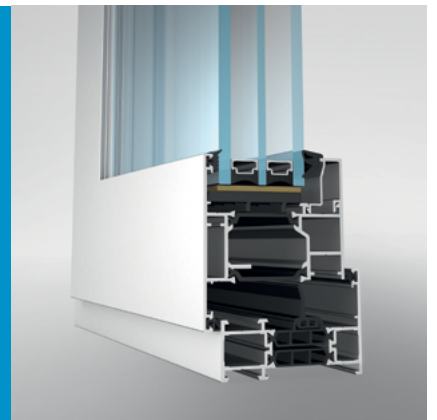




# Profile systems

**ALUTECH ALT W72CW**  
Window system with thermal break







**ALUTECH ALTW72CW**

Window system with  
thermal break

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**ALUTECH ALTW72CW**  
Window system with  
thermal break

## System description

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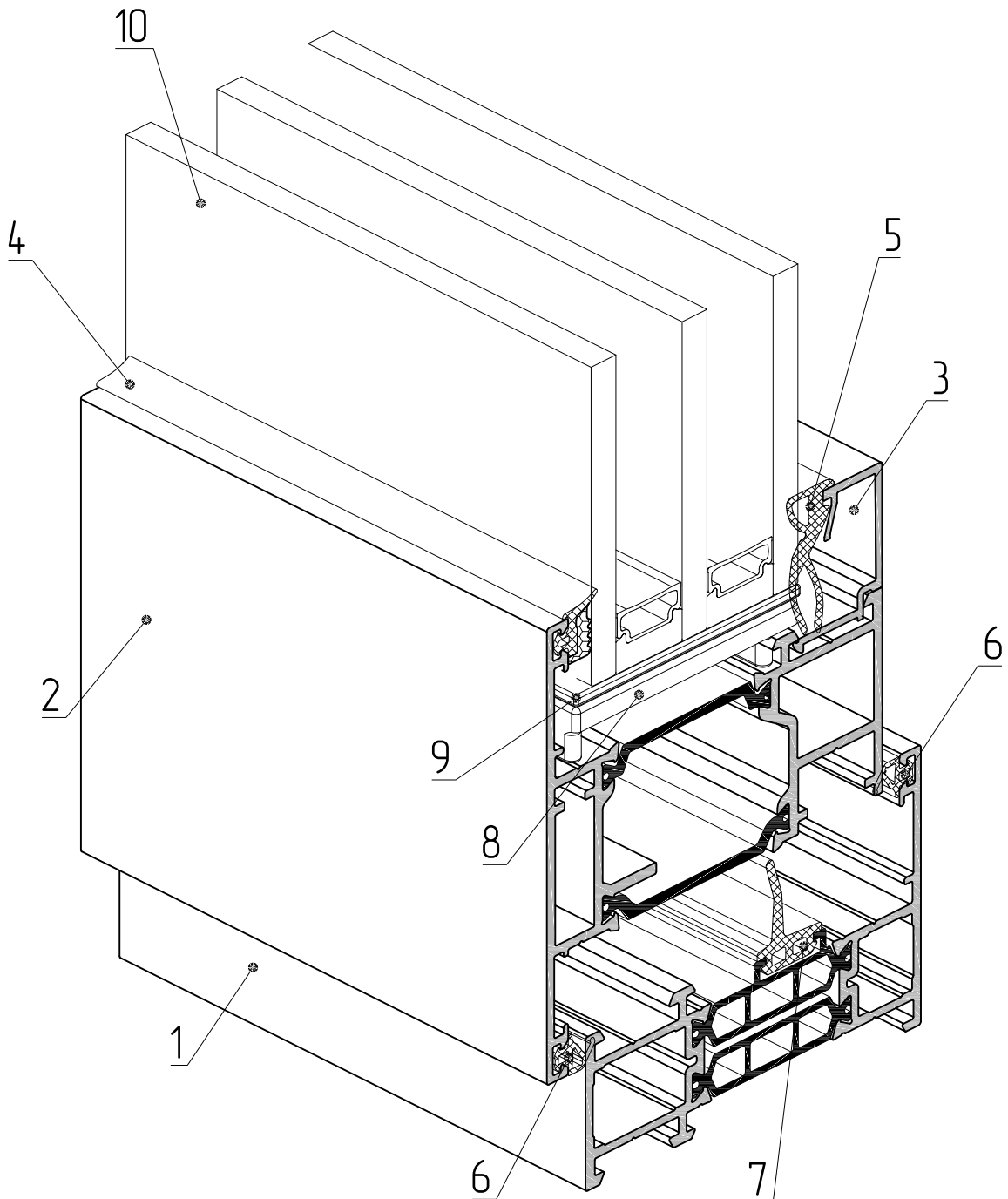
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## Outward opening window chart



- 1 – AYPC.W72.0101E frame profile
- 2 – AYPC.W72.0240NE sash profile
- 3 – AYPC.C48.0603 glass bead profile
- 4 – FRK197 rubber gasket
- 5 – FRK194 rubber gasket
- 6 – FRK198 rubber gasket
- 7 – FRK190 rubber gasket
- 8 – AYPC.W62.0917 bearing support
- 9 – 100x50x3 leveling support
- 10 – 44mm glazing







**ALUTECH ALTW72CW**  
Window system with  
thermal break

## Data for the order

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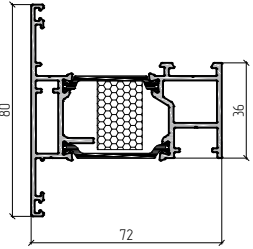
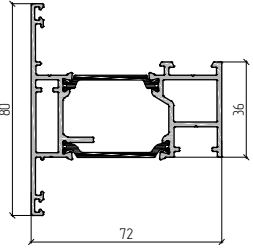
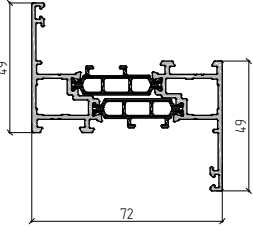
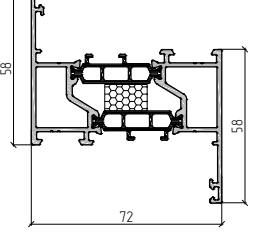
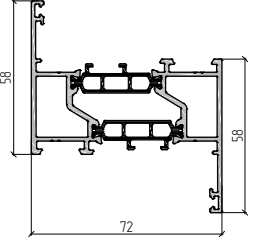
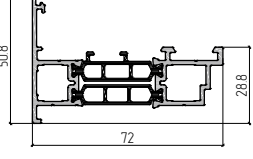
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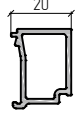
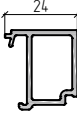

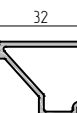
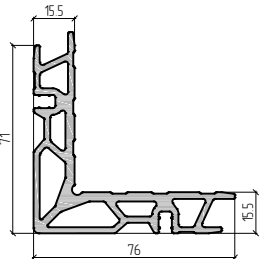
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Article	Name Drawing	Weight, kg/rm	Exterior perimeter, mm	Cross sectional area, mm <sup>2</sup>	Code	Profile colour	Bar length, rm	Packing quantity		Weight of a pack	
								pcs	rm	Net, kg	Gross, kg
AYPC.W72.0240E	Sash profile 	1.74	418.80	699.80	10922321	00	6.5	2	13	22.6	22.9
					10922324	RAL8014				22.6	22.9
					10922330	RAL8017				22.6	22.9
					10922331	RAL9006				22.6	22.9
					109223808	A00-D6				21.8	22.1
AYPC.W72.0240NE	Sash profile 	1.68	418.80	699.80	10922400	00	6.5	2	13	21.8	22.1
					10922421	RAL9016				22.6	22.9
					10922424	RAL8014				22.6	22.9
					10922430	RAL8017				22.6	22.9
					10922431	RAL9006				22.6	22.9
109224808	A00-D6	21.8	22.1								
AYPC.W72.0339E	Transom bar profile 	1.53	438.90	665.20	10922900	00	6.5	2	13	19.8	20
					10922921	RAL9016				20.7	21
					10922924	RAL8014				20.7	21
					10922930	RAL8017				20.7	21
					10922931	RAL9006				20.7	21
109229808	A00-D6	19.8	20								
AYPC.W72.0340E	Transom bar profile 	1.71	456.90	736.00	10923421	RAL9016	6.5	2	13	23.1	23.4
					10923424	RAL8014				23.1	23.4
					10923430	RAL8017				23.1	23.4
					10923431	RAL9006				23.1	23.4
					109234808	A00-D6				22.2	25.5
AYPC.W72.0340NE	Transom bar profile 	1.71	456.90	736.00	10923500	00	6.5	2	13	22.2	22.5
					10923521	RAL9016				23.1	23.4
					10923524	RAL8014				23.1	23.4
					10923530	RAL8017				23.1	23.4
					10923531	RAL9006				23.1	23.4
109235808	A00-D6	22.2	25.5								
AYPC.W72.0820E	Adapter profile 	1.23	339.48	553.30	10938400	00	6.5	2	13	16.0	16.7
					10938421	RAL9016				16.6	17.2
					10938424	RAL8014				16.6	17.2
					10938430	RAL8017				16.6	17.2
					10938431	RAL9006				16.6	17.2
109384808	A00-D6	16.0	16.7								

Article	Name Drawing	Weight, kg/rm	Exterior perimeter, mm	Cross sectional area, mm <sup>2</sup>	Code	Profile colour	Bar length, rm	Packing quantity		Weight of a pack	
								pcs	rm	Net, kg	Gross, kg
AYPC.BF73.0401		2.21	455	870	12700600	00	6.5	2	13	28.7	28.9
					12700621	RAL9016				29.4	29.6
					12700624	RAL8014				29.4	29.6
					12700630	RAL8017				29.4	29.6
					12700631	RAL9006				29.4	29.6
					127006808	A00-D6				28.7	28.9
AYPC.BF73.0402		1.45	291.1	587	12702100	00	6.5	2	13	18.9	19.0
					12702121	RAL9016				19.3	19.5
					12702124	RAL8014				19.3	19.5
					12702130	RAL8017				19.3	19.5
					12702131	RAL9006				19.3	19.5
					127021808	A00-D6				18.9	19.0
AYPC.BF73.0403		2.69	527	1049	12702200	00	6.5	2	13	35.0	35.2
					12702221	RAL9016				35.8	36.0
					12702224	RAL8014				35.8	36.0
					12702230	RAL8017				35.8	36.0
					12702231	RAL9006				35.8	36.0
					127022808	A00-D6				35.0	35.2
AYPC.BF73.0404		3.12	584.8	1204	12702300	00	6.5	2	13	40.6	40.8
					12702321	RAL9016				41.5	41.7
					12702324	RAL8014				41.5	41.7
					12702330	RAL8017				41.5	41.7
					12702331	RAL9006				41.5	41.7
					127023808	A00-D6				40.6	40.8
AYPC.BF73.0405		2.25	455	888	12702700	00	6.5	2	13	29.3	29.5
					12702721	RAL9016				29.9	30.1
					12702724	RAL8014				29.9	30.1
					12702730	RAL8017				29.9	30.1
					12702731	RAL9006				29.9	30.1
					127021808	A00-D6				29.3	29.5

Article	Name Drawing	Weight, kg/rm	Exterior perimeter, mm	Cross sectional area, mm <sup>2</sup>	Code	Profile colour	Bar length, rm	Packing quantity		Weight of a pack	
								pcs	rm	Net, kg	Gross, kg
AYPC.C48.2605	Glass bead profile 	0.38	97	140.10	10407600	00	6.5	12	78	26.9	27.4
					10407621	RAL9016				30.2	30.7
					10407624	RAL8014				30.2	30.7
					10407630	RAL8017				30.2	30.7
					10407631	RAL9006				30.2	30.7
					104076808	A00-D6				26.9	27.4
AYPC.C48.2606	Glass bead profile 	0.403	112	149.10	10407700	00	6.5	12	78	29.4	29.9
					10407721	RAL9016				31.3	31.8
					10407724	RAL8014				31.3	31.8
					10407730	RAL8017				31.3	31.8
					10407731	RAL9006				31.3	31.8
					104077808	A00-D6				29.4	29.9
AYPC.C48.2607	Glass bead profile 	0.428	108	158.60	10407800	00	6.5	18	117	32.5	33.2
					10407821	RAL9016				34.4	35.1
					10407824	RAL8014				34.4	35.1
					10407830	RAL8017				34.4	35.1
					10407831	RAL9006				34.4	35.1
					104078808	A00-D6				32.5	33.2
AYPC.C48.2608	Glass bead profile 	0.458	114	169.70	10407900	00	6.5	18	117	32.6	33.3
					10407921	RAL9016				34.2	34.9
					10407924	RAL8014				34.2	34.9
					10407930	RAL8017				34.2	34.9
					10407931	RAL9006				34.2	34.9
					104079808	A00-D6				32.6	33.3
AYPC.C48.0709	Corner crimping profile 	2.57	365	950.70	10408000	00	6.5	2	13	33.4	34.1





**ALUTECH ALTW72CW**  
Window system with  
thermal break

## Accessories

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

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Image	Code	Article	Weight, kg/rm	Application
	1094.0200	FRK190	0.100	Rubber gasket. Packing quantity – 300 rm
	10825900	FRK198	0.029	Rubber gasket. Packing quantity – 575 rm

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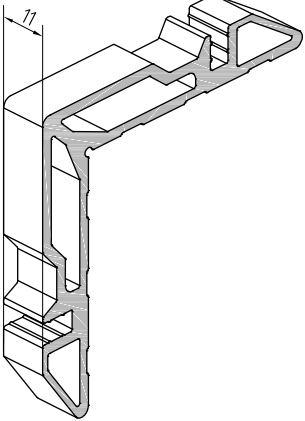
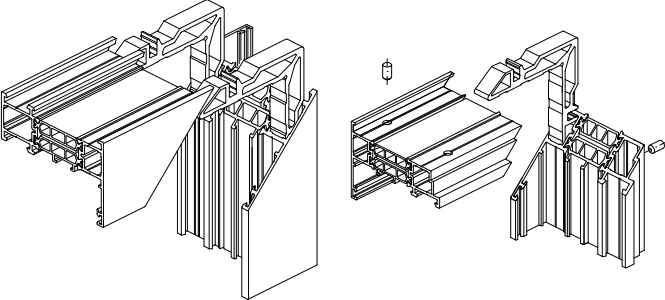
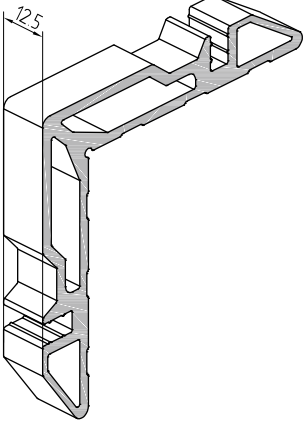
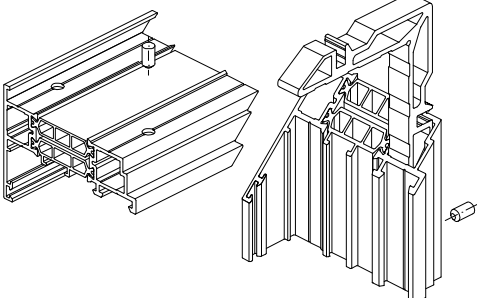
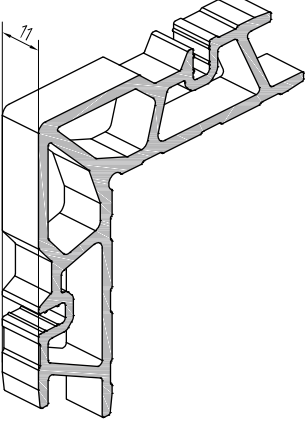
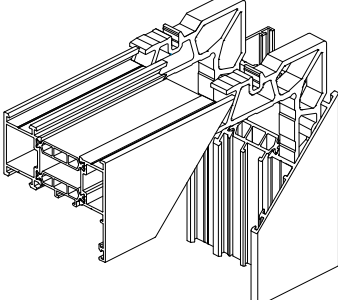
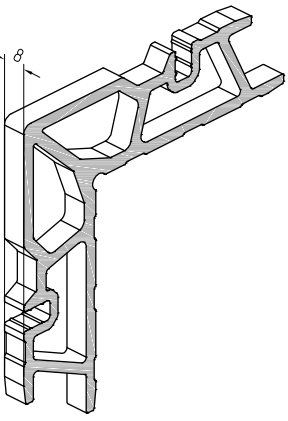
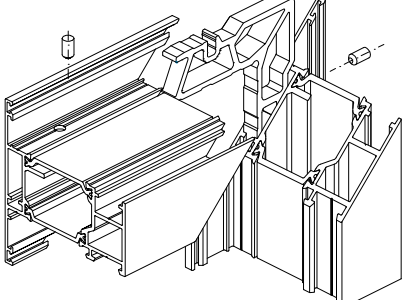
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	10812000	AYPC.W62.0952-01	<p>Clamping corner made from AYPC.C48.0702. Quantity in pack – 200 pcs.</p>  <p>For transom bar / adapter profiles AYPC.W72.0339 / AYPC.W72.0820</p>
	10841500	AYPC.W62.0952-07	<p>Clamping corner made from AYPC.C48.0702. Quantity in pack – 200 pcs.</p>  <p>For adapter profiles AYPC.W72.0820</p>
	10812400	AYPC.W62.0953-01	<p>Clamping corner made from AYPC.W50.0703. Quantity in pack – 200 pcs.</p>  <p>For transom bar profiles AYPC.W72.0340</p>
	10827300	AYPC.W62.0953-05	<p>Clamping corner made from AYPC.C48.0703 profile. Packing quantity – 144 pcs.</p>  <p>For sash profiles AYPC.W72.0240</p>

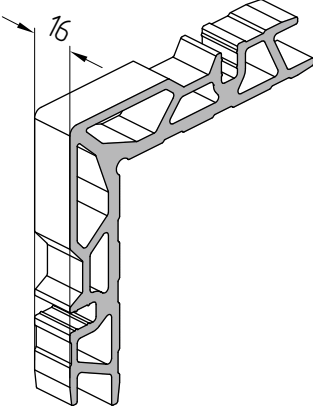
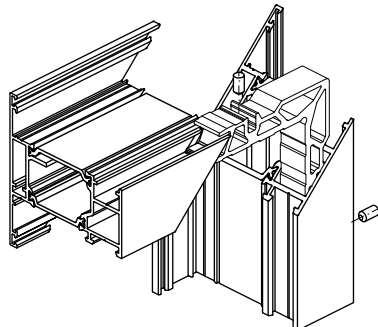
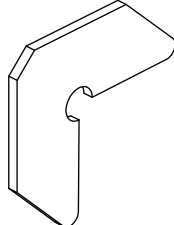
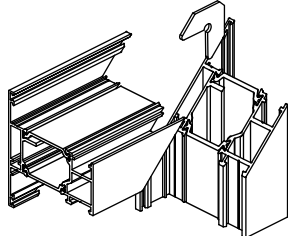
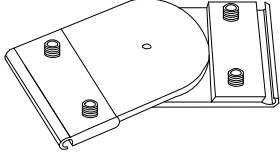
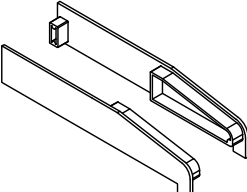
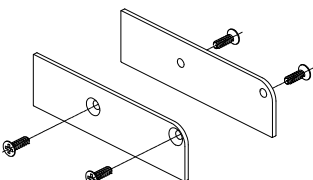
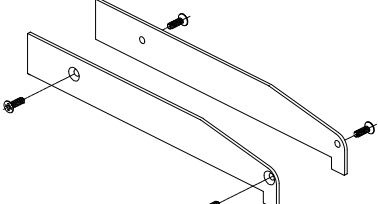
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	10827200	AYPC.W62.0969	Clamping corner made from AYPC.C48.0709. Packing quantity - 35 pcs.
			
			For sash profiles AYPC.W72.0240
	10813600	AYPC.W62.0957	Leveling corner. Quantity in pack - 200 pcs.
			
	12753500	DBA1-108	Adjustable angle corner connector
			For the sub sill profiles: AYPC.BF73.0401, AYPC.BF73.0402, AYPC.BF73.0403, AYPC.BF73.0404, AYPC.BF73.0405. Qty in pack - 1 pcs
	12751601	DBA1-203N Colour: white	Kit of 150 mm sill end caps. Qty in pack - 10 kits
	12751600	DBA1-203N Colour: black	For the sub sill profile AYPC.BF73.0401
	12752021	AYPC.BF73.2402K Colour: white	Kit of 90 mm sill end caps. Qty in pack - 20 kits <i>Kit includes: AYPC.BF73.2402 - 1 pcs, AYPC.BF73.2402-01 - 1 pcs, 3,5x13-A2 DIN798221 - 4 pcs</i>
	127520429	AYPC.BF73.2402K Colour: black	For the sub sill profile AYPC.BF73.0402
	12752121	AYPC.BF73.2403K Colour: white	Kit of 190 mm sill end caps. Qty in pack - 20 kits <i>Kit includes: AYPC.BF73.2403 - 1 pcs, AYPC.BF73.2403-01 - 1 pcs, 3,5x13-A2 DIN798221 - 4 pcs</i>
	127521429	AYPC.BF73.2403K Colour: black	For the sub sill profile AYPC.BF73.0403

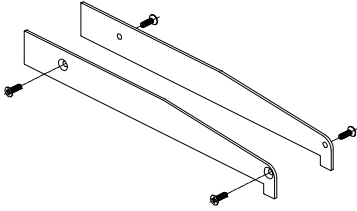
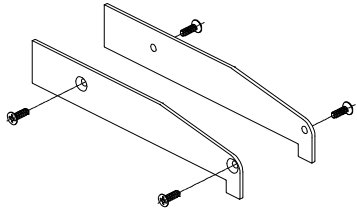
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	12752221	AYPC.BF73.2404K Colour: white	Kit of 230 mm sill end caps. Qty in pack – 20 kits
	127522429	AYPC.BF73.2404K Colour: black	For the sub sill profile AYPC.BF73.0404
	12752321	AYPC.BF73.2405K Colour: white	Kit of 150 mm sill end caps. Qty in pack – 20 kits
	127523429	AYPC.BF73.2405K Colour: black	For the sub sill profile AYPC.BF73.0405

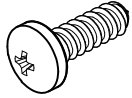
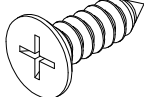

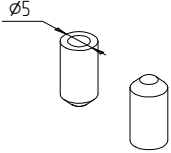

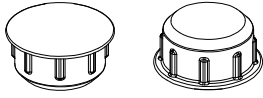
Image	Code	Article	Quantity in pack
 <p>Self-tapping screw</p>	18102000	3.9x16 DIN7981	100 pcs
	18102300	3.9x25 DIN7981	
	18101200	4.8x16 DIN7981	
	18108900	4.8x19 DIN7981	
	18101300	4.8x25 DIN7981	
 <p>Self-tapping screw with hidden head</p>	18115700	3.9x50 DIN7982	100 pcs
	18118500	4.2x25 DIN7982	
 <p>Screw</p>	18120000	M5x20 DIN965	100 pcs
 <p>Pin</p>	18101700	5x8 DIN6325	100 pcs
	18112400	5x10 DIN6325D	Quantity in pack – 100 pcs  Can be supplied by Alutech only. Possible to replace by 5x10 DIN6325 pin.
 <p>Decorative plug <math>\varnothing 10</math></p>	12655100 black	AYPC.SL.160.0928	100 pcs
	12655101 white		

Image	Code	Article	Application	Volume	Quantity in pack
 <p>One part adhesive</p>	18605000	COSMO PU-100.130	Used for constructional bonding of aluminium corner angles. Polymerization occurs due to the air humidity.	310 ml	1 pcs
 <p>Two part adhesive</p>	18605100	COSMO PU-200.280	Used for constructional bonding of aluminium corner angles. Polymerization of the adhesive occurs by chemical reaction of the components.	2x310 ml	1 pcs
 <p>Manual pressure gun</p>	18605200	COSMO SP-760.151	Used for dosing of COSMO PU-200.280 two part adhesive	-	1 pcs
 <p>Mixing tube</p>	18605300	COSMO SP-800.230	Used for COSMO PU-200.280 two part adhesive application	-	1 pcs
 <p>Cleaner</p>	18605400	COSMO CL-300.150	Detergent for painted aluminium profiles. It is used for removing polyurethane adhesives (from corner joint area after clamping and using pins), silicone from gaskets and cleaning adhesive surfaces.	1000 ml	1 pcs

Image	Code	Article	Application	Volume	Quantity in pack
 Activator	18605500	COSMO CL-310.110	Used for surface preparation (PVC profiles, painted aluminium etc.) when applying COSMO HD-100.412 (black) sealant. Provides better adhesion in difficult areas of bonding (slippery plastics, polyamide, smooth paint etc.).	250 ml	1 pcs
 Anticorrosive sealant	18605600	COSMO HD-100.411	Protects butt joint of aluminium profiles from crevice corrosion. As a sealant prevents profile from water penetration through a loose joint. Colour: grey	310 ml	1 pcs
 Hybrid adhesive	18605900	COSMO HD-100.412	Used for gluing rubber gaskets, sealing of profiles joints, deflector block installation area, plugs etc. Use activator COSMO CL-310.110 before applying to painted profiles. Colour: black	310 ml	1 pcs
 Cyanoacrylate glue	18605700	CA-500.200	Instant bonding of EPDM-based rubber gaskets (polyethylene bottle with dispenser).	20 ml	1 pcs
 Primer for TPE rubber and plastics	18605800	COSMO SP-840.110	Primer for surfaces that are difficult to bond.	50 ml	1 pcs



**ALUTECH ALTW72CW**

Window system with  
thermal break

# Bearing support installation diagram

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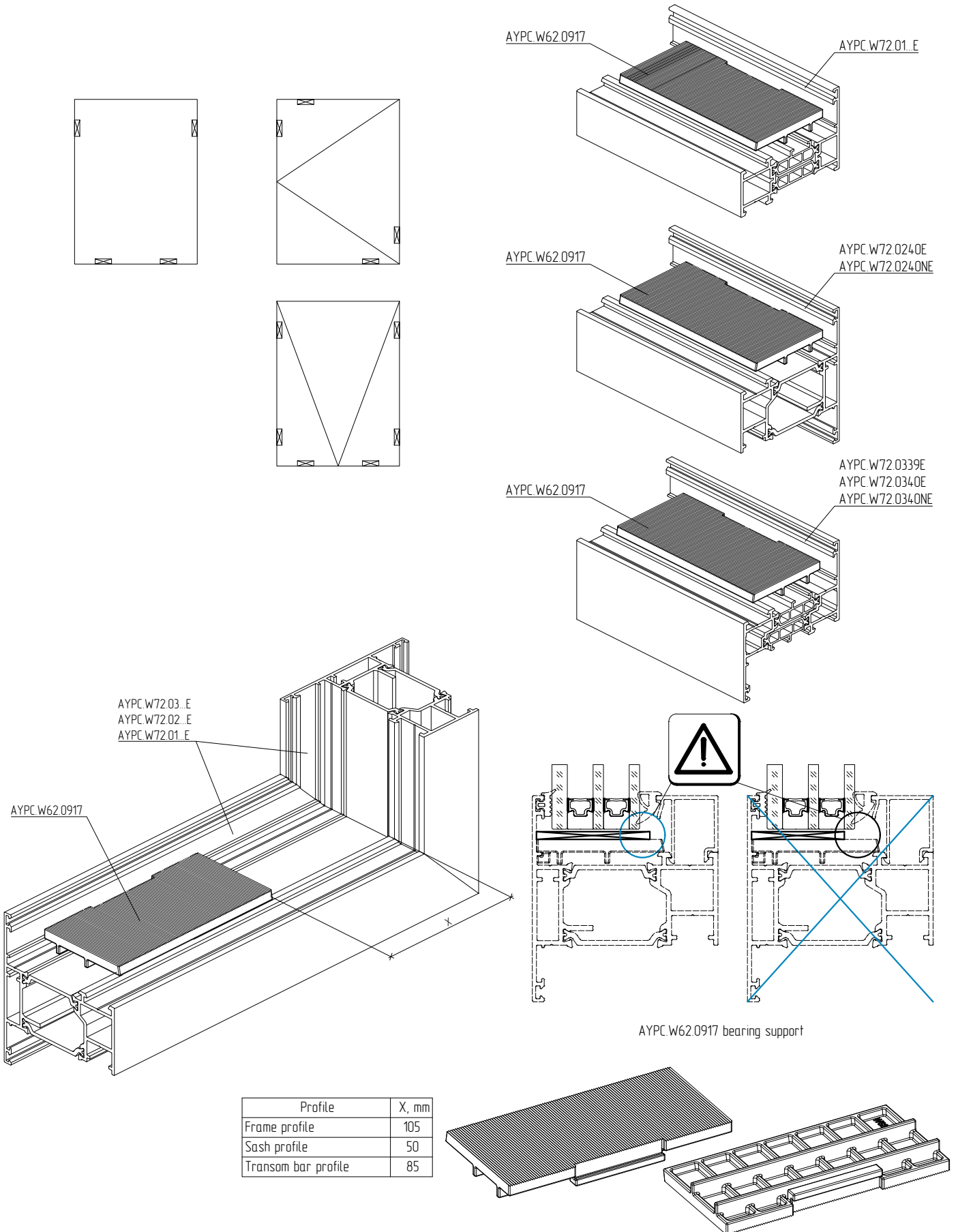
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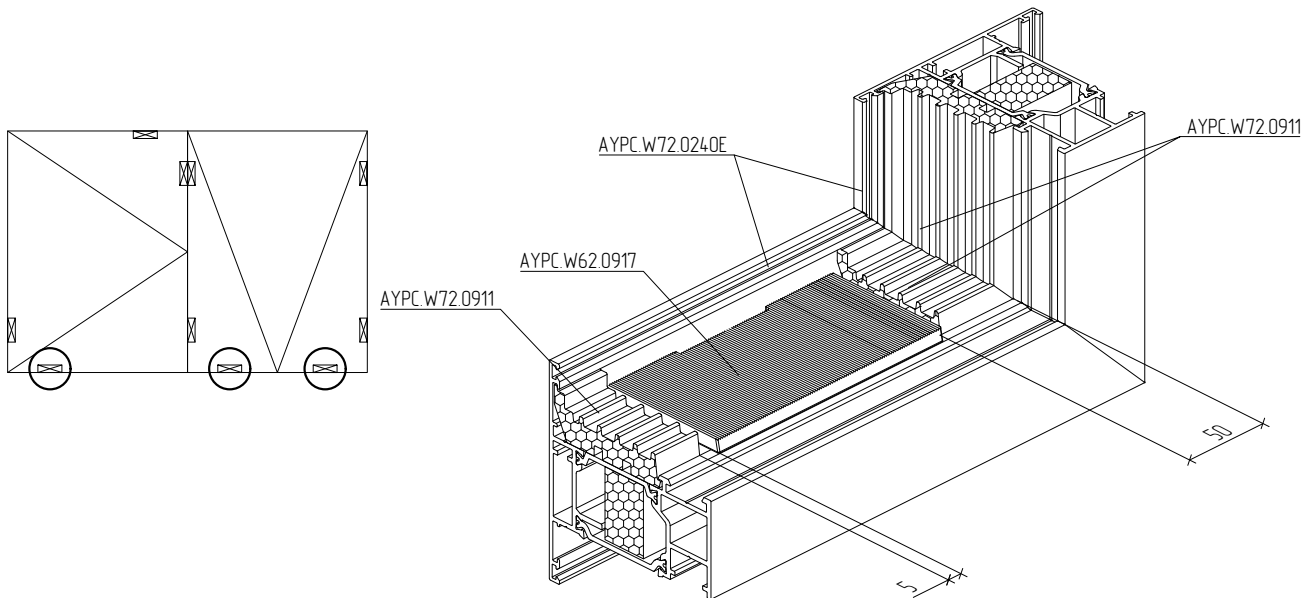
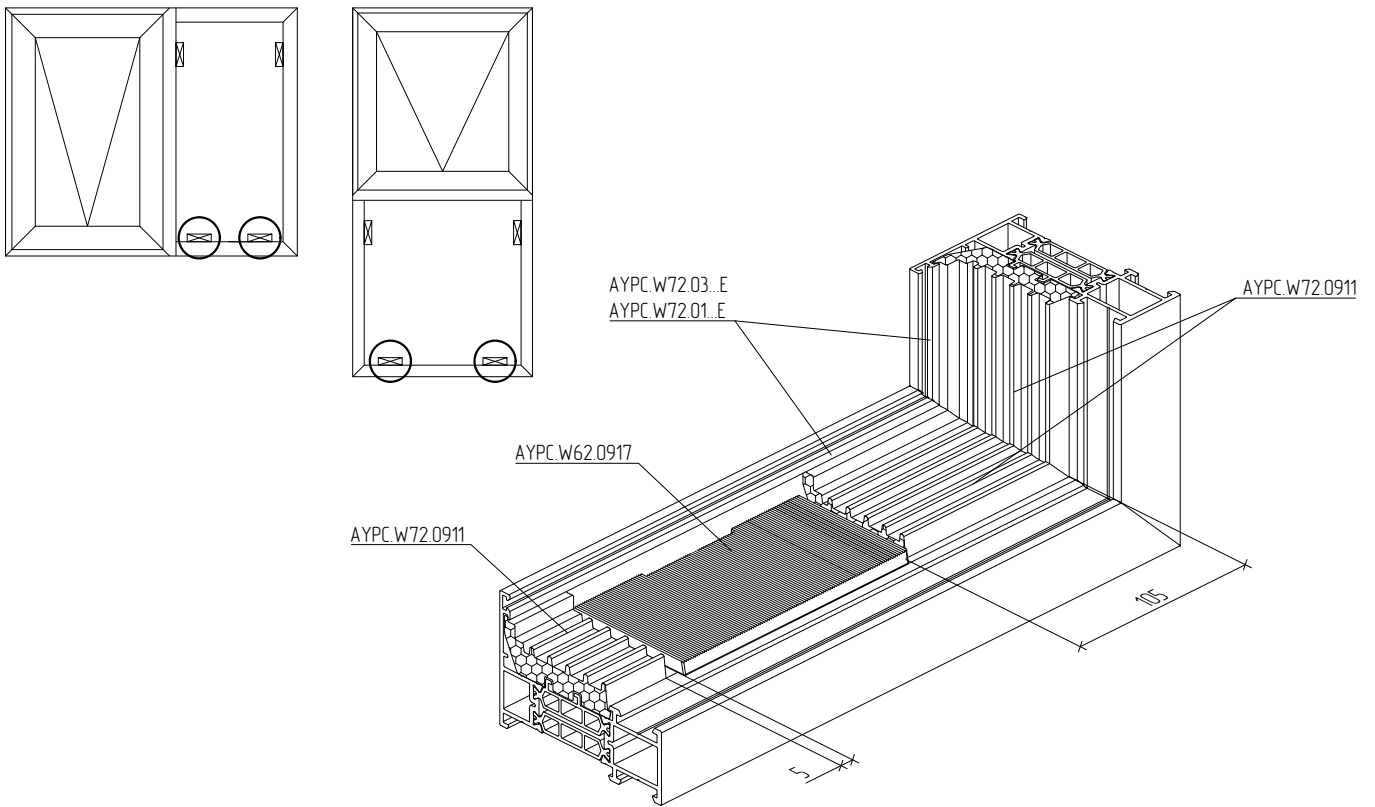




