIANT										

(1) Calculation based on window size 1.23m wide x 1.48m high.

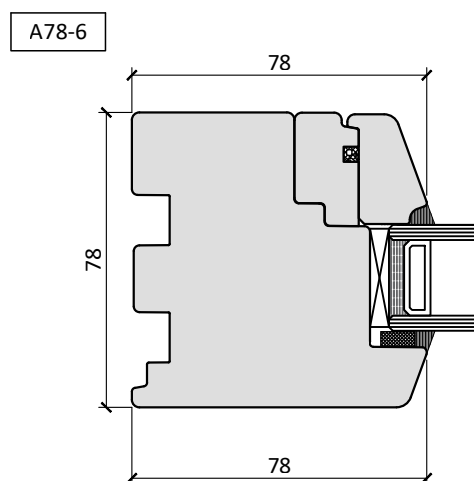
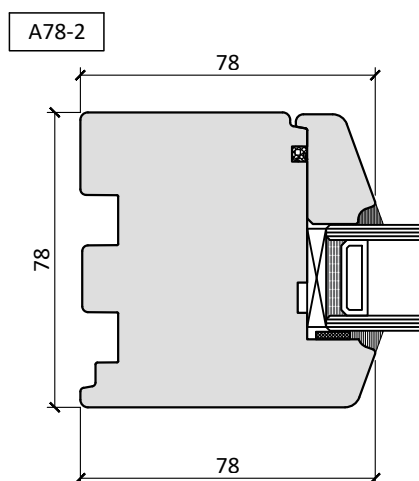
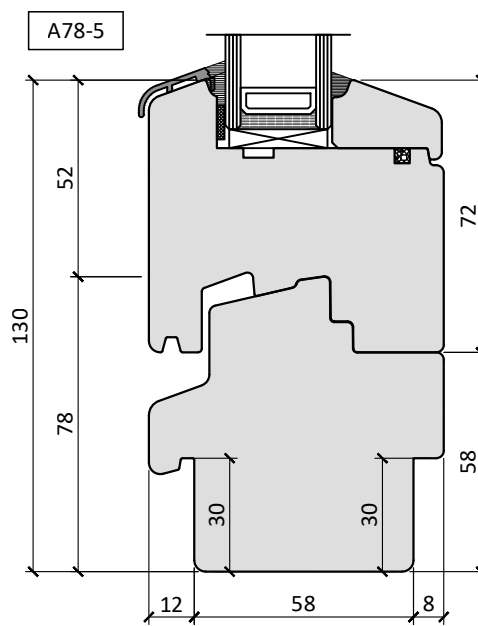
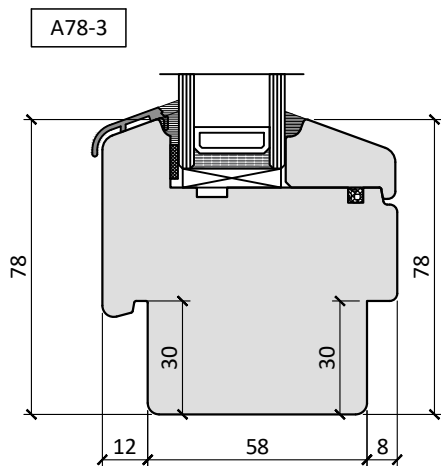
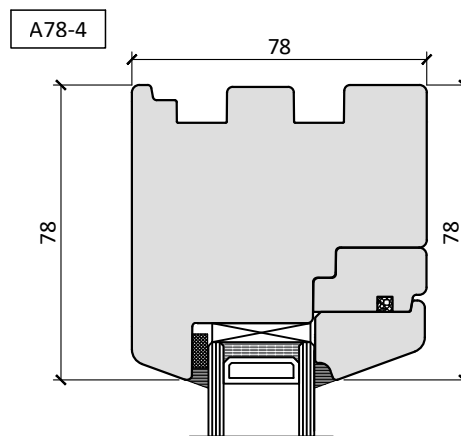
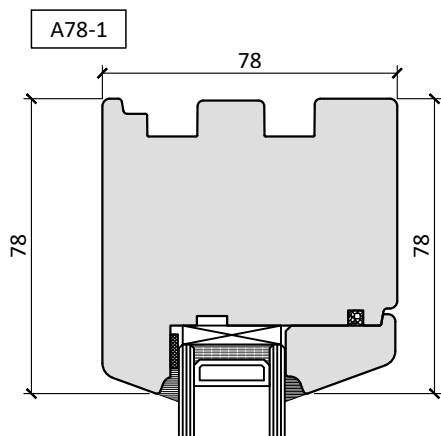
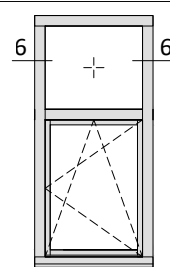
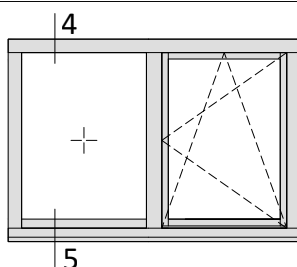
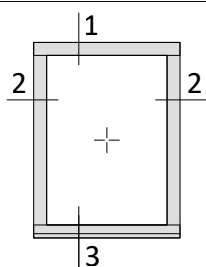
(2) 78 Europa U value calculation based on double glazed unit with centre pane U value U_g=1.1 W/m²K.

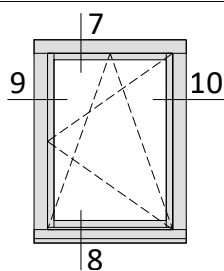
(3) 92 Europa U value calculation based on triple glazed unit with centre pane U value U_g=0.5 W/m²K.

(4) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

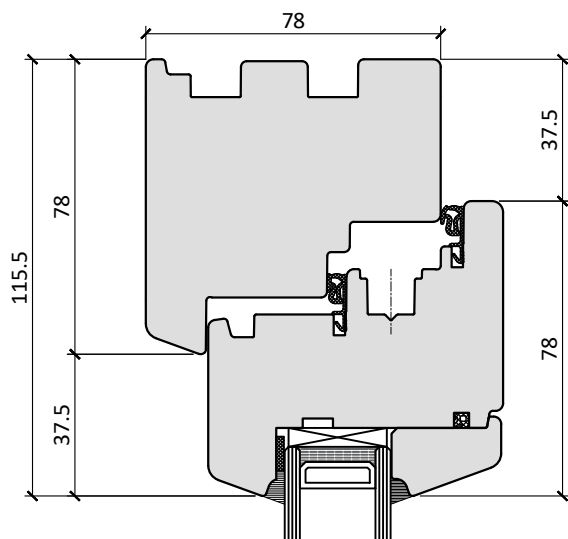
(5) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.

(6) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force.

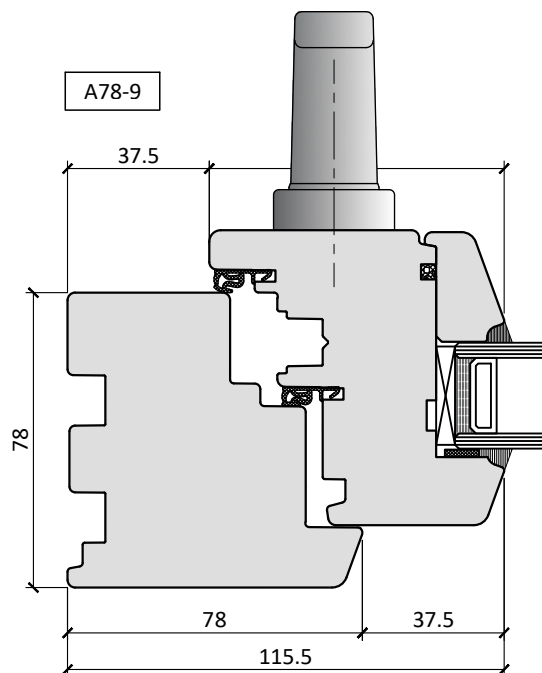




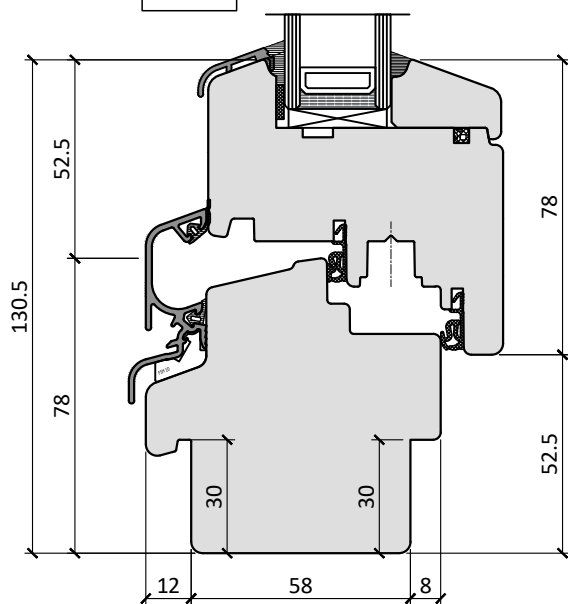
A78-7



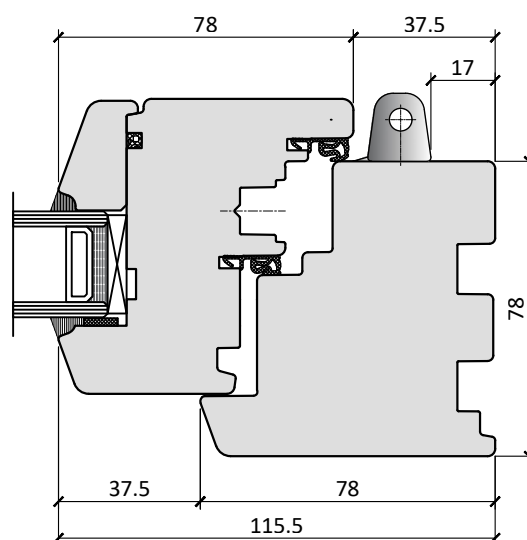
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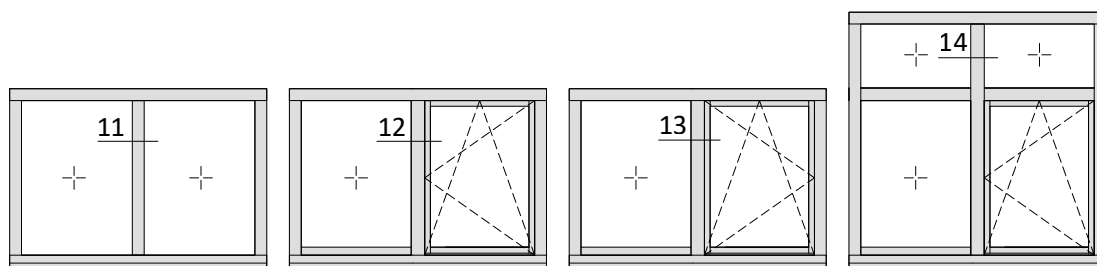


A78-8

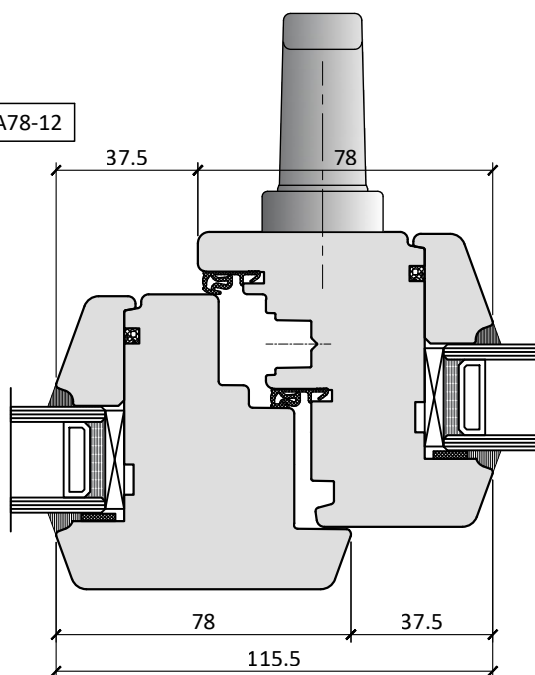


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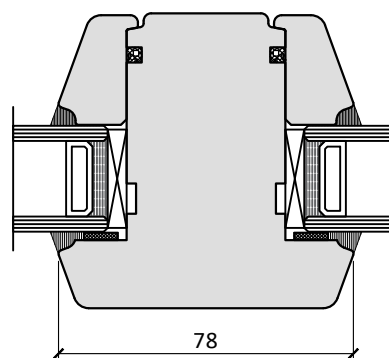




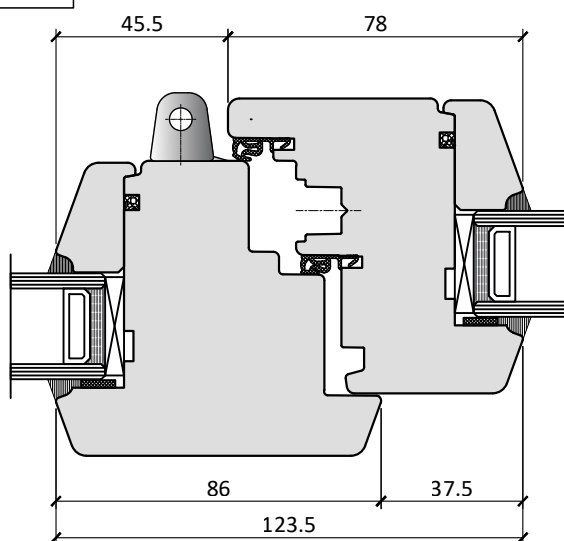
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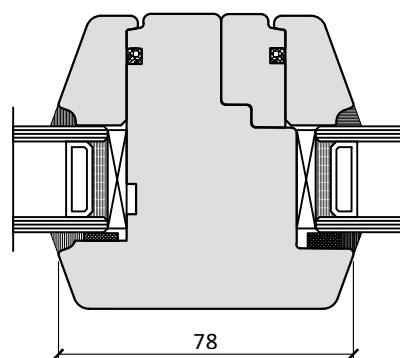
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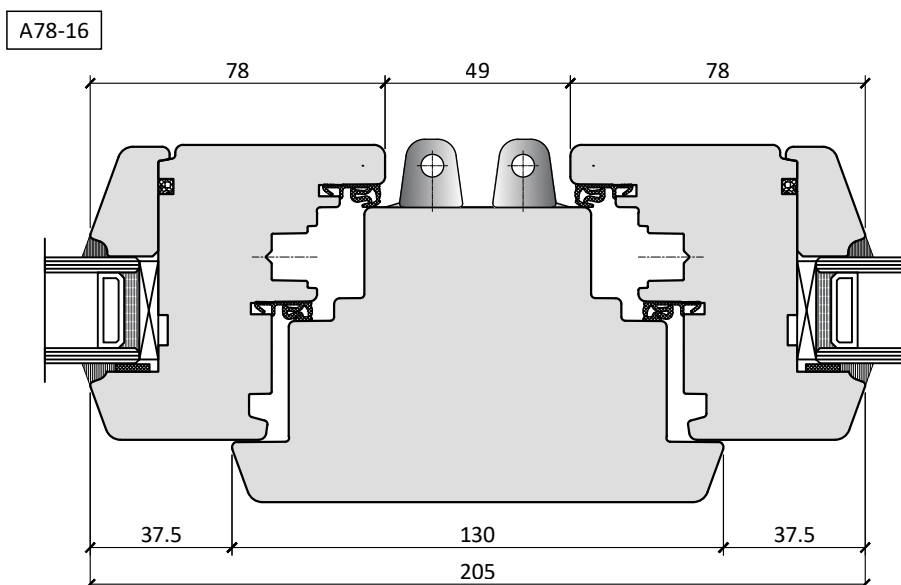
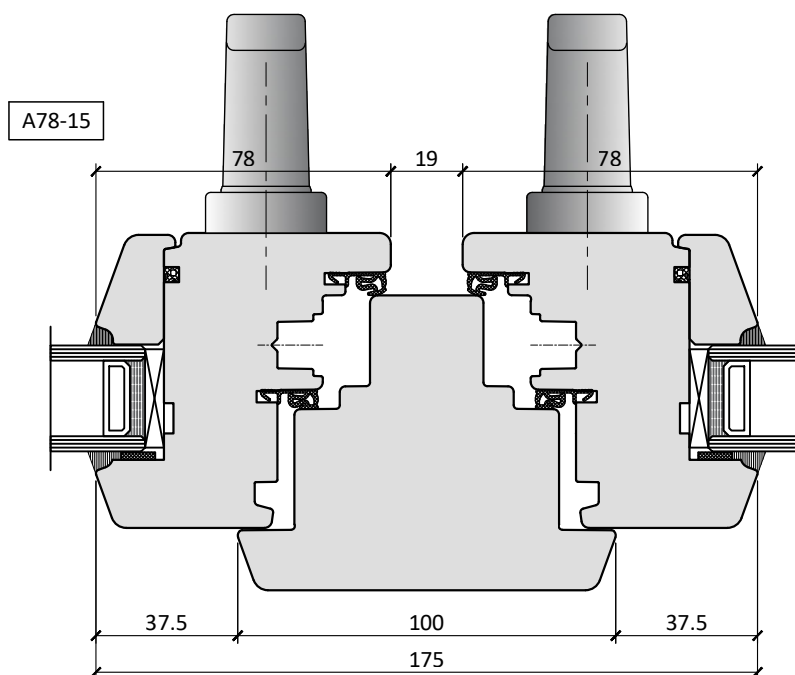
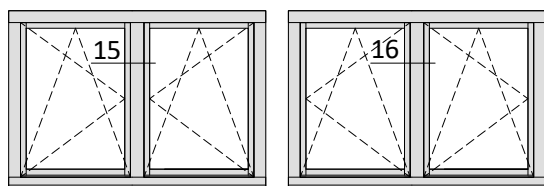