Bearing support installation scheme

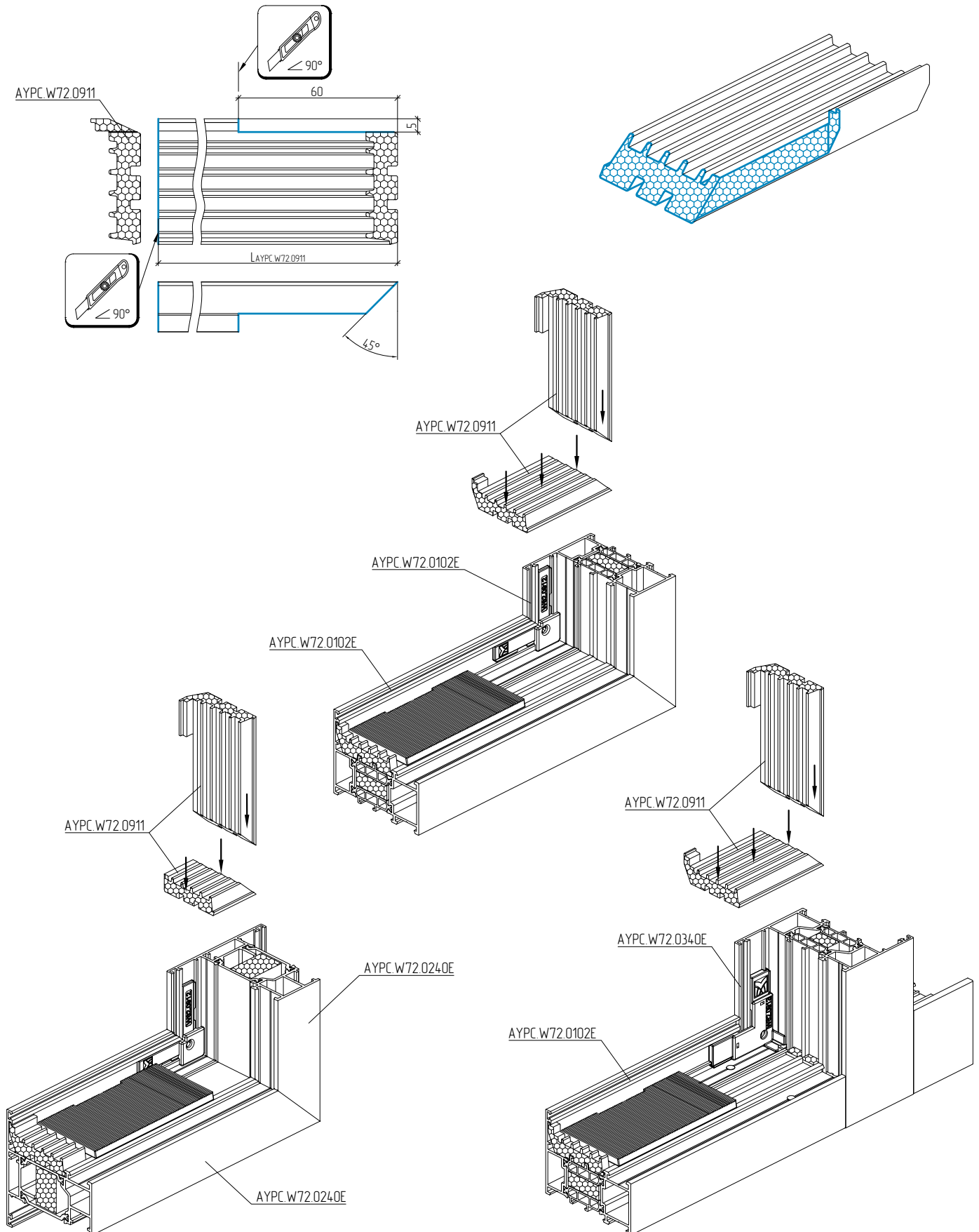


Seam sealing processing for bearing support installation

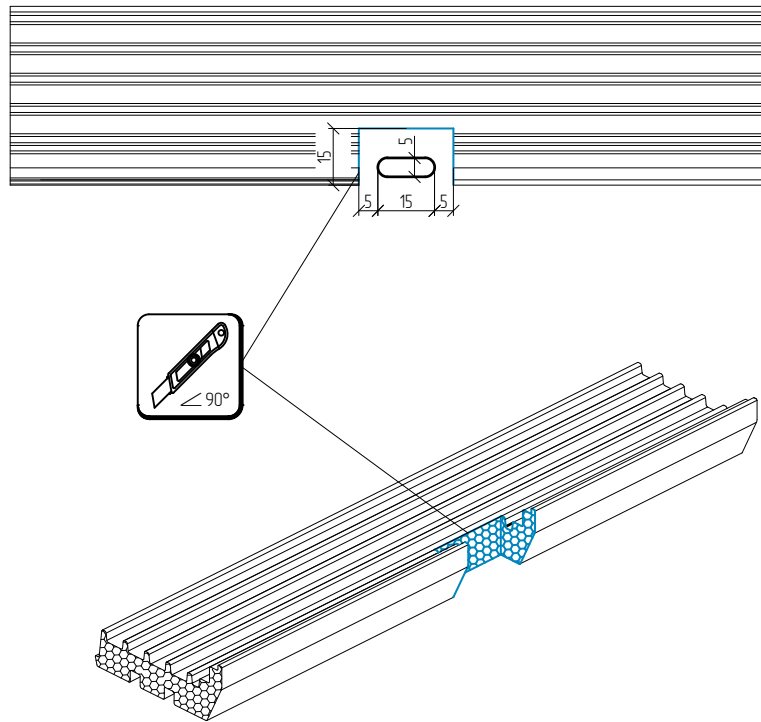
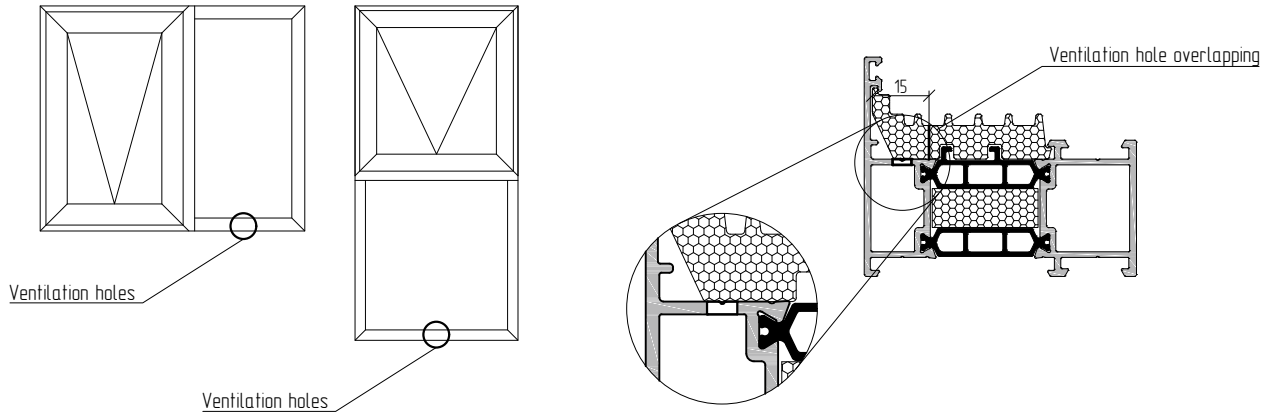


See AYPC.W72.0911 seam sealing processing in corner zone on page 04.03.

Seam sealing processing in the zone of installation of  
AYPC.W62.0912 and AYPC.W62.0913 plastic corners



Processing of AYPC.W72.0911 seam sealing for ventilation holes





**ALUTECH ALTW72CW**  
Window system with  
thermal break

# Cutting list and installation diagram of gaskets

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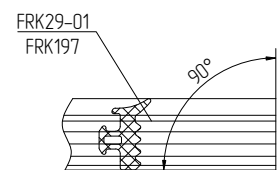
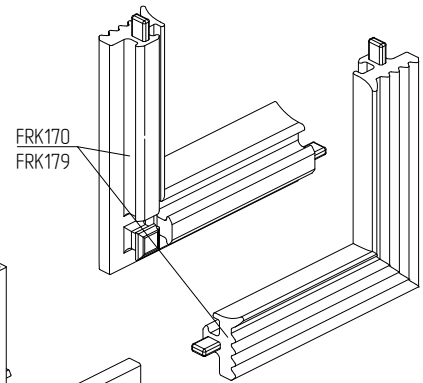
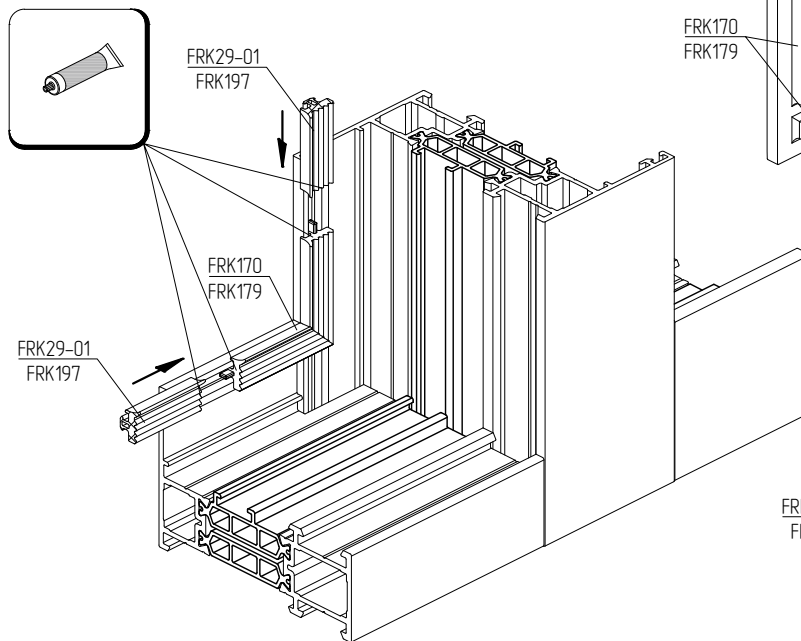
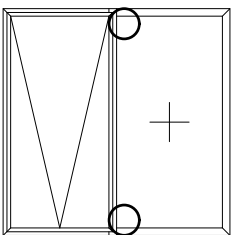
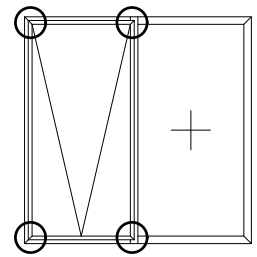
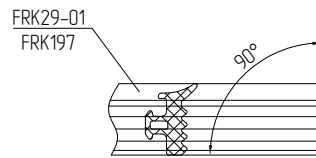
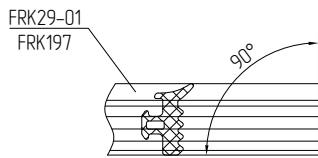
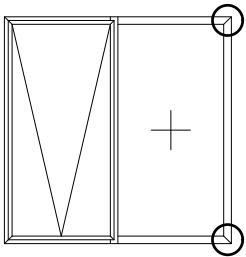
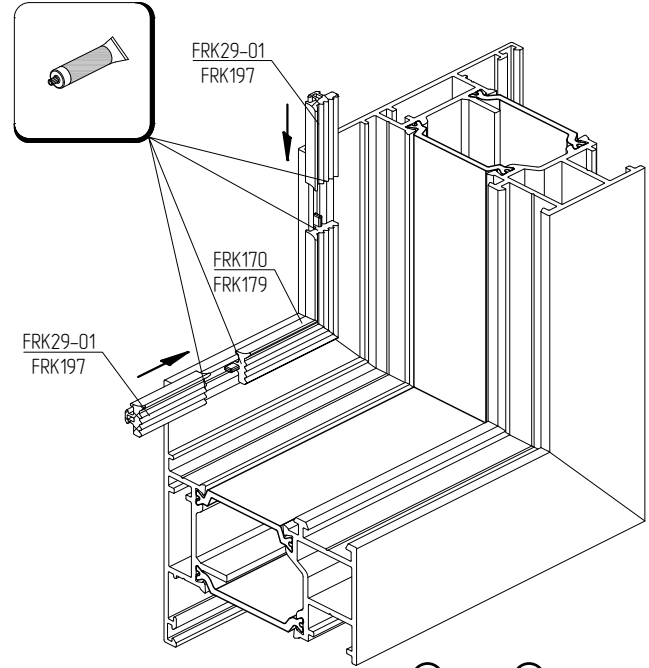
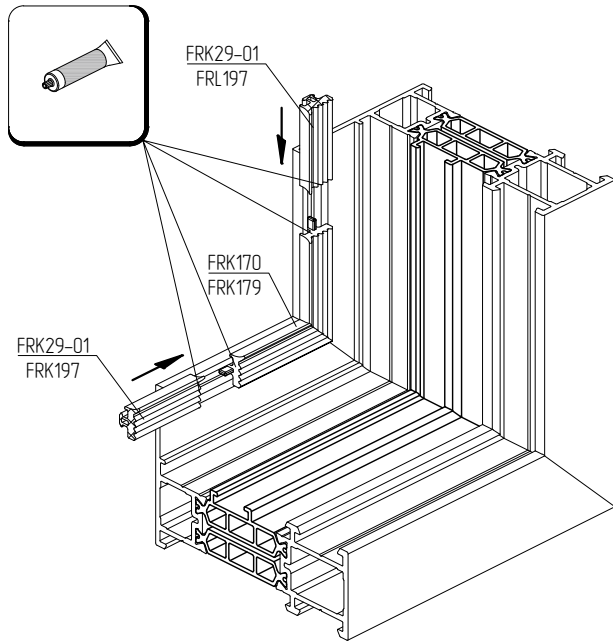
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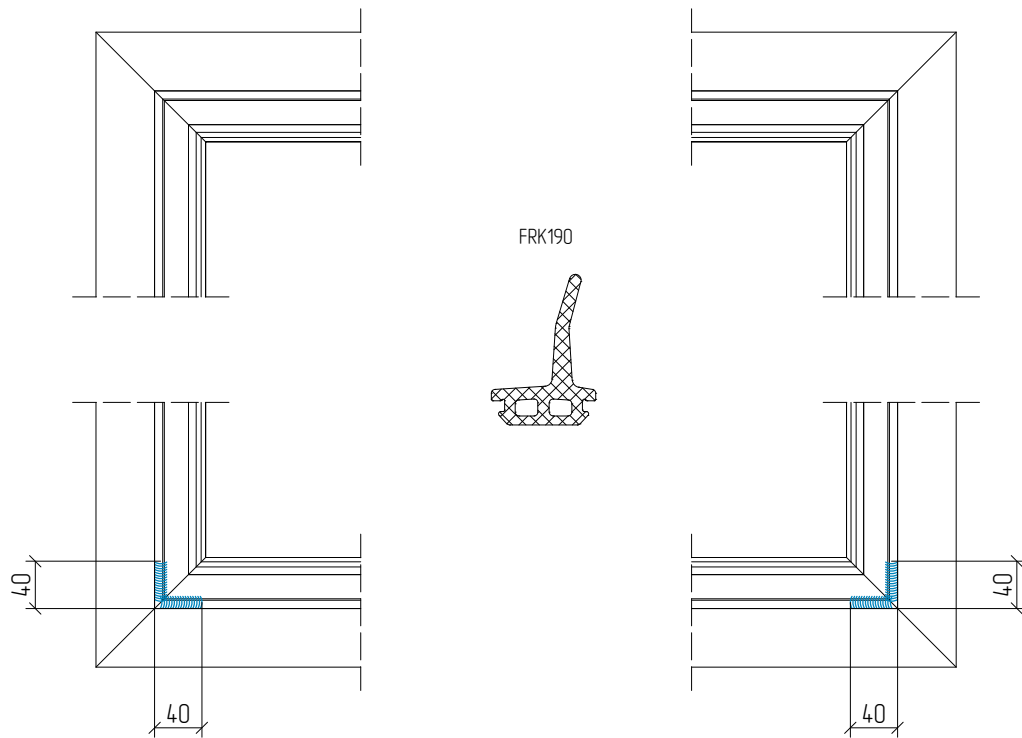
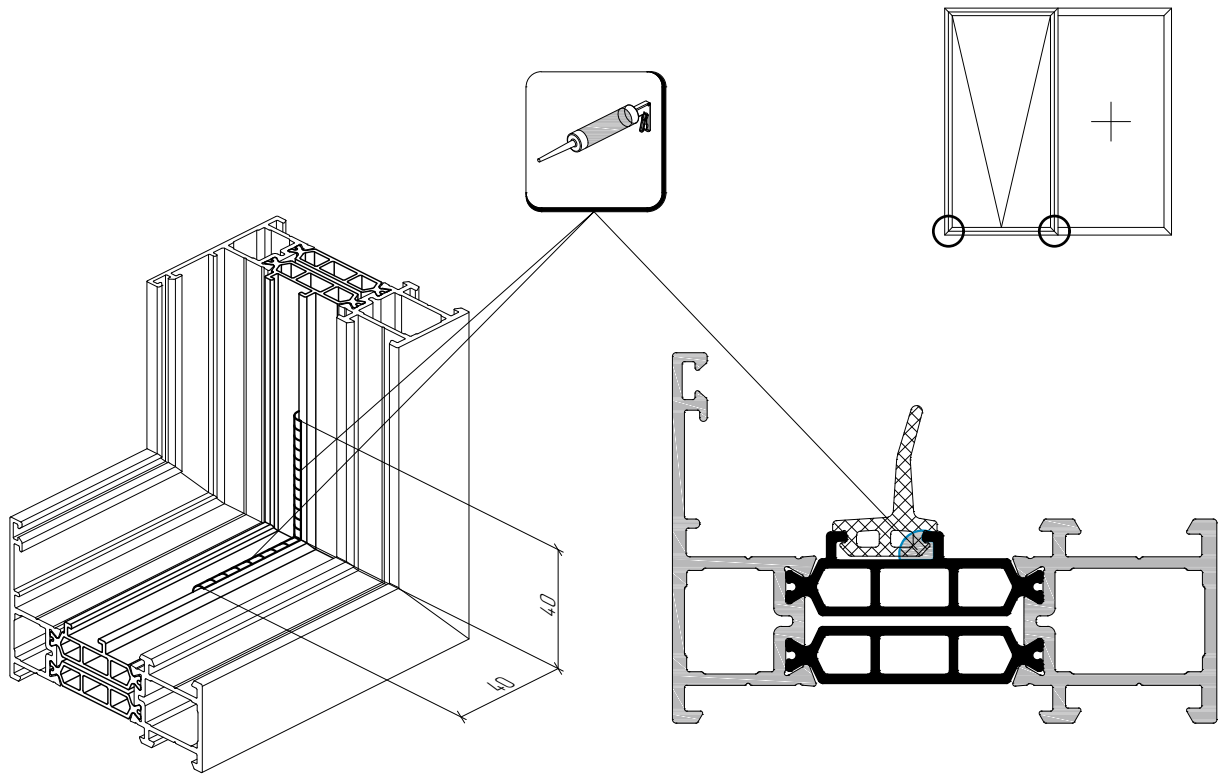


Gasket cutting and installation



Cut the gasket with 1% of extra length.  
Gasket junction should be glued with the adhesive for rubber gasket gluing.

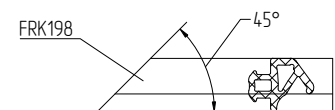
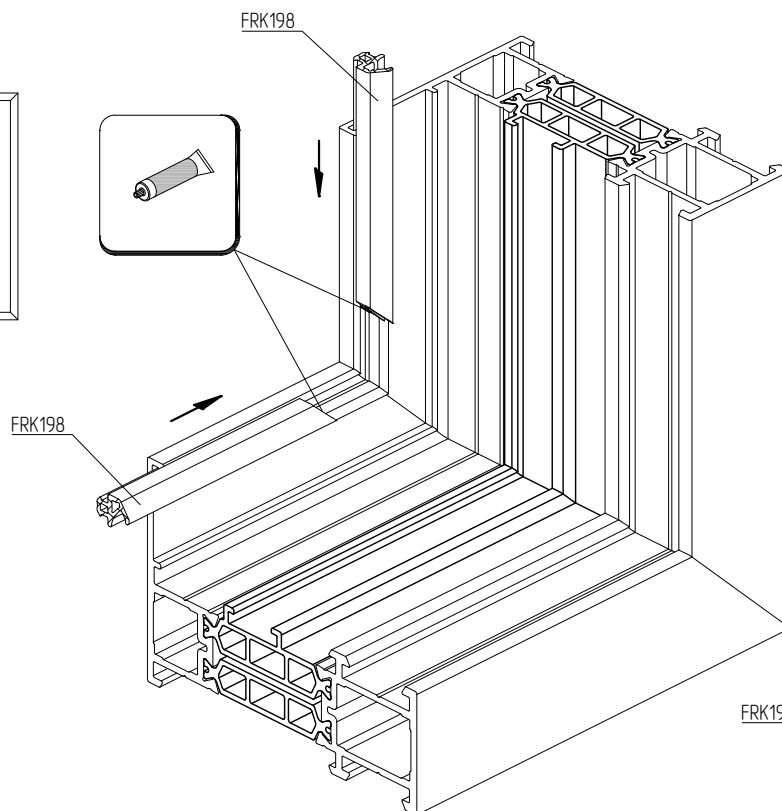
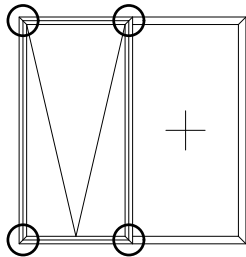
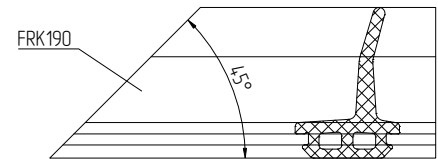
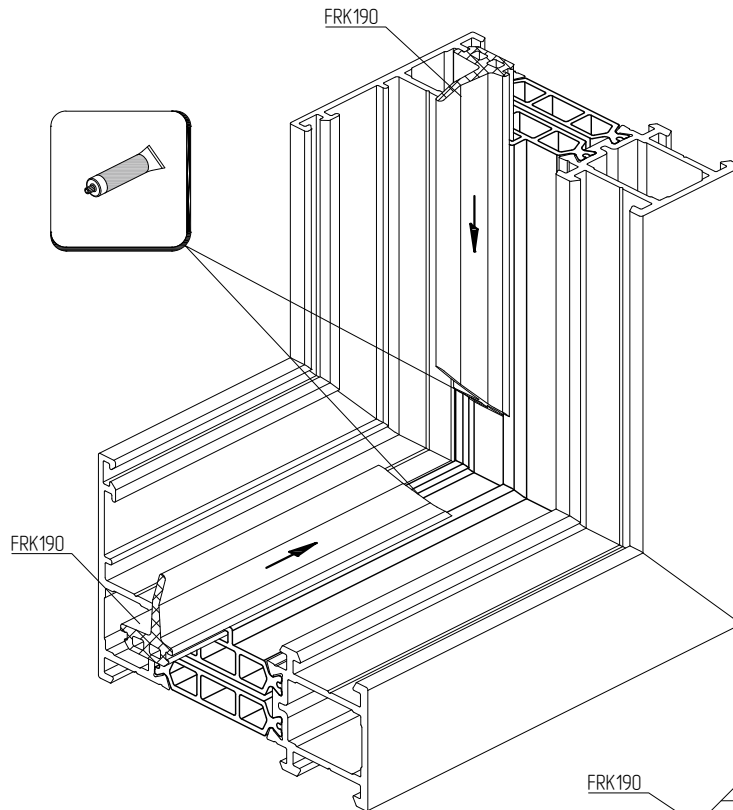
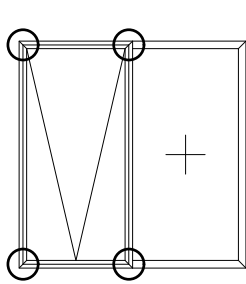
Gasket cutting and installation



Should be sealed. Sealant data is provided on the request.

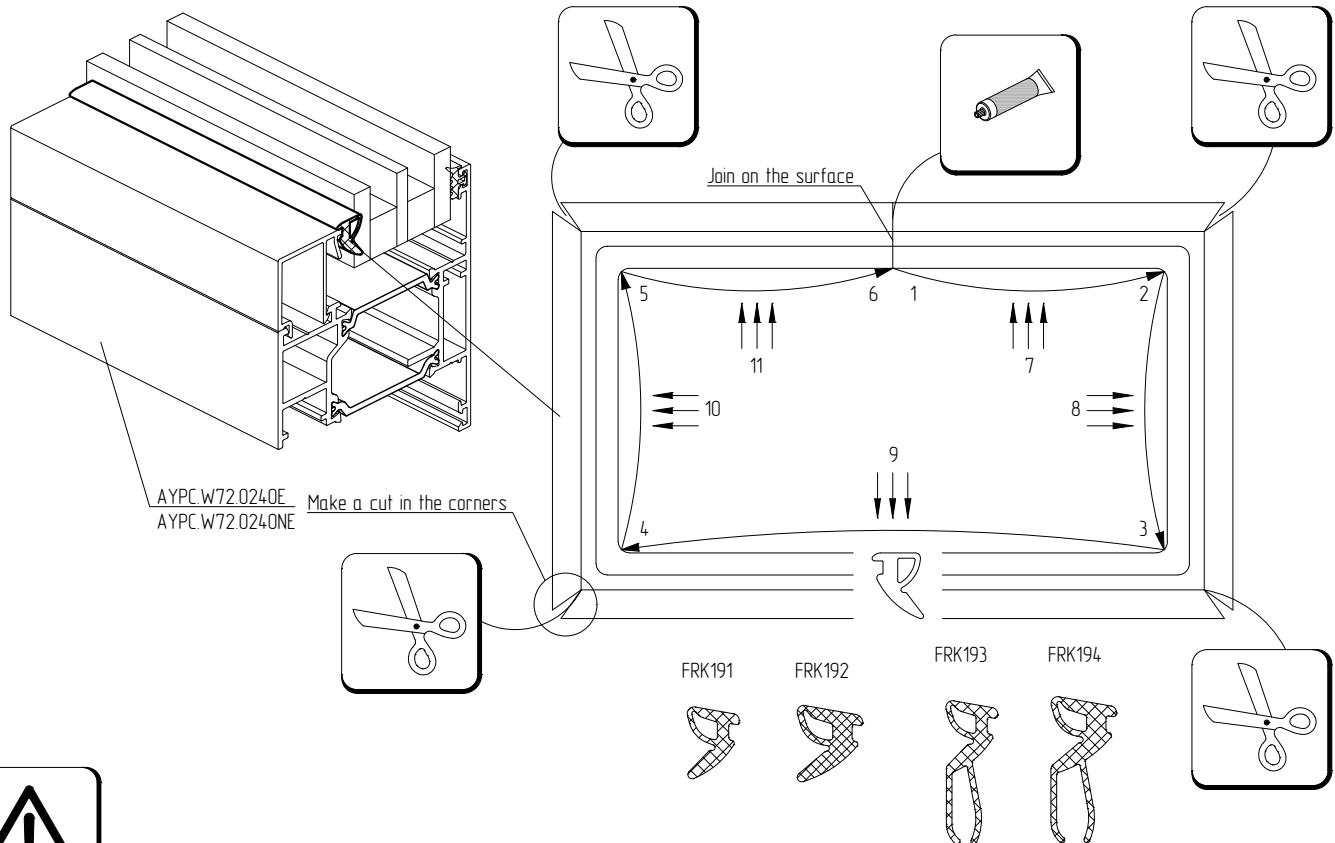
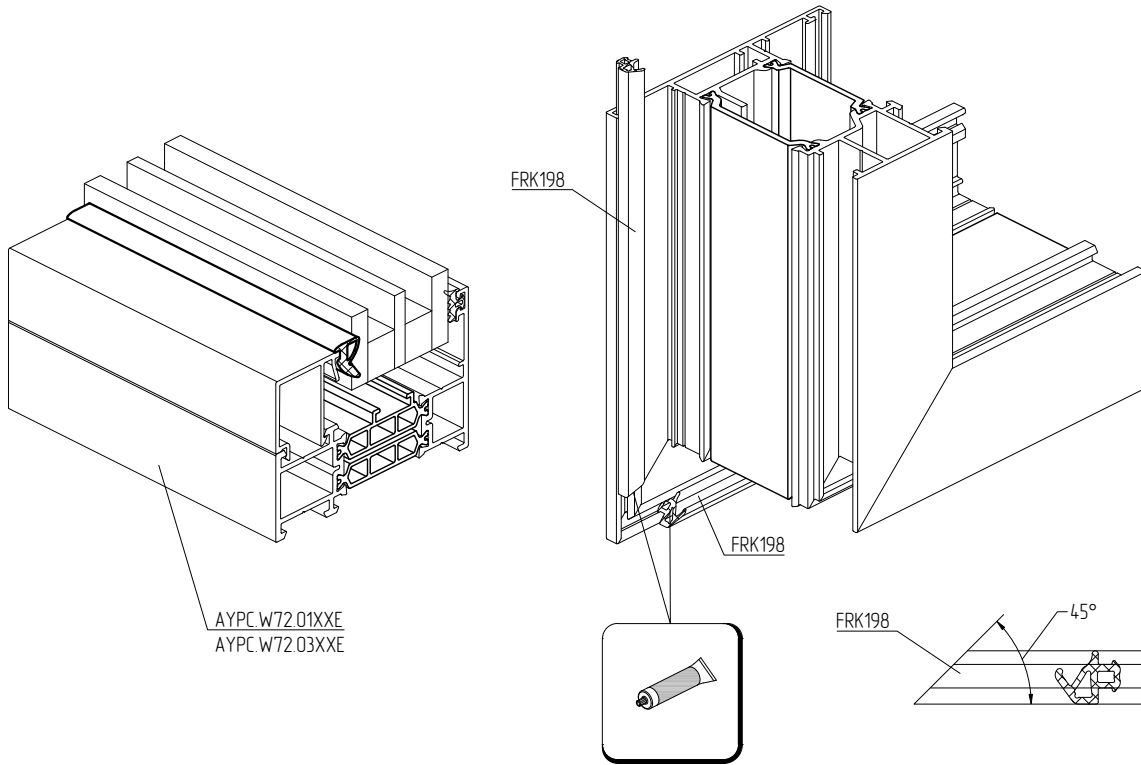


Gasket cutting and installation



Cut the gasket with 1% of extra length.  
Gasket junction should be glued with the adhesive for rubber gasket gluing.

Gasket cutting and installation



Cut the gasket with 1% of extra length.  
Gasket junction should be glued with the adhesive for rubber gasket gluing.



**ALUTECH ALTW72CW**  
Window system with  
thermal break

## Glazing list

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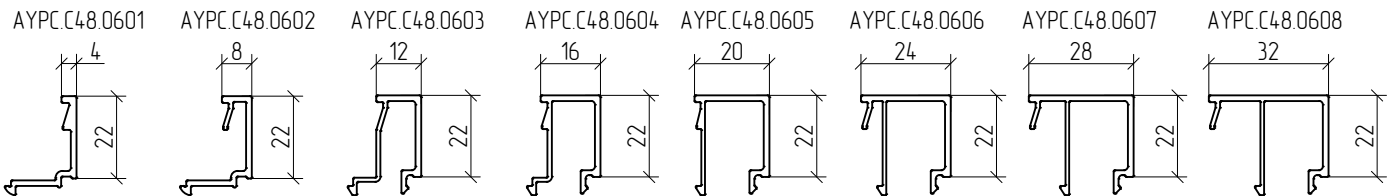
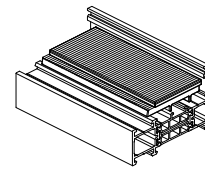


Profile system	External gasket	Infill unit thickness, mm	Internal gasket	Glass bead
	 FRK29-01	26	FRK191, FRK193	AYPC.C48.0608
		28	FRK192, FRK194	AYPC.C48.0607
		30	FRK191, FRK193	AYPC.C48.0607
		32	FRK192, FRK194	AYPC.C48.0606
		34	FRK191, FRK193	AYPC.C48.0606
		36	FRK191, FRK193	AYPC.C48.0606
		38	FRK192, FRK194	AYPC.C48.0605
		40	FRK191, FRK193	AYPC.C48.0605
		42	FRK192, FRK194	AYPC.C48.0604
		44	FRK191, FRK193	AYPC.C48.0604
		46	FRK192, FRK194	AYPC.C48.0603
		48	FRK191, FRK193	AYPC.C48.0603
		50	FRK192, FRK194	AYPC.C48.0602
		52	FRK191, FRK193	AYPC.C48.0602
54	FRK192, FRK194	AYPC.C48.0601		

Infill units	External gasket	Internal gasket			
Article	FRK29-01	FRK191	FRK192	FRK193	FRK194



Use bearing and leveling supports.



Note

Data in the table is applicable to all system profiles with a mounting depth of 72mm.

Data given in the table is for reference, the values are suitable for preliminary calculation. In case of practical use, it is necessary to check their validity on the basis on actual parameters, such as accuracy of infill unit manufacturing (tolerances); accuracy of gaskets manufacturing (tolerances); conditions of gasket installation and system assemblage; tolerances for glass bead profile and tolerances for combined profiles assemblage.

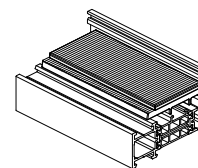
For correct system operation the gaskets must be force fitted.

Profile system	External gasket	Infill unit thickness, mm	Internal gasket	Glass bead
		24	FRK192, FRK194	AYPC.C48.0608
		26	FRK191, FRK193	AYPC.C48.0608
		28	FRK192, FRK194	AYPC.C48.0607
		30	FRK191, FRK193	AYPC.C48.0607
		32	FRK192, FRK194	AYPC.C48.0606
		34	FRK191, FRK193	AYPC.C48.0606
		36	FRK192, FRK194	AYPC.C48.0605
		38	FRK191, FRK193	AYPC.C48.0605
		40	FRK192, FRK194	AYPC.C48.0604
		42	FRK191, FRK193	AYPC.C48.0604
		44	FRK192, FRK194	AYPC.C48.0603
		46	FRK191, FRK193	AYPC.C48.0603
		48	FRK192, FRK194	AYPC.C48.0602
		50	FRK191, FRK193	AYPC.C48.0602
		52	FRK192, FRK194	AYPC.C48.0601
54	FRK191, FRK193	AYPC.C48.0601		

Infill units	External gasket	Internal gasket			
Article	FRK197	FRK191	FRK192	FRK193	FRK194



Use bearing and leveling supports.



AYPC.C48.0601	AYPC.C48.0602	AYPC.C48.0603	AYPC.C48.0604	AYPC.C48.0605	AYPC.C48.0606	AYPC.C48.0607	AYPC.C48.0608

**Note**

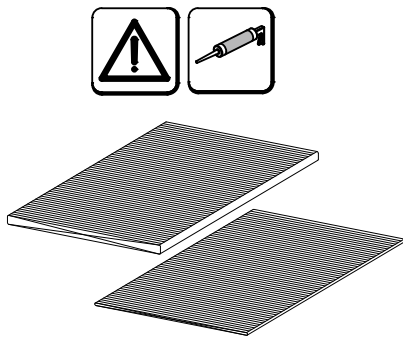
Data in the table is applicable to all system profiles with a mounting depth of 72mm.

Data given in the table is for reference, the values are suitable for preliminary calculation. In case of practical use, it is necessary to check their validity on the basis on actual parameters, such as accuracy of infill unit manufacturing (tolerances); accuracy of gaskets manufacturing (tolerances); conditions of gasket installation and system assemblage; tolerances for glass bead profile and tolerances for combined profiles assemblage.

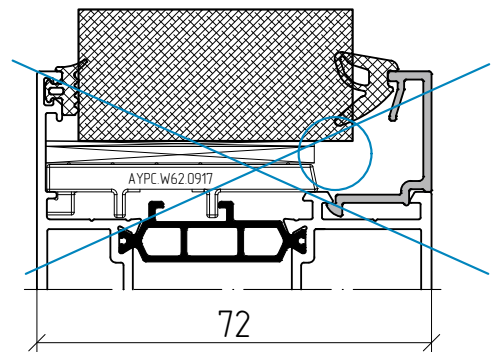
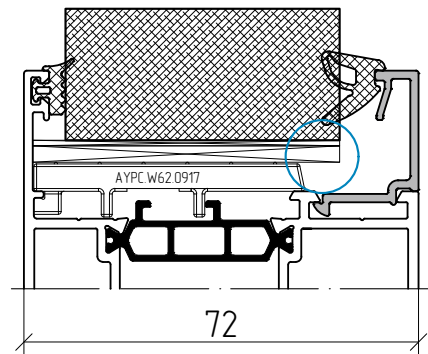
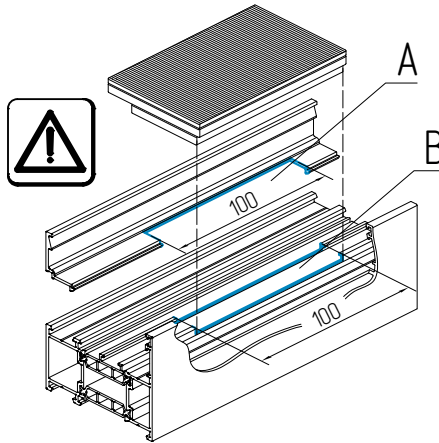
For correct system operation the gaskets must be force fitted.

Application table of bearing and leveling infill unit supports

Profile system	Infill unit thickness, mm	Подкладка опорная	Подкладка рихтовочная
	24-32	АУРС.W62.0917	100x38x1(3)
	34-38	АУРС.W62.0917	100x44x1(3)
	40-44	АУРС.W62.0917	100x50x1(3)
	46-50	АУРС.W62.0917	100x56x1(3)
	52-54	—	100x44x5 100x62x2 100x62x3



Install on silicone for correct positioning



PAS24 Configuration Details

Profile system	External gasket	Infill unit thickness, mm	Internal gasket	Glass bead
	 FRK29-01	26	FRK191, FRK193	AYPC.C48.2608
		28	FRK192, FRK194	AYPC.C48.2607
		30	FRK191, FRK193	AYPC.C48.2607
		32	FRK192, FRK194	AYPC.C48.2606
		34	FRK191, FRK193	AYPC.C48.2606
		36	FRK191, FRK193	AYPC.C48.2606
		38	FRK192, FRK194	AYPC.C48.2605
		40	FRK191, FRK193	AYPC.C48.2605

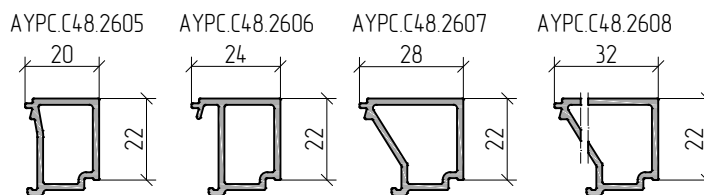
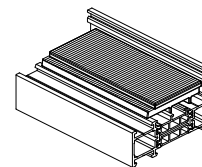


Install the glass bead only from the side of the room

Infill units	External gasket	Internal gasket			
Article	FRK29-01	FRK191	FRK192	FRK193	FRK194



Use bearing and leveling supports.



Note

Data in the table is applicable to all system profiles with a mounting depth of 72mm.

Data given in the table is for reference, the values are suitable for preliminary calculation. In case of practical use, it is necessary to check their validity on the basis on actual parameters, such as accuracy of infill unit manufacturing (tolerances); accuracy of gaskets manufacturing (tolerances); conditions of gasket installation and system assemblage; tolerances for glass bead profile and tolerances for combined profiles assemblage.

For correct system operation the gaskets must be force fitted.



PAS24 Configuration Details

Profile system	External gasket	Infill unit thickness, mm	Internal gasket	Glass bead
	<p>FRK197</p>	24	FRK192, FRK194	AYPC.C48.2608
		26	FRK191, FRK193	AYPC.C48.2608
		28	FRK192, FRK194	AYPC.C48.2607
		30	FRK191, FRK193	AYPC.C48.2607
		32	FRK192, FRK194	AYPC.C48.2606
		34	FRK191, FRK193	AYPC.C48.2606
		36	FRK192, FRK194	AYPC.C48.2605
		38	FRK191, FRK193	AYPC.C48.2605

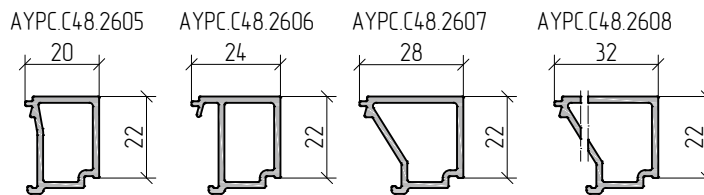
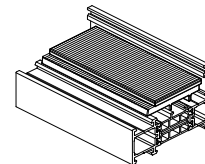


Install the glass bead only from the side of the room

Infill units	External gasket	Internal gasket			
Article	FRK197	FRK191	FRK192	FRK193	FRK194



Use bearing and leveling supports.



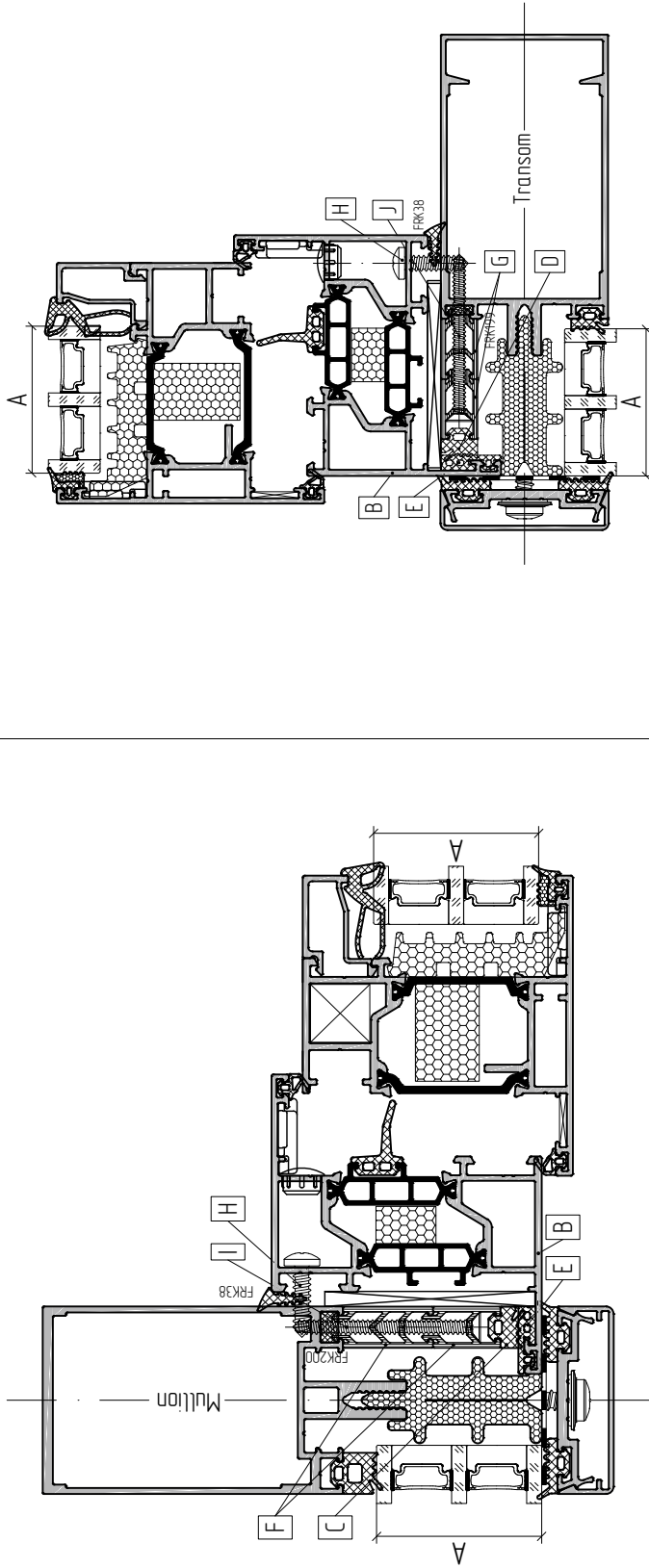
Note

Data in the table is applicable to all system profiles with a mounting depth of 72mm.

Data given in the table is for reference, the values are suitable for preliminary calculation. In case of practical use, it is necessary to check their validity on the basis on actual parameters, such as accuracy of infill unit manufacturing (tolerances); accuracy of gaskets manufacturing (tolerances); conditions of gasket installation and system assemblage; tolerances for glass bead profile and tolerances for combined profiles assemblage.

For correct system operation the gaskets must be force fitted.

ALT W72CW window installation into facade using transom bar profile as a frame



Infill unit thickness	Frame profile		Gasket		Distance profile		Self-tapping screw		
	on mullion	on transom bar	on transom bar	on frame	on mullion	on transom bar	on distance profile	on distance profile	
A	C	D	E		F	G	H	I	J
22 mm					AYPC F50.0902-01 / FRK200	AYPC F50.0901-01 / FRK199	4,8x19-A2 DIN7981	3,9x32-A2 DIN7982	3,9x25-A2 DIN7982
24 mm									
26 mm									
28 mm									
30 mm	FRK15	FRK15	FRK159		AYPC F50.0903-01 / FRK200	AYPC F50.0902-01 / FRK199	4,8x19-A2 DIN7981	3,9x38-A2 DIN7982	3,9x32-A2 DIN7982
32 mm									
34 mm									
36 mm					2 x AYPC F50.0901-01 / FRK200	AYPC F50.0903-01 / FRK199	4,8x19-A2 DIN7981	3,9x45-A2 DIN7982	3,9x38-A2 DIN7982
38 mm									
40 mm									
42 mm					AYPC F50.0901-01 + AYPC F50.0902-01 / FRK200	2 x AYPC F50.0901-01 / FRK199	4,8x19-A2 DIN7981	3,9x50-A2 DIN7982	3,9x45-A2 DIN7982
44 mm									

Data on FRK15 gasket AYPC F50.0901-01 ... AYPC F50.0903-01 distance profiles are given in ALT F50 technical catalogue.



**ALUTECH ALTW72CW**

Window system with  
thermal break

# Windows. Sections and junctions

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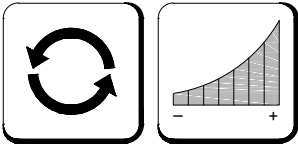
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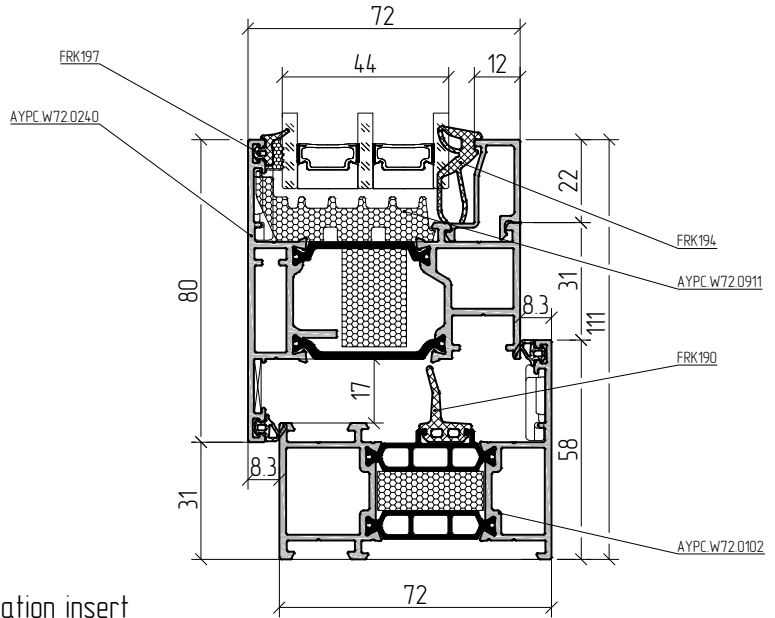
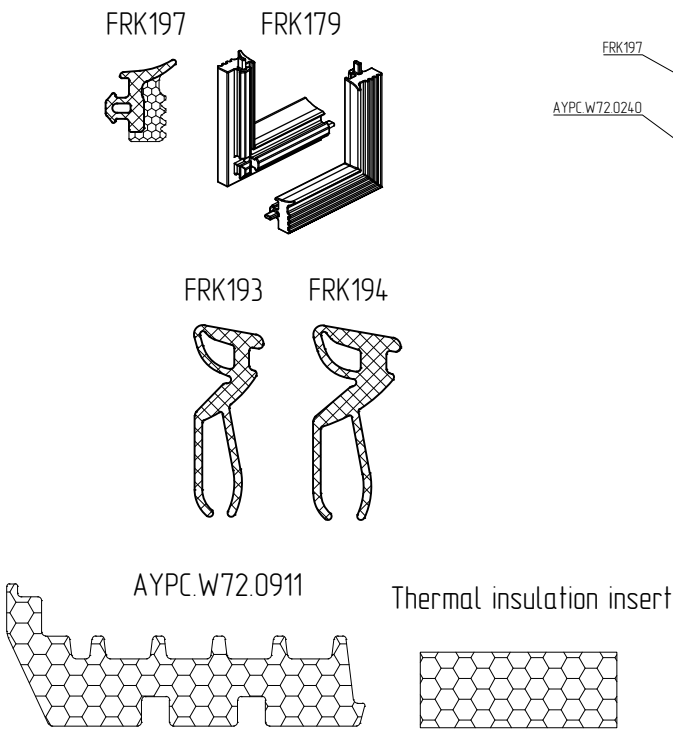
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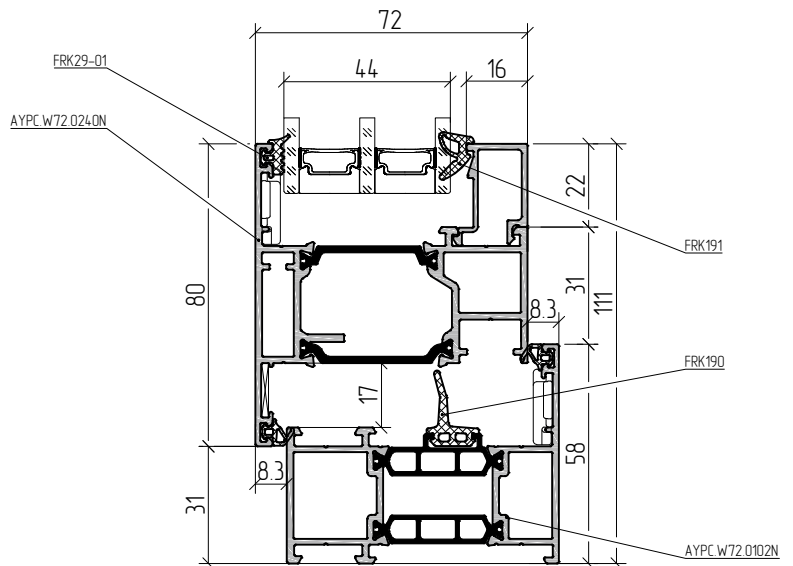
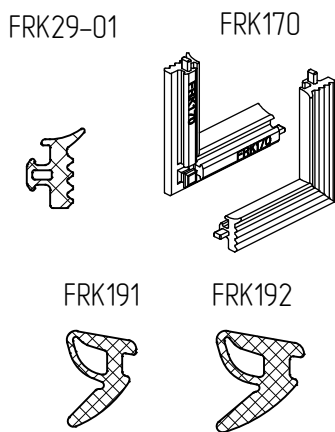




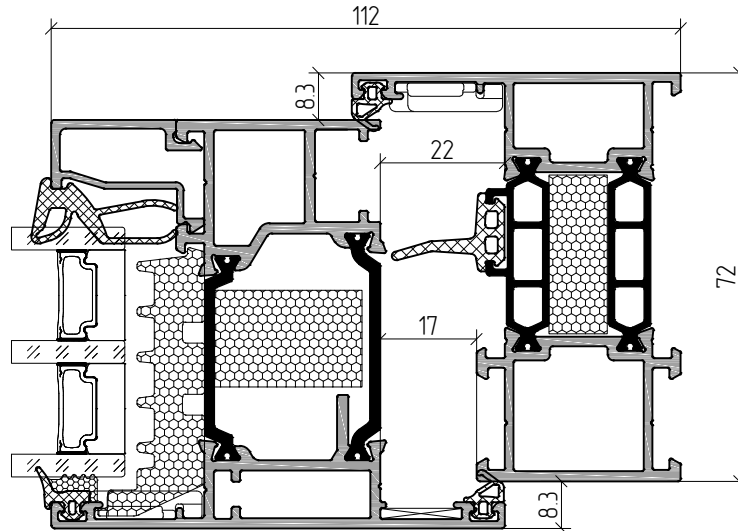
Option 1



Option 2

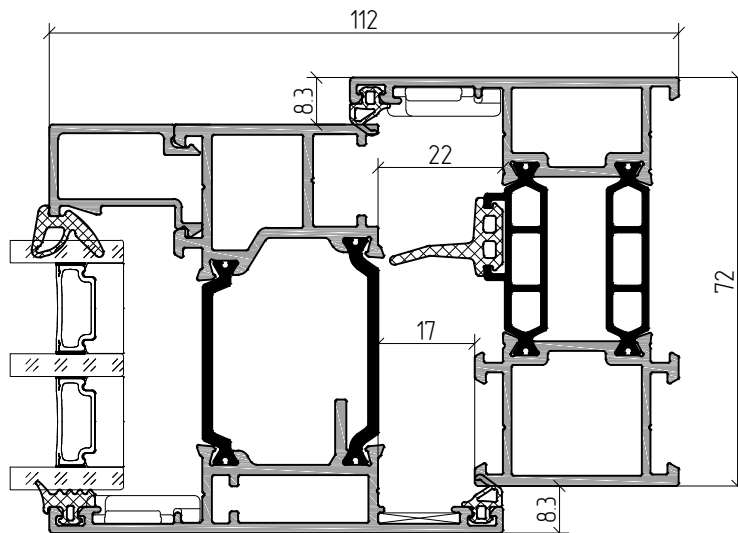


Thermal performance calculation results of the thermal performance calculation of AYPC.W72CW profiles with Flixo pro 7 (7.0.628.1) kit with foamed inserts in the area under the glass unit and inside the profile.  
Option 1. junction: AYPC.W72.0102 frame profile / AYPC.W72.0240 sash profile

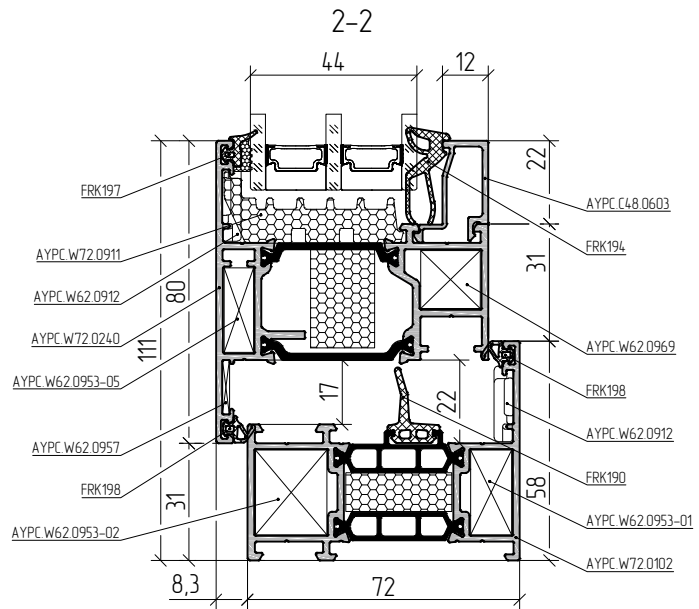
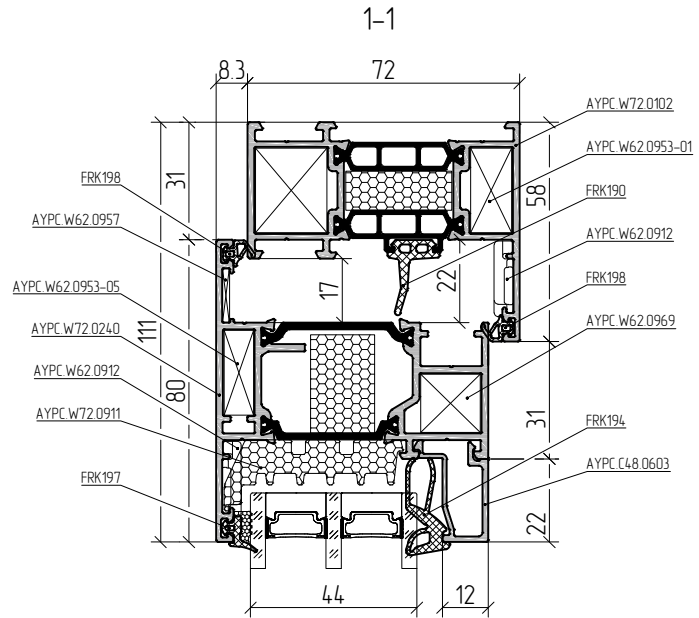
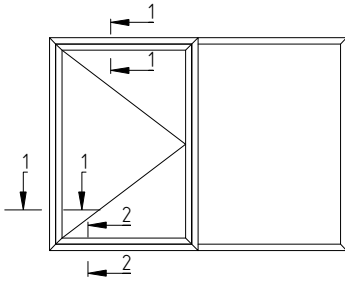
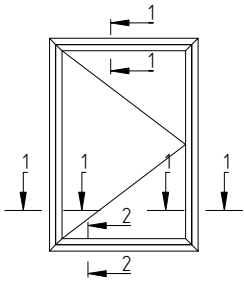


$$U_{fA,B} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{7,566}{20} - 0,701 \cdot 0,236}{0,111} = 1,92 \text{ W}/(\text{m}^2 \cdot \text{K})$$

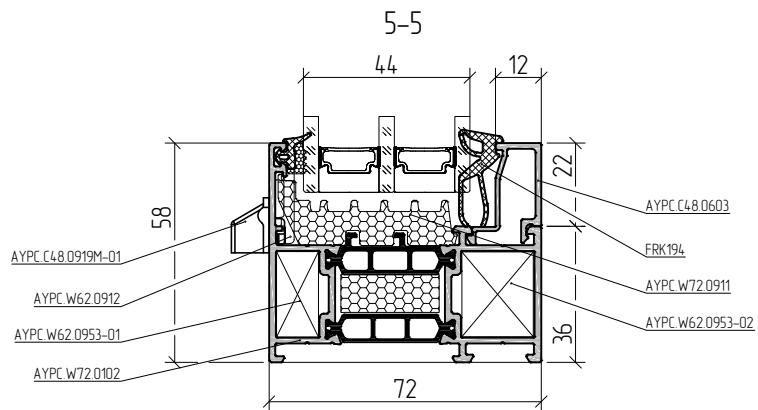
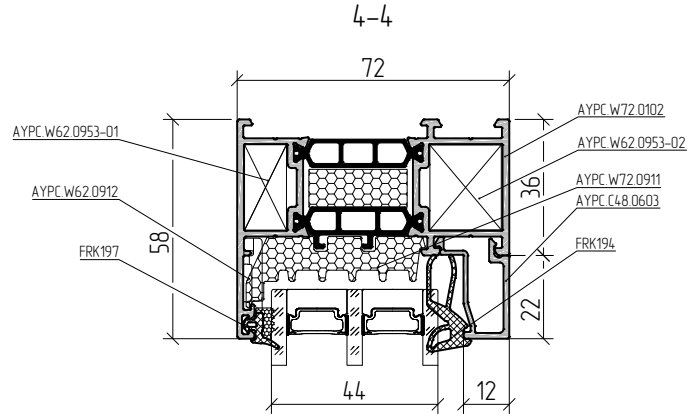
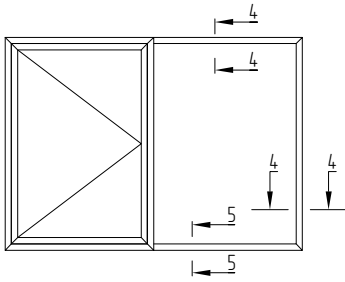
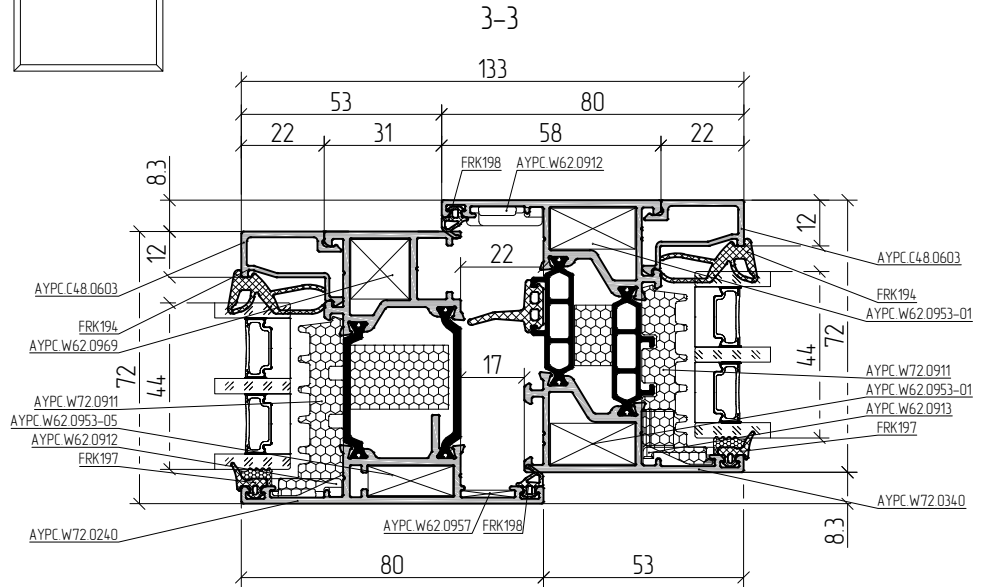
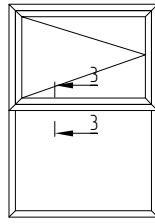
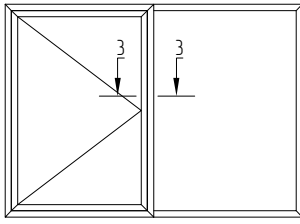
Thermal performance calculation results of the thermal performance calculation of AYPC.W72CW profiles with Flixo pro 7 (7.0.628.1) kit without foamed inserts in the area under the glass unit and inside of the profile.  
Option 2. junction: AYPC.W72.0102N frame profile / AYPC.W72.0240N sash profile



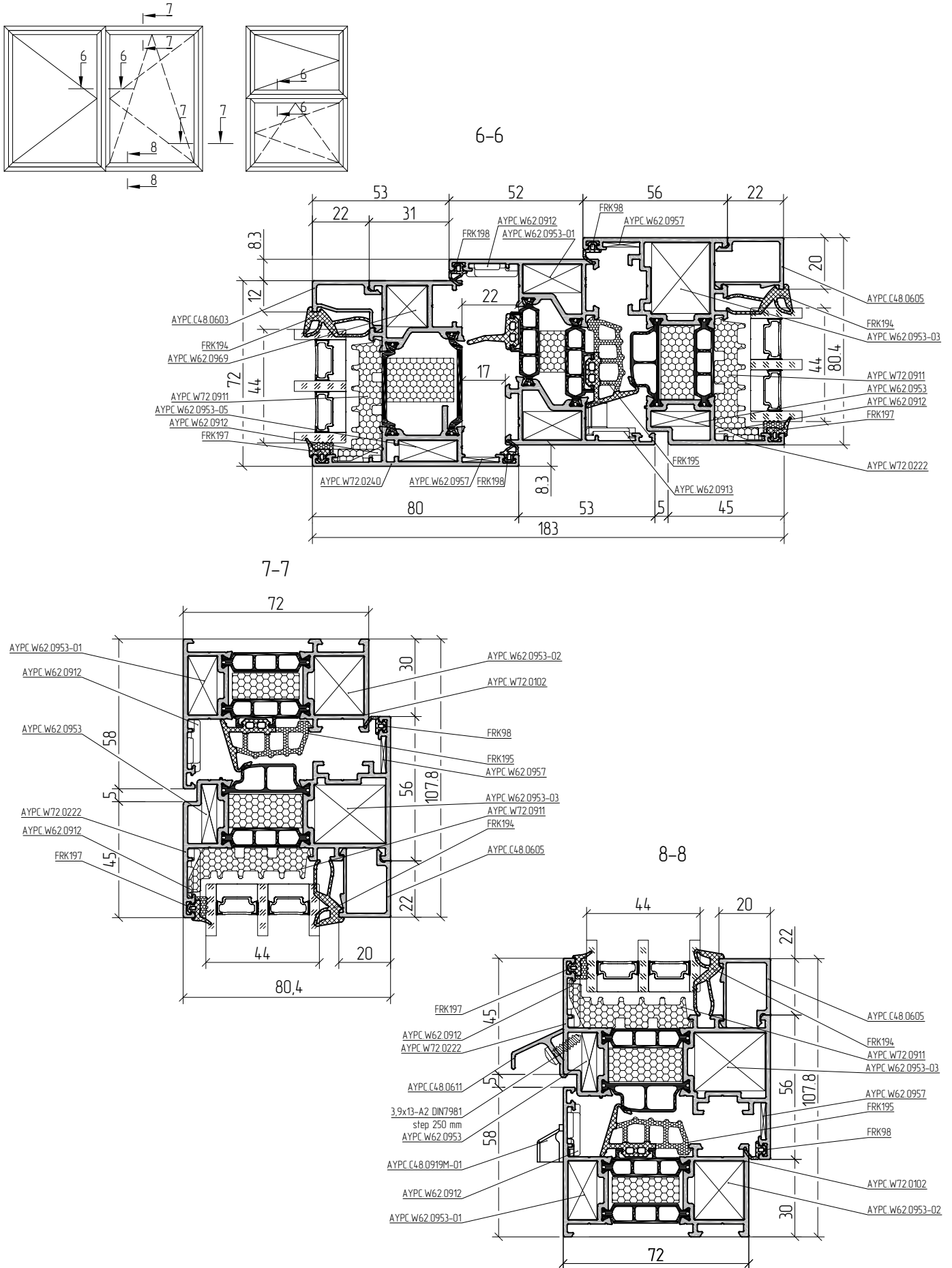
$$U_{fA,B} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{9,050}{20} - 0,701 \cdot 0,236}{0,111} = 2,59 \frac{\text{W}}{\text{m}^2 \cdot \text{K}}$$