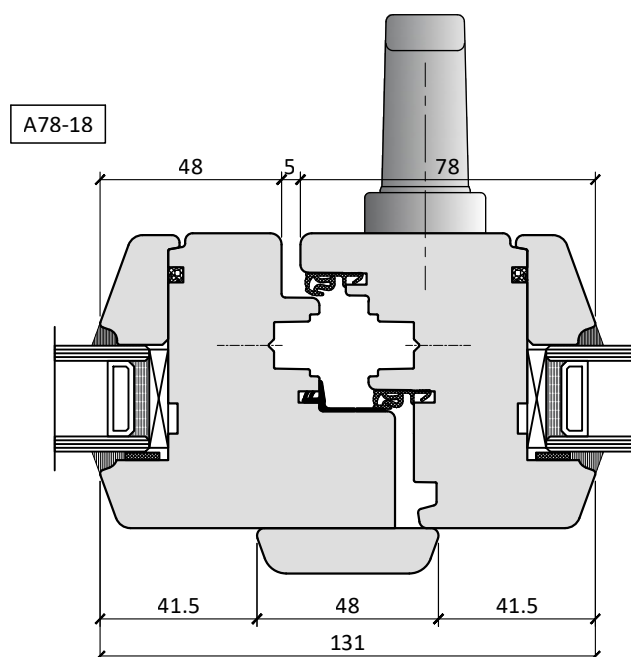
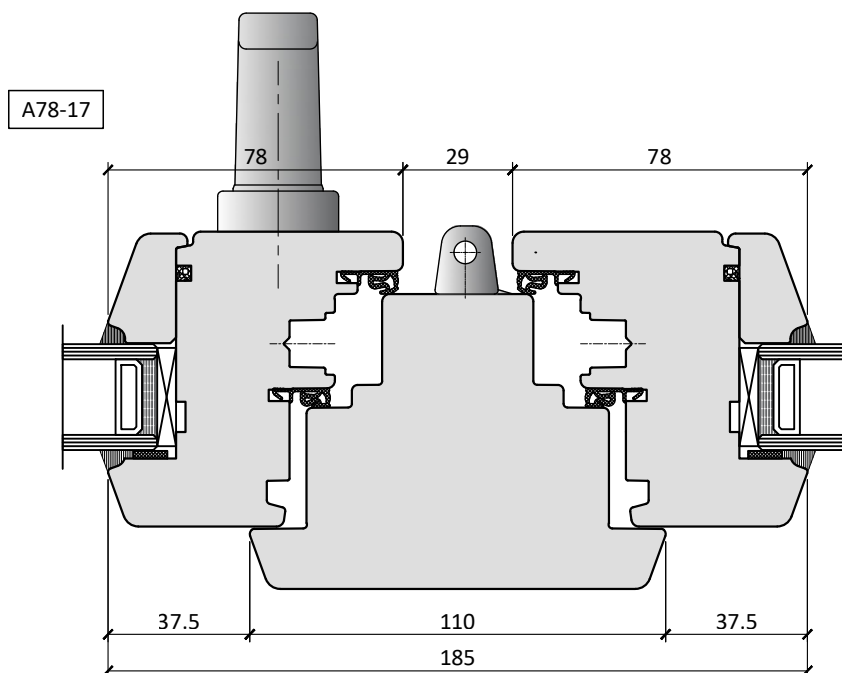
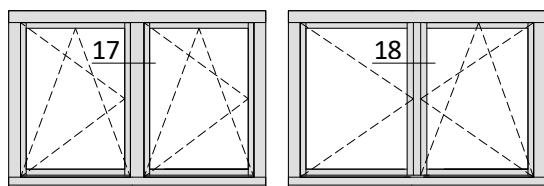
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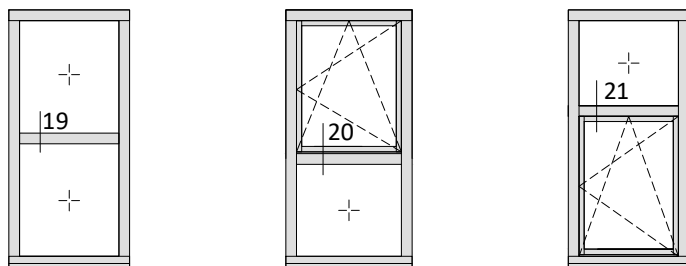


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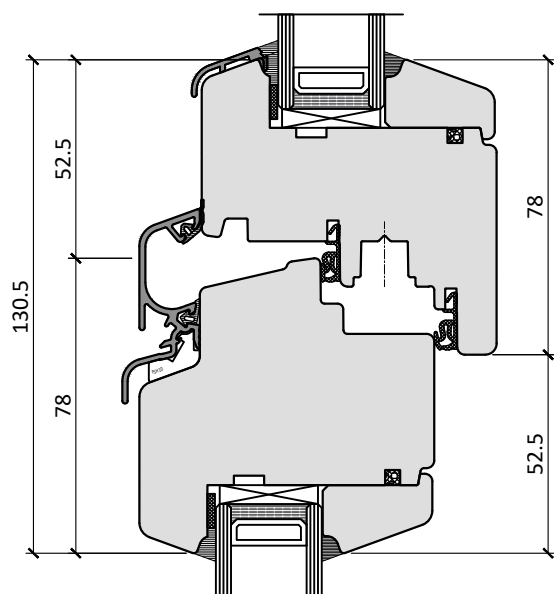




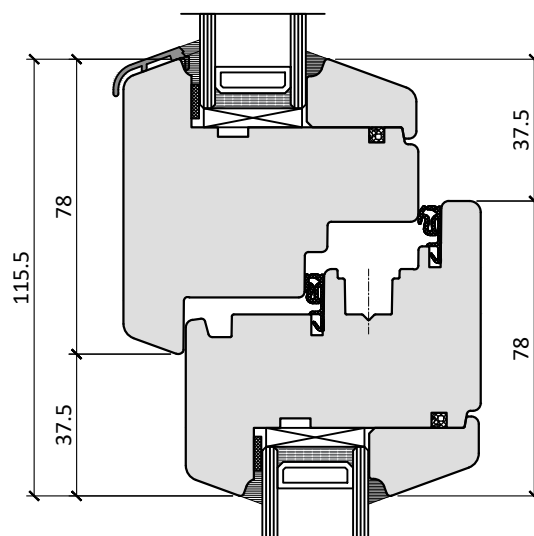




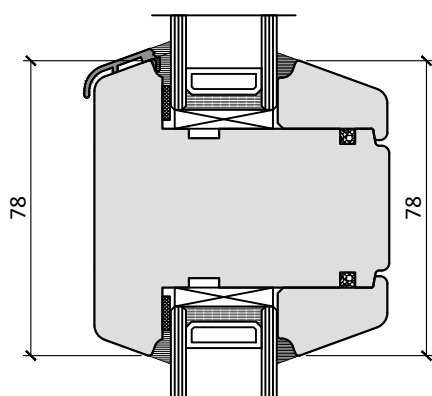
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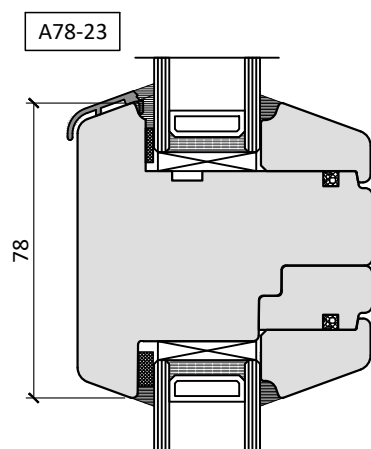
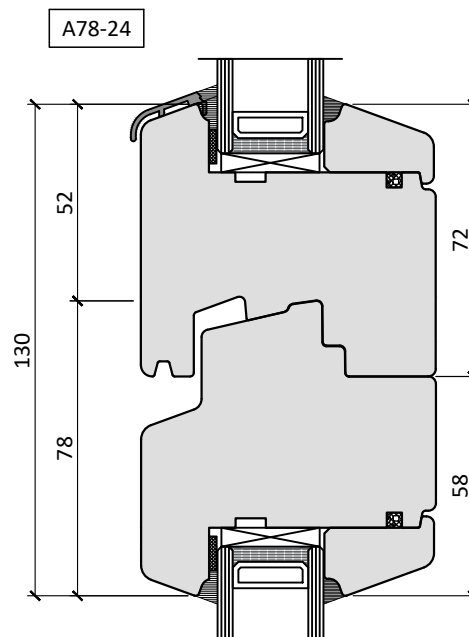
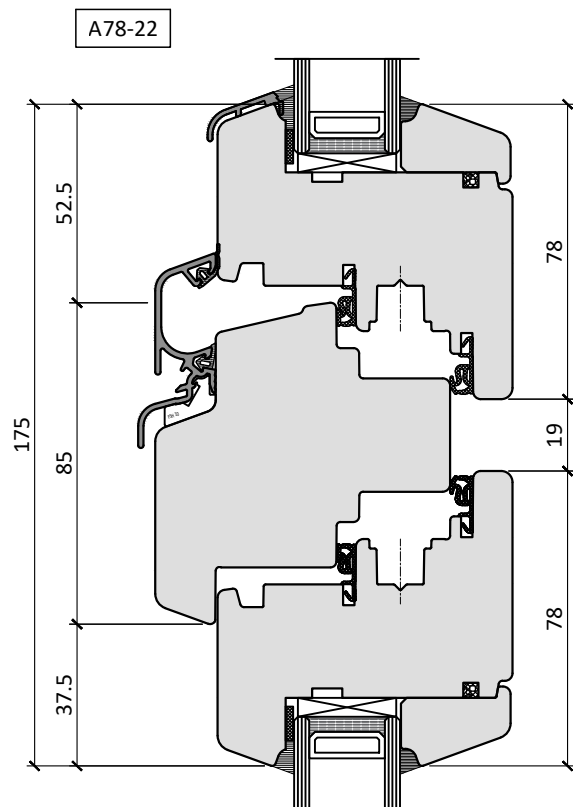
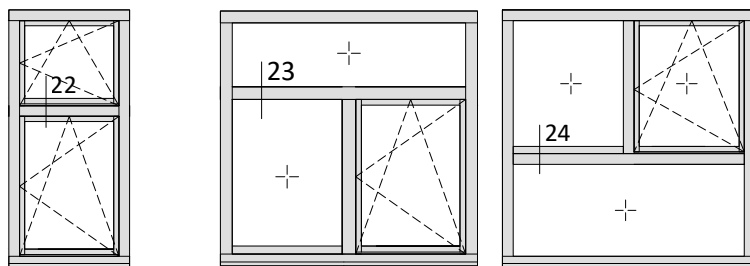


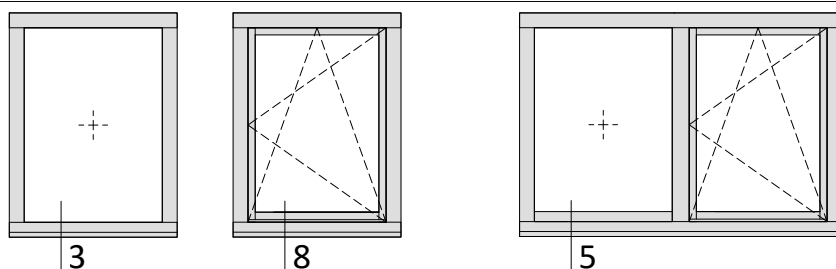
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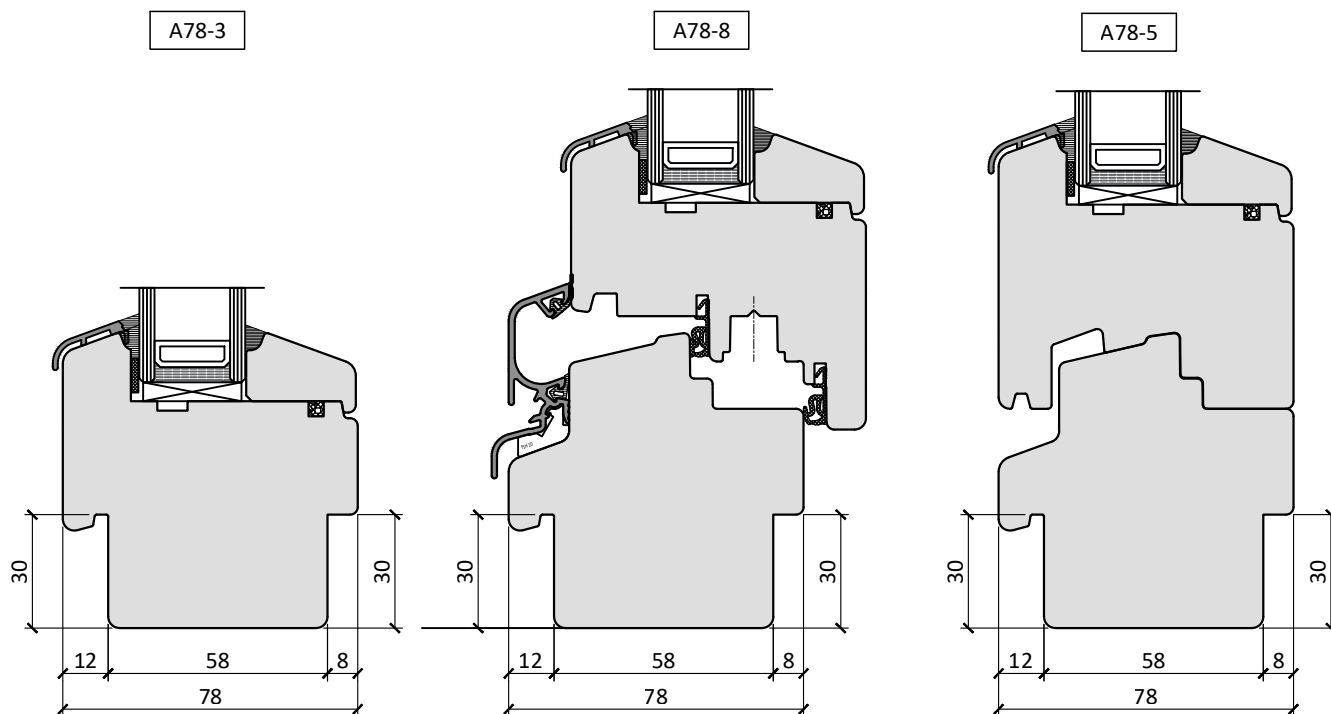
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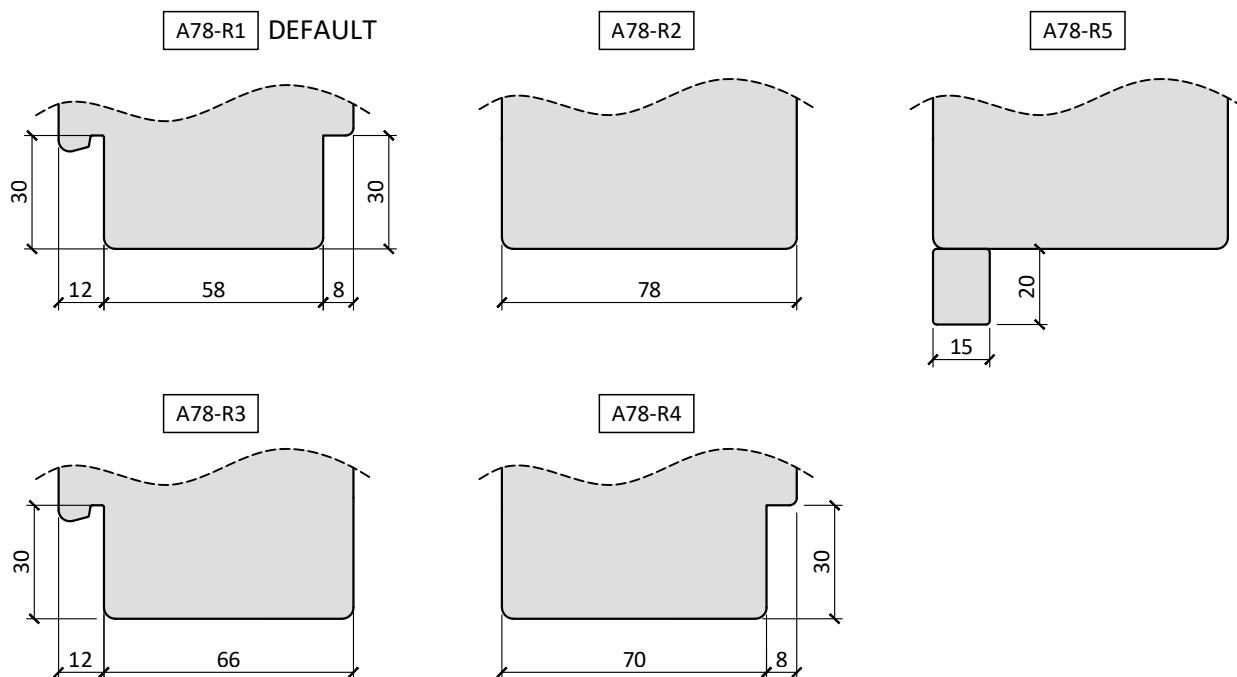