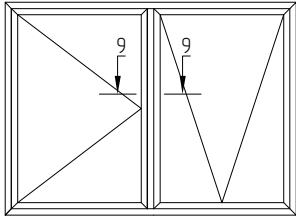
Scale 1:2



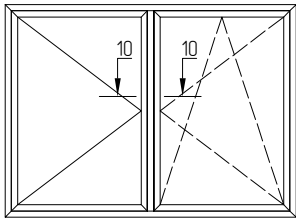
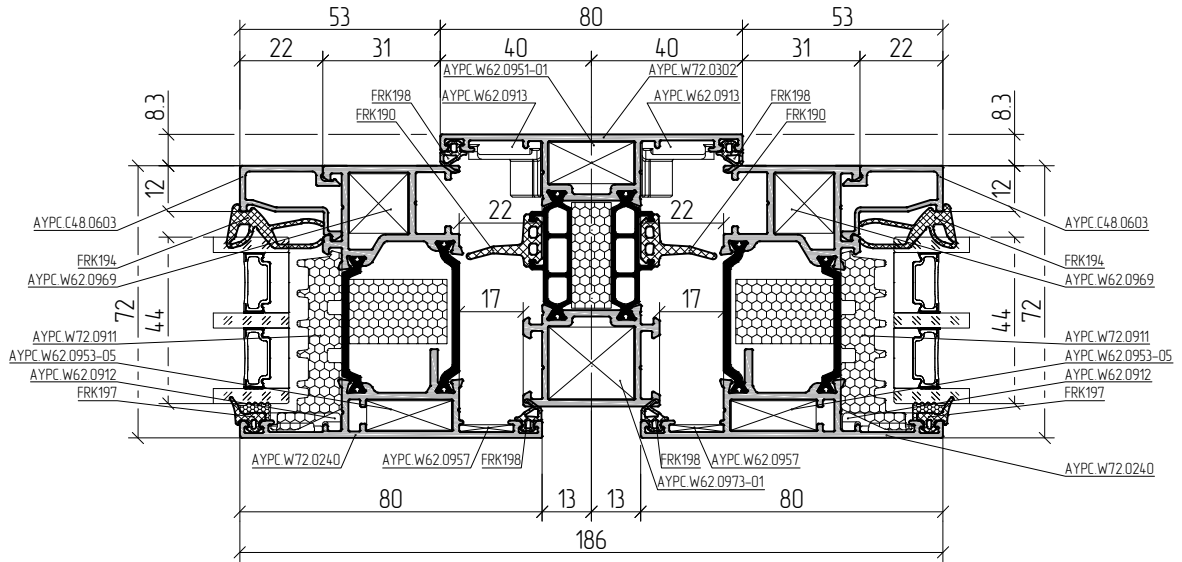




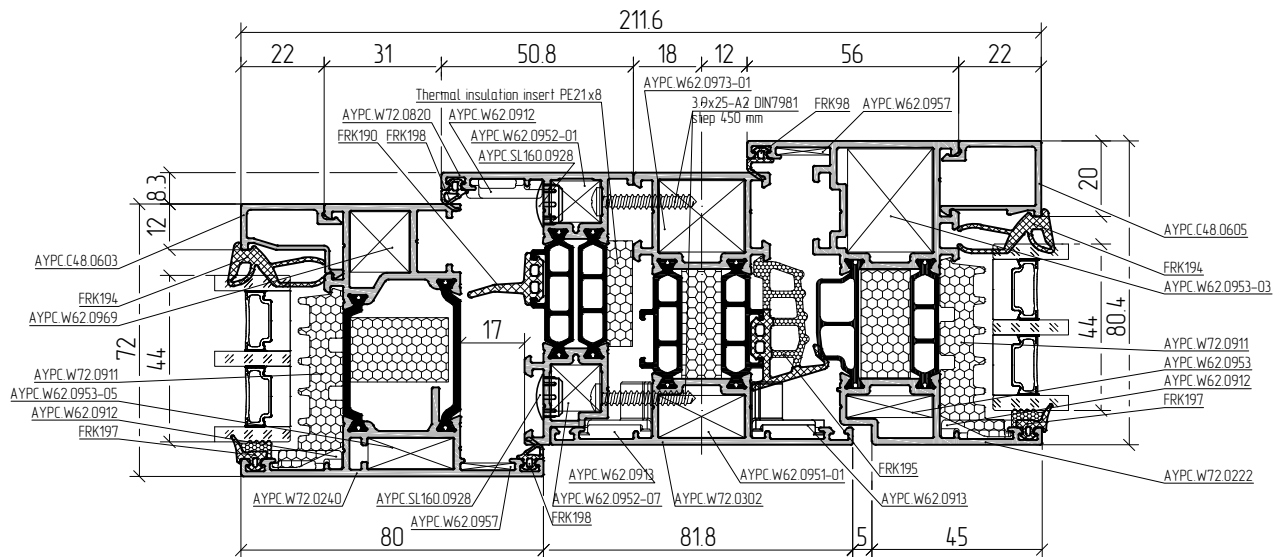
Scale 1:2

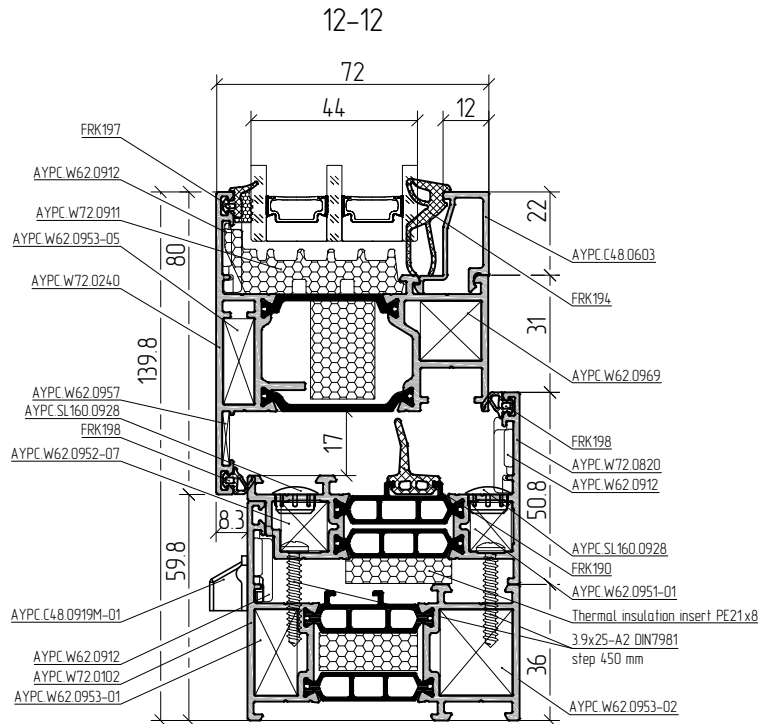
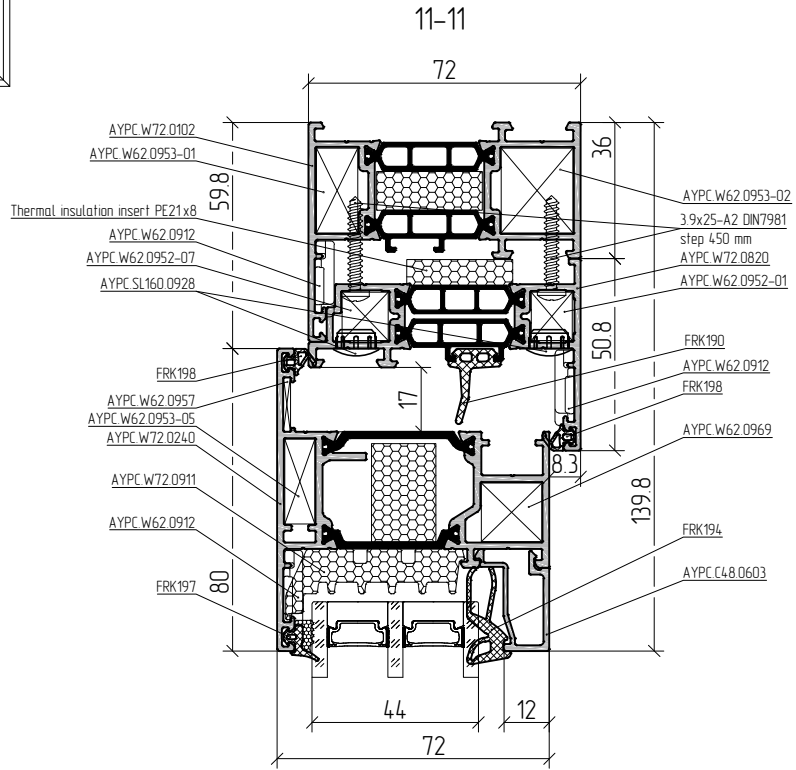
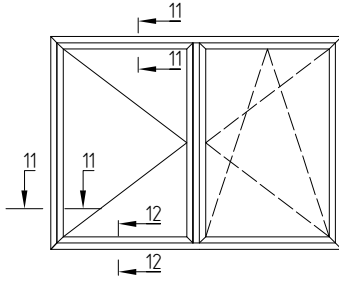


9-9

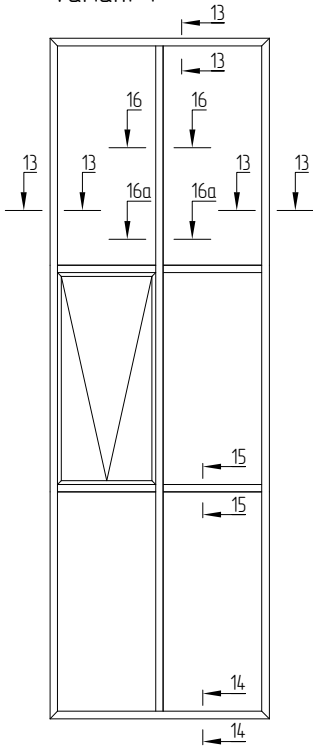


10-10

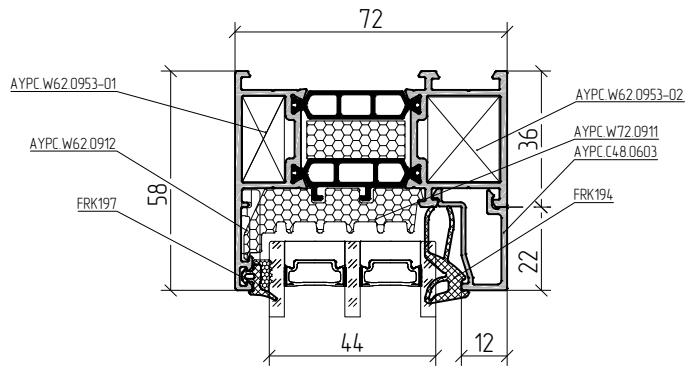




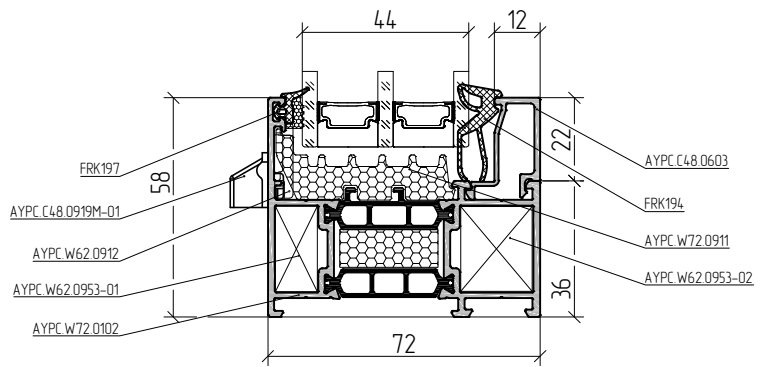
Variant 1



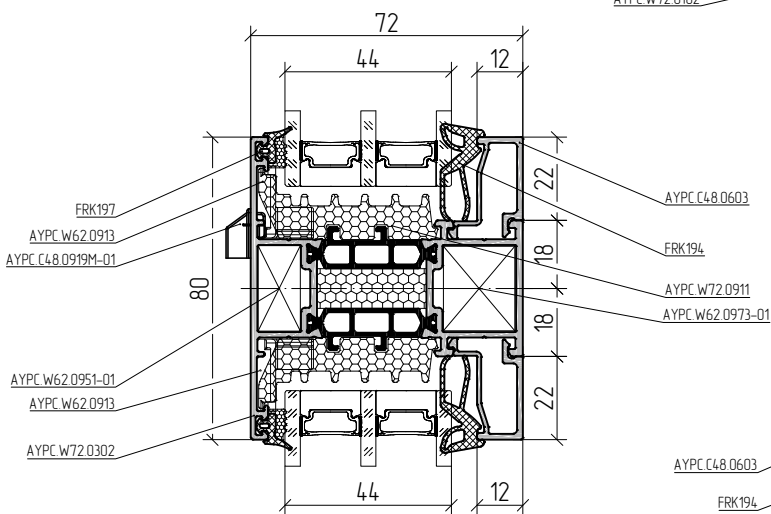
13-13



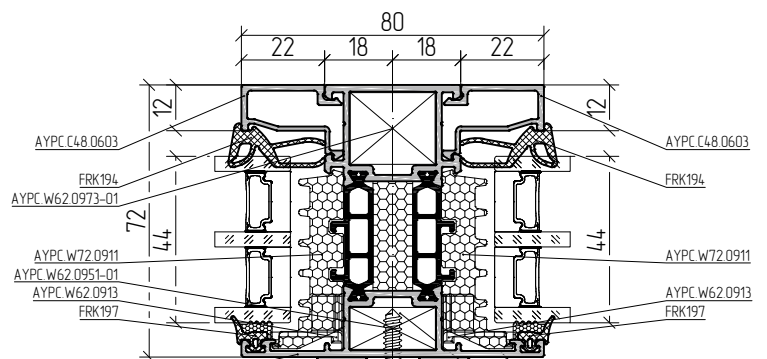
14-14



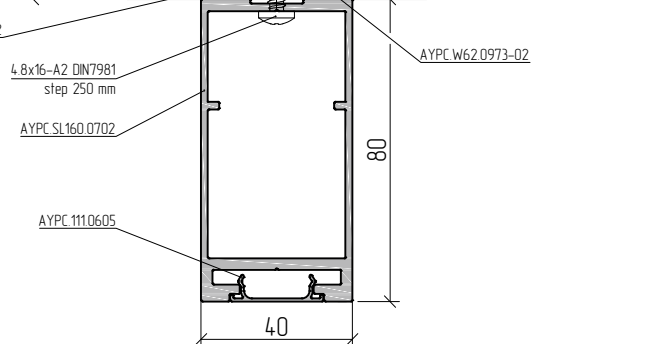
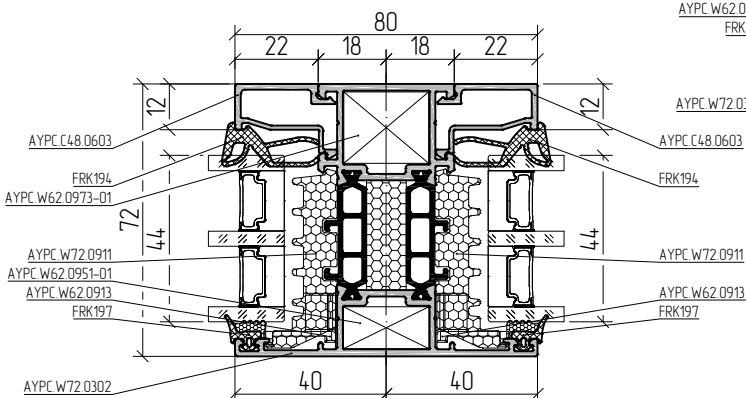
15-15



16a-16a

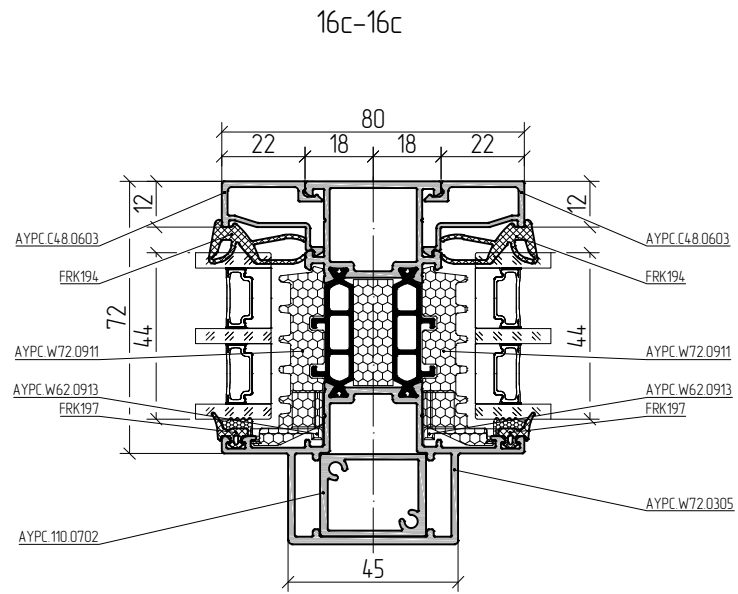
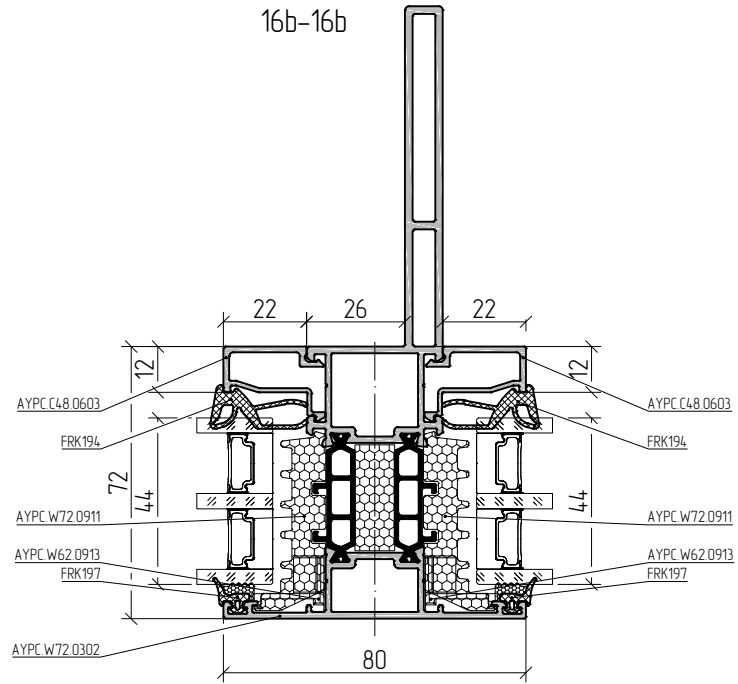
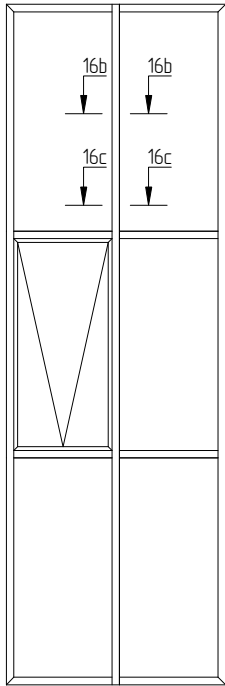


16-16



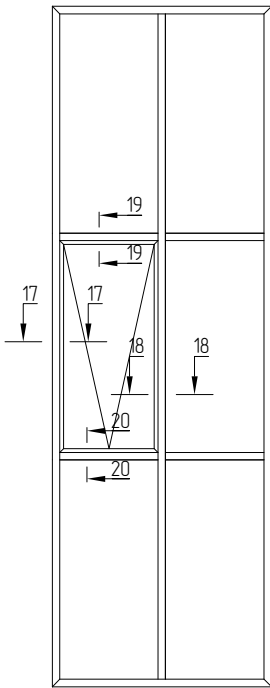
Variant 1

Scale 1:2

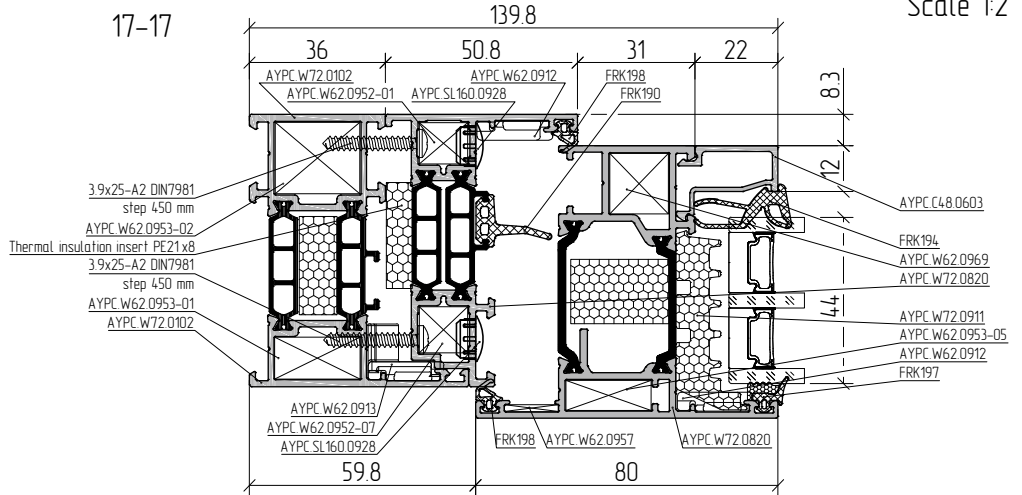


Variant 1

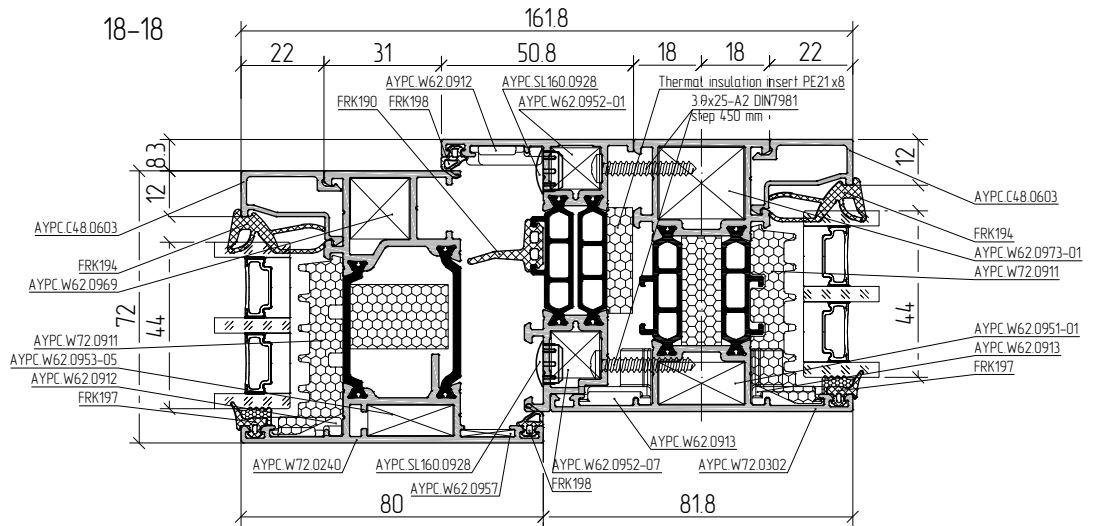
Scale 1:2



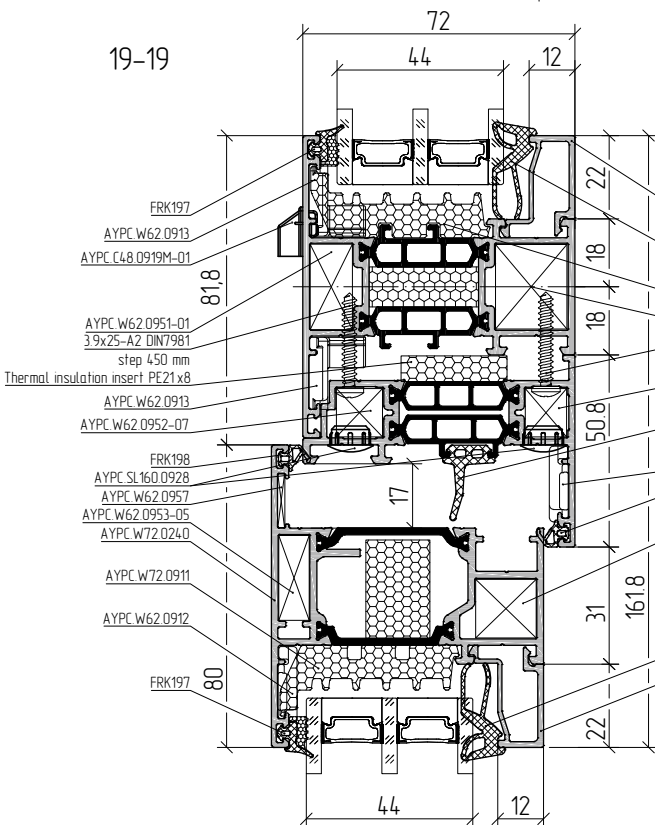
17-17



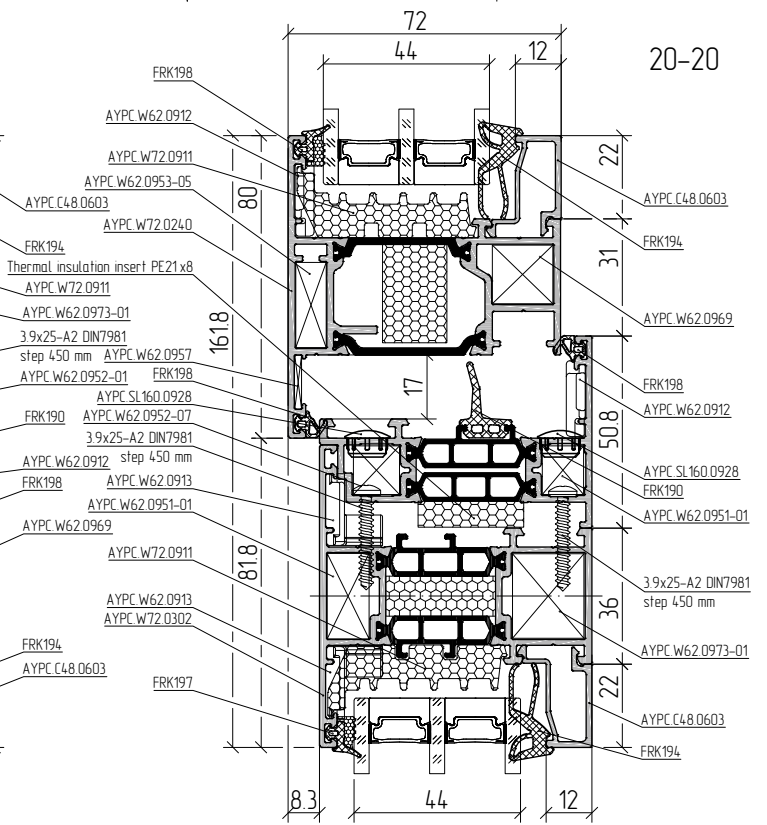
18-18



19-19



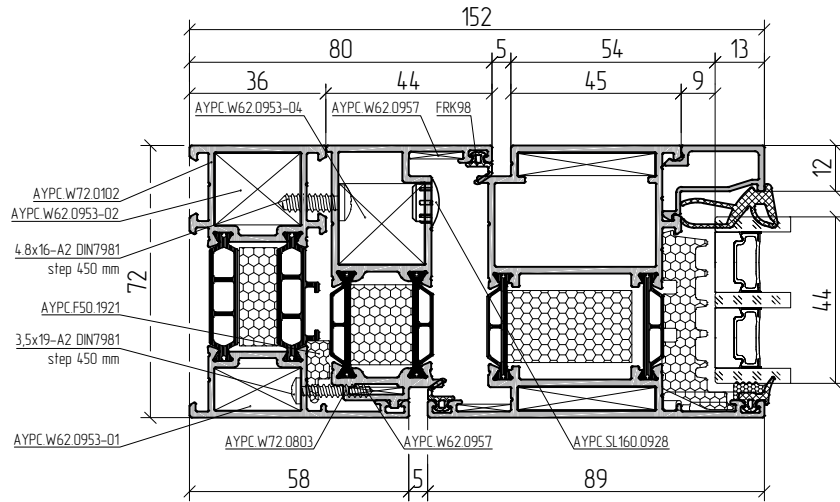
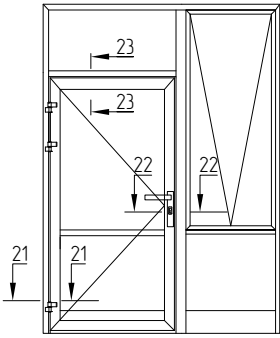
20-20



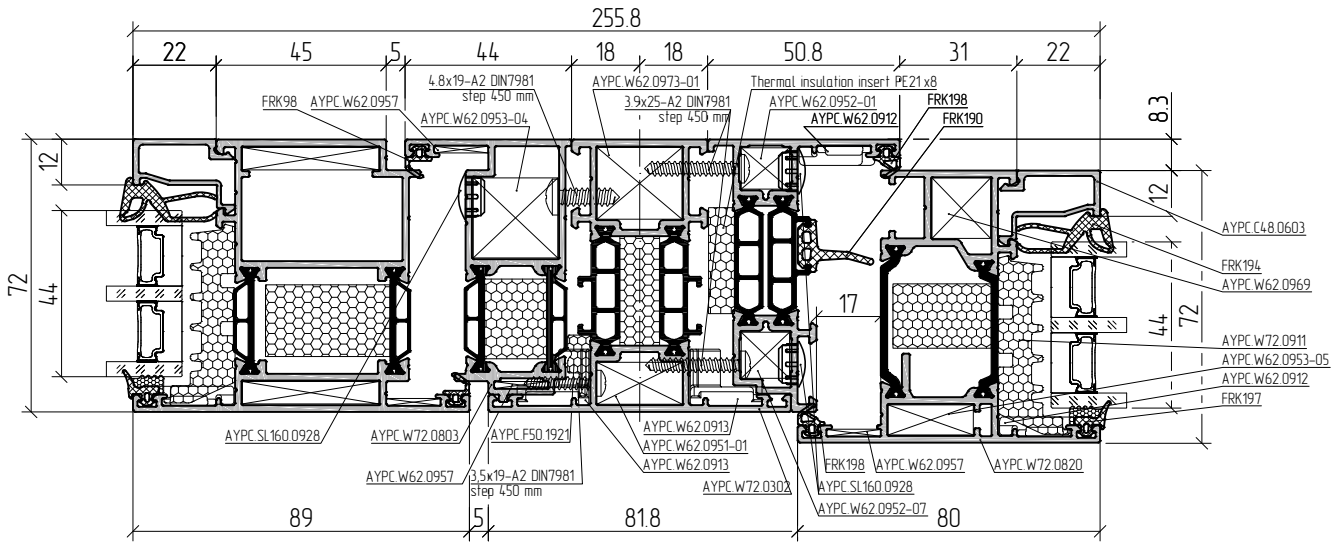
Variant 1

21-21

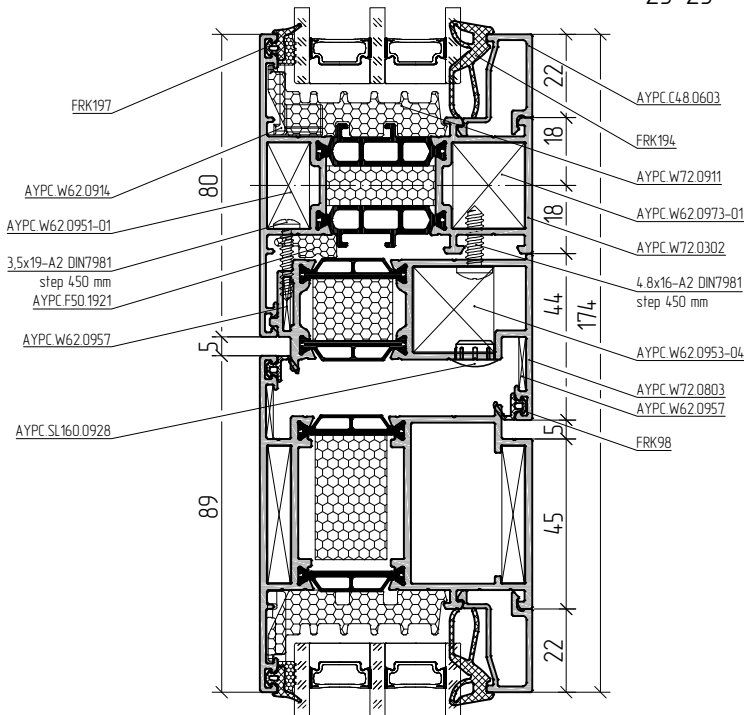
Scale 1:2



22-22



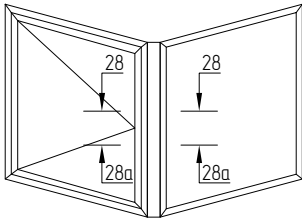
23-23



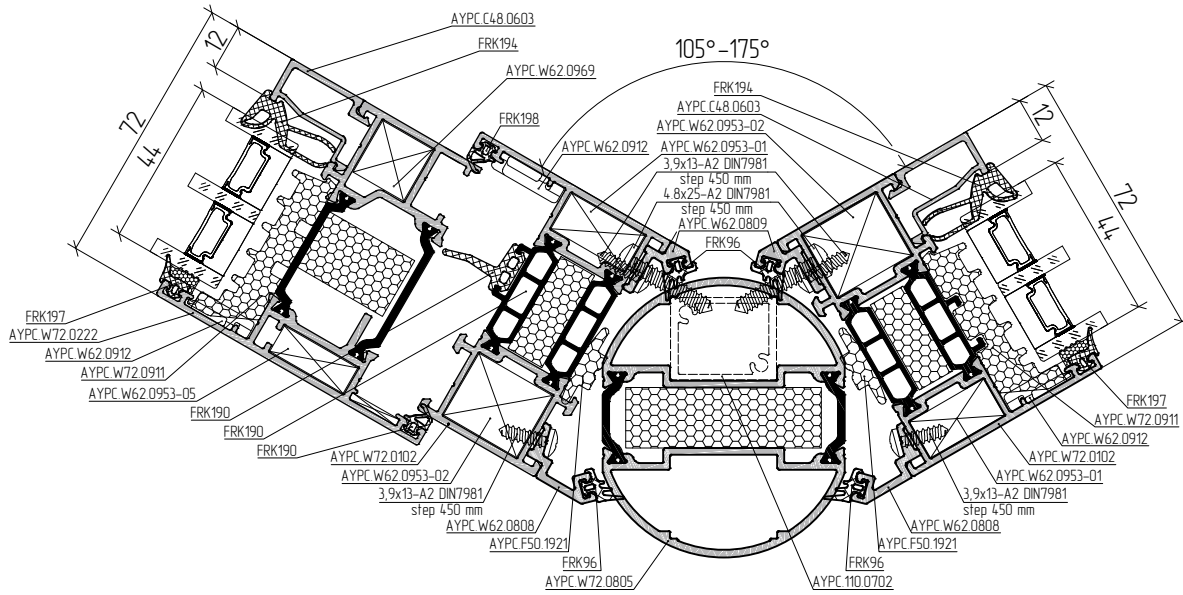




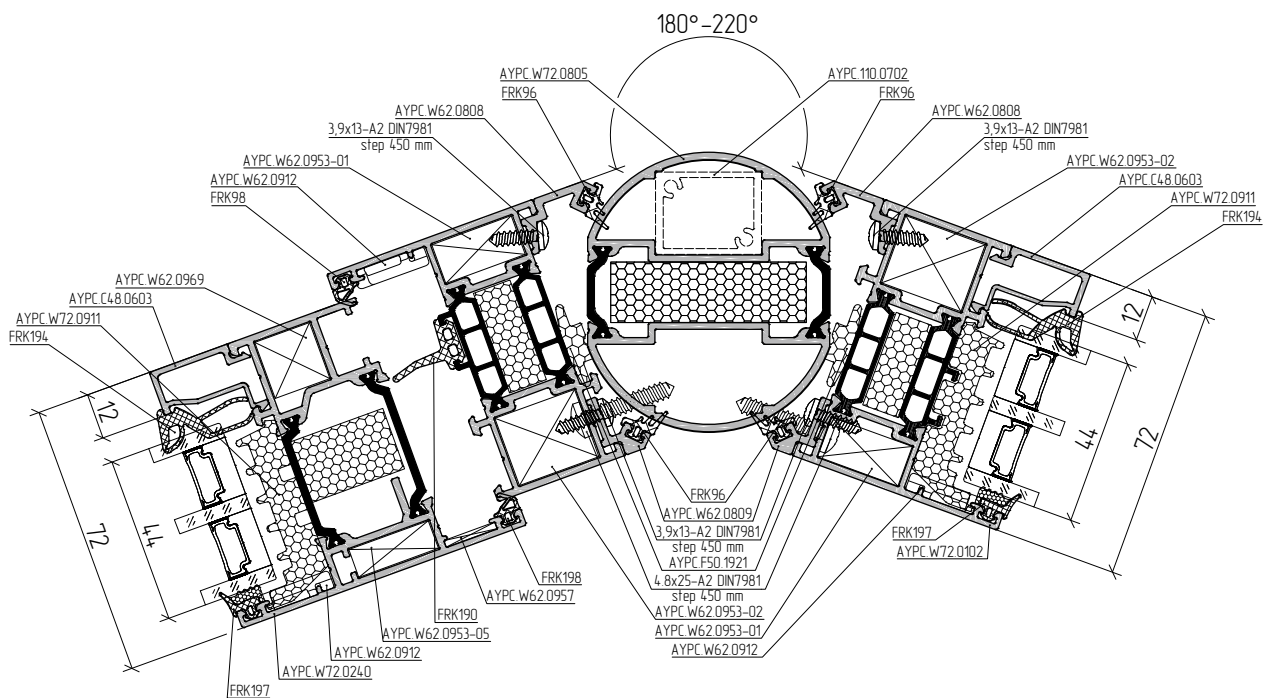


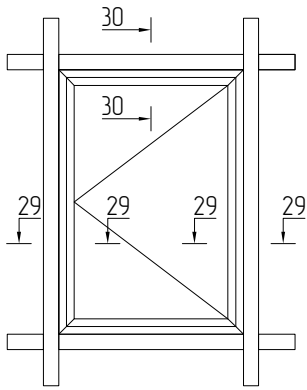


28-28

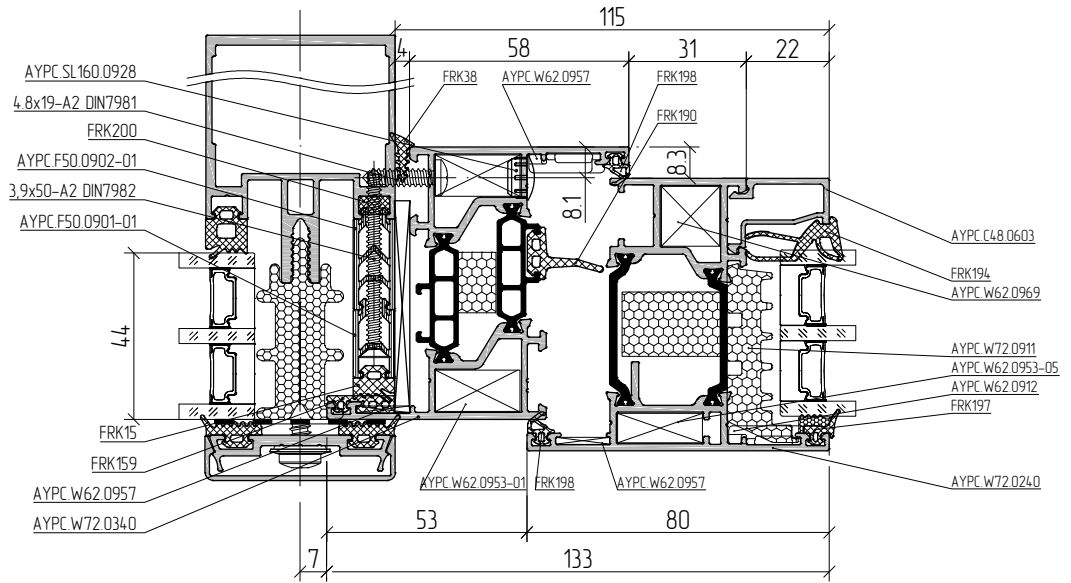


28a-28a

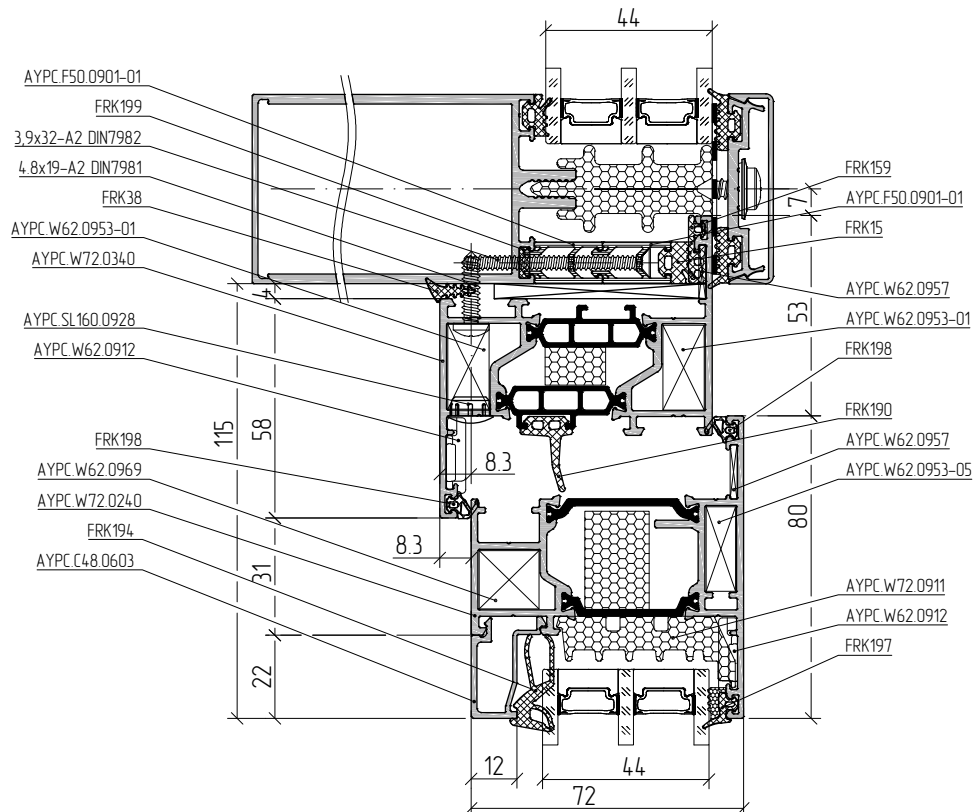




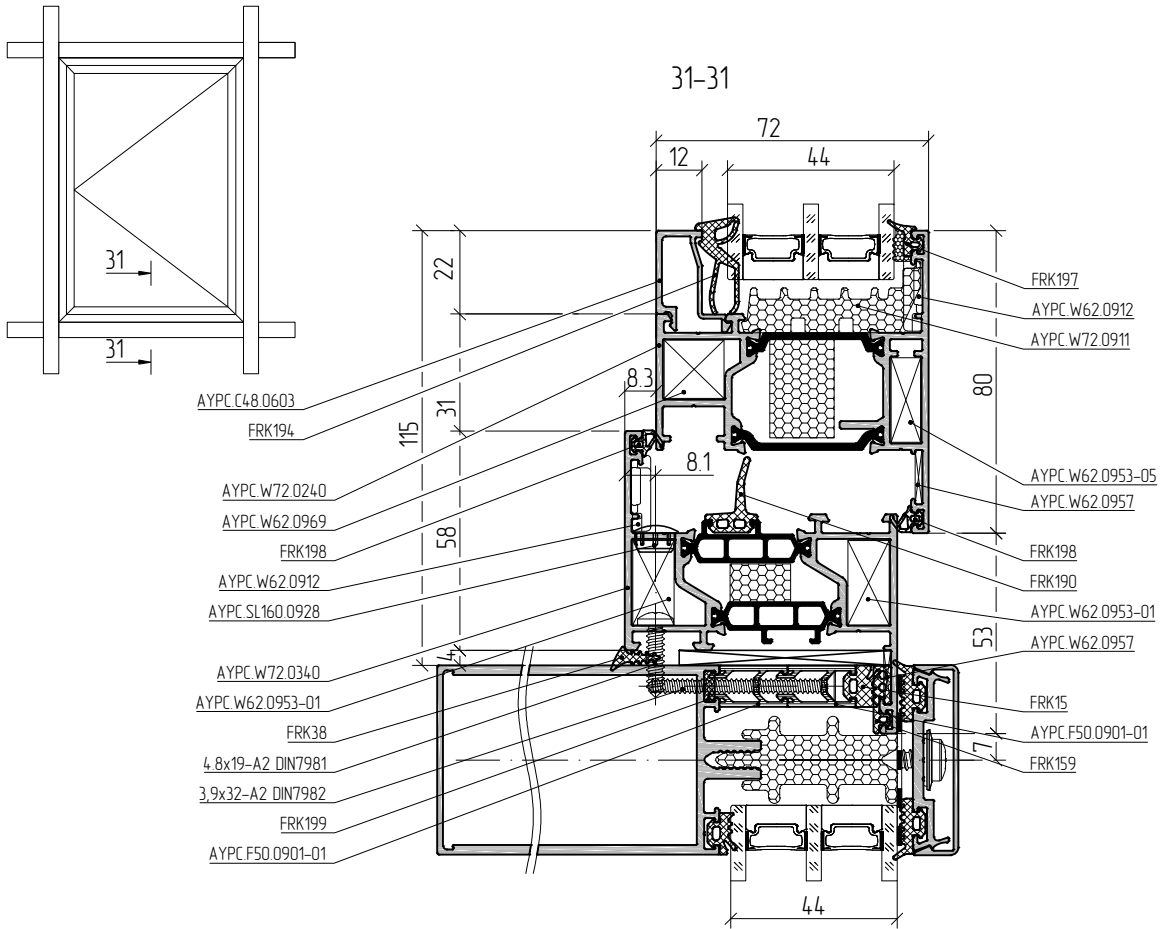
29-29

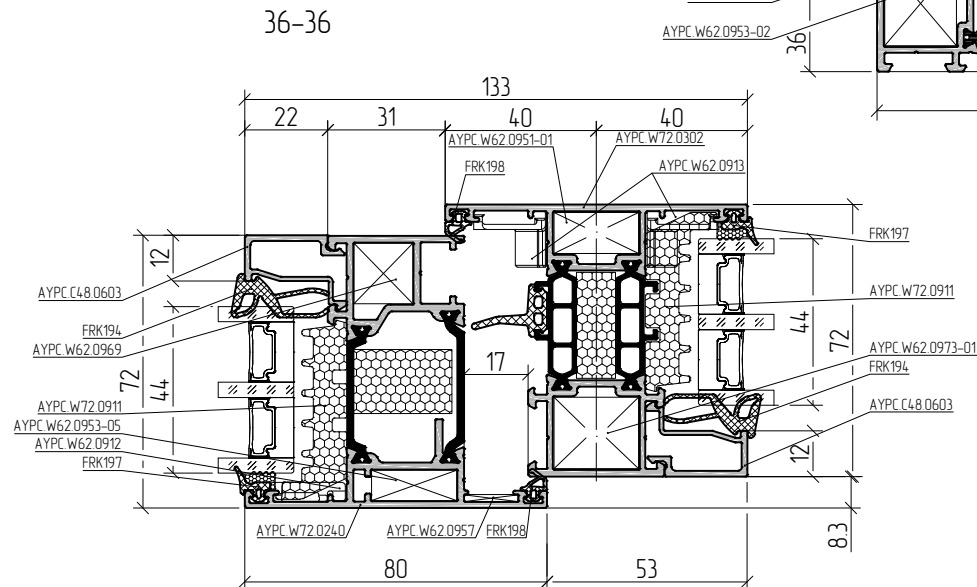
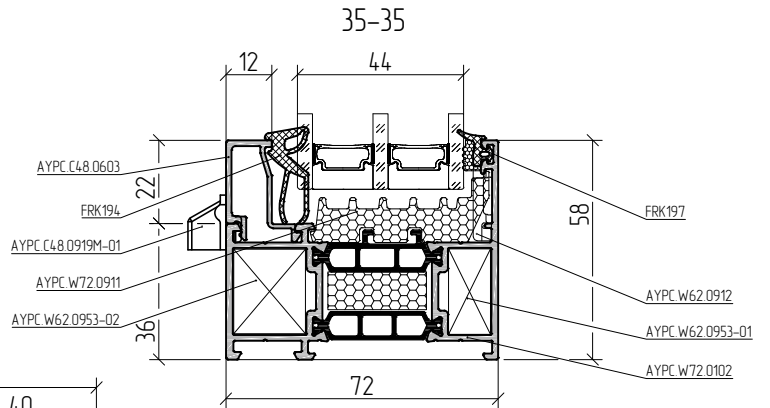
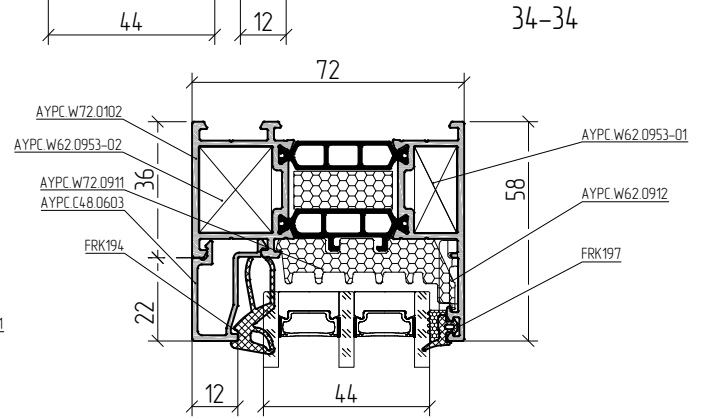
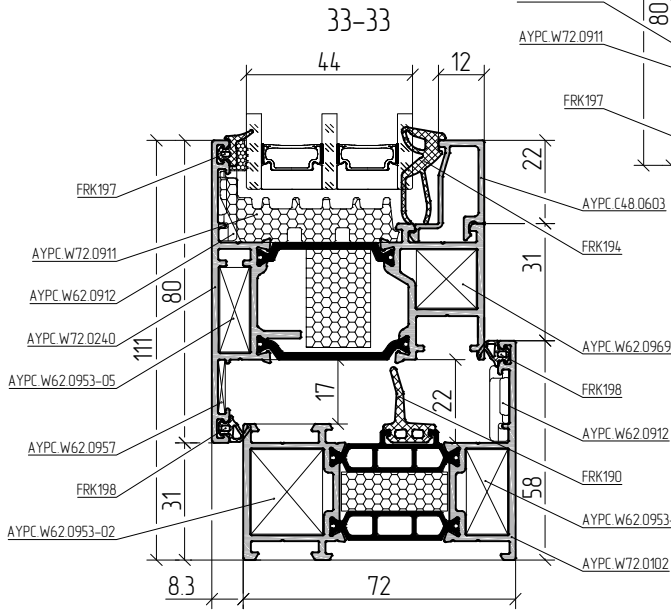
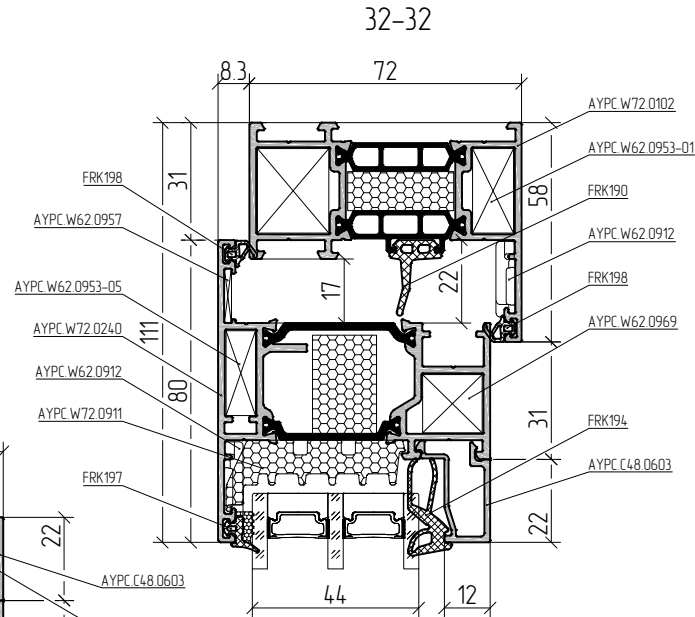
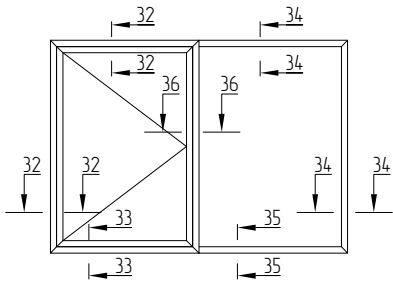


30-30

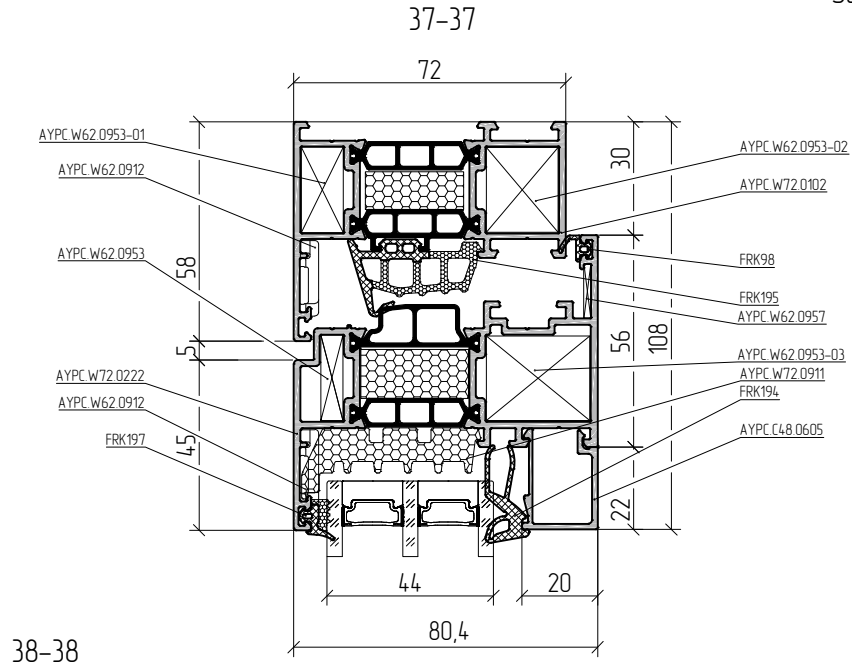
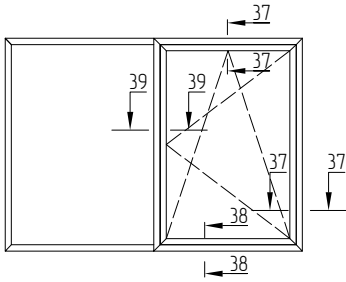


Scale 1:2

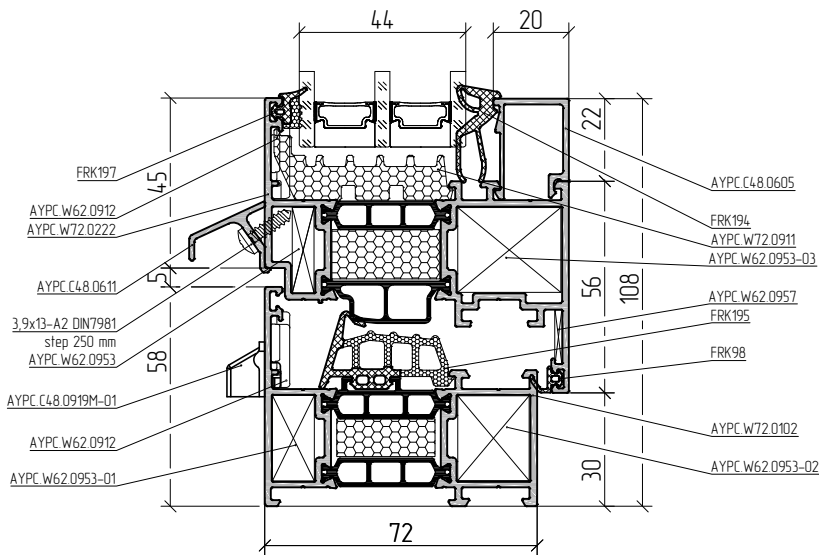




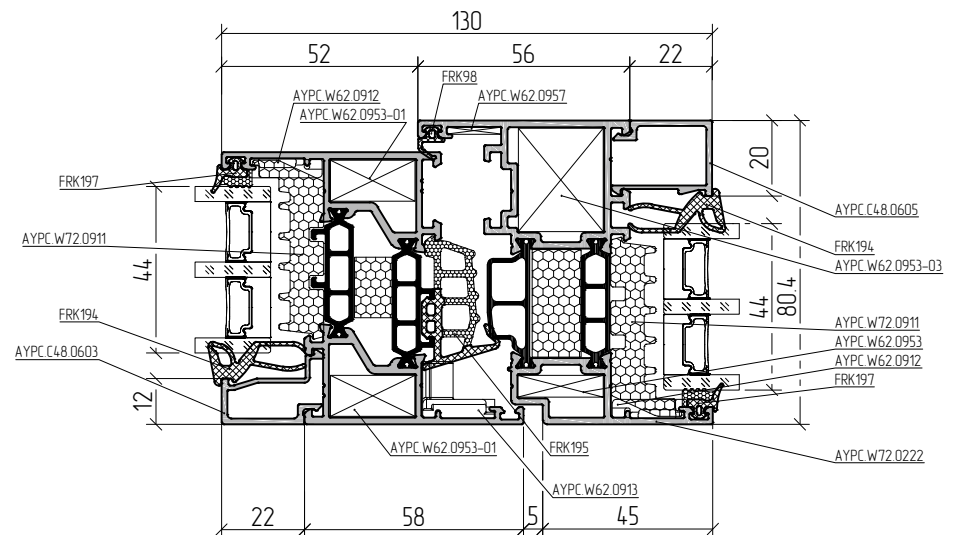
Scale 1:2



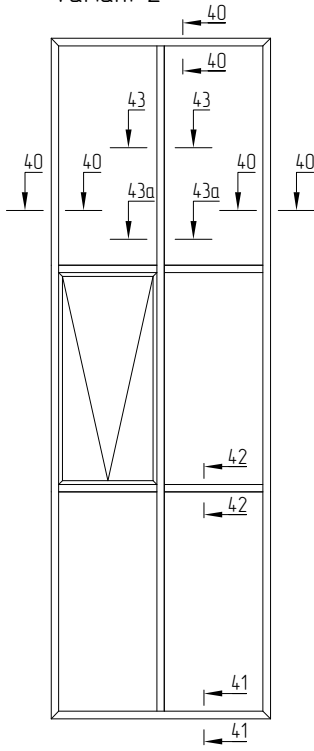
38-38



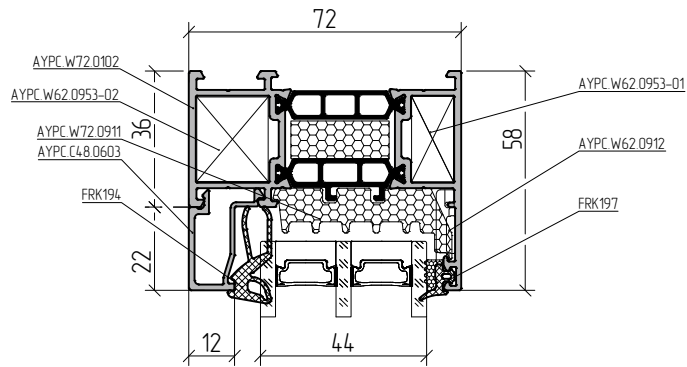
39-39



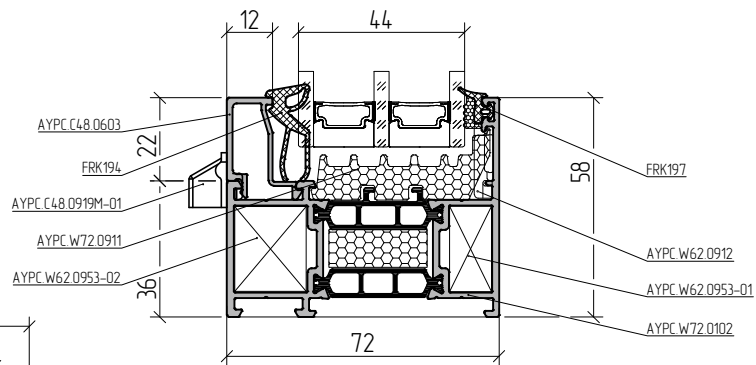
Variant 2



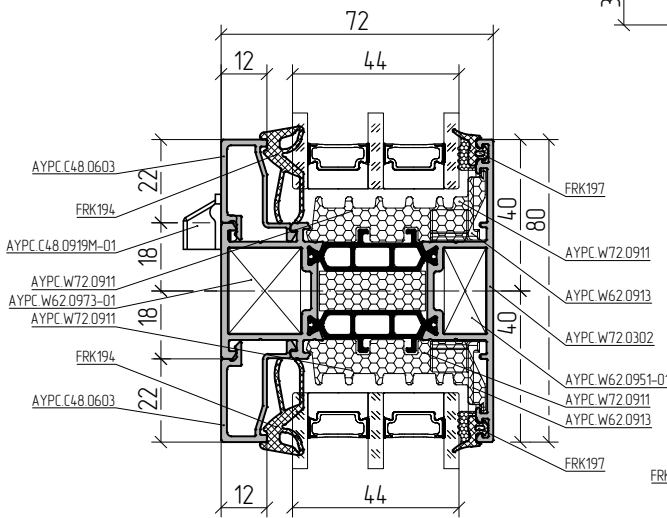
40-40



41-41

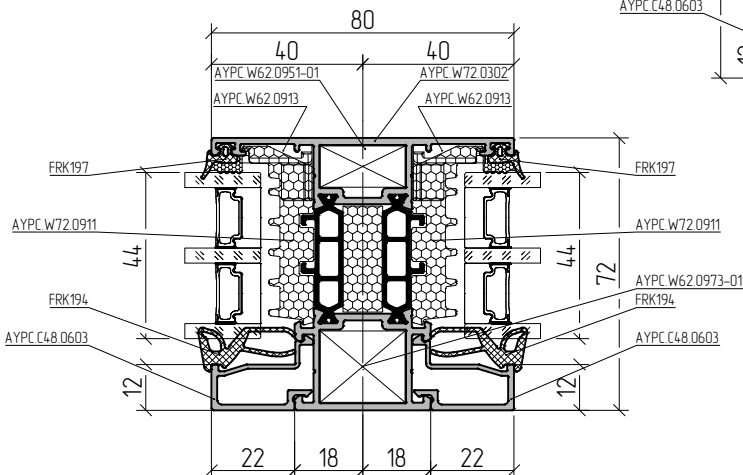


42-42

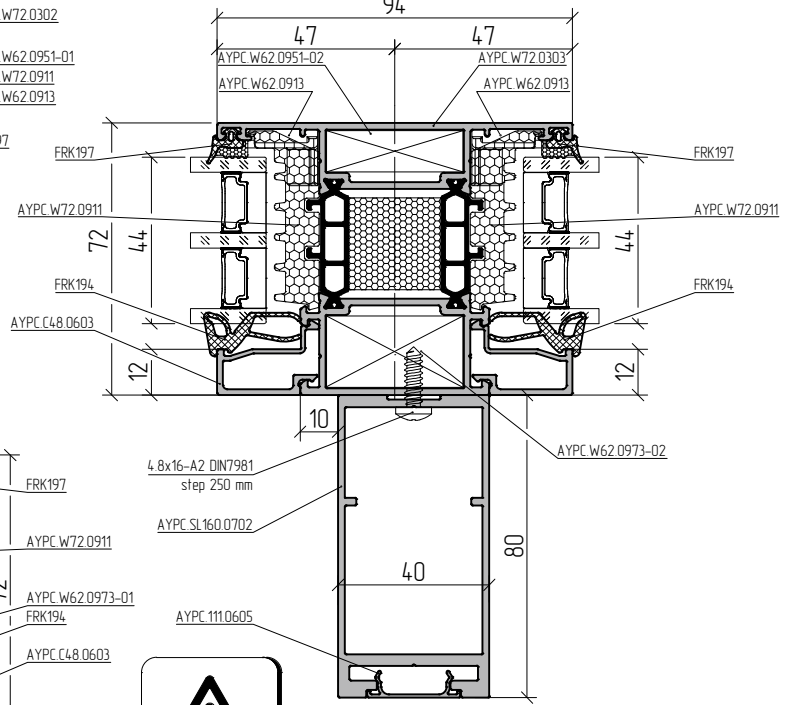


This option can not be applied to PAS 24

43-43



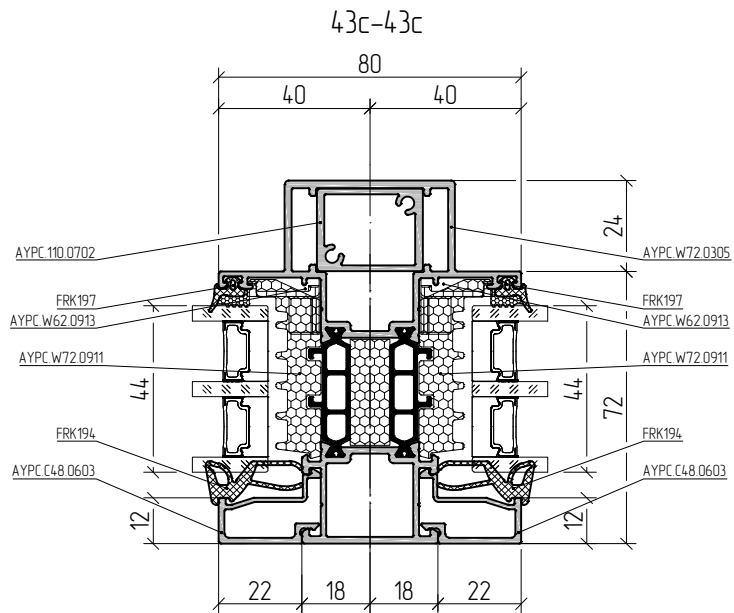
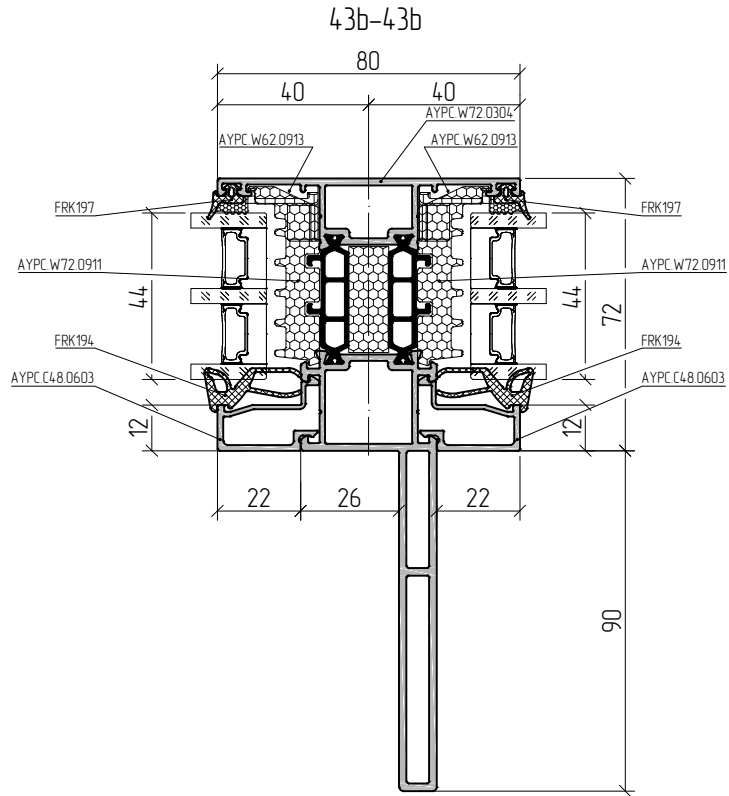
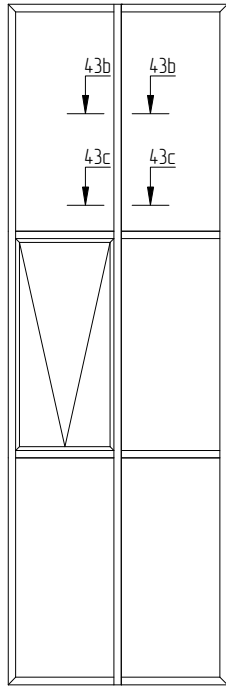
43a-43a



Do not use with AYP C.W72.0301, AYP C.W72.0302 profiles.