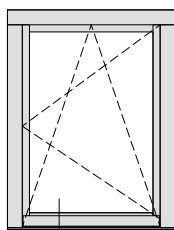


DEFAULT CILL PROFILES

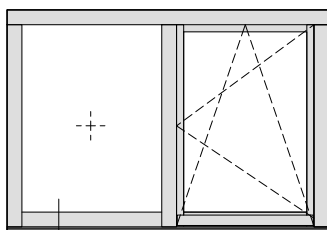


**A78-3/A78-8/A78-5
OPTIONS**



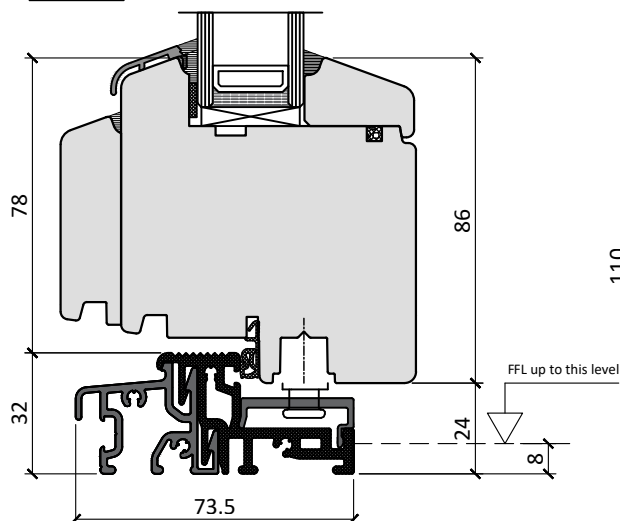


25

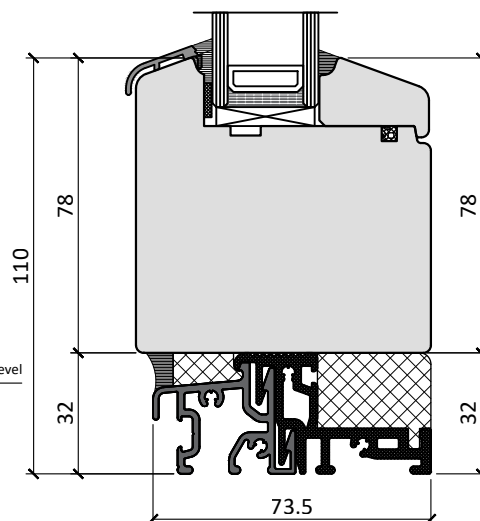


26

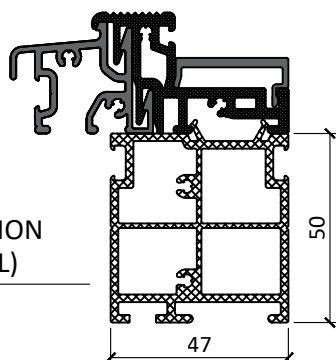
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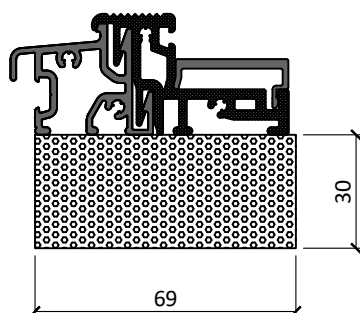
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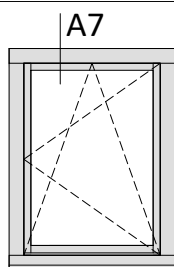


PVC EXTENSION
(OPTIONAL)



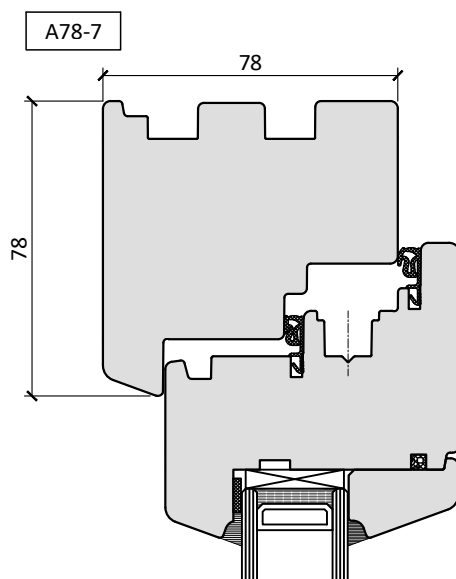
EXPANDED
POLYSTYRENE FOAM
(OPTIONAL)



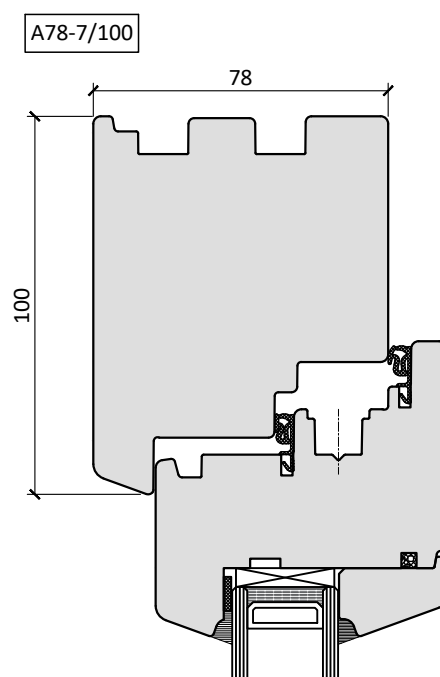
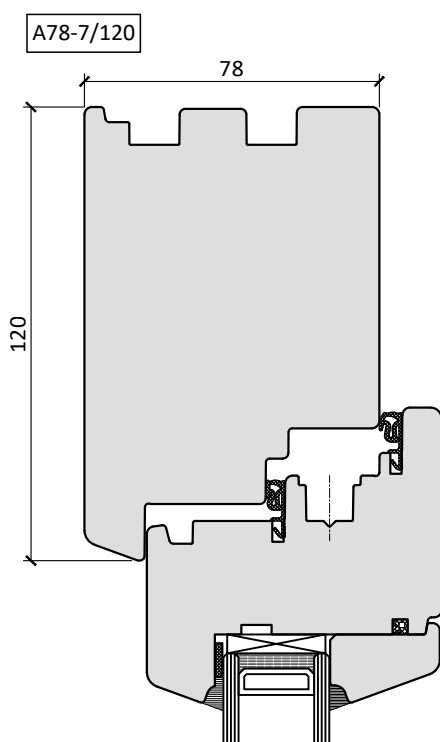


A78

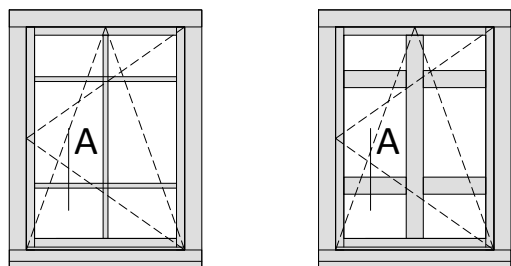
STANDARD FRAME



EXTENDED FRAME OPTIONS

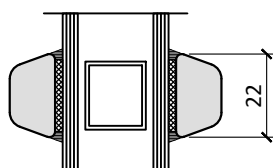


Scale 1:2

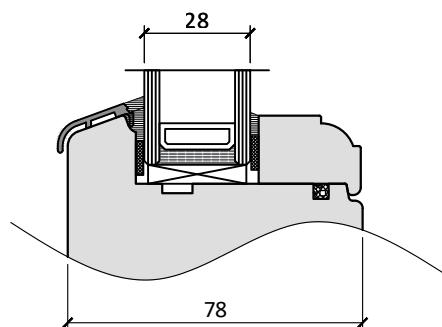
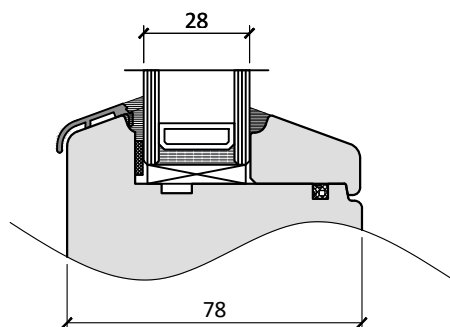
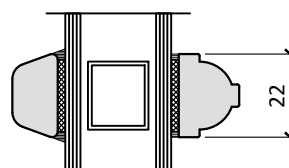


GLAZING BARS & BEADS

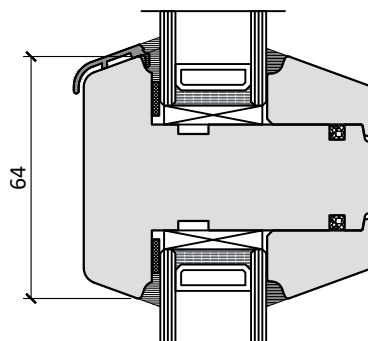
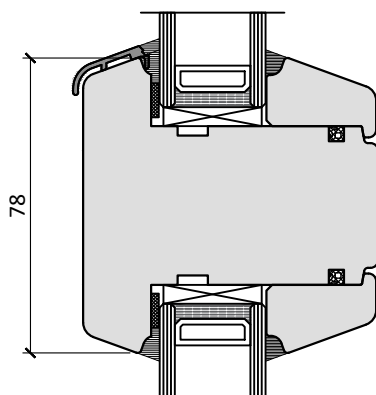
SPLAYED

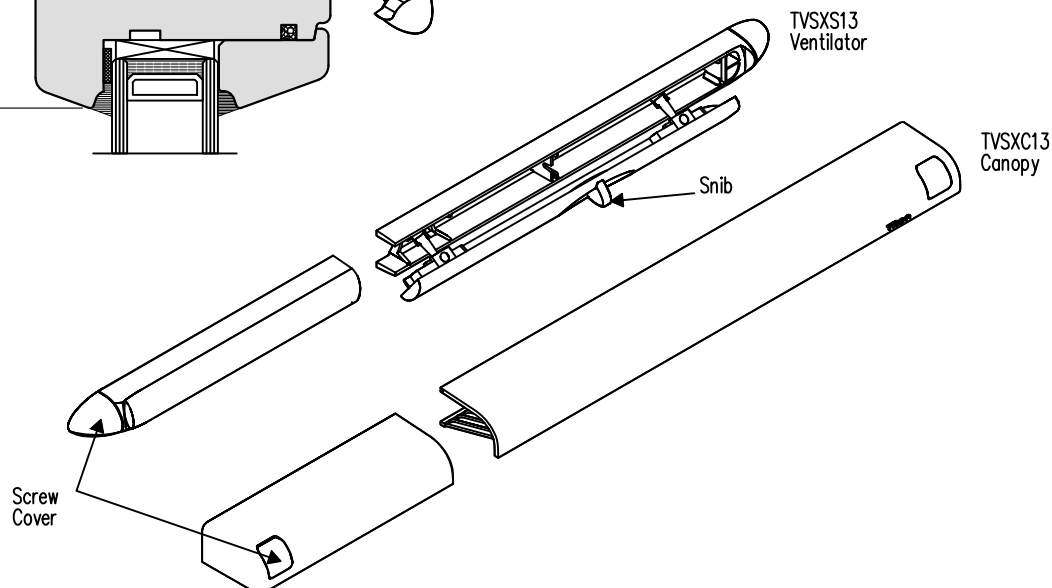
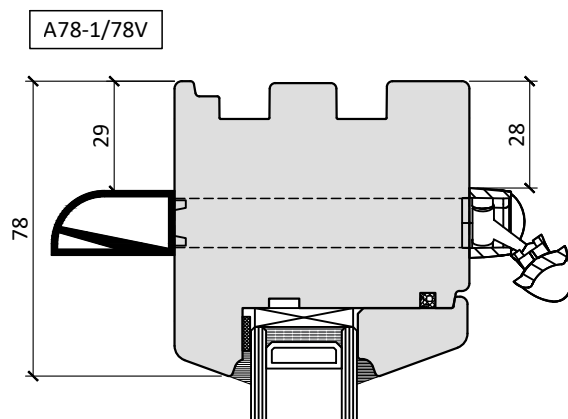
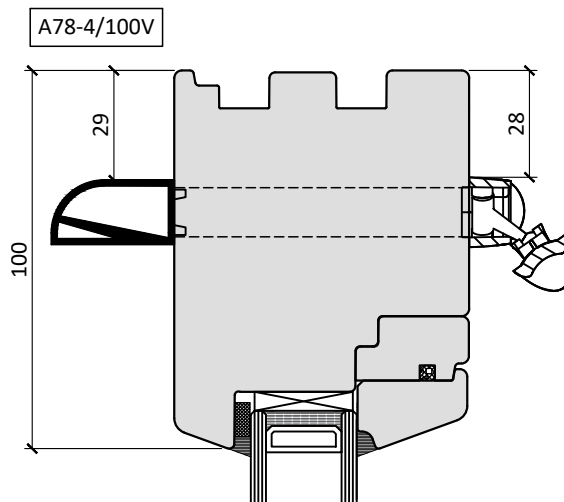
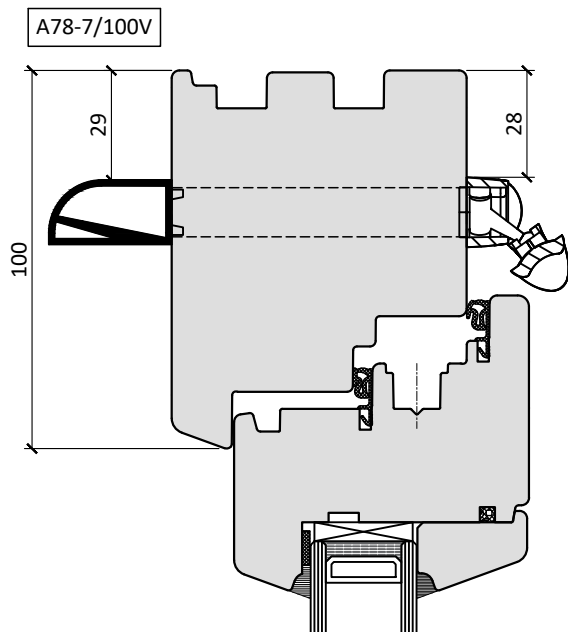
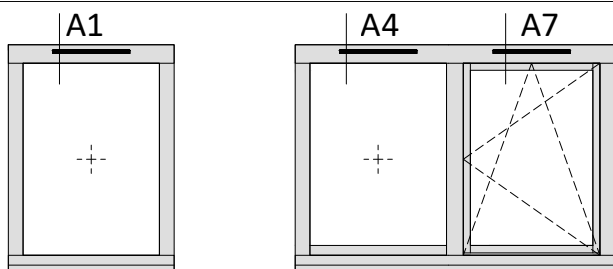


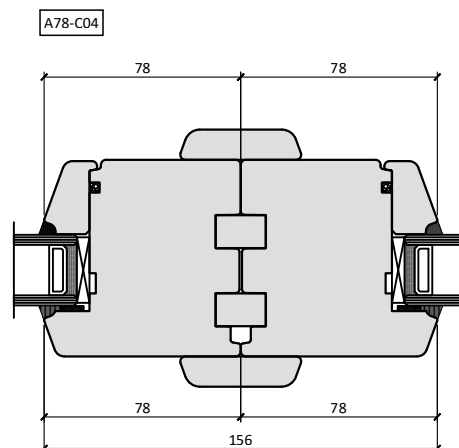
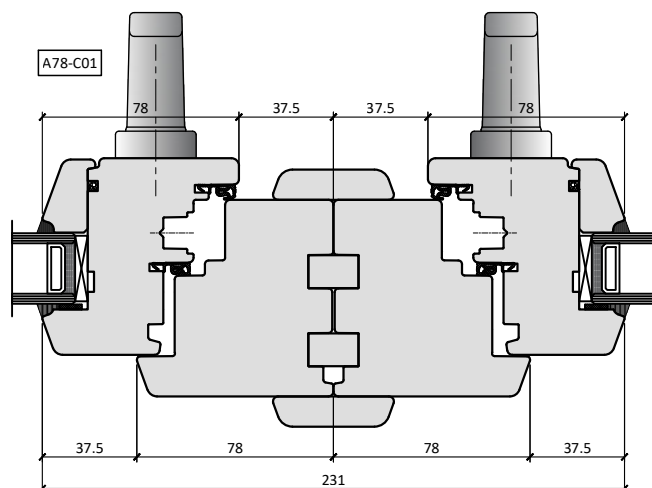
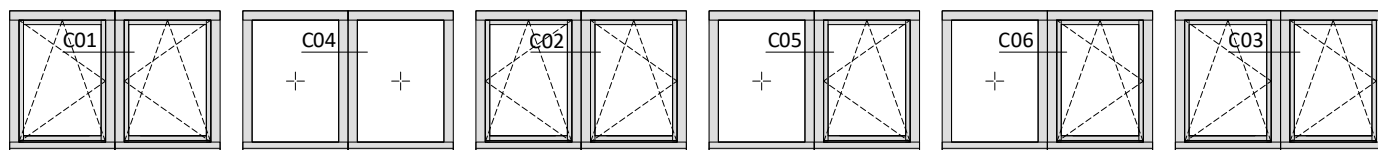
OVOLO