Variant 2

Scale 1:2

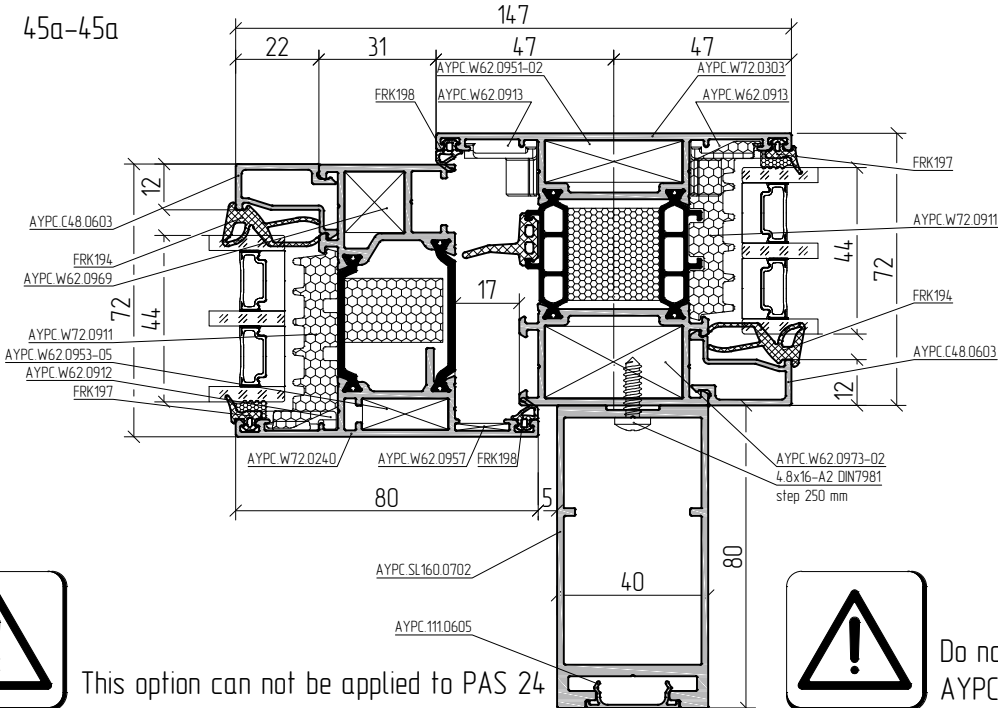
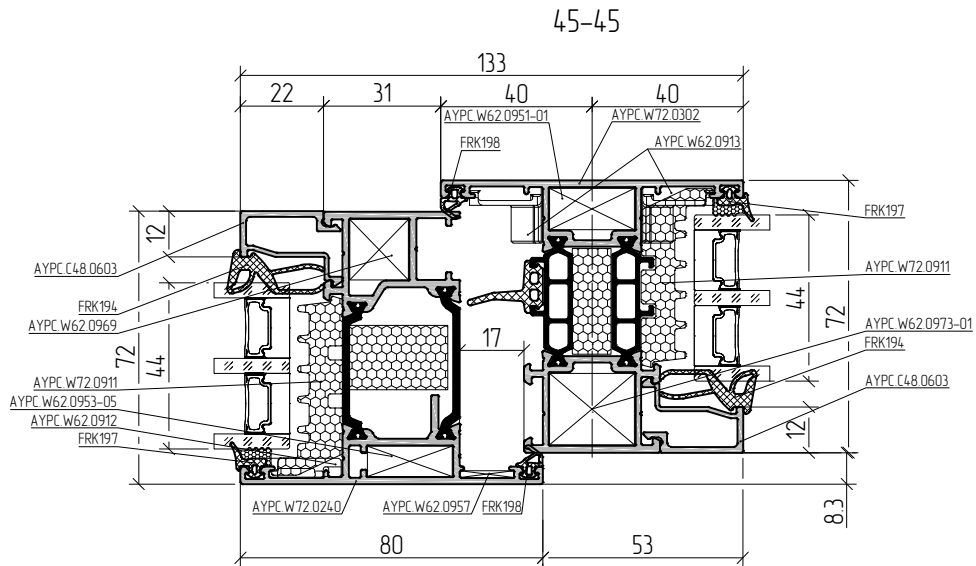
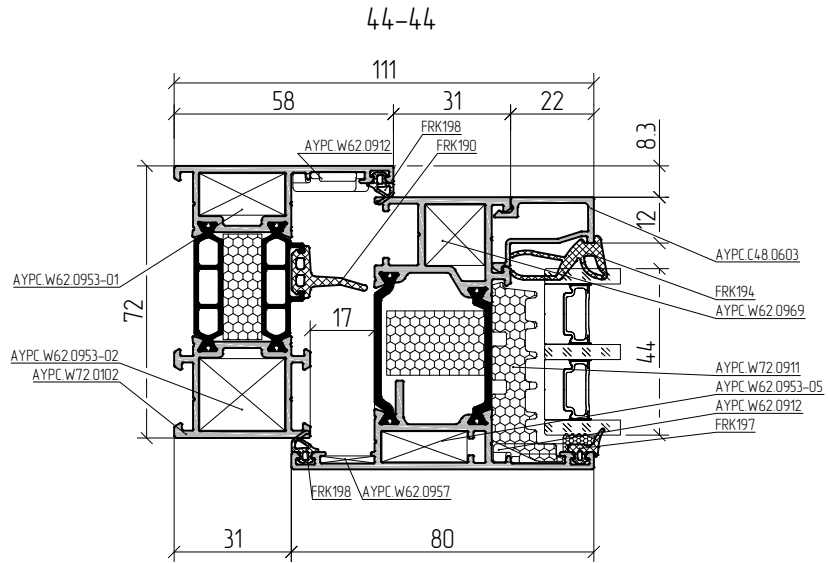
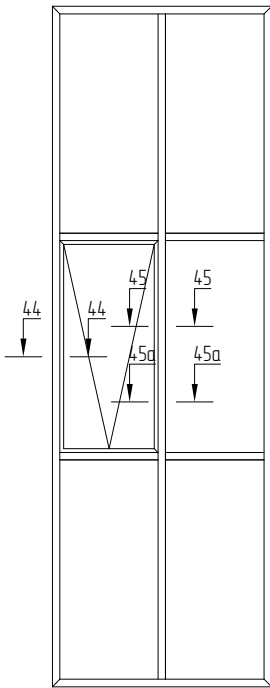


This option can not be applied to PAS 24



Variant 2

Scale 1:2



This option can not be applied to PAS 24

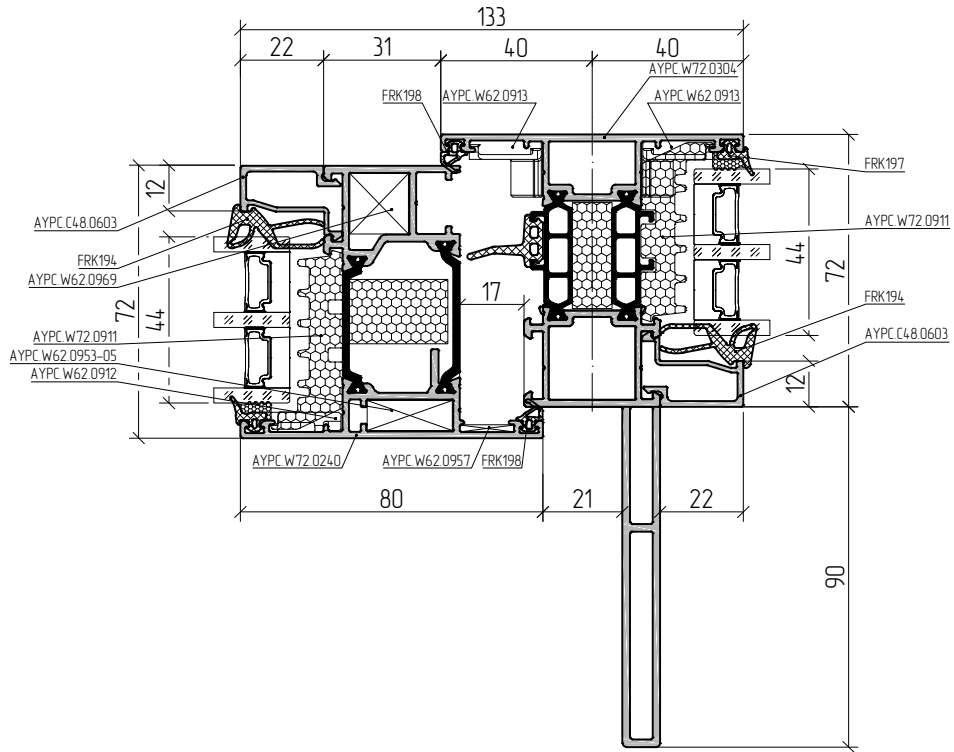
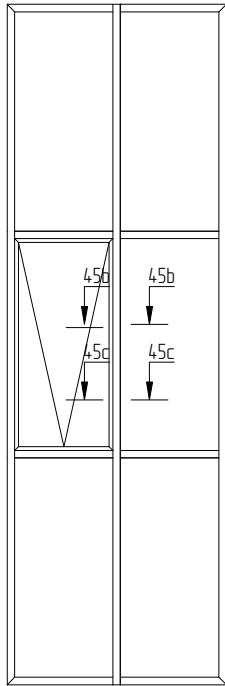


Do not use with AYPC.W72.0301, AYPC.W72.0302 profiles.

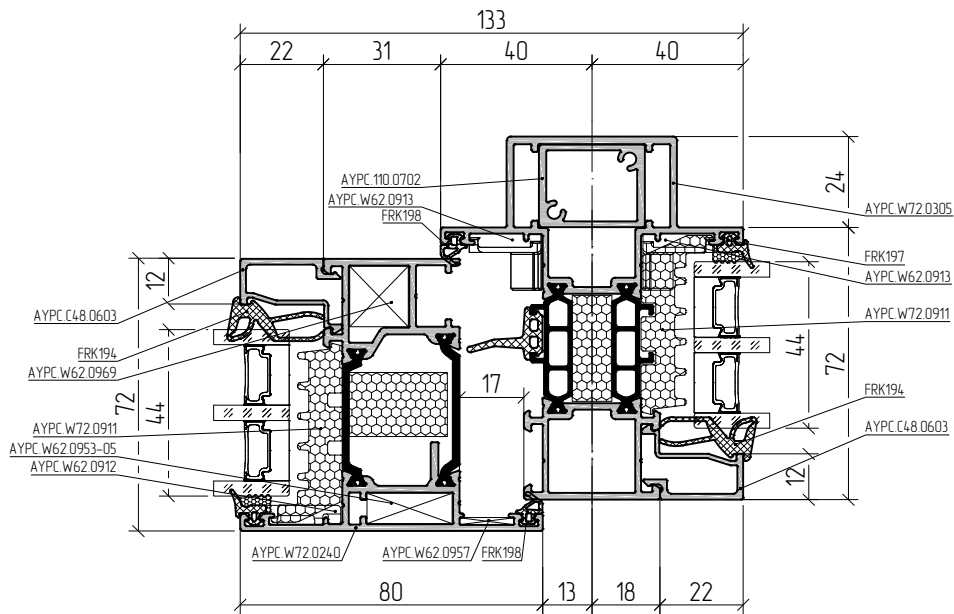
Variant 2

45b-45b

Scale 1:2



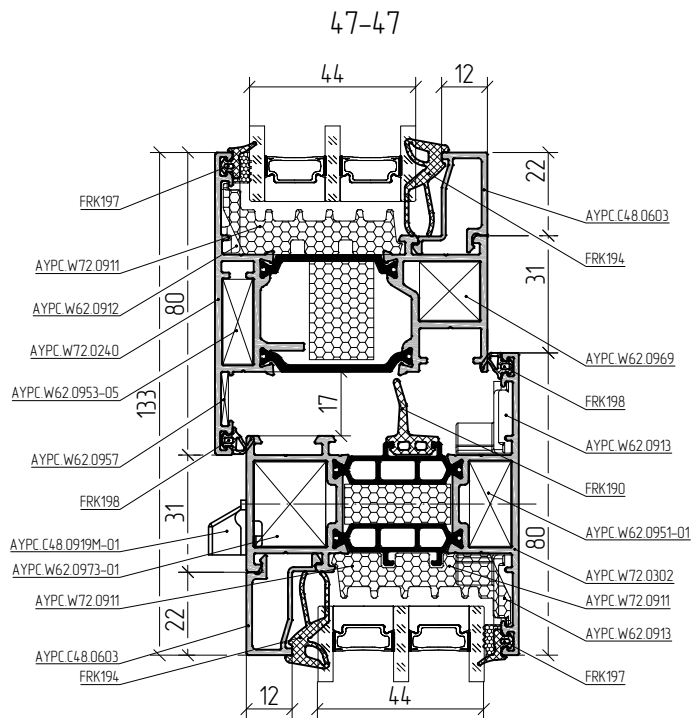
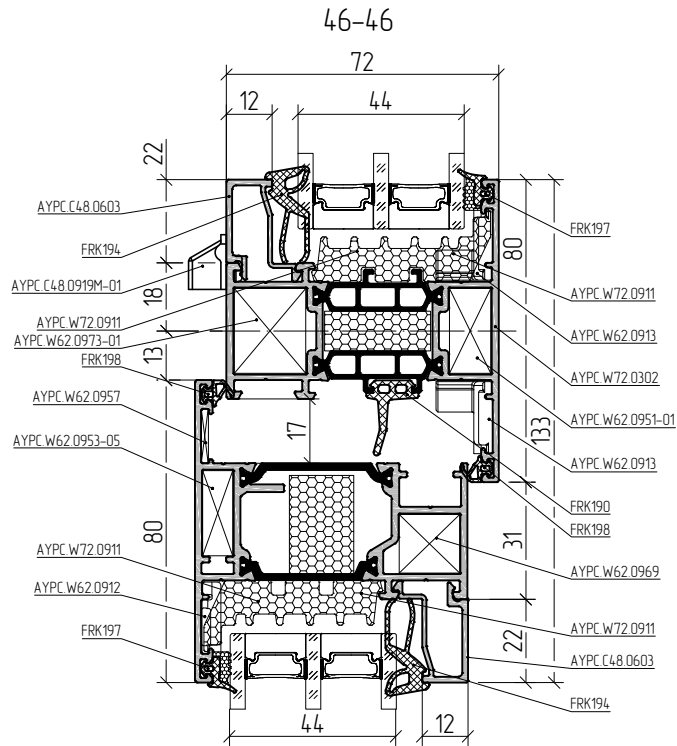
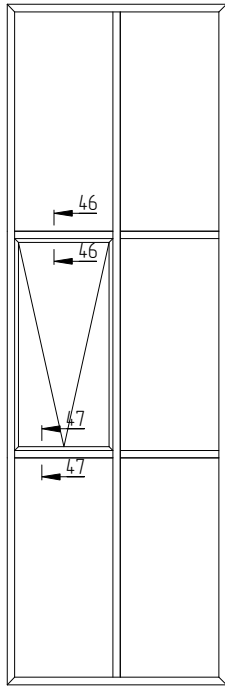
45c-45c



This option can not be applied to PAS 24

Scale 1:2

Variant 2

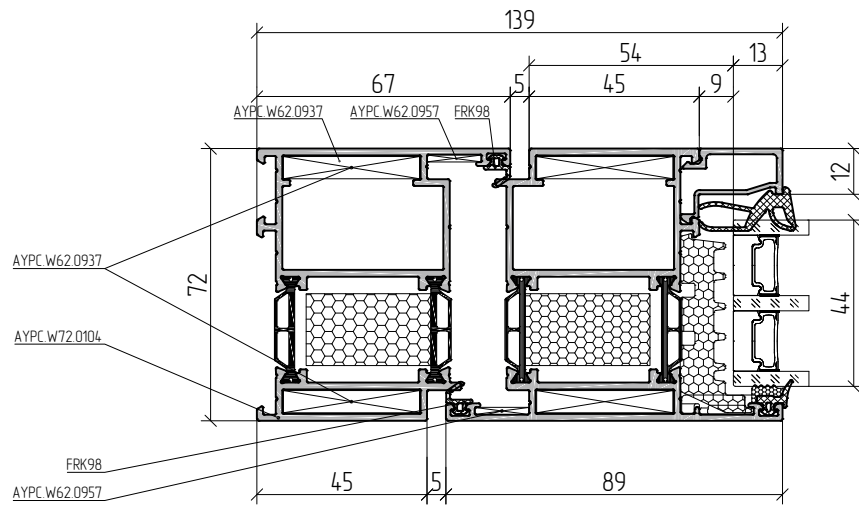
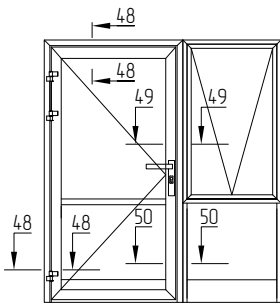


This option can not be applied to PAS 24

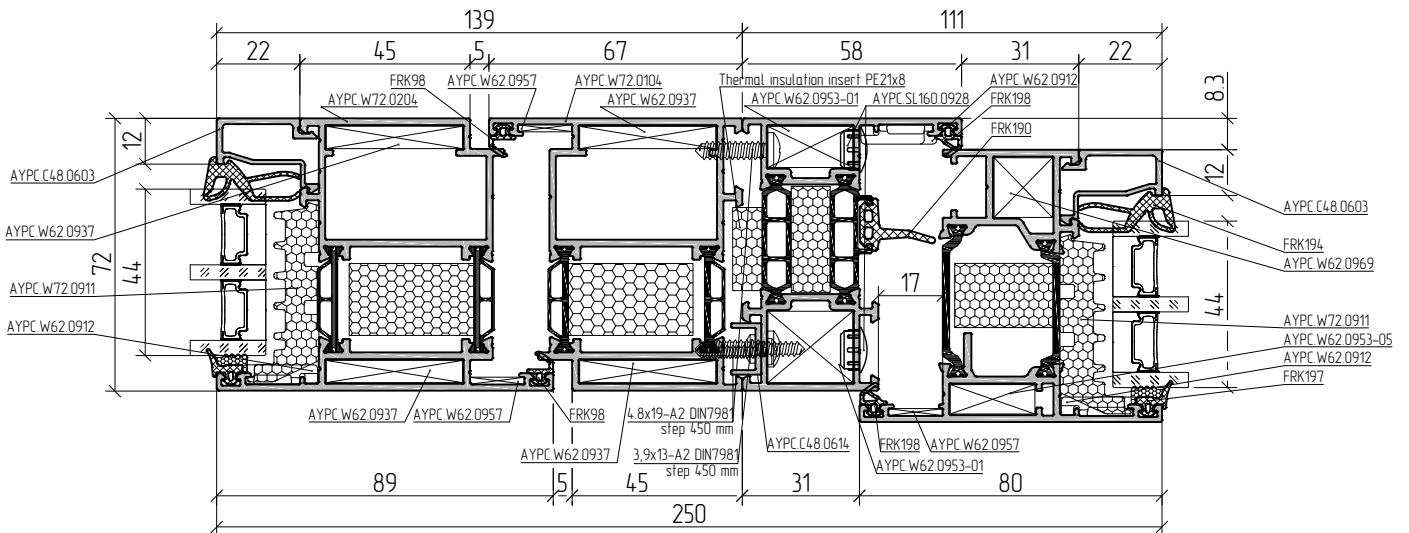
Variant 2

48-48

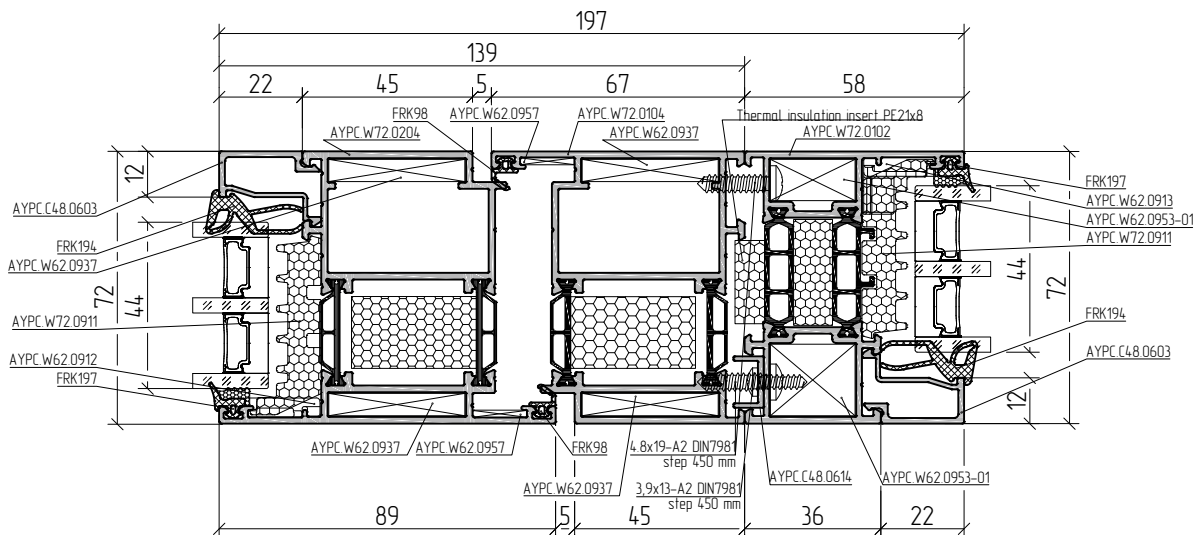
Scale 1:2



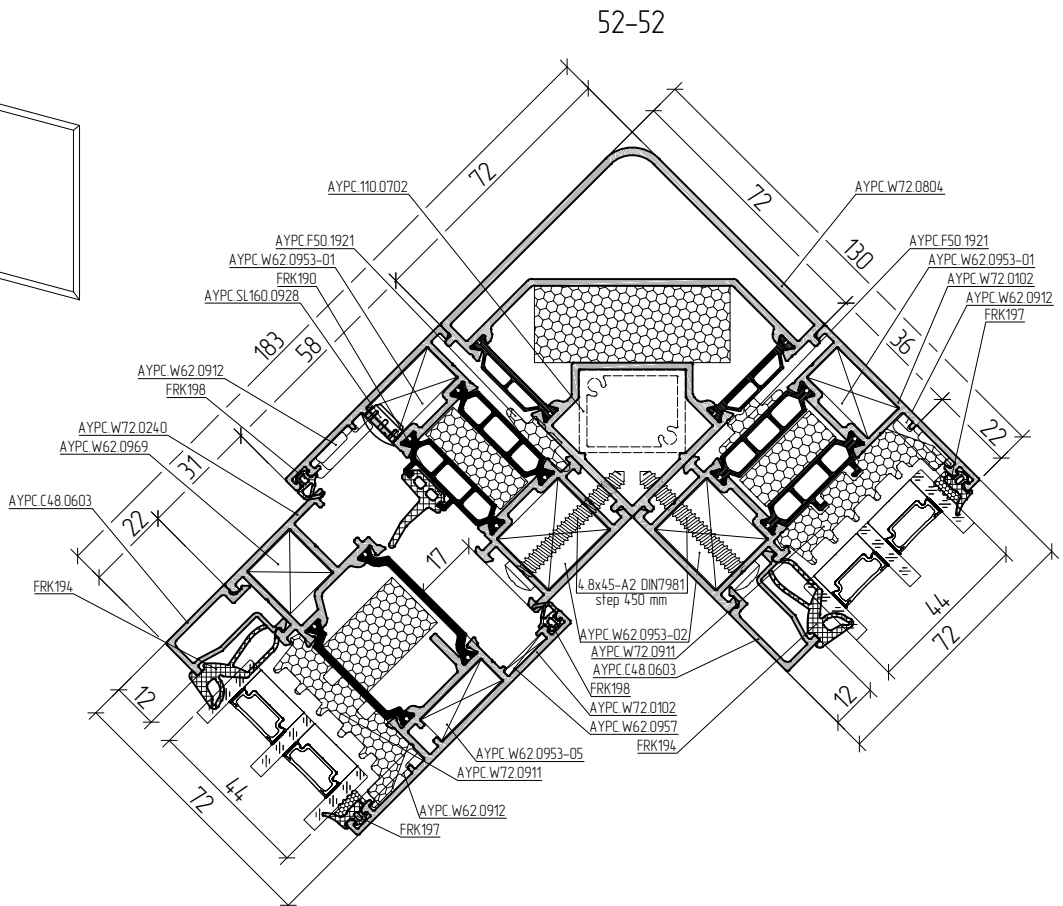
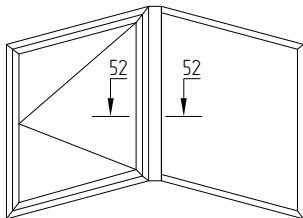
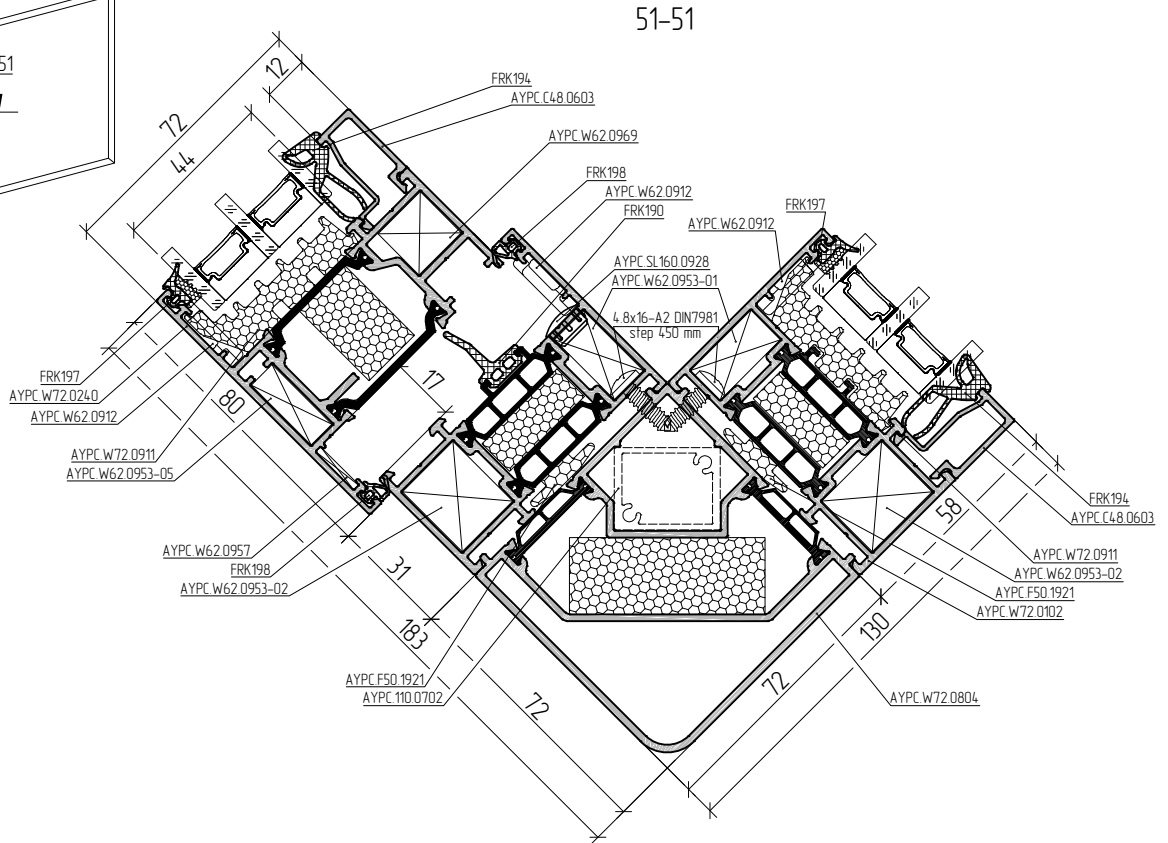
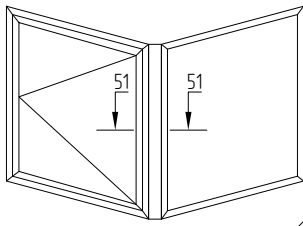
49-49



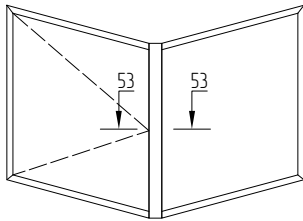
50-50



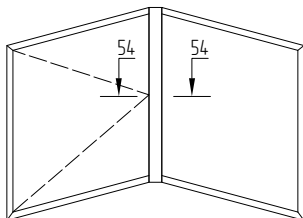
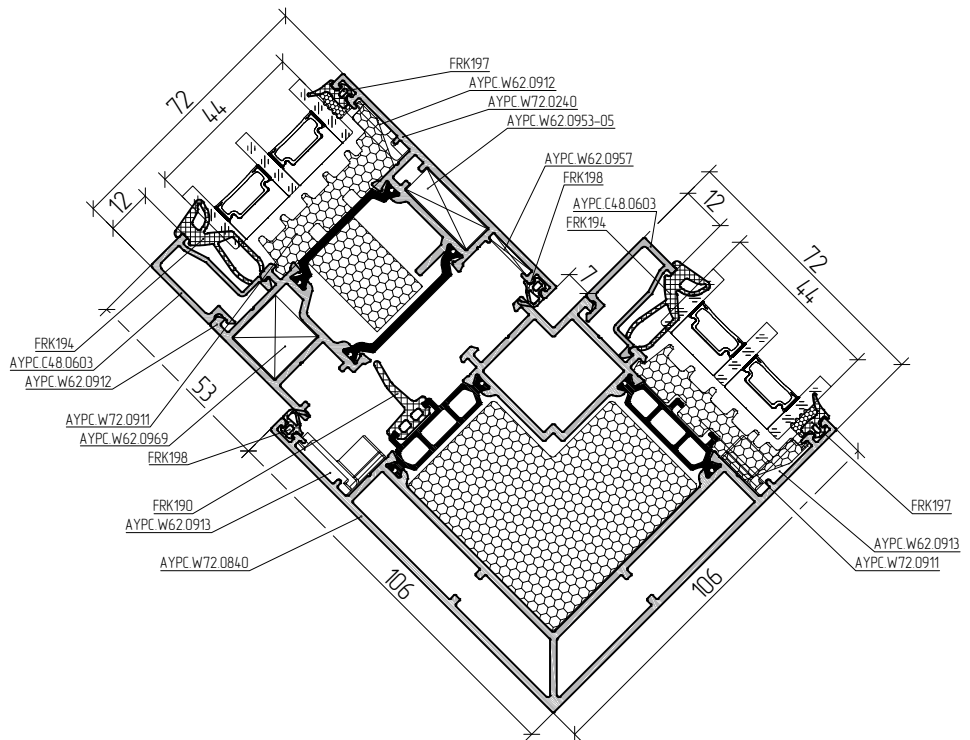
01  
02  
03  
04  
05  
06  
**07**  
08  
09  
10  
11  
12



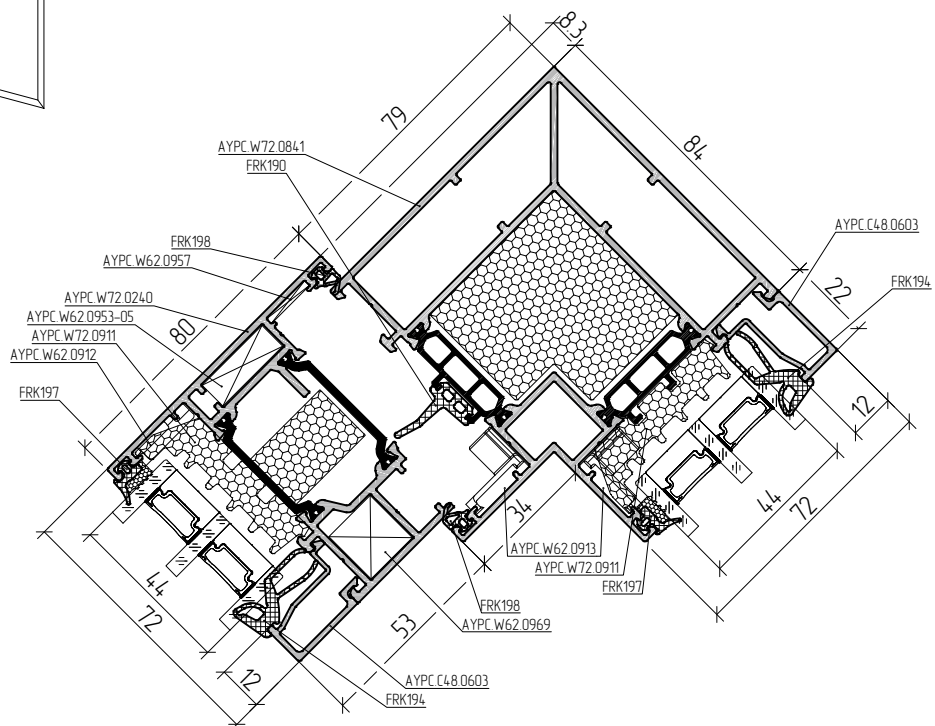
This option can not be applied to PAS 24