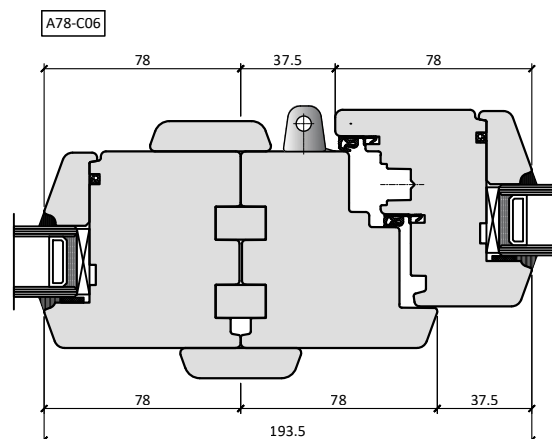
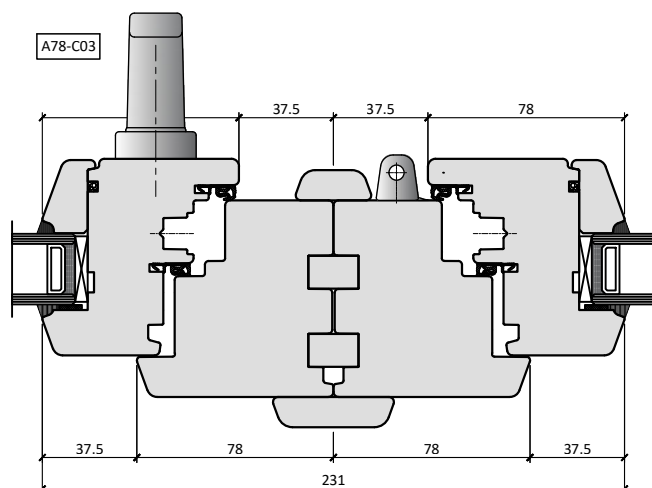
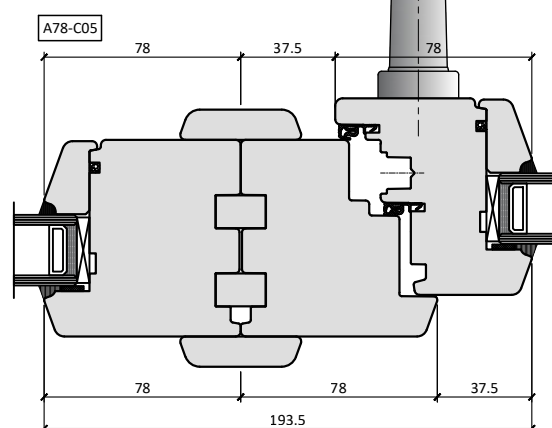
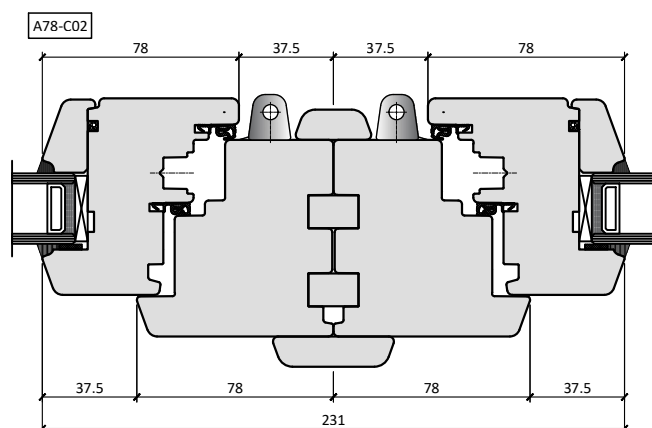
SOLID SASH BARS



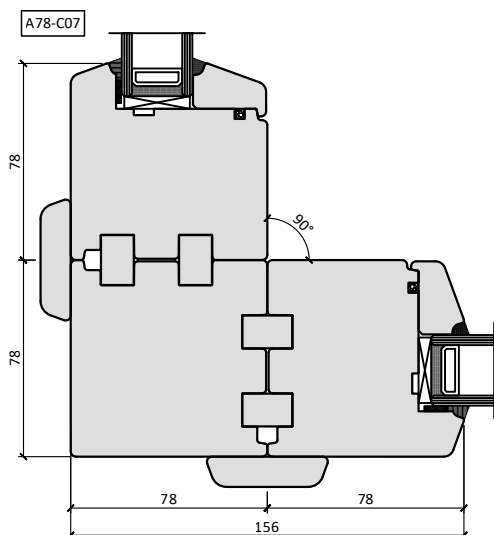
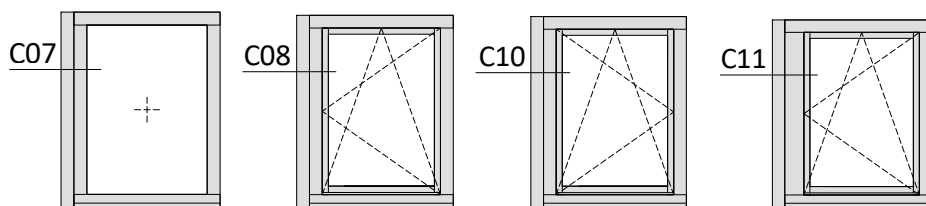




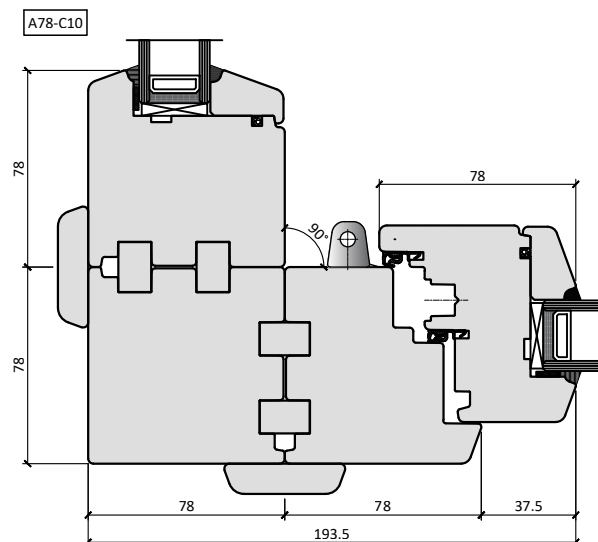
one of the glass units is supplied not sealed with silicone and temporary fixed with glazing bead for easier frame fixing on site



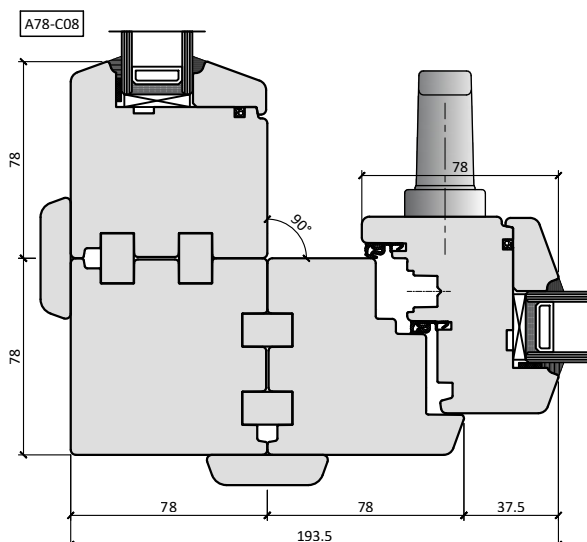
Scale 1:3



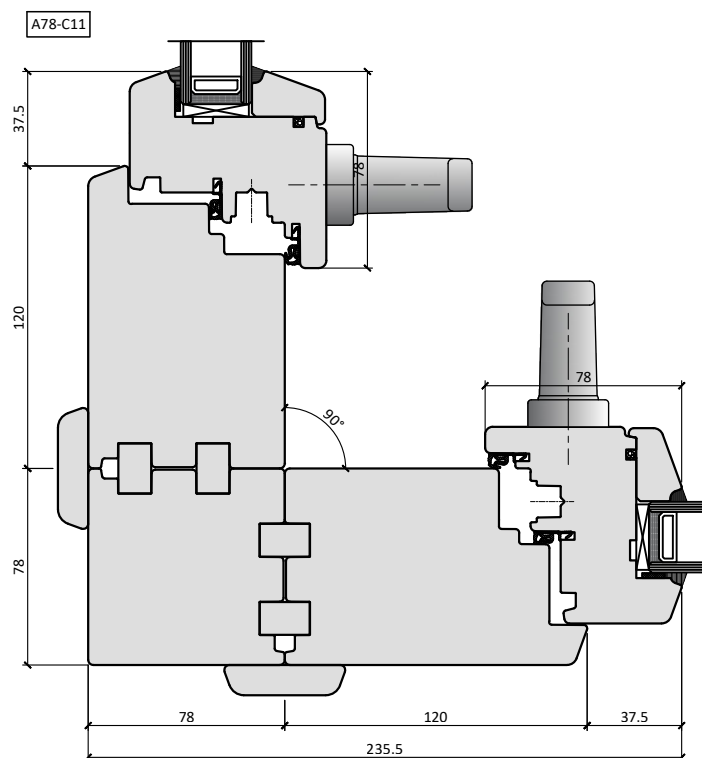
one of the frames is supplied with corner post fitted in the factory,
opposite frame is supplied with glass unit *not sealed with silicone and*
temporary fixed with glazing bead for easier frame fixing on site



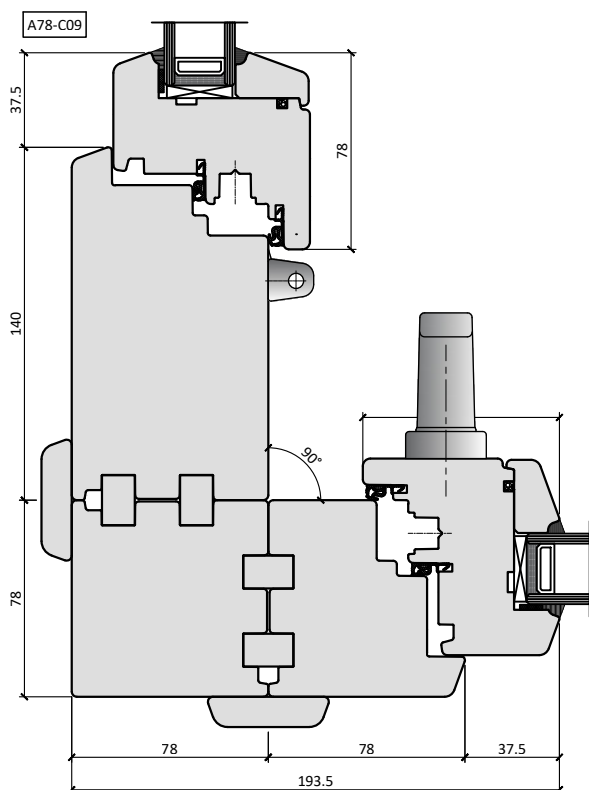
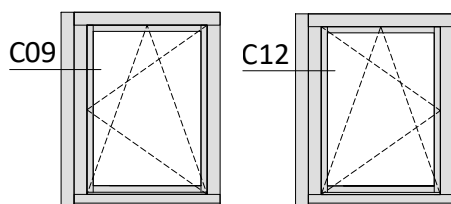
fixed window frame is supplied with corner post fitted in the factory;



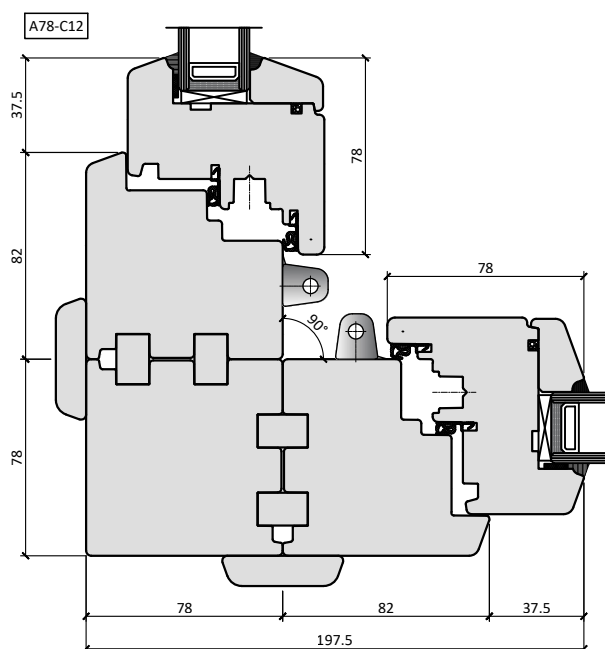
fixed window frame is supplied with corner post fitted in the factory



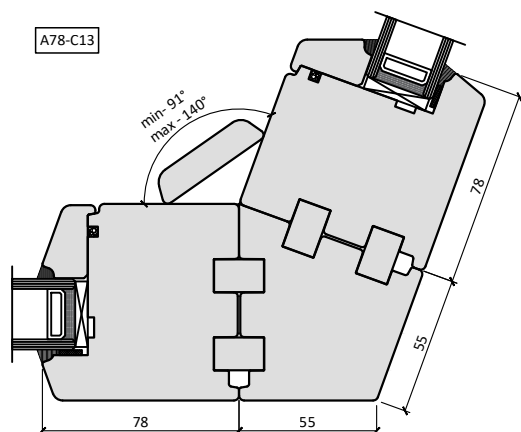
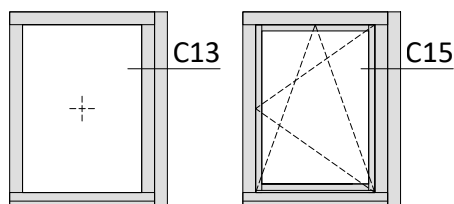
one of the frames is supplied with corner post fitted in the factory;
only one sash can be used in the tilt position at the same time



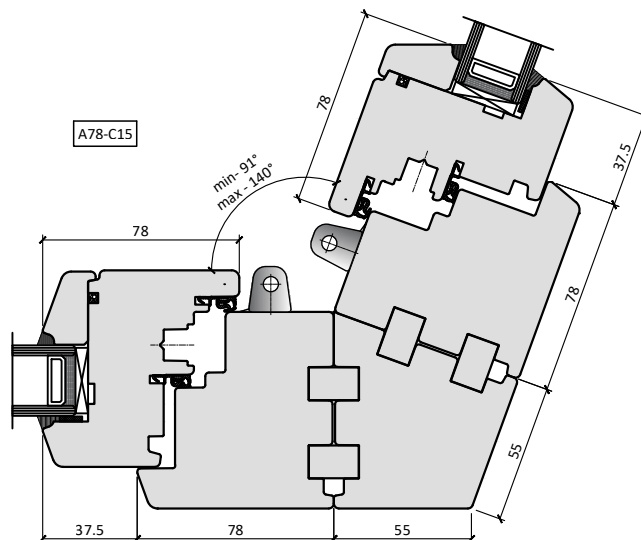
corner post fitted to 140mm wide window frame in the factory;
only one sash can be used in the tilt position at the same time



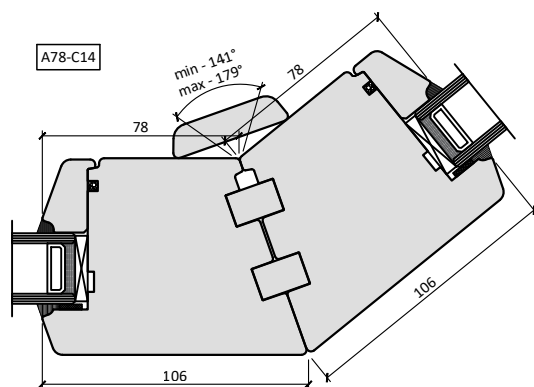
one of the frames is supplied with corner post fitted in the factory;
only one sash can be used in the tilt position at the same time



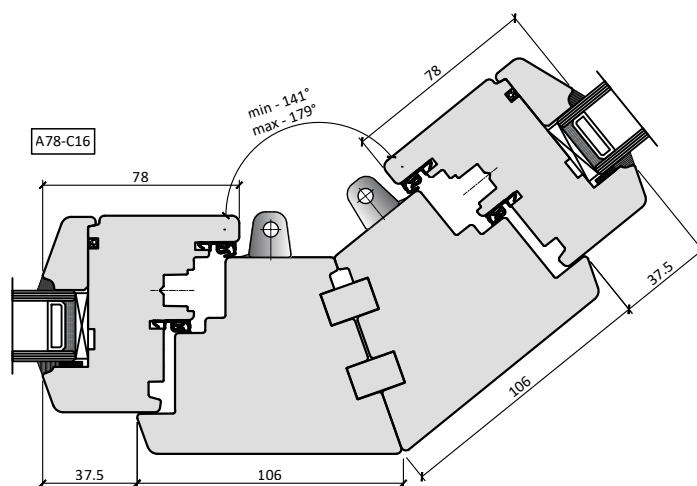
one of the frames is supplied with corner post fitted in the factory, opposite frame is supplied with glass unit *not sealed with silicone* and temporary fixed with glazing bead for easier frame fixing on site



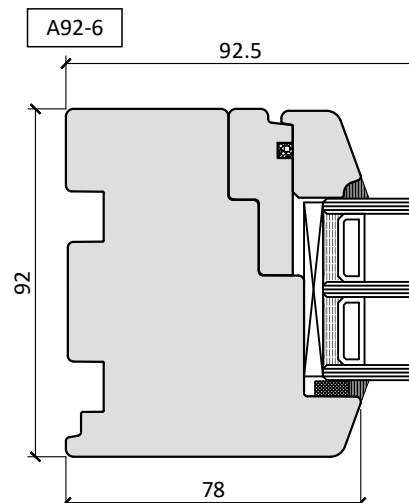
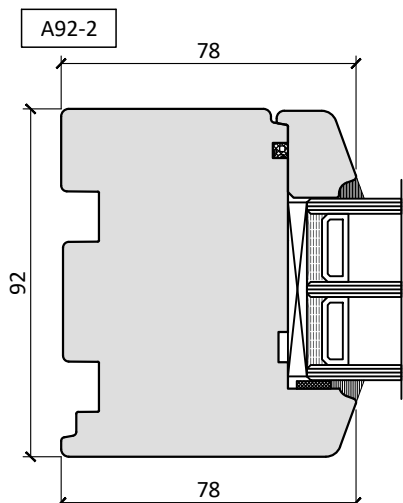
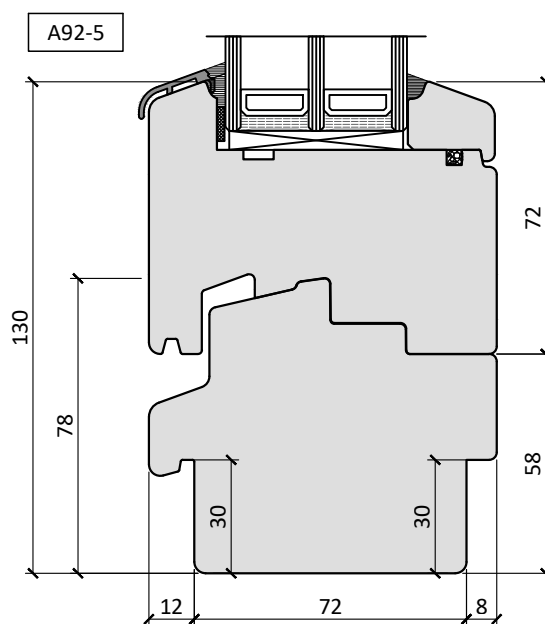
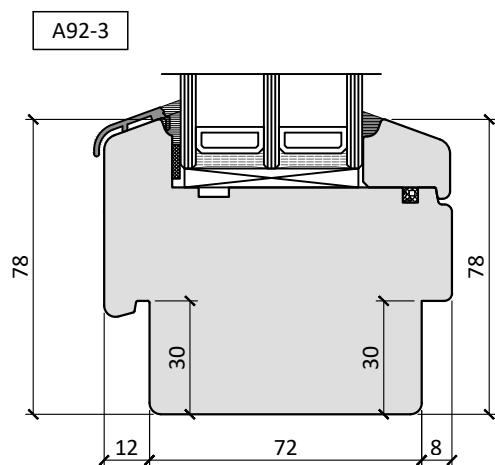
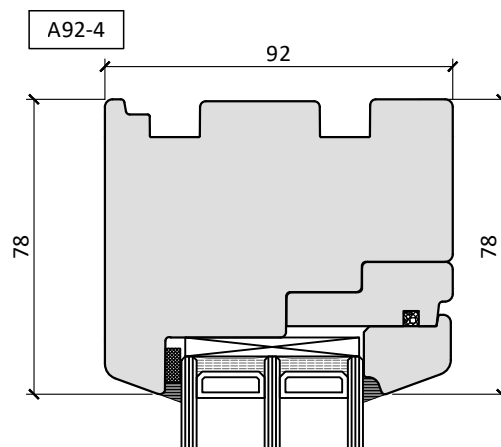
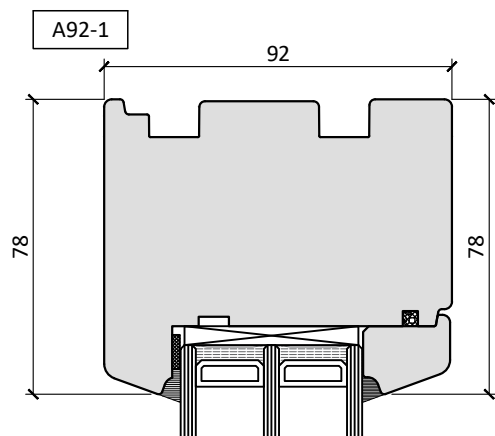
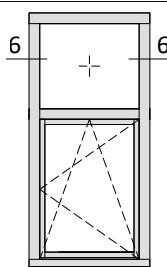
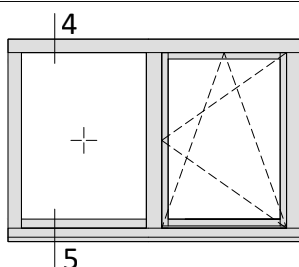
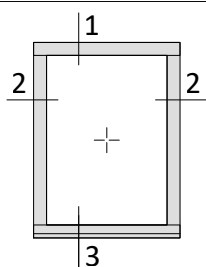
one of the frames is supplied with corner post fitted in the factory, only one sash can be used in the tilt position at the same time

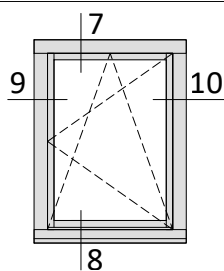


one of the glass units is supplied *not sealed with silicone* and temporary fixed with glazing bead for easier frame fixing on site

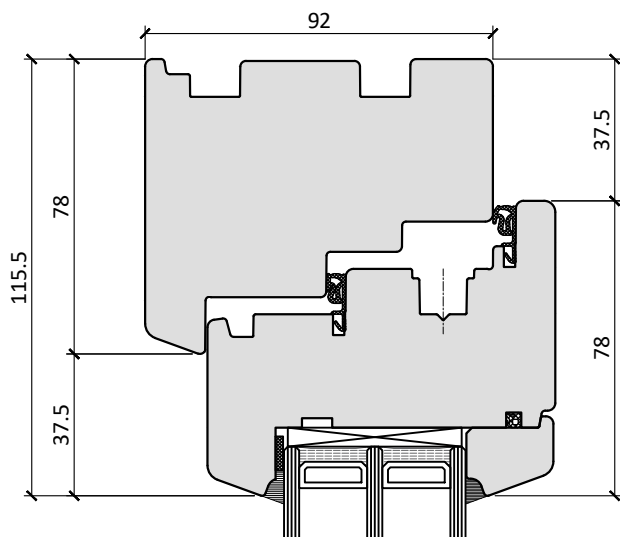


only one sash can be used in the tilt position at the same time

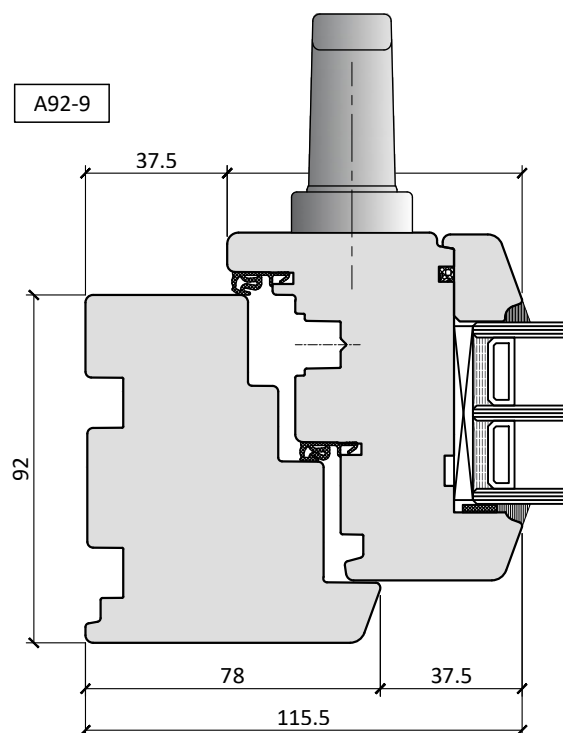




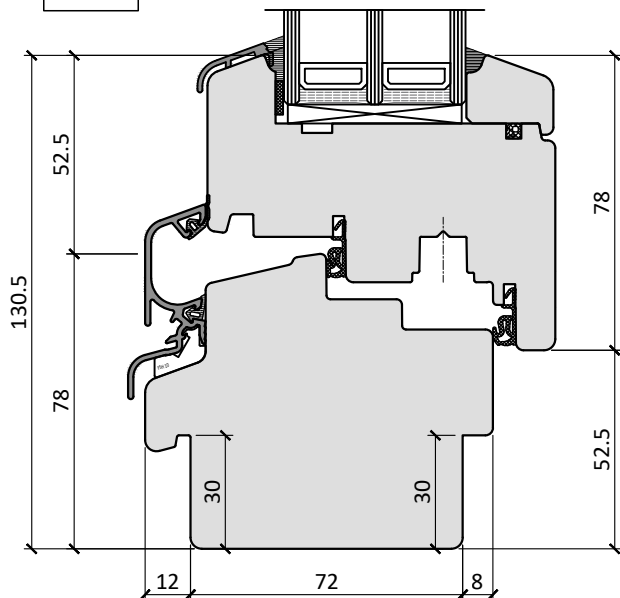
A92-7



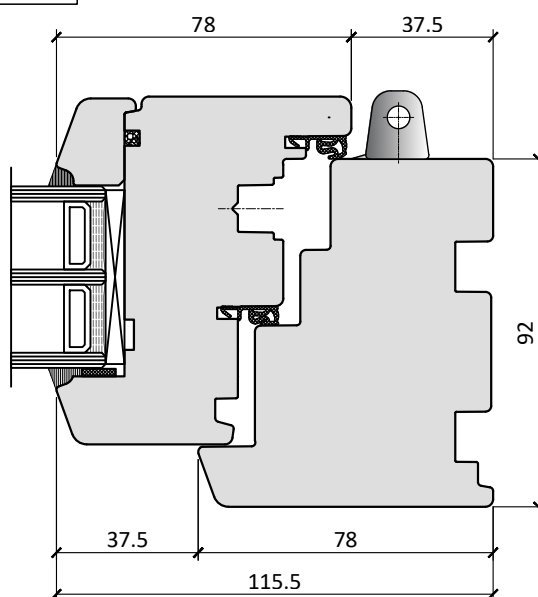
A92-9

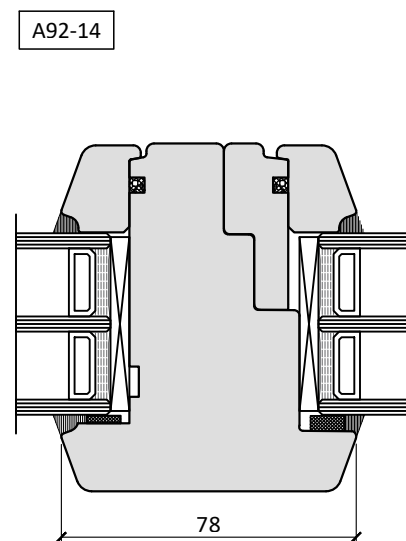
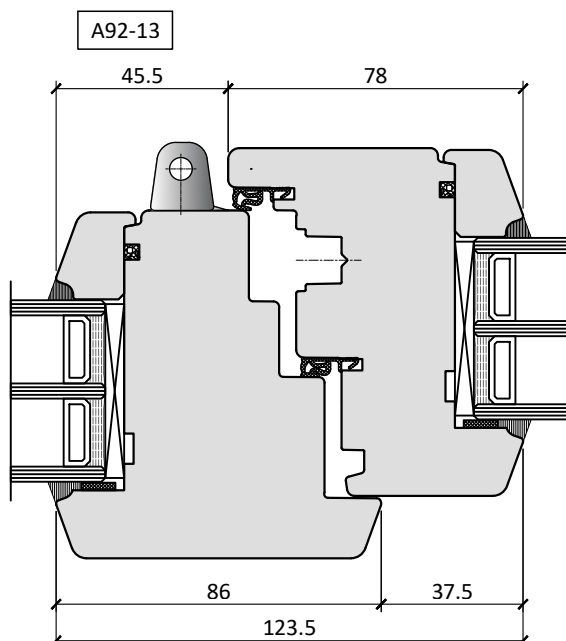
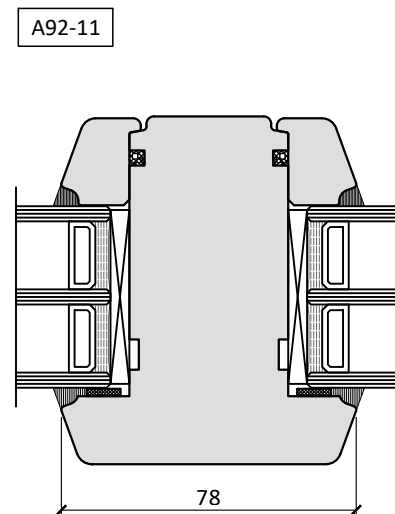
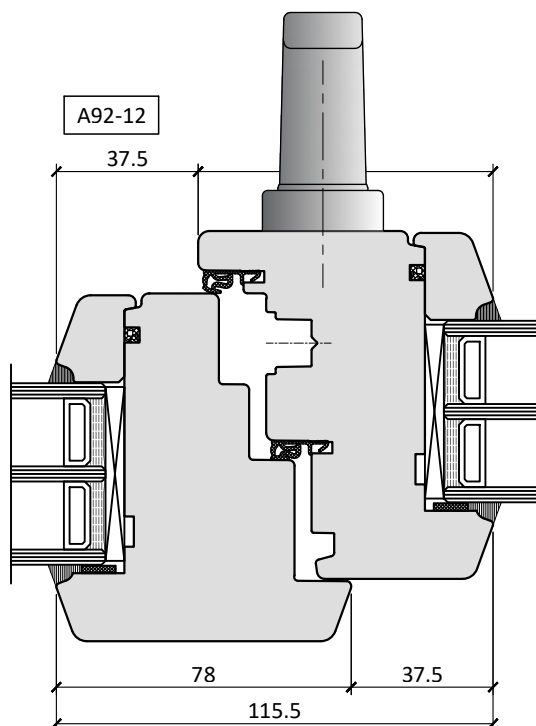
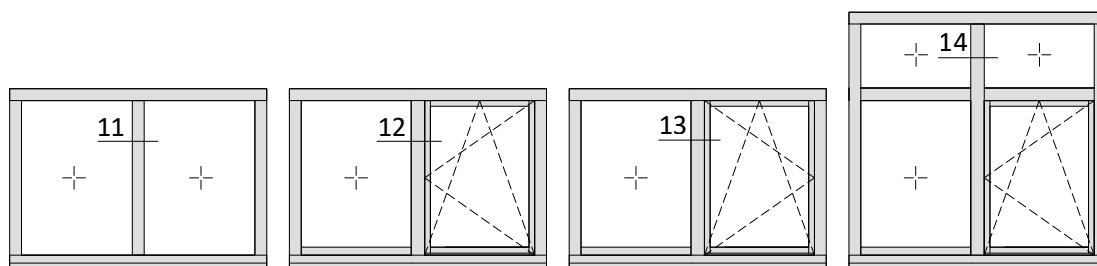


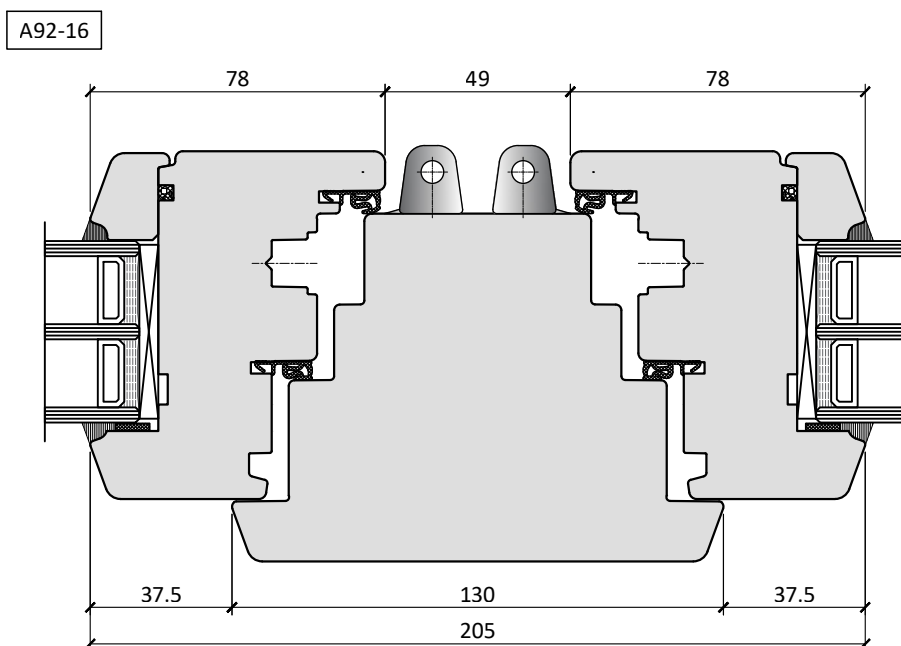
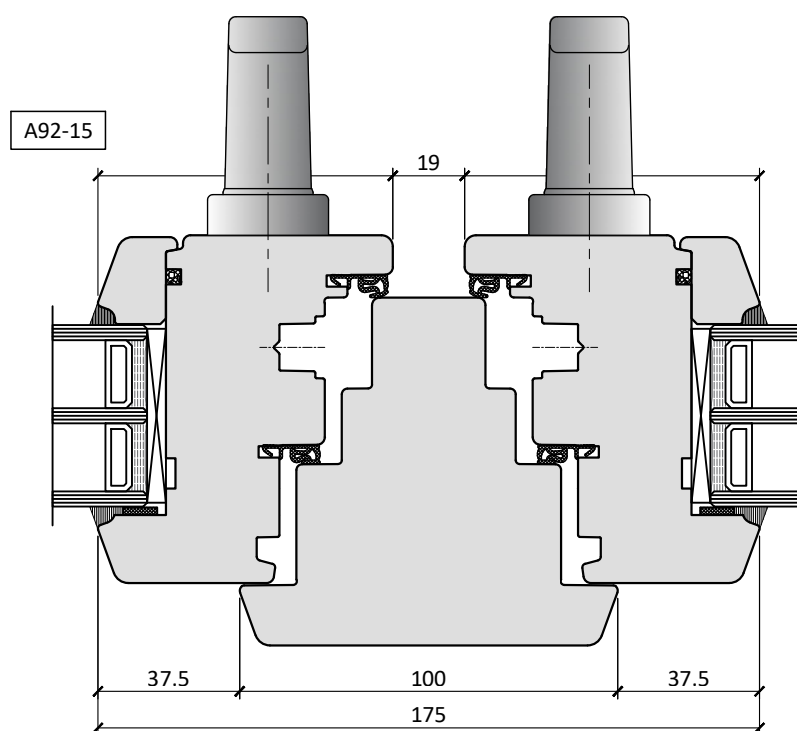
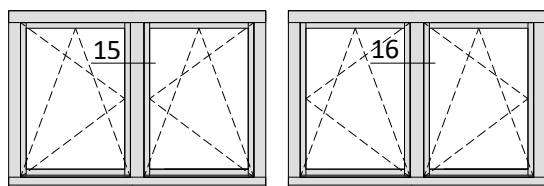
A92-8