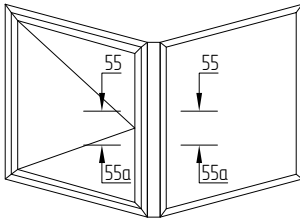
53-53



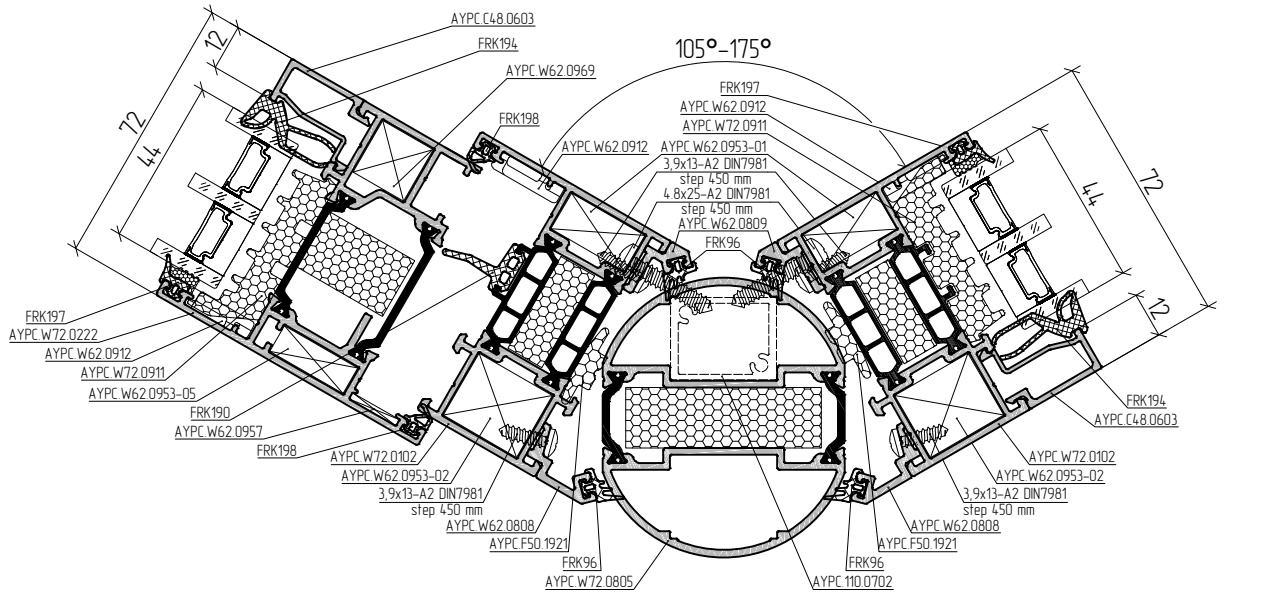
54-54



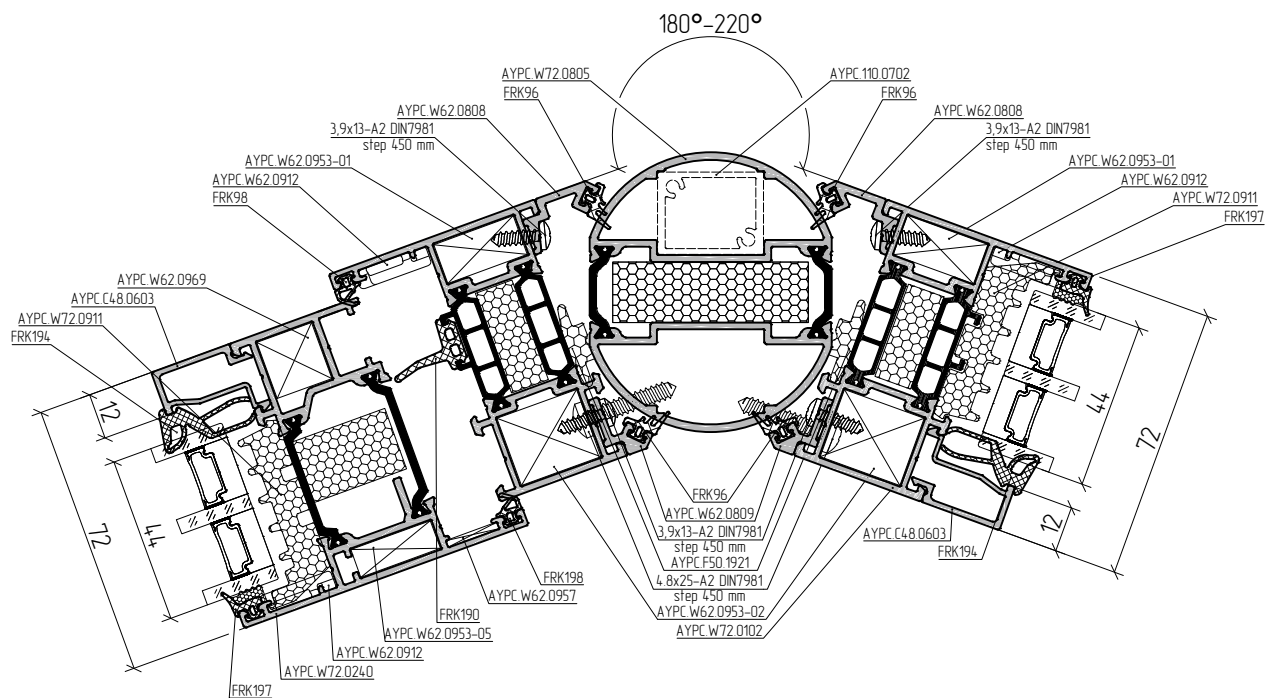
This option can not be applied to PAS 24

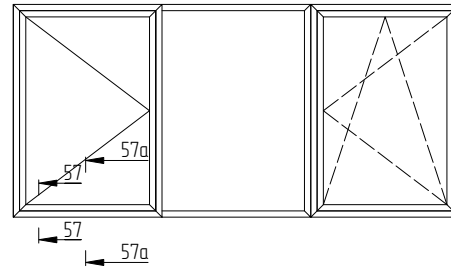
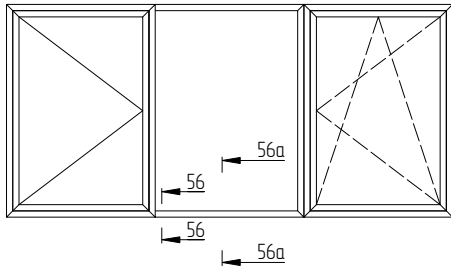


55-55



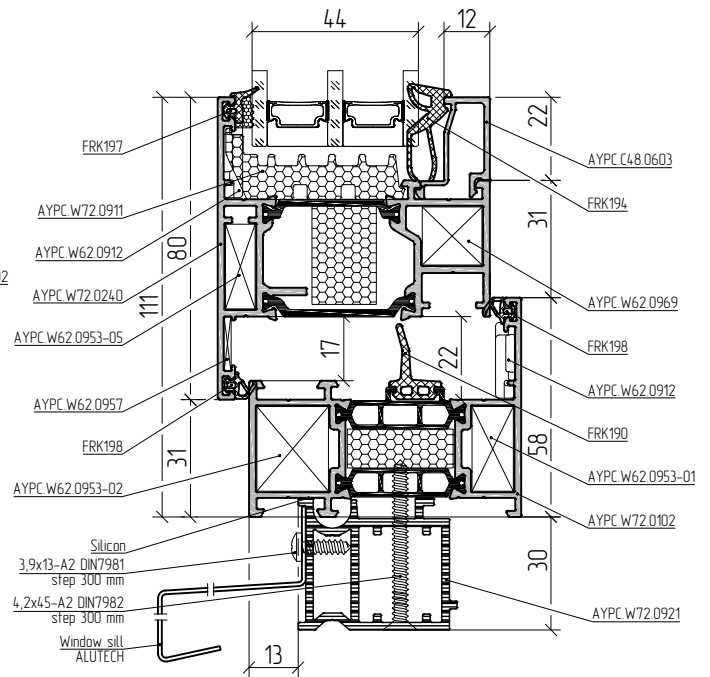
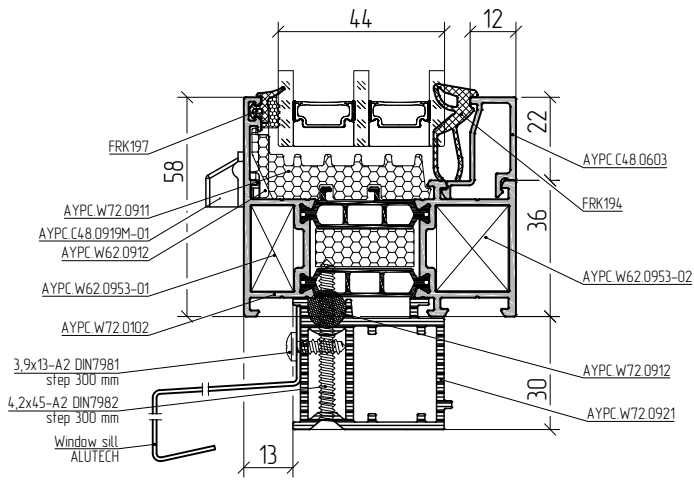
55a-55a





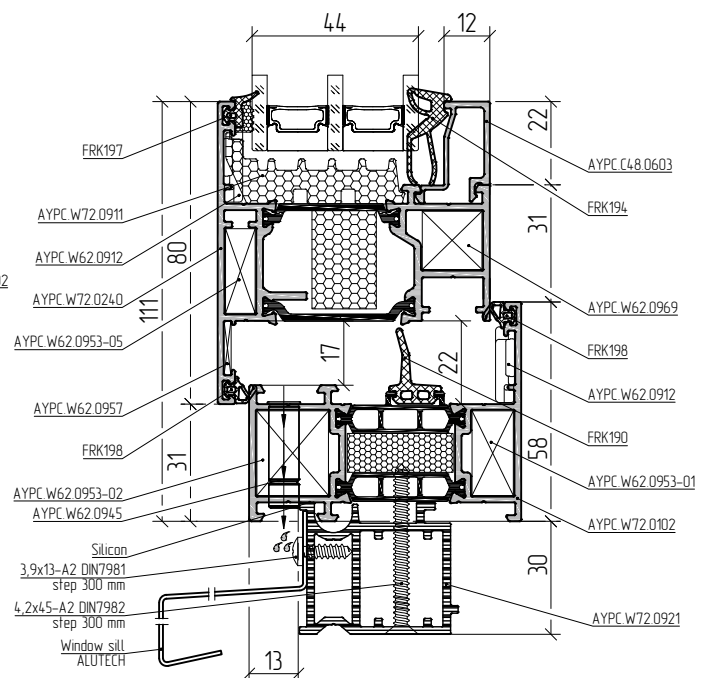
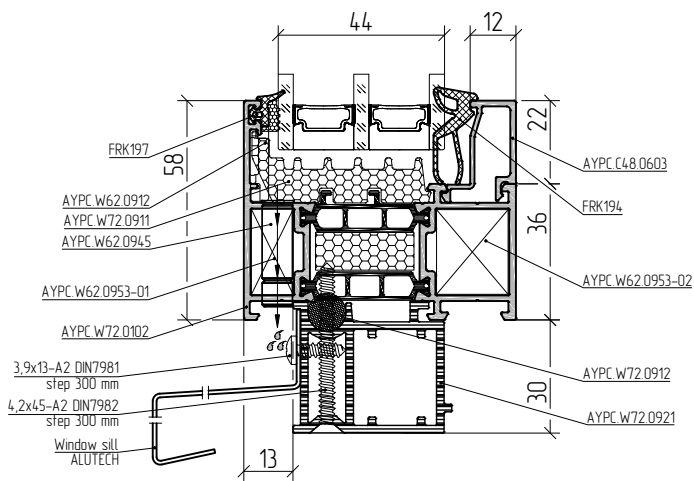
56-56

57-57

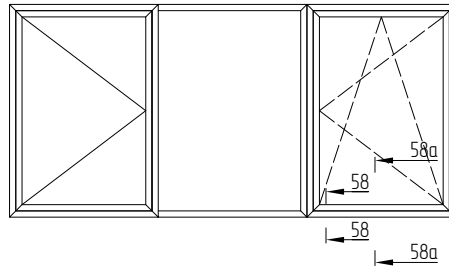


56a-56a

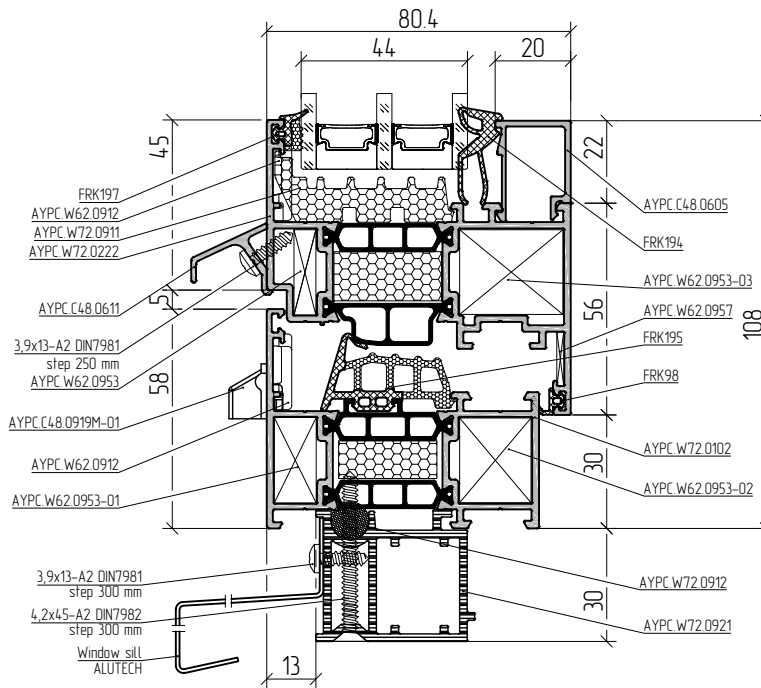
57a-57a



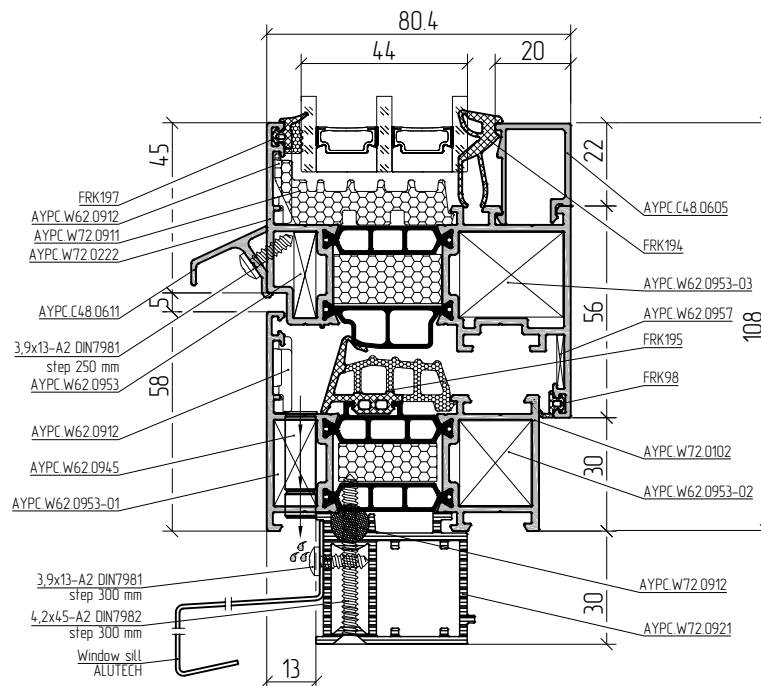


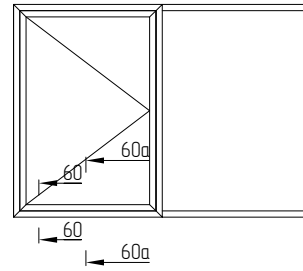
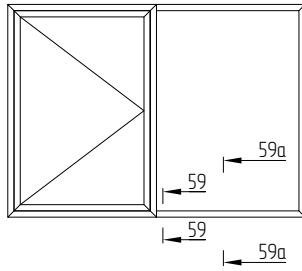


58-58



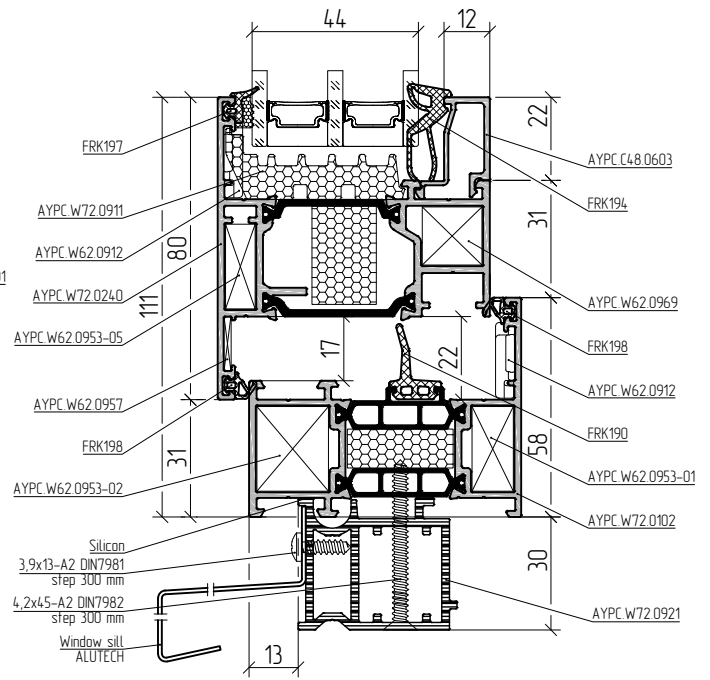
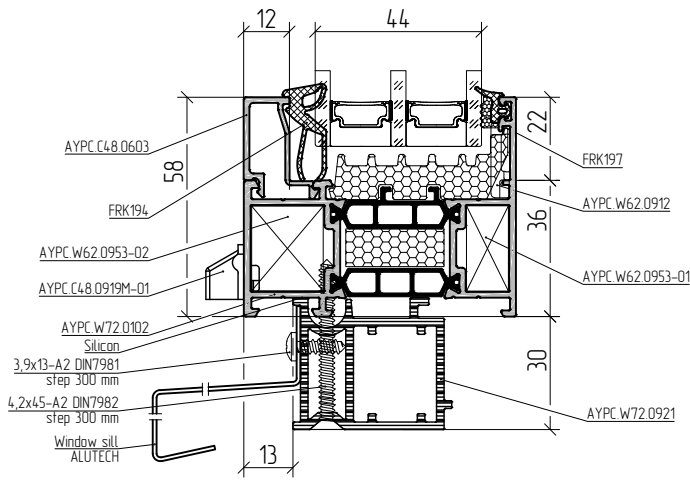
58a-58a





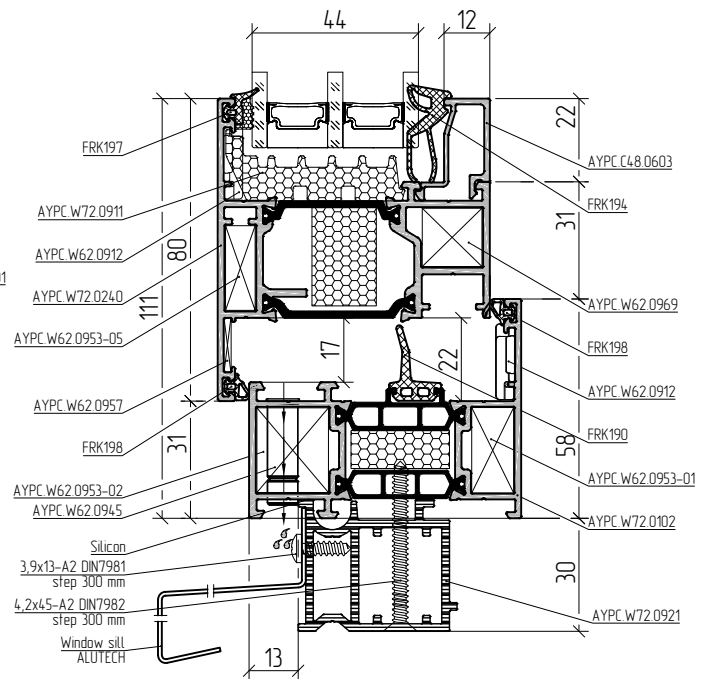
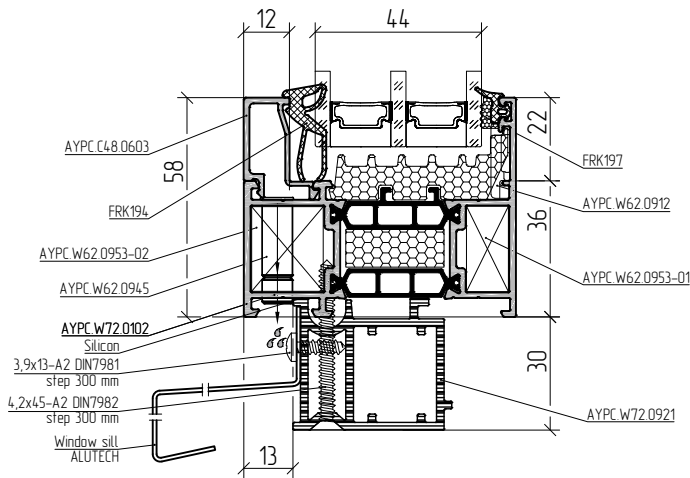
59-59

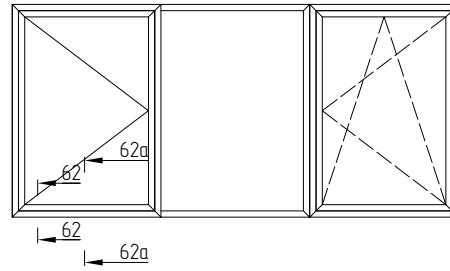
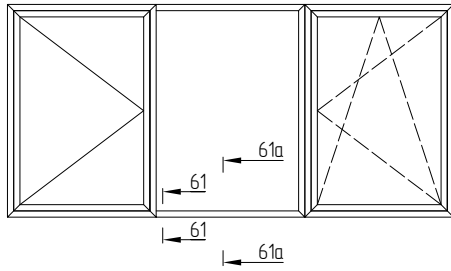
60-60



59a-59a

60a-60a

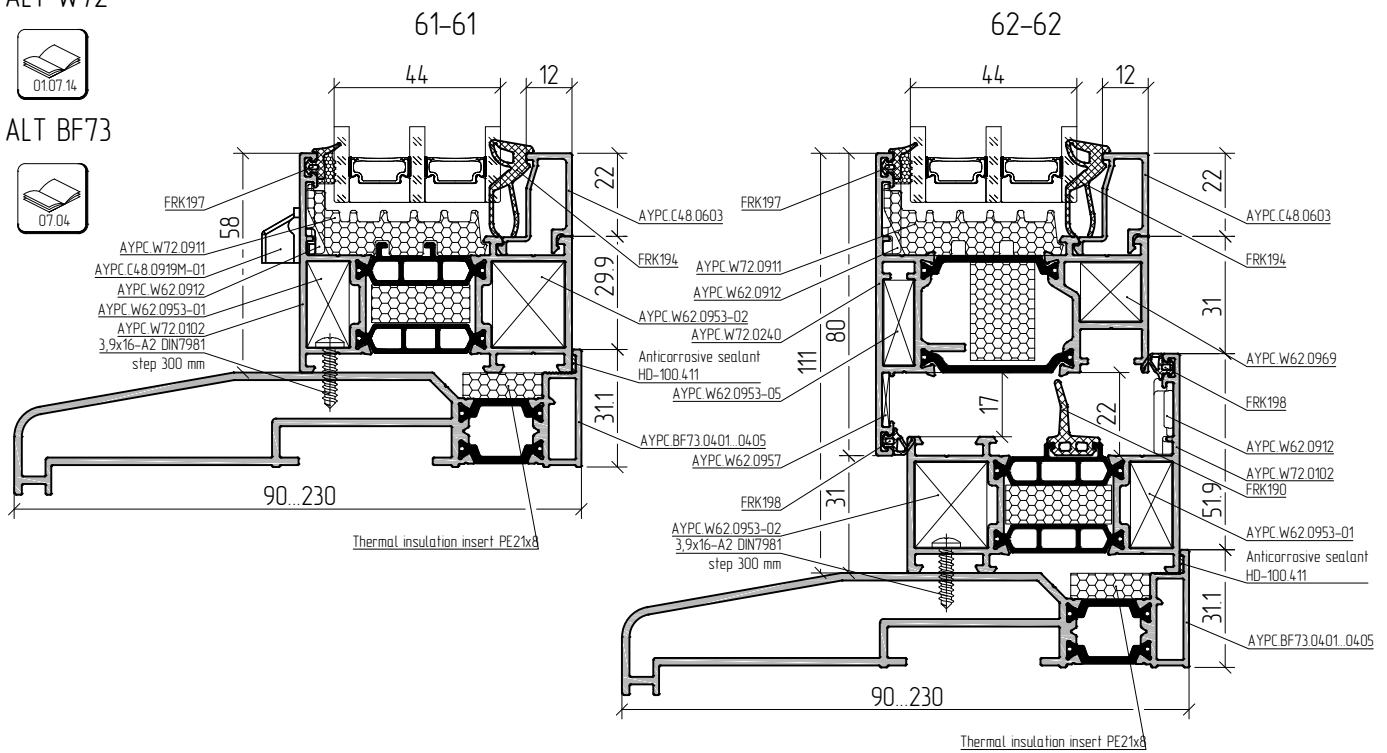




ALT W72



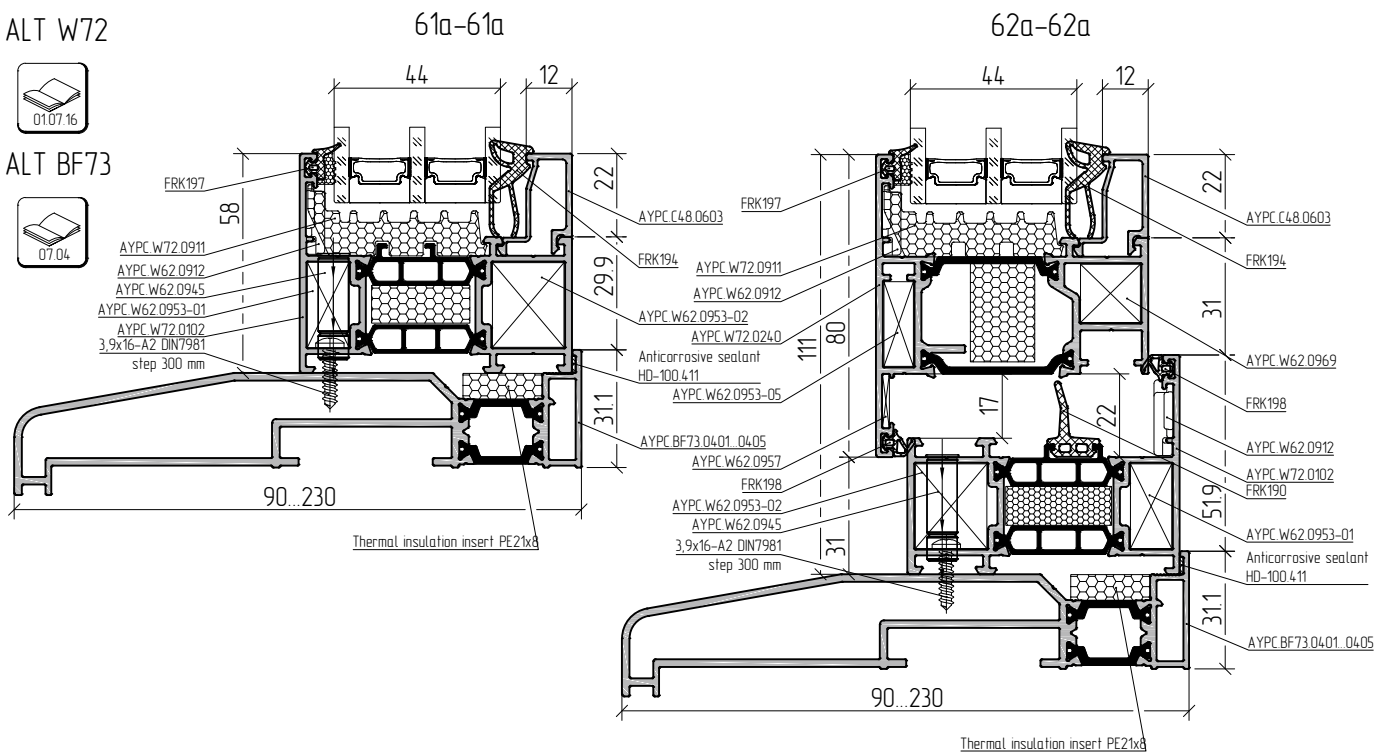
ALT BF73



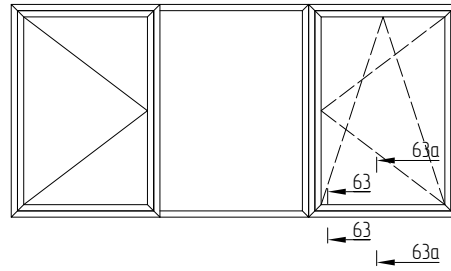
ALT W72



ALT BF73



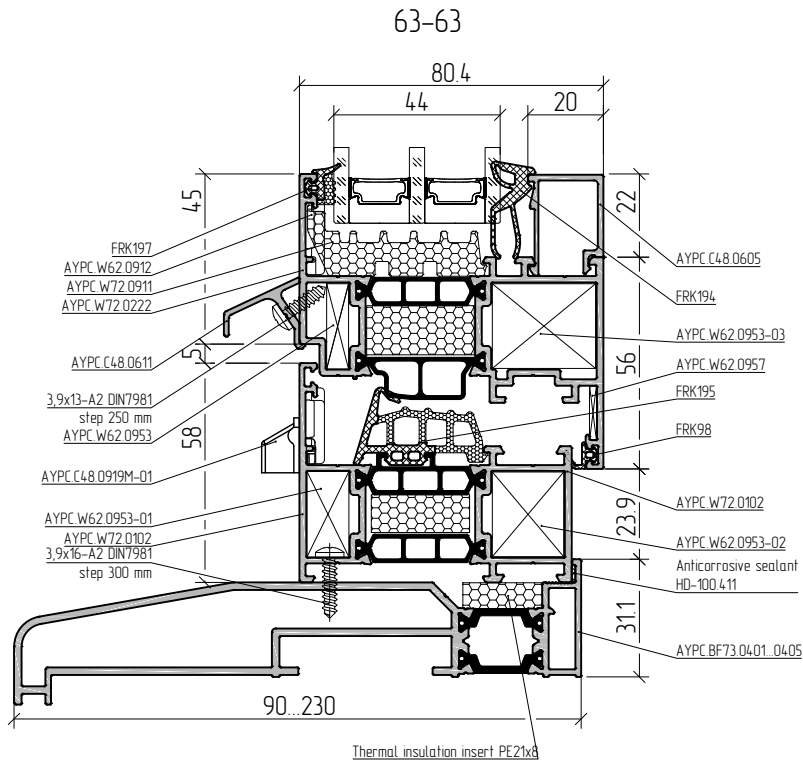
Scale 1:2



ALT W72



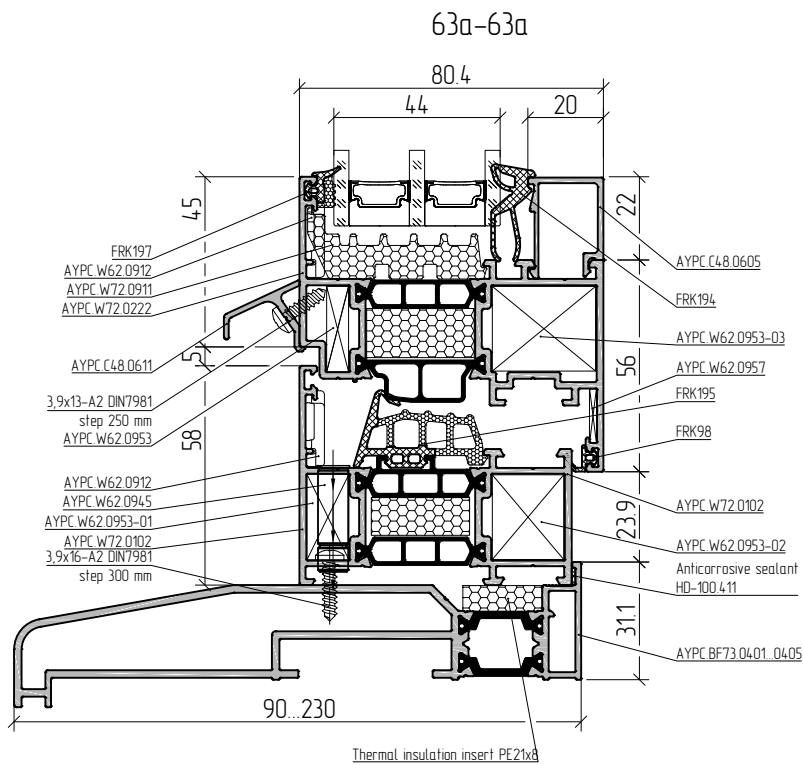
ALT BF73

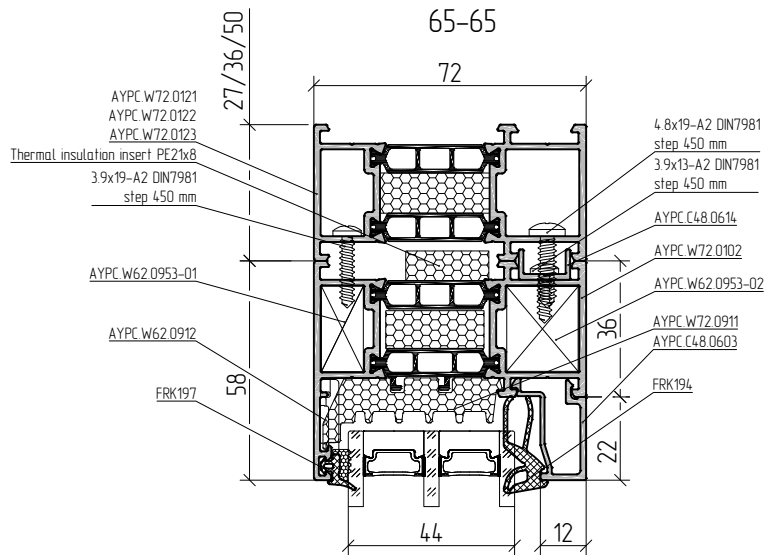
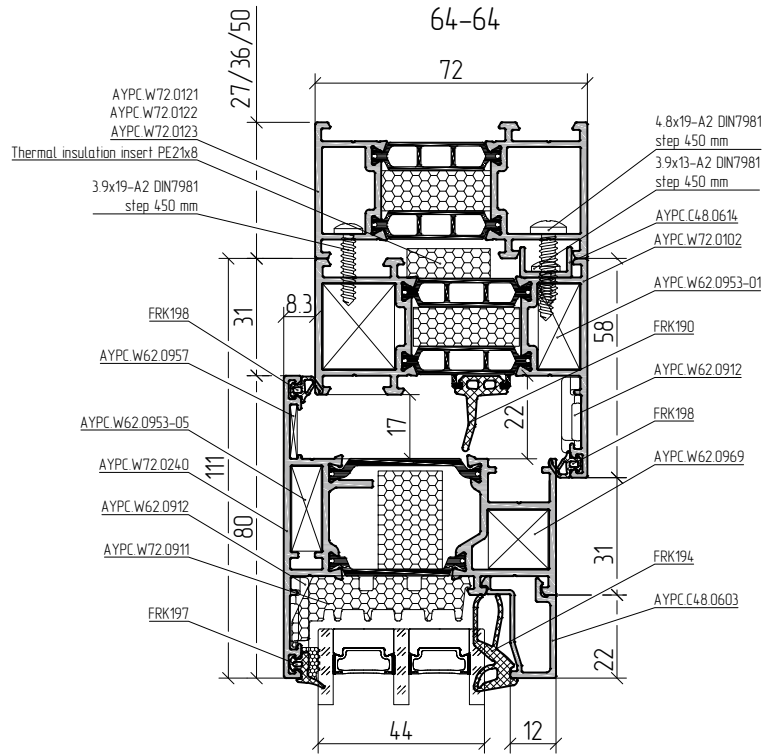
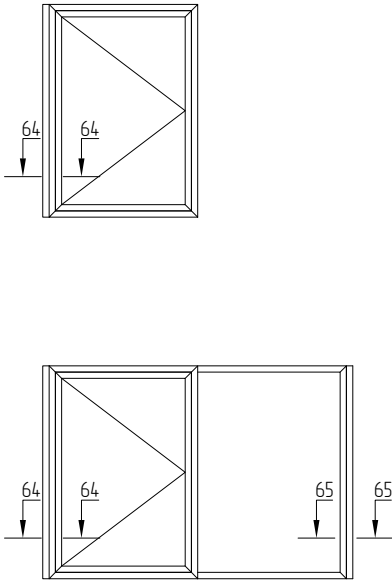