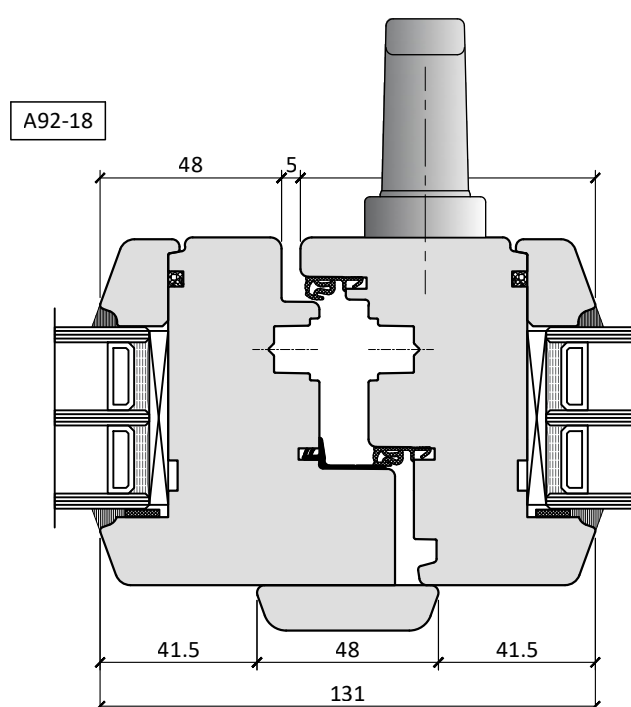
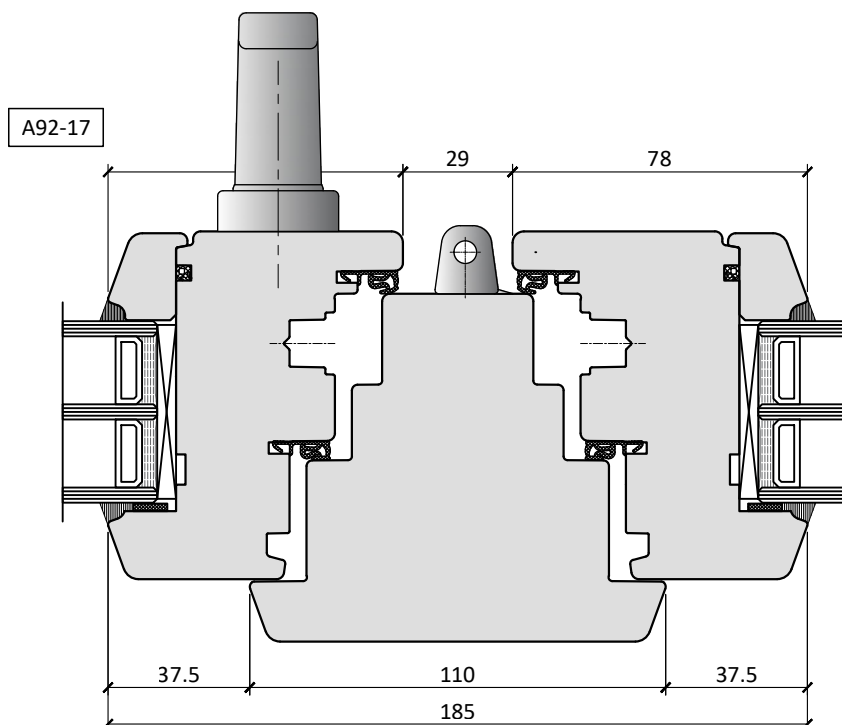
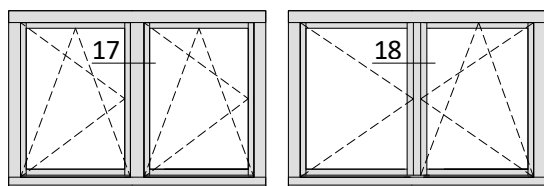


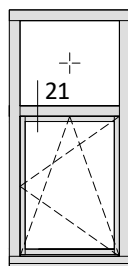
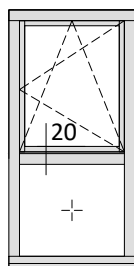
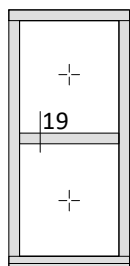
A92-10



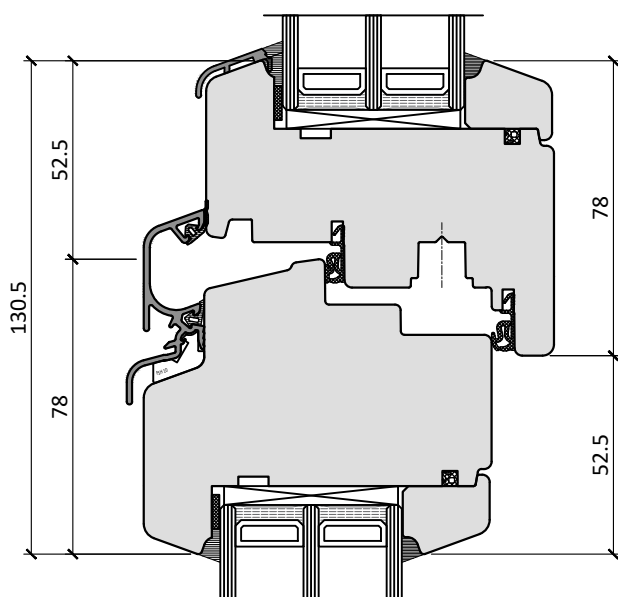




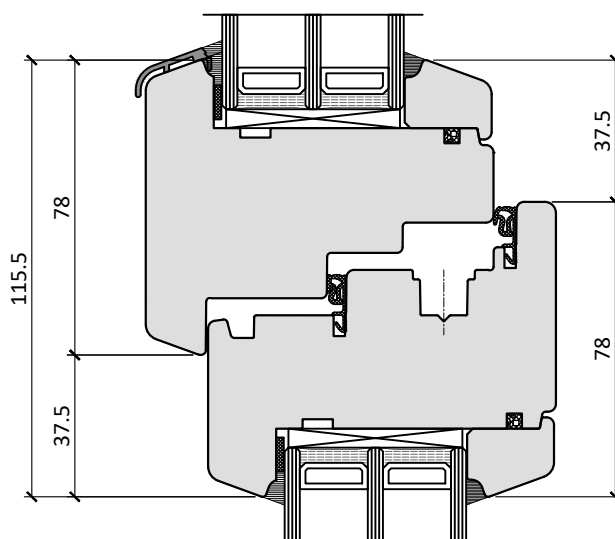




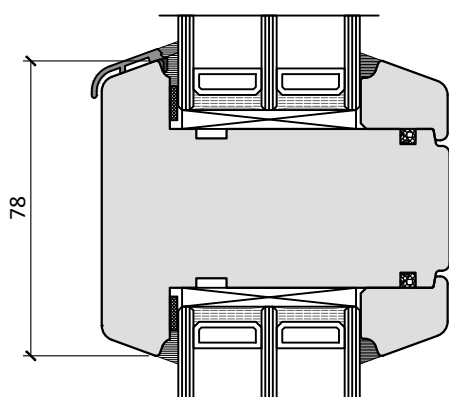
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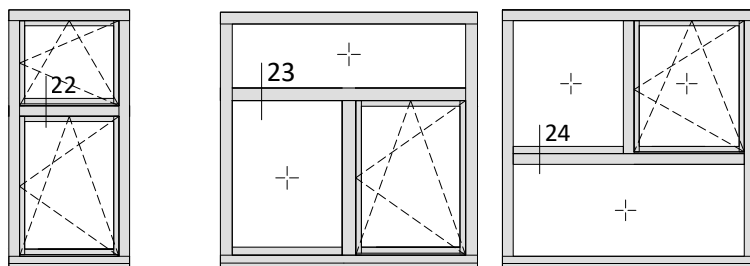


A92-21

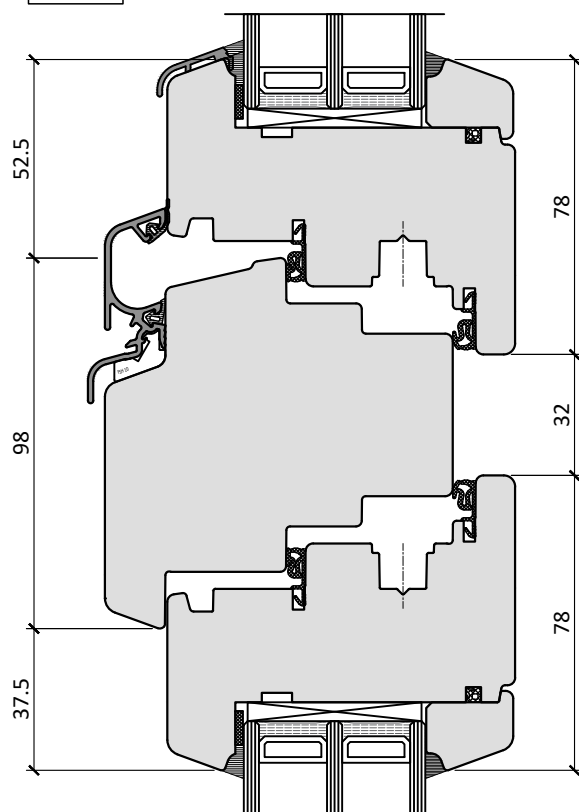


A92-19

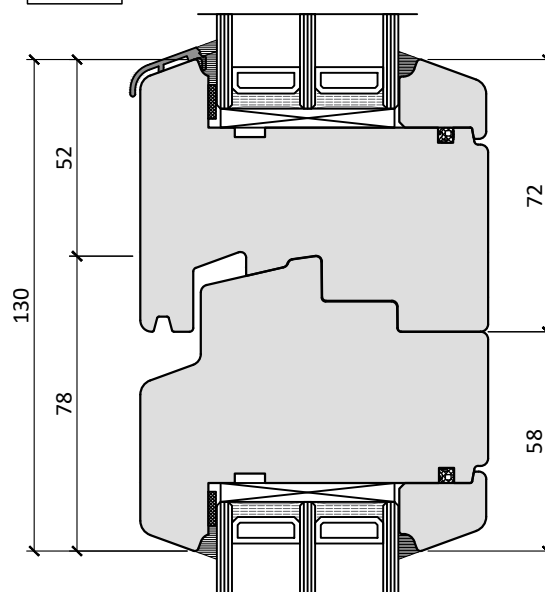




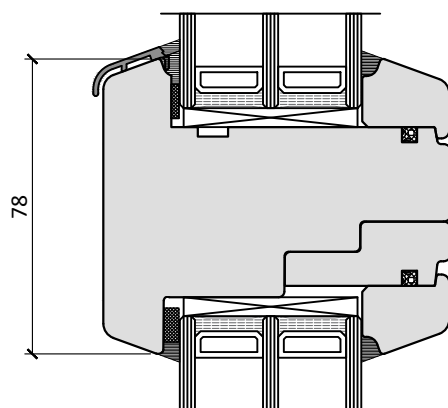
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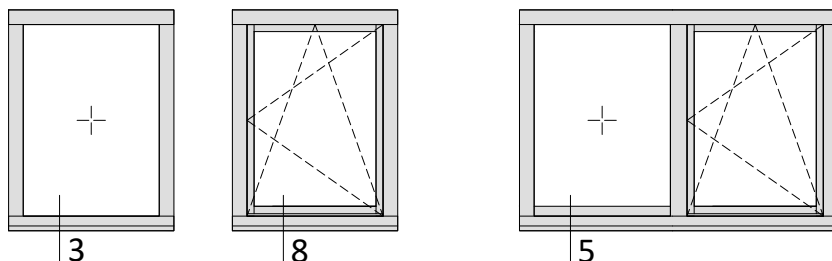
A92-24



A92-23



A92

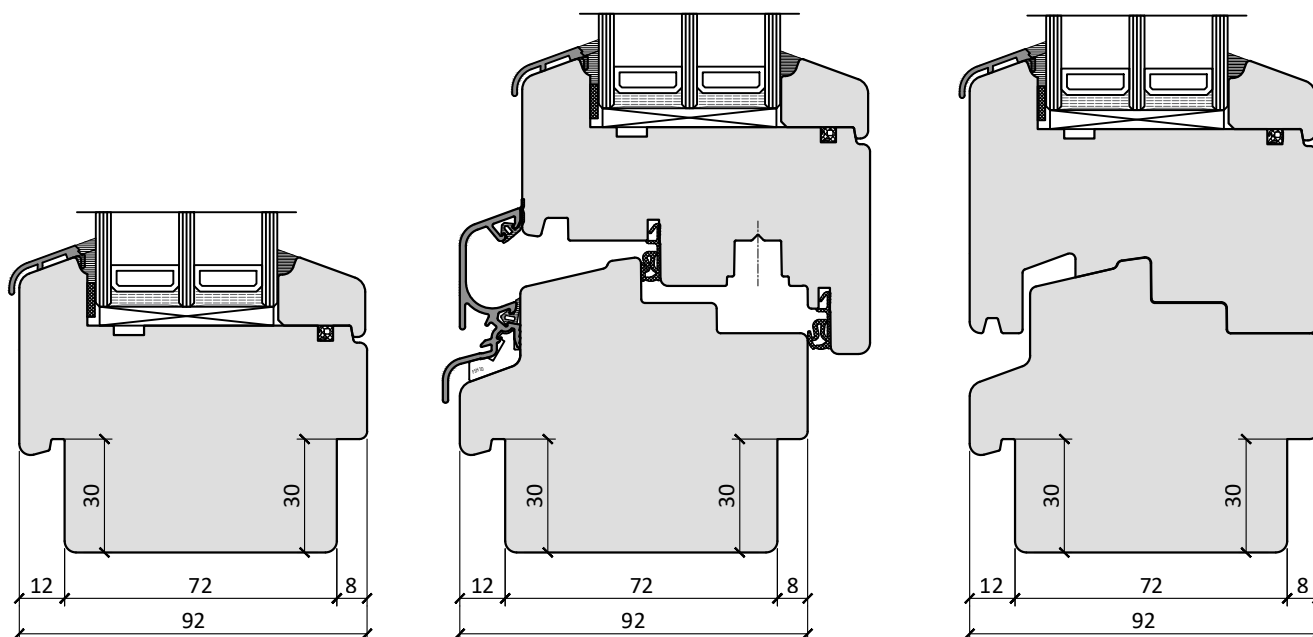


DEFAULT CILL PROFILES

A92-3

A92-8

A92-5

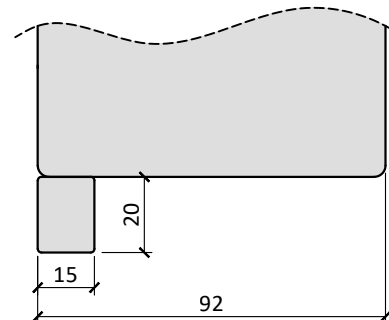
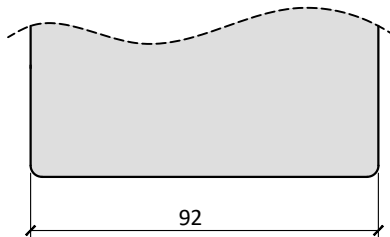
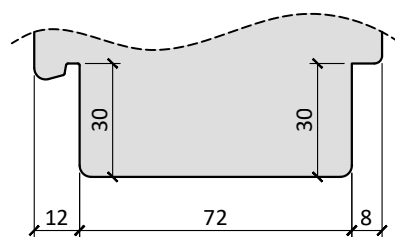


**A92-3/A92-8/A92-5
OPTIONS**

A92-R1 **DEFAULT**

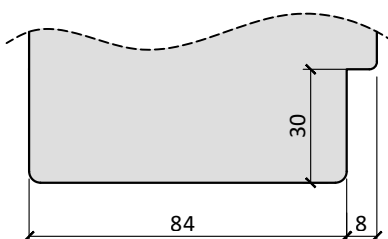
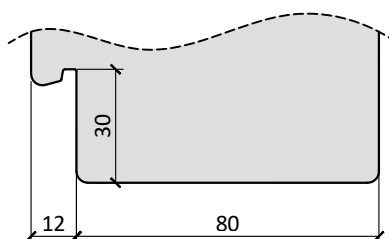
A92-R2

A92-R5

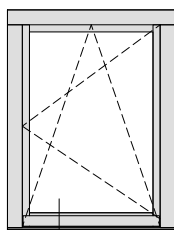


A92-R3

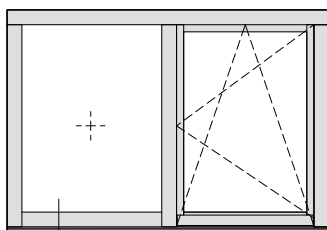
A92-R4



Scale 1:2

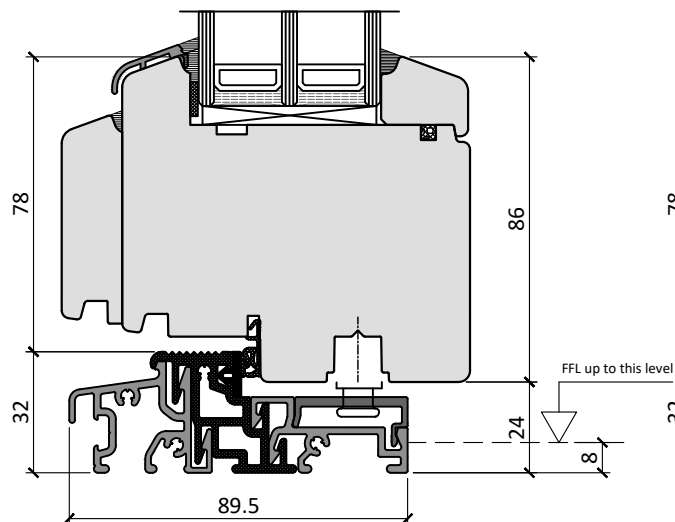


25

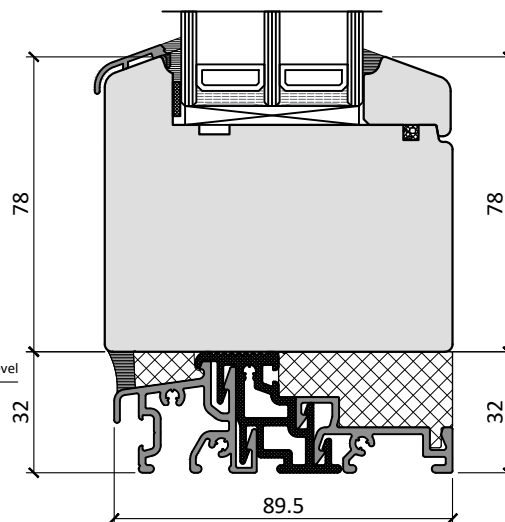


26

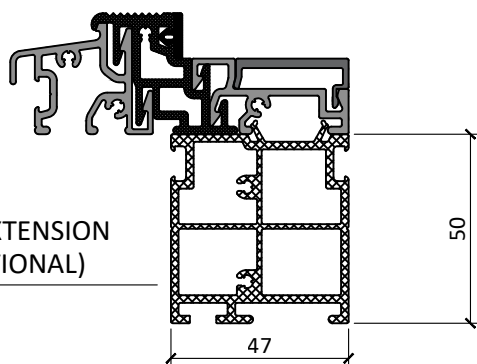
A92-25



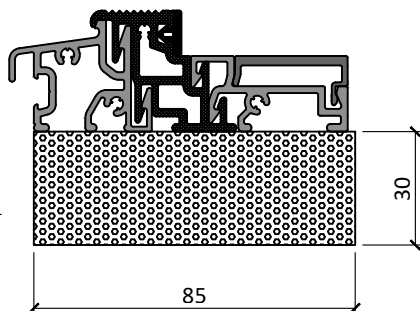
A92-26

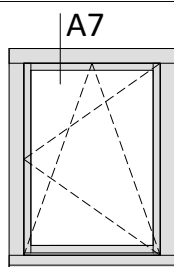


PVC EXTENSION
(OPTIONAL)



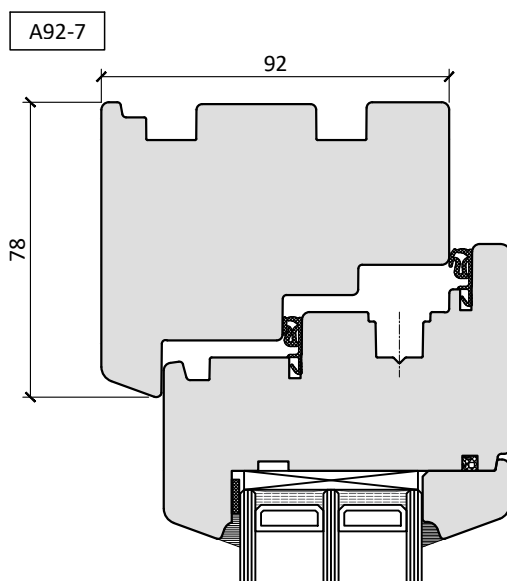
EXPANDED
POLYSTYRENE FOAM
(OPTIONAL)



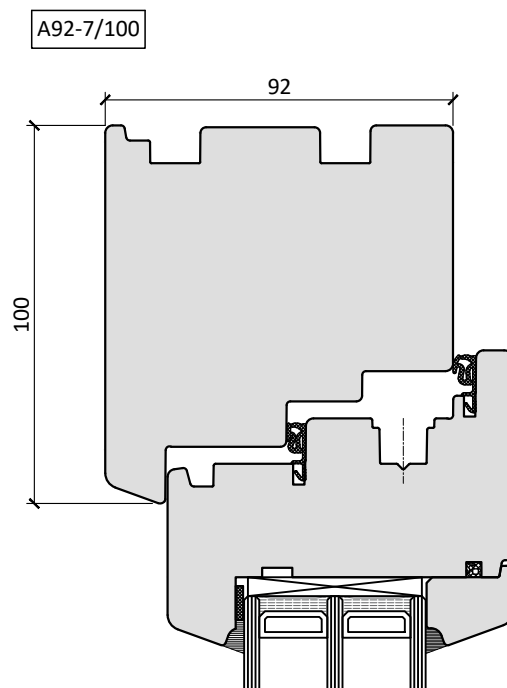
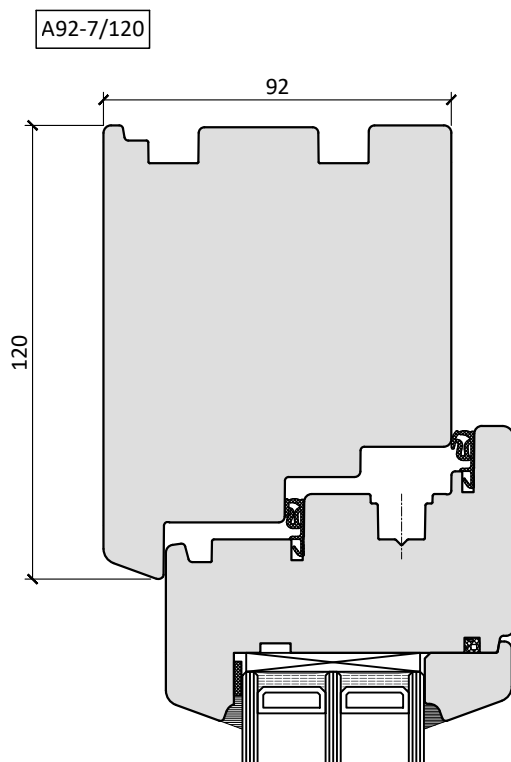


A92

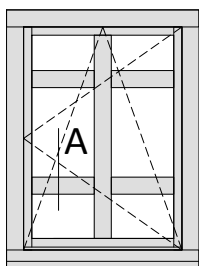
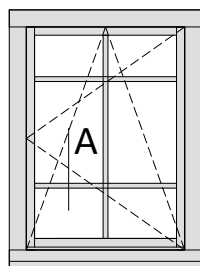
STANDARD FRAME



EXTENDED FRAME OPTIONS

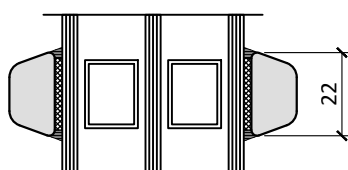


Scale 1:2

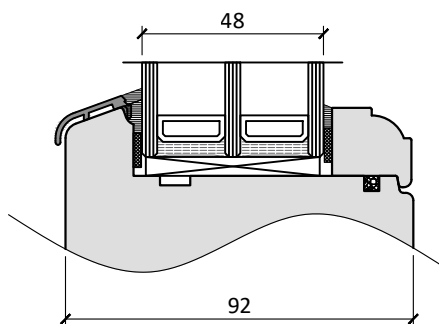
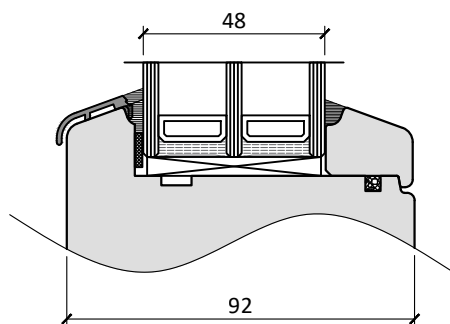
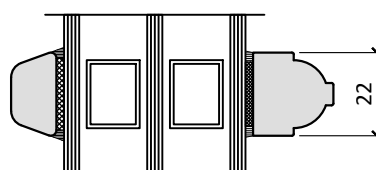


GLAZING BARS & BEADS

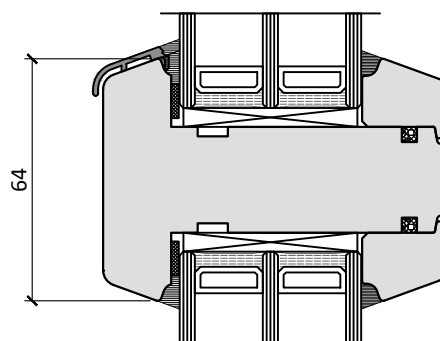
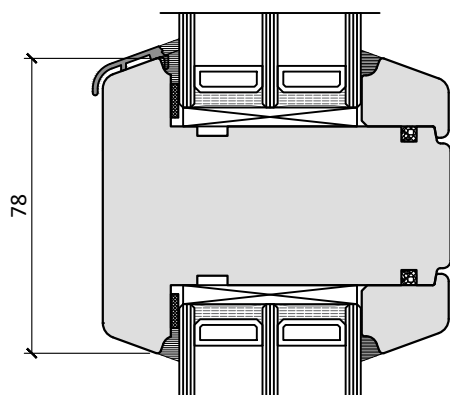
SPLAYED

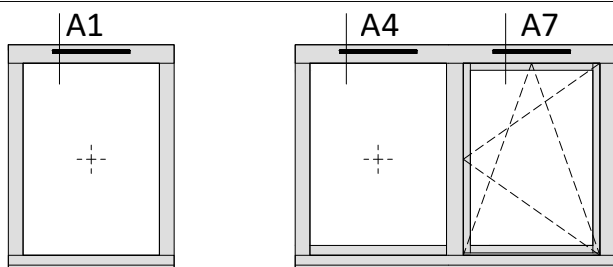


OVOLO

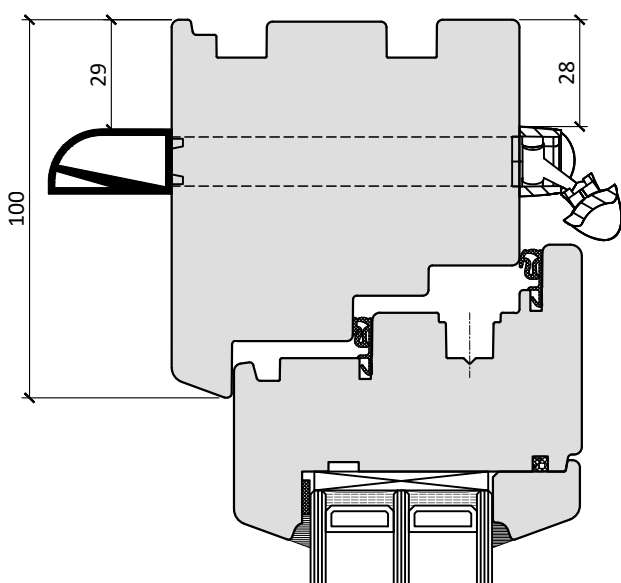


SOLID SASH BARS

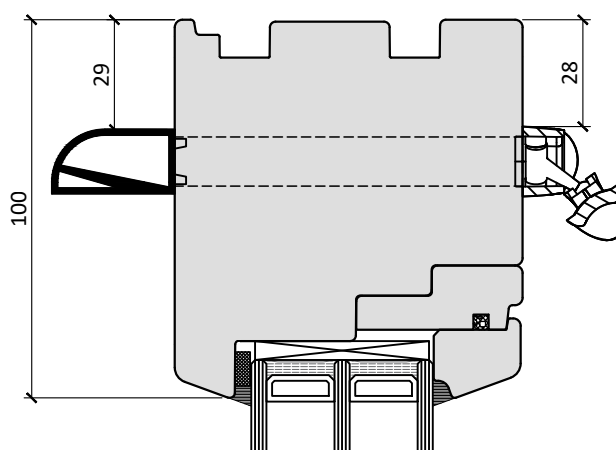




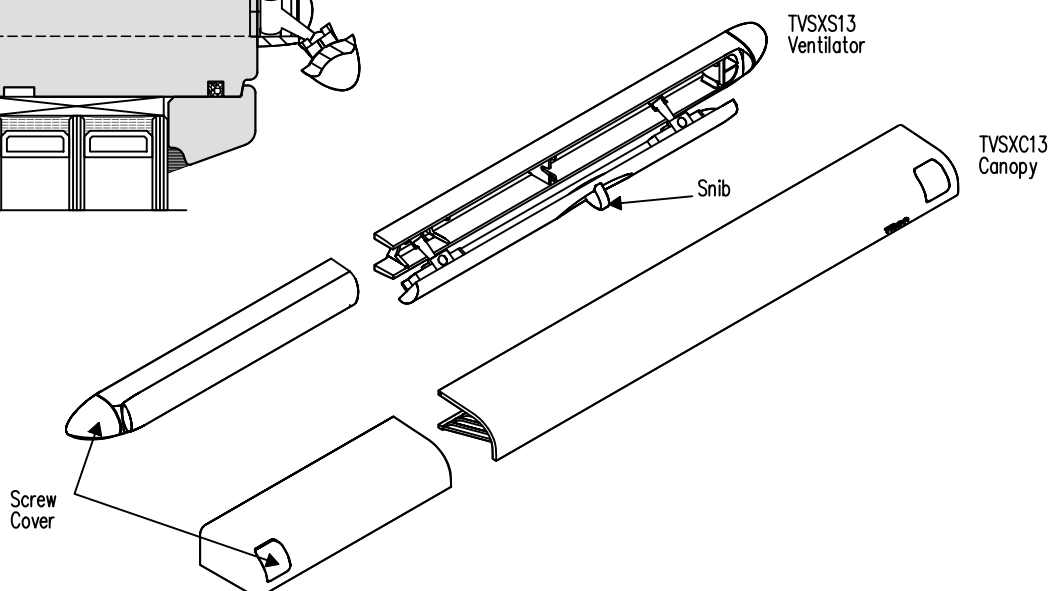
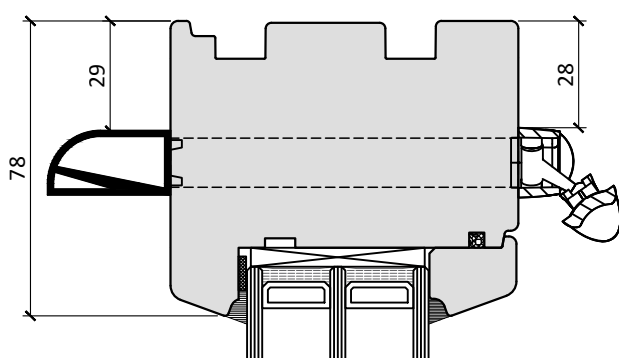
A92-7/100V



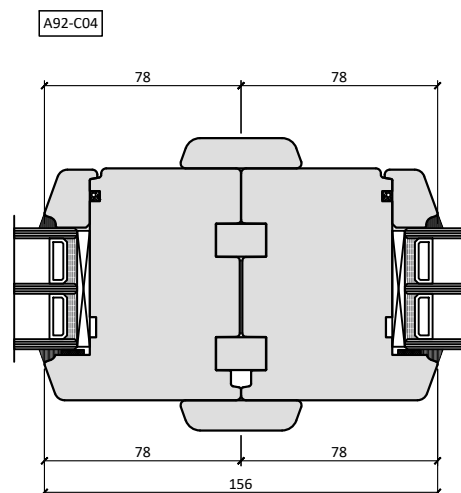
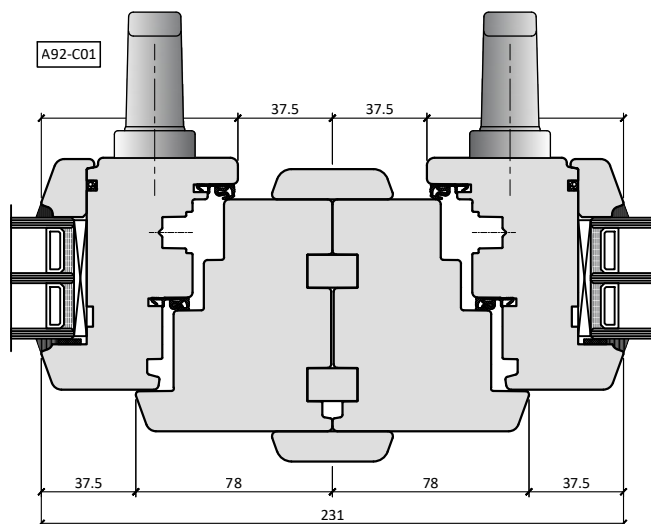
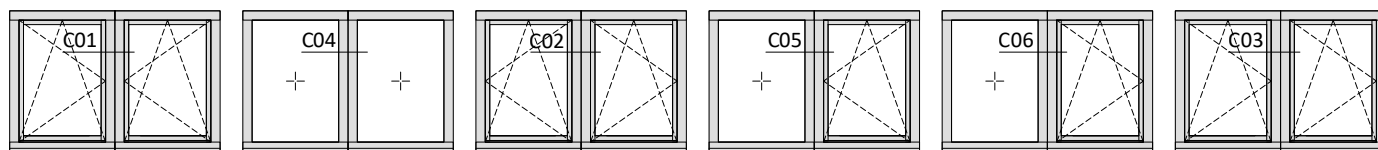
A92-4/100V



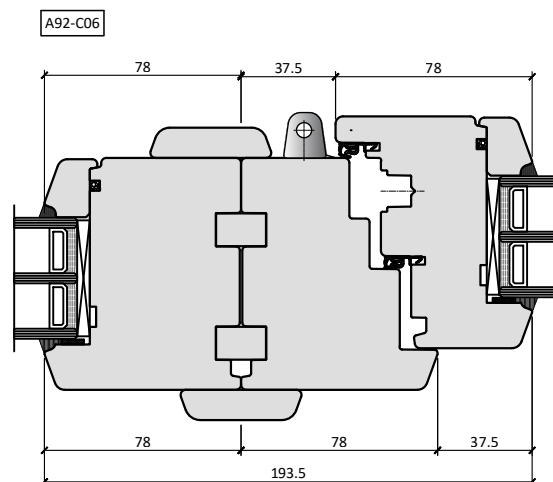
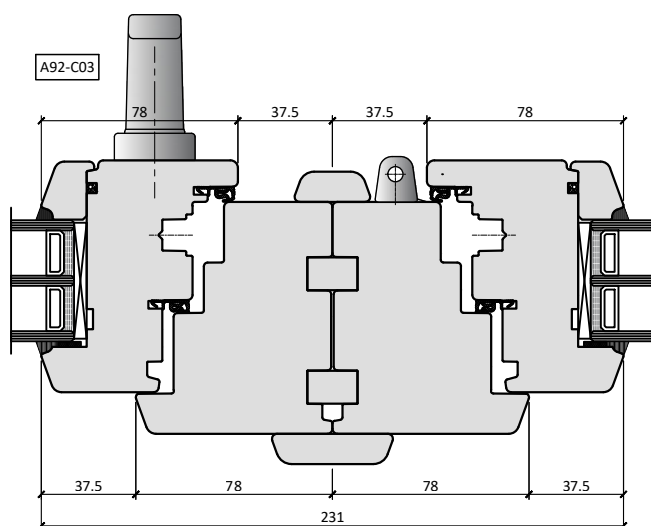
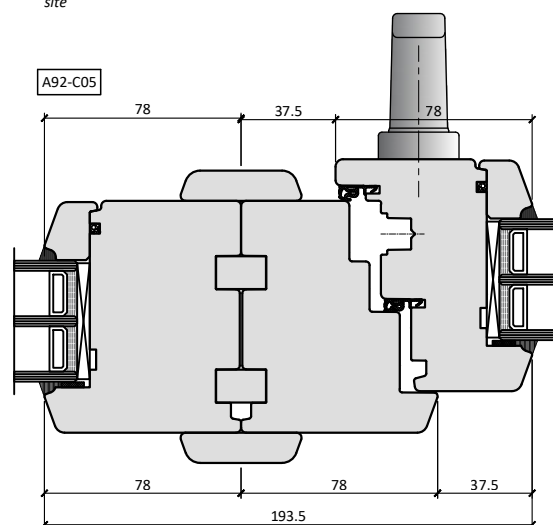
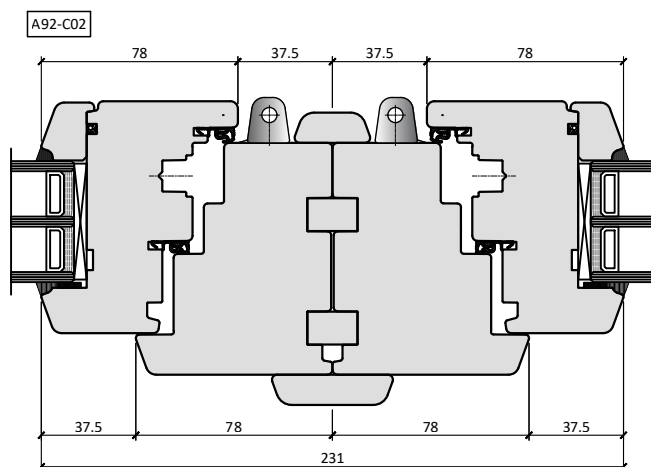
A92-1/78V



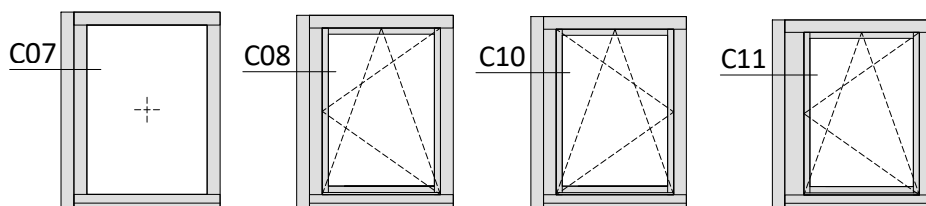
Scale 1:2



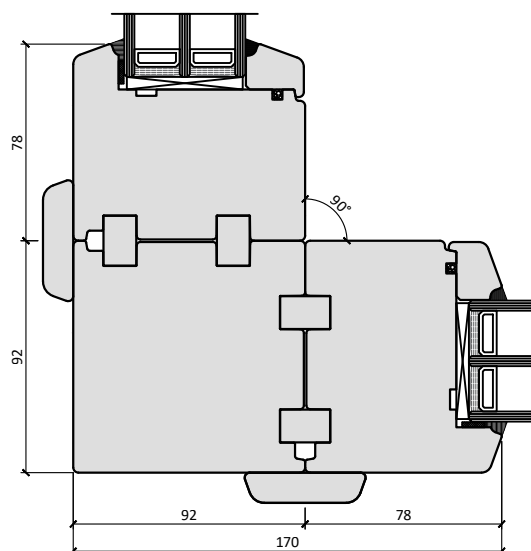
one of the glass units is supplied not sealed with silicone and temporary fixed with glazing bead for easier frame fixing on site



Scale:1:3

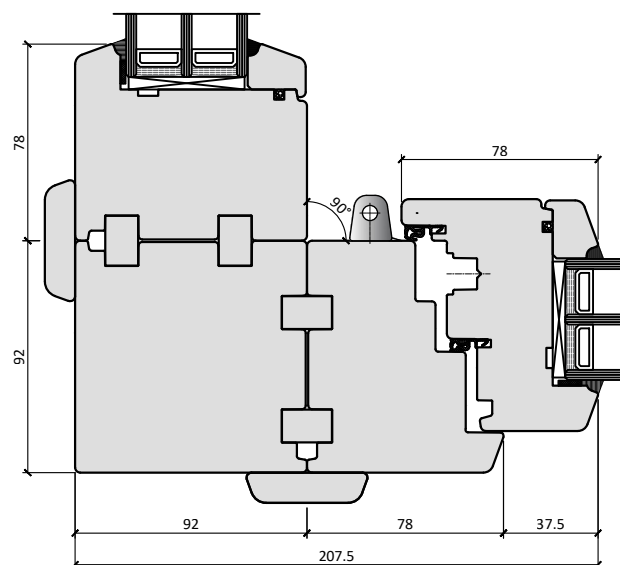


A92-C07



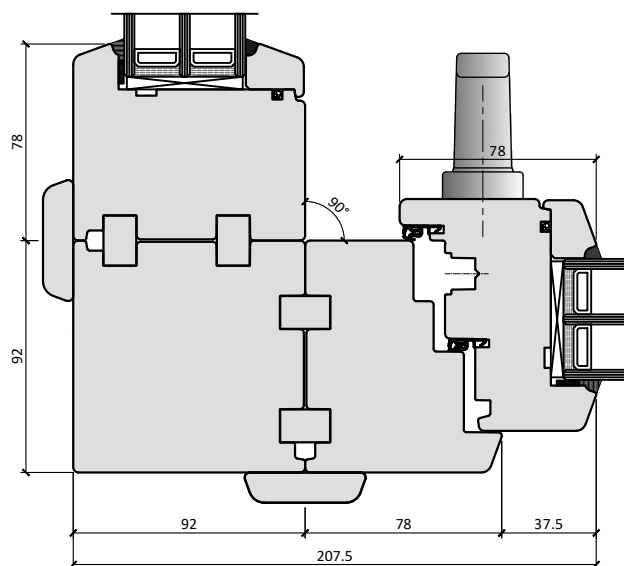
one of the frames is supplied with corner post fitted in the factory,
opposite frame is supplied with glass unit *not sealed with silicone and*
temporary fixed with glazing bead for easier frame fixing on site

A92-C10



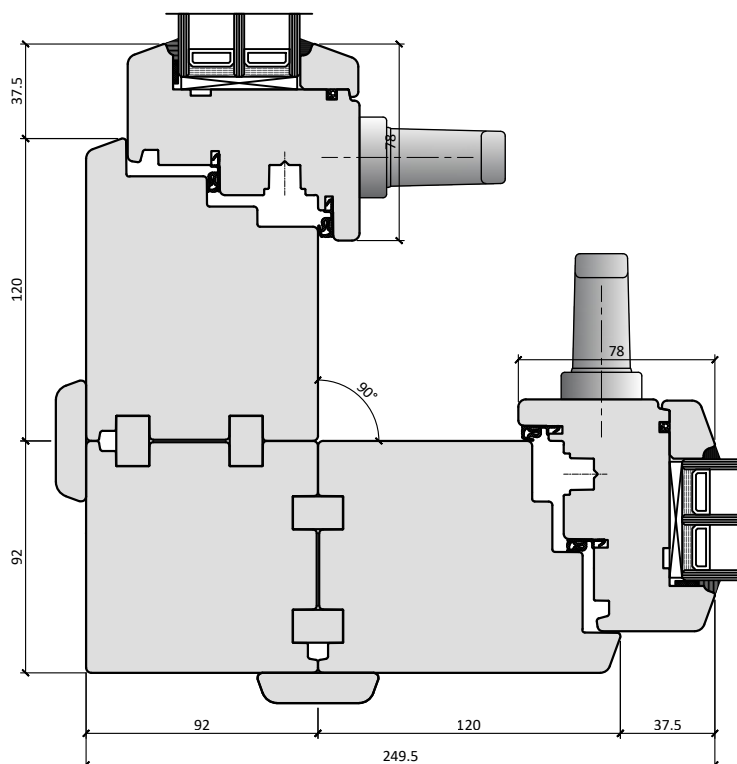
fixed window frame is supplied with corner post fitted in the factory;

A92-C08

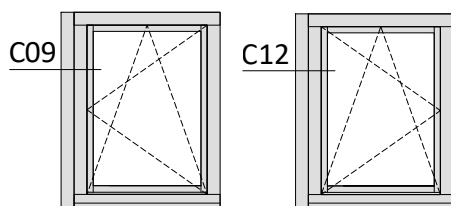


fixed window frame is supplied with corner post fitted in the factory

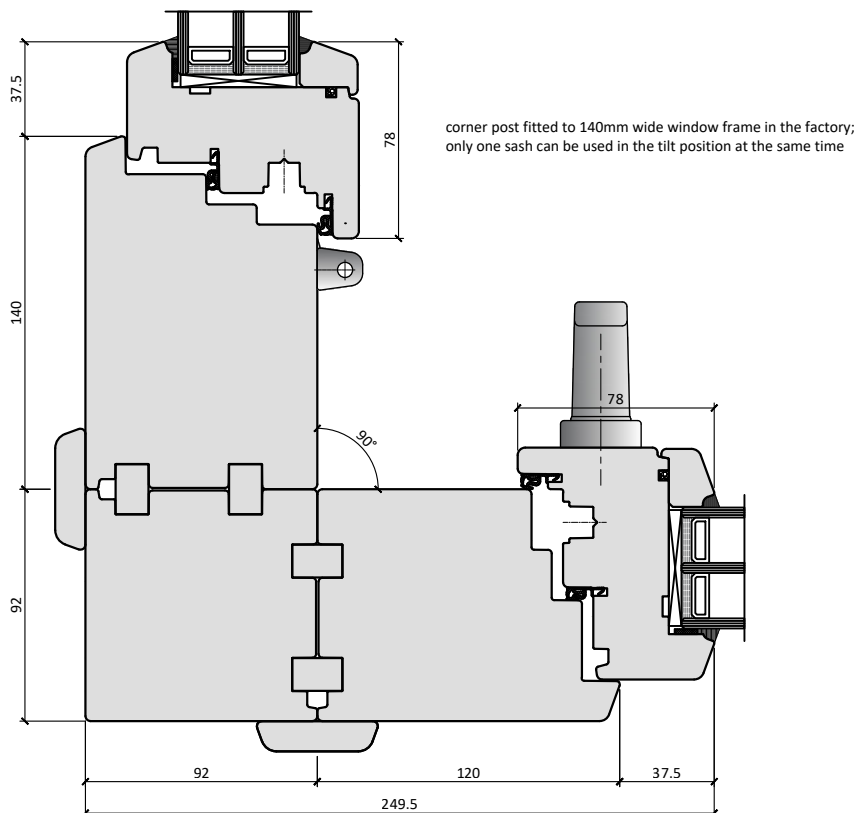
A92-C11



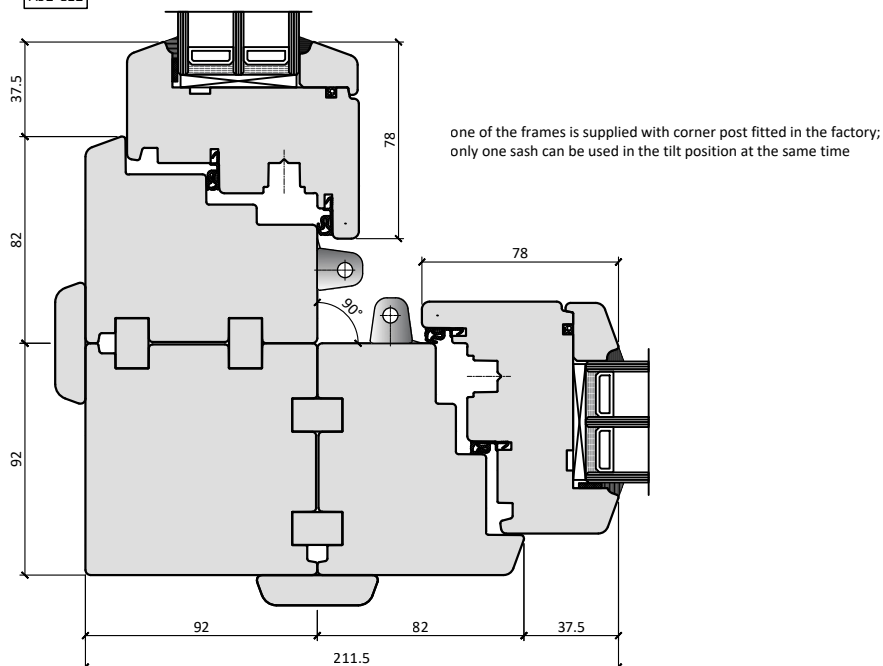
one of the frames is supplied with corner post fitted in the factory;
only one sash can be used in the tilt position at the same time

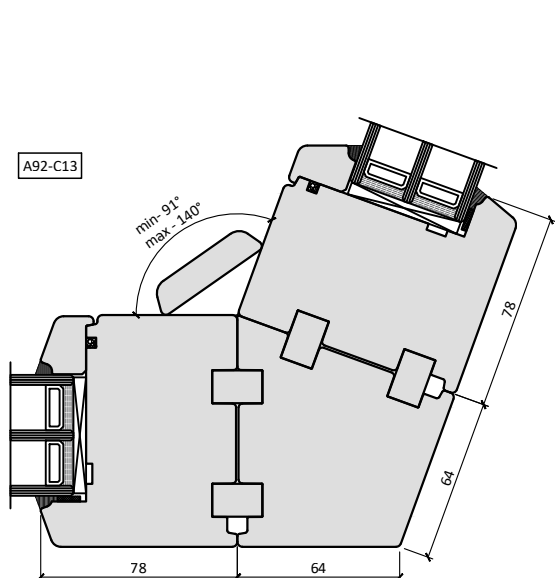
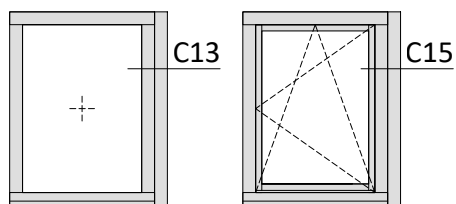


A92-C09

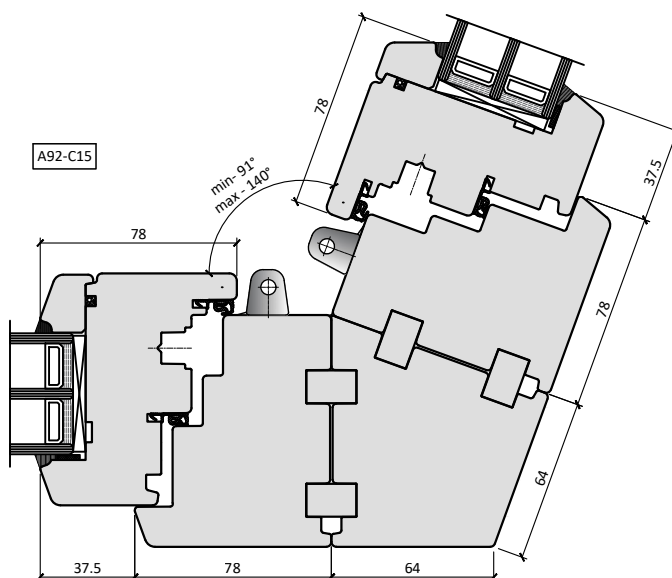


A92-C12

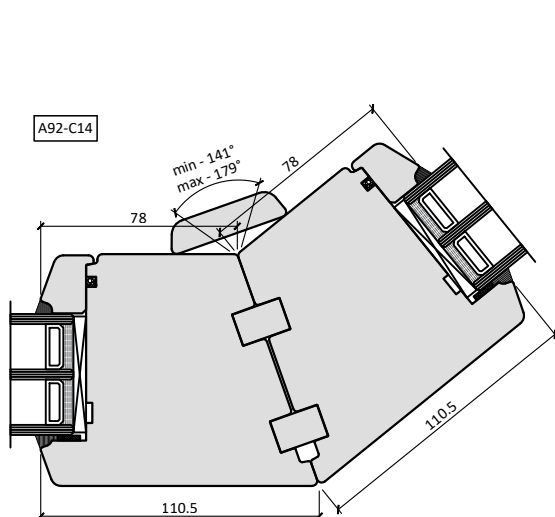




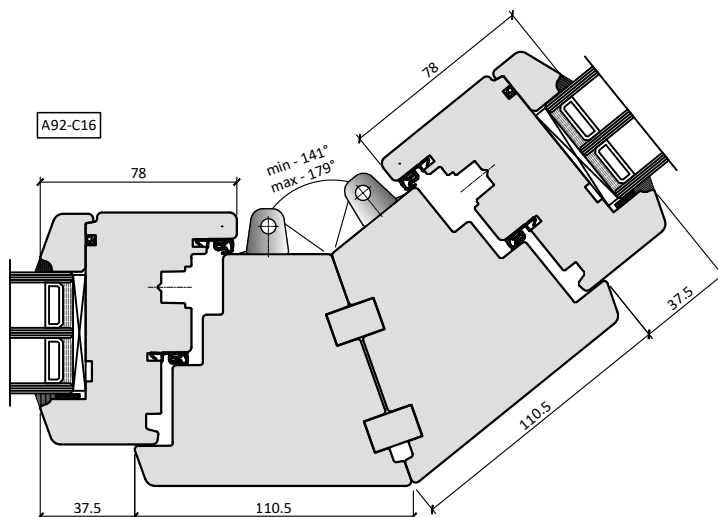
one of the frames is supplied with corner post fitted in the factory, opposite frame is supplied with glass unit *not sealed with silicone* and temporary fixed with glazing bead for easier frame fixing on site



one of the frames is supplied with corner post fitted in the factory; only one sash can be used in the tilt position at the same time



one of the glass units is supplied not sealed with silicone and temporary fixed with glazing bead for easier frame fixing on site



only one sash can be used in the tilt position at the same time