ALT W72



ALT BF73









**ALUTECH ALTW72CW**

Window system with  
thermal break

## Profile processing

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Equivalence table of clamping elements

Equivalence table of clamping corners

Corner connection of frame profile  
AYPC.W62.0957

Article	Clamping corner A	Clamping corner B
AYPC.W72.0339E	AYPC.W62.0952-01	AYPC.W62.0952-01
AYPC.W72.0340E	AYPC.W62.0953-01	AYPC.W62.0953-01

Equivalence table of clamping corners

Corner connection of adapter profile  
Clamping corner A Clamping corner B

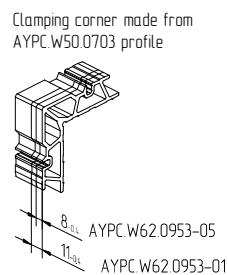
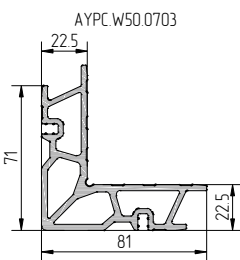
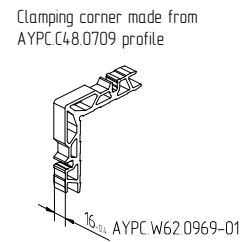
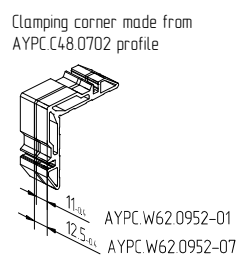
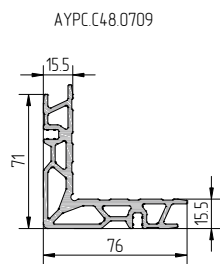
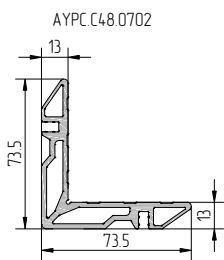
Article	Clamping corner A	Clamping corner B
AYPC.W72.0820E	AYPC.W62.0952-01	AYPC.W62.0952-07

Equivalence table of clamping corners

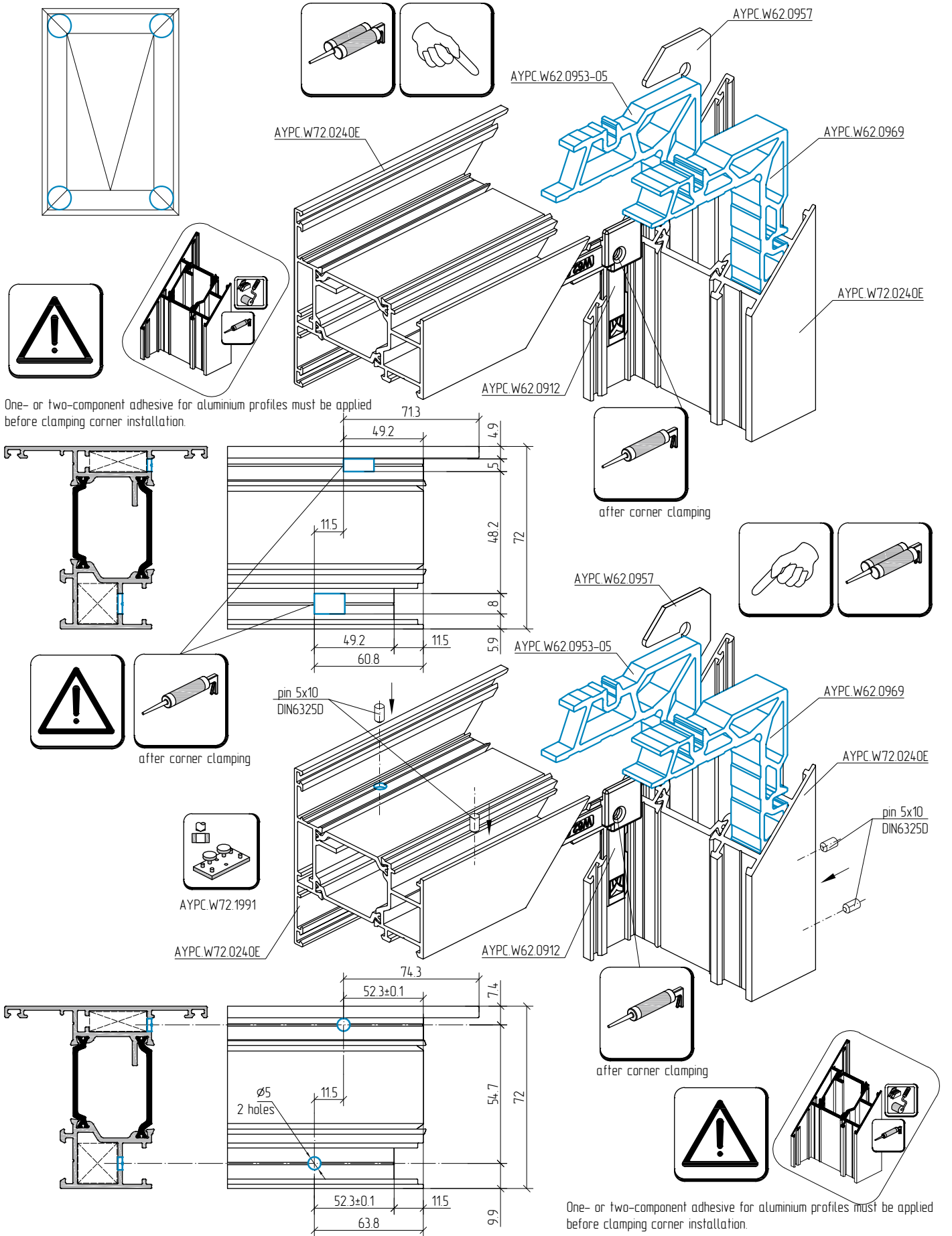
Corner connection of sash profiles  
AYPC.W62.0957

Article	Clamping corner A	Clamping corner B
AYPC.W72.0240E	AYPC.W62.0953-05	AYPC.W62.0969

Corner crimping profiles



AYPC.W72.0240E/AYPC.W72.0240NE profile corner joint by clamping and using pin 5 x10 pins



Of transom bar profiles corner joint by clamping

One- or two-component adhesive for aluminium profiles must be applied before clamping corner installation.

after corner clamping

after corner clamping

after corner clamping

PW72.4 AYPC.W72.1992

Profile 1	Clamping 1		Clamping 2	
	Article	Qty, pcs	Article	Qty, pcs
AYPC.W72.0339E	AYPC.W62.0952-01	1	AYPC.W62.0952-01	1
AYPC.W72.0340E	AYPC.W62.0953-01	1	AYPC.W62.0953-01	1

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Of frame and transom bar profiles corner joint by clamping

Profile 2

Profile 1

Clamping 1

Clamping 2

AYPC.W62.0912

removable part of profile 2

Profile 2

after corner clamping

Profile 1

Profile 2

Profile 2 processing

removable part

45°

H

L<sub>Profile 2</sub>=H+22X2

75.9

48.9

5.7

50

72

5.5

48.9

53.9

53.9

48.9

5.5

50

72

7.5

48.9

53.9

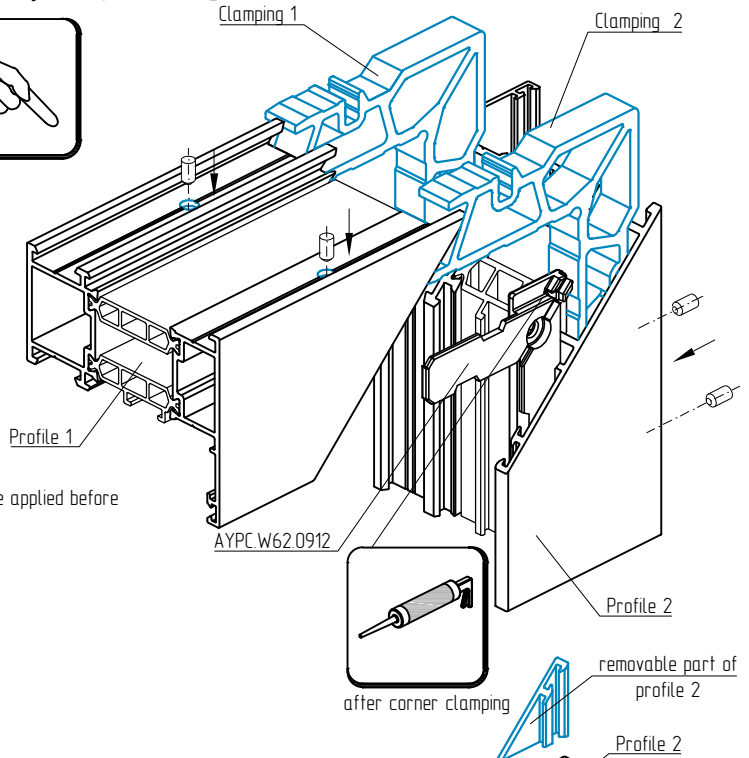
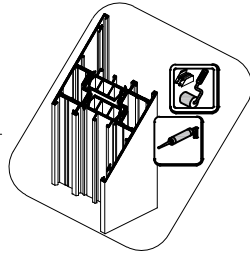
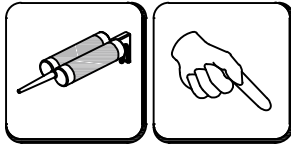
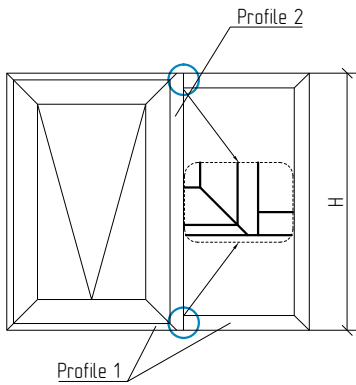
after corner clamping

after corner clamping

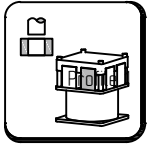
after corner clamping

Profile 1	Profile 2	Clamping 1		Clamping 2	
		Article	Qty. pcs	Article	Qty. pcs
AYPC.W72.0101E	AYPC.W72.0339E	AYPC.W62.0952-01	1	AYPC.W62.0952-01	1
AYPC.W72.0102E	AYPC.W72.0340E	AYPC.W62.0953-01	1	AYPC.W62.0953-01	1

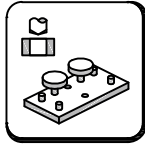
Of frame and transom bar profiles corner joint by clamping



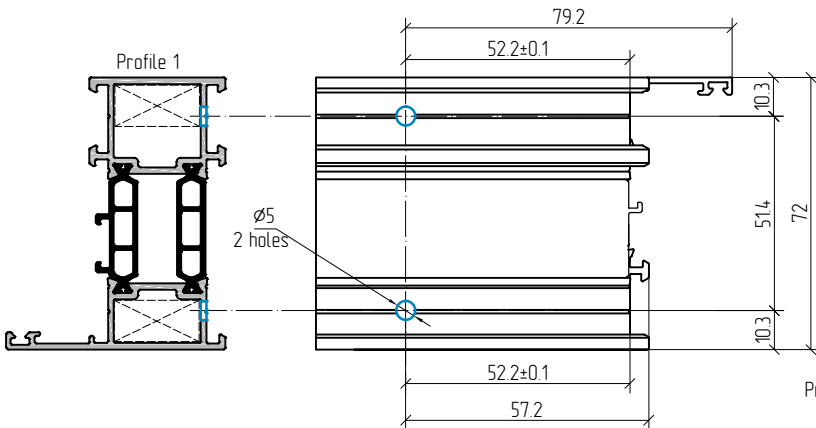
One- or two-component adhesive for aluminium profiles must be applied before clamping corner installation.



PW72.4



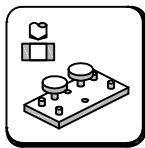
AYPC.W72.1981



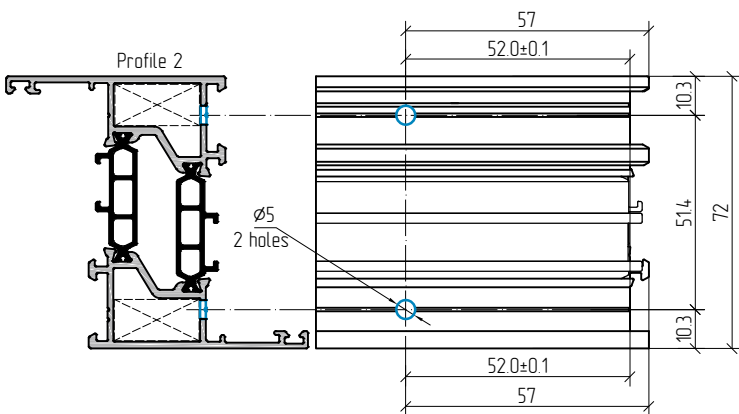
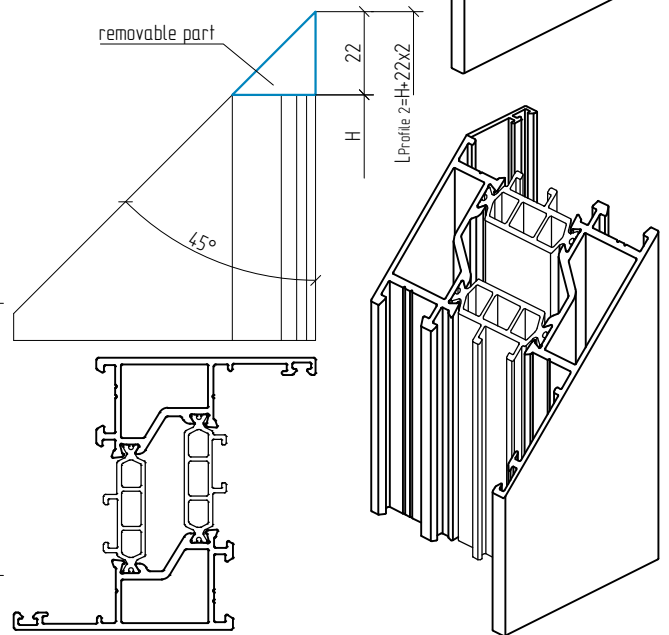
Profile 2 processing



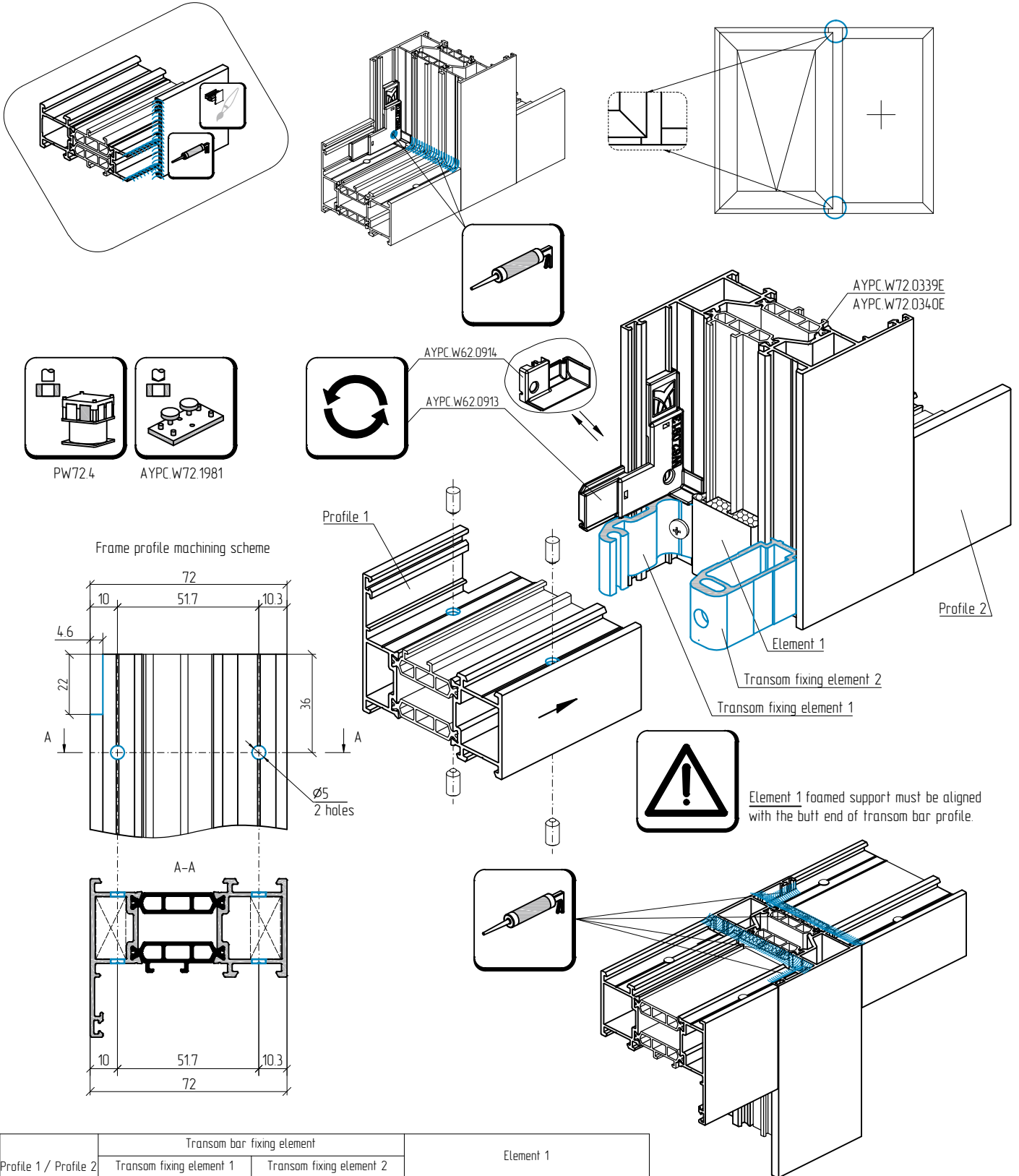
PW72.4

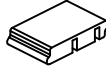


AYPC.W72.1992



L-connection of frame and transom bar profiles

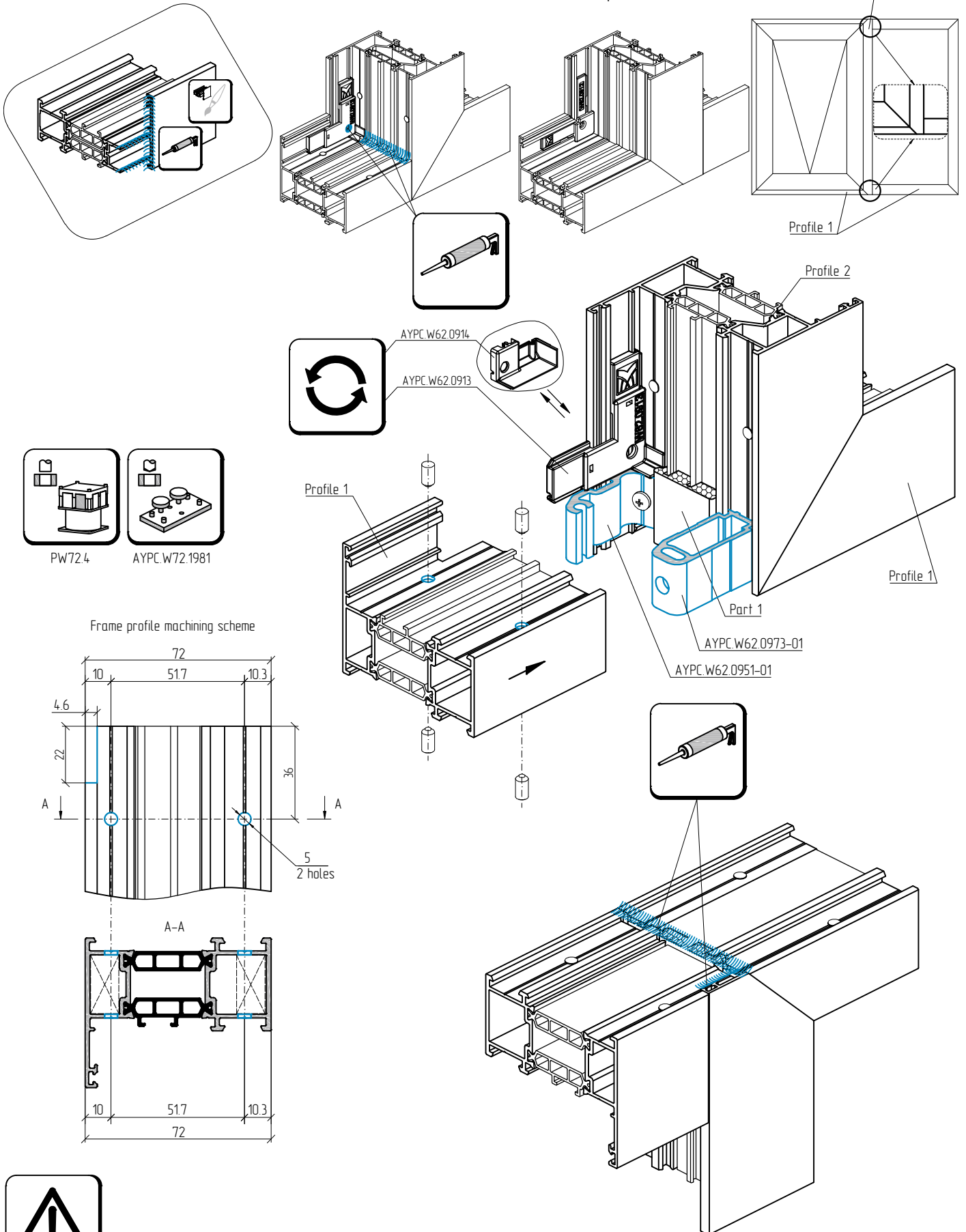


Profile 1 / Profile 2	Transom bar fixing element				Element 1		
	Transom fixing element 1		Transom fixing element 2		Article	Qty, pcs	Application
	Article	Qty, pcs	Article	Qty, pcs			
AYPC.W72.0101E	AYPC.W62.0951	1	AYPC.W62.0973	1	AYPC.W62.0916	1	
AYPC.W72.0102E	AYPC.W62.0951-01	1	AYPC.W62.0973-01	1	AYPC.W62.0916-01	1	
AYPC.W72.0103E	AYPC.W62.0951-02	1	AYPC.W62.0973-02	1	AYPC.W62.0916-02	1	



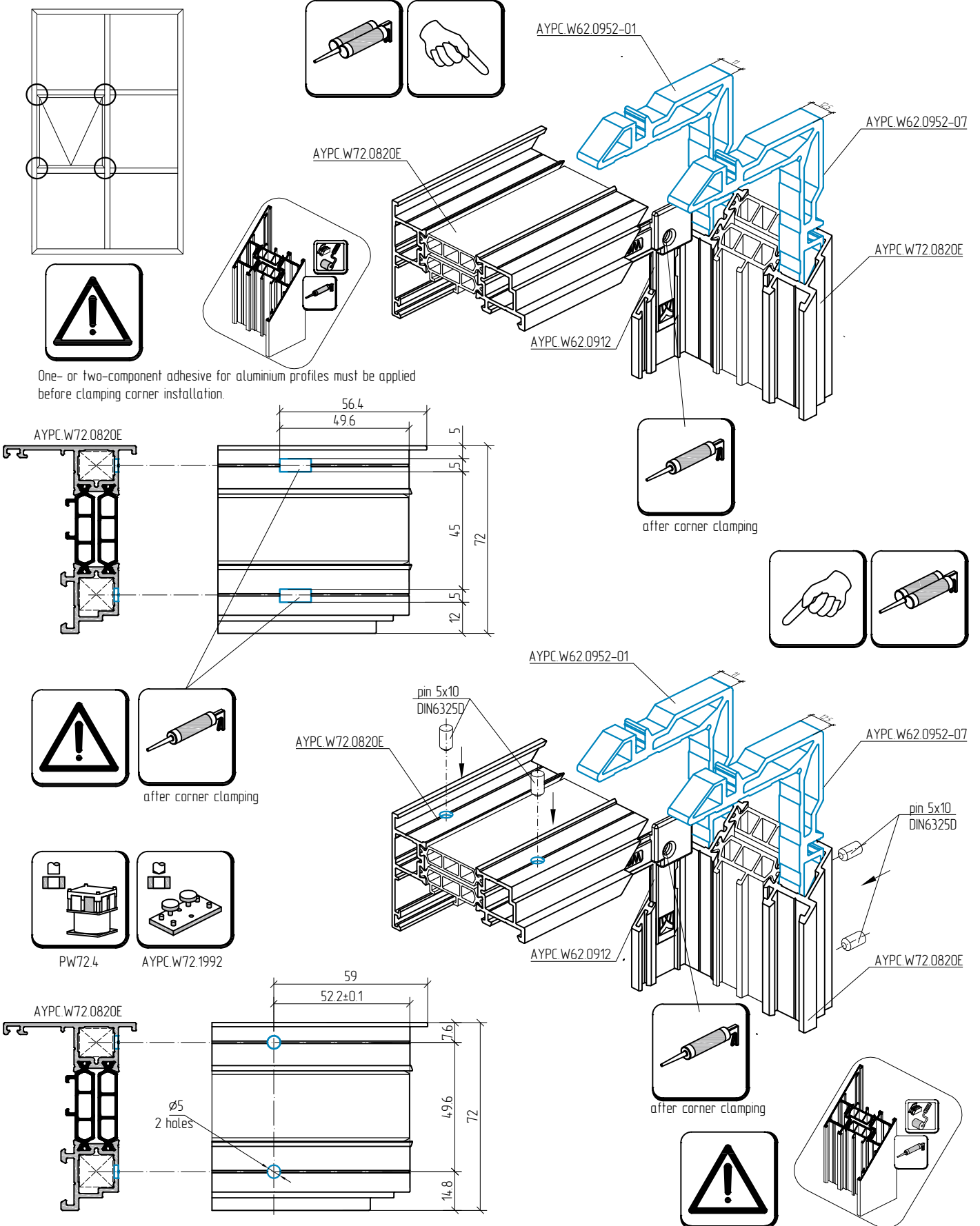
On the surface of junction silicone sealant must be applied. The sealant structure recommendations are given on the request.

L-connection of frame and transom bar profiles



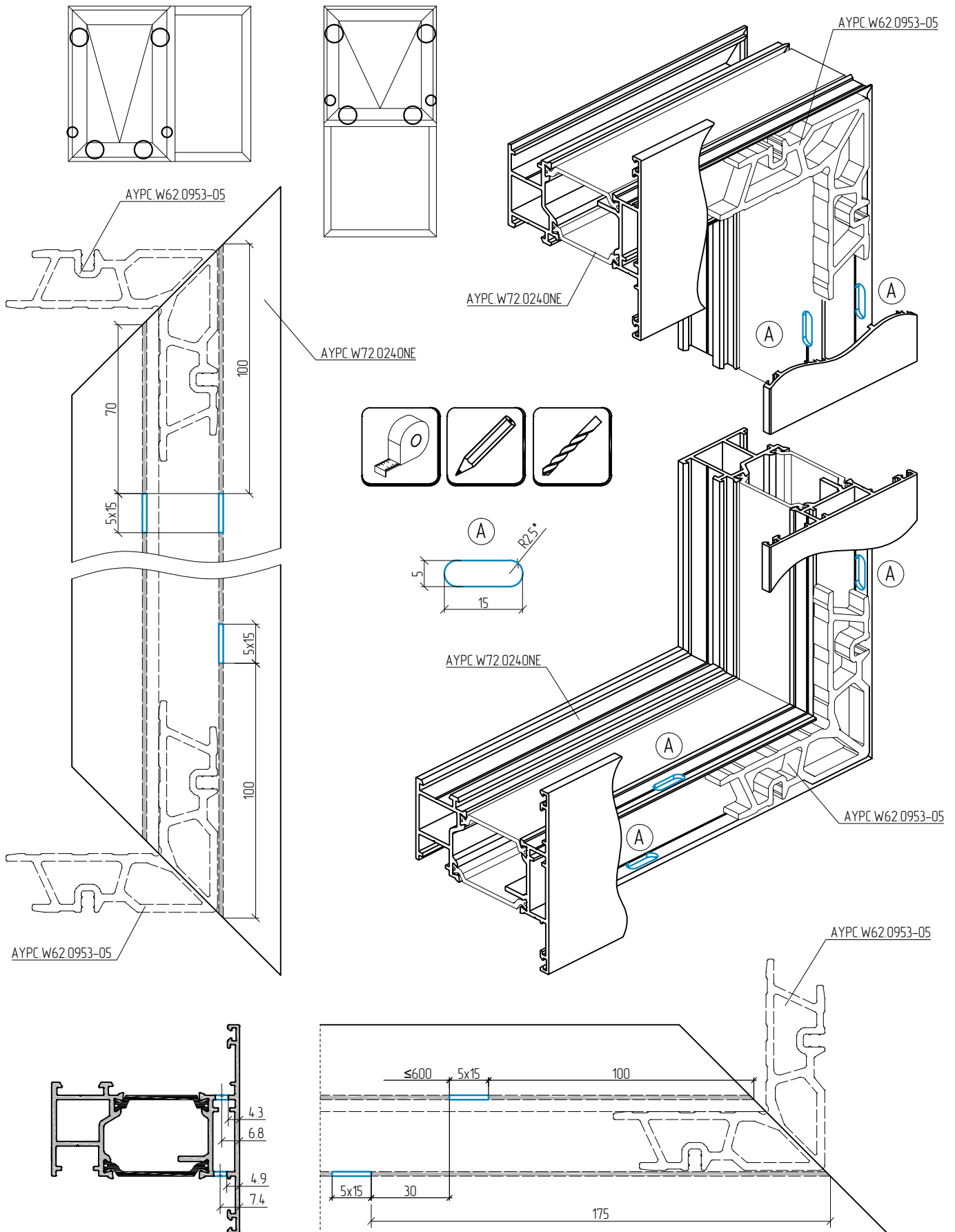
On the surface of junction silicone sealant must be applied. The sealant structure recommendations are given on the request.

AYPC.W72.0820E profile corner joint by clamping and using pin 5x10 pins

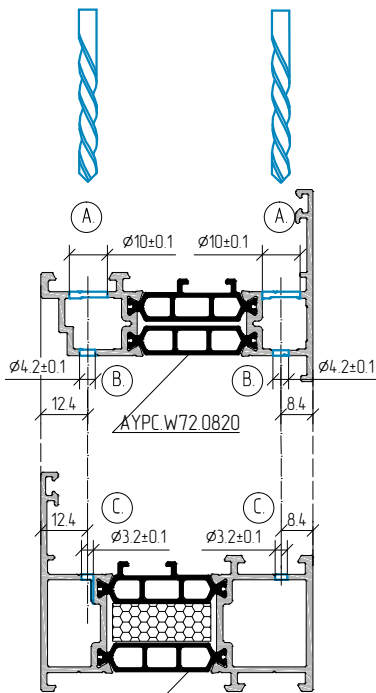
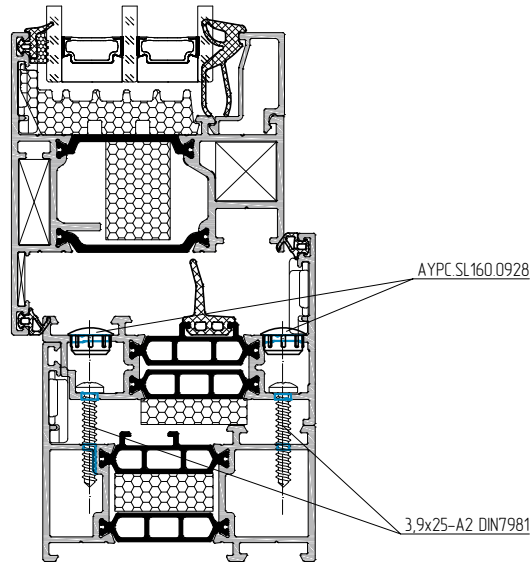
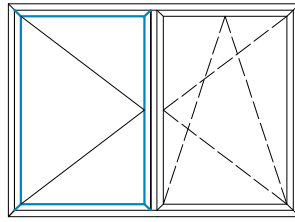




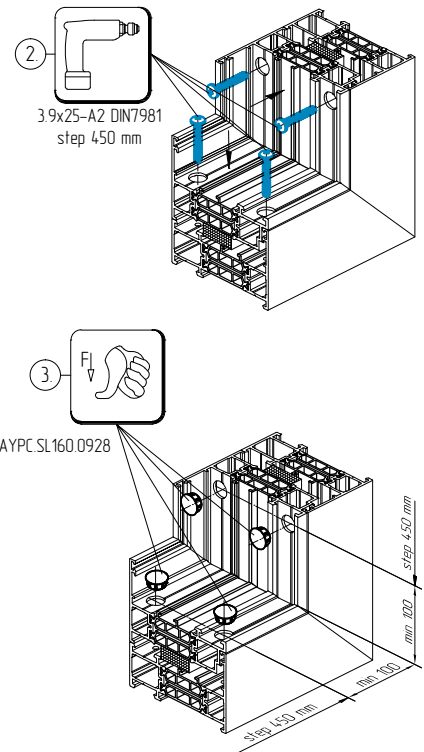
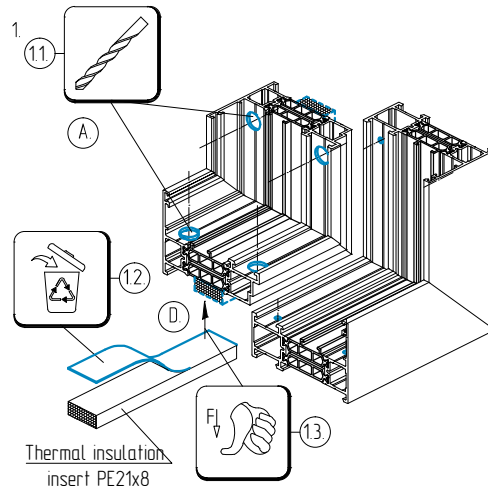
Profile machining for ventilation and condensate removal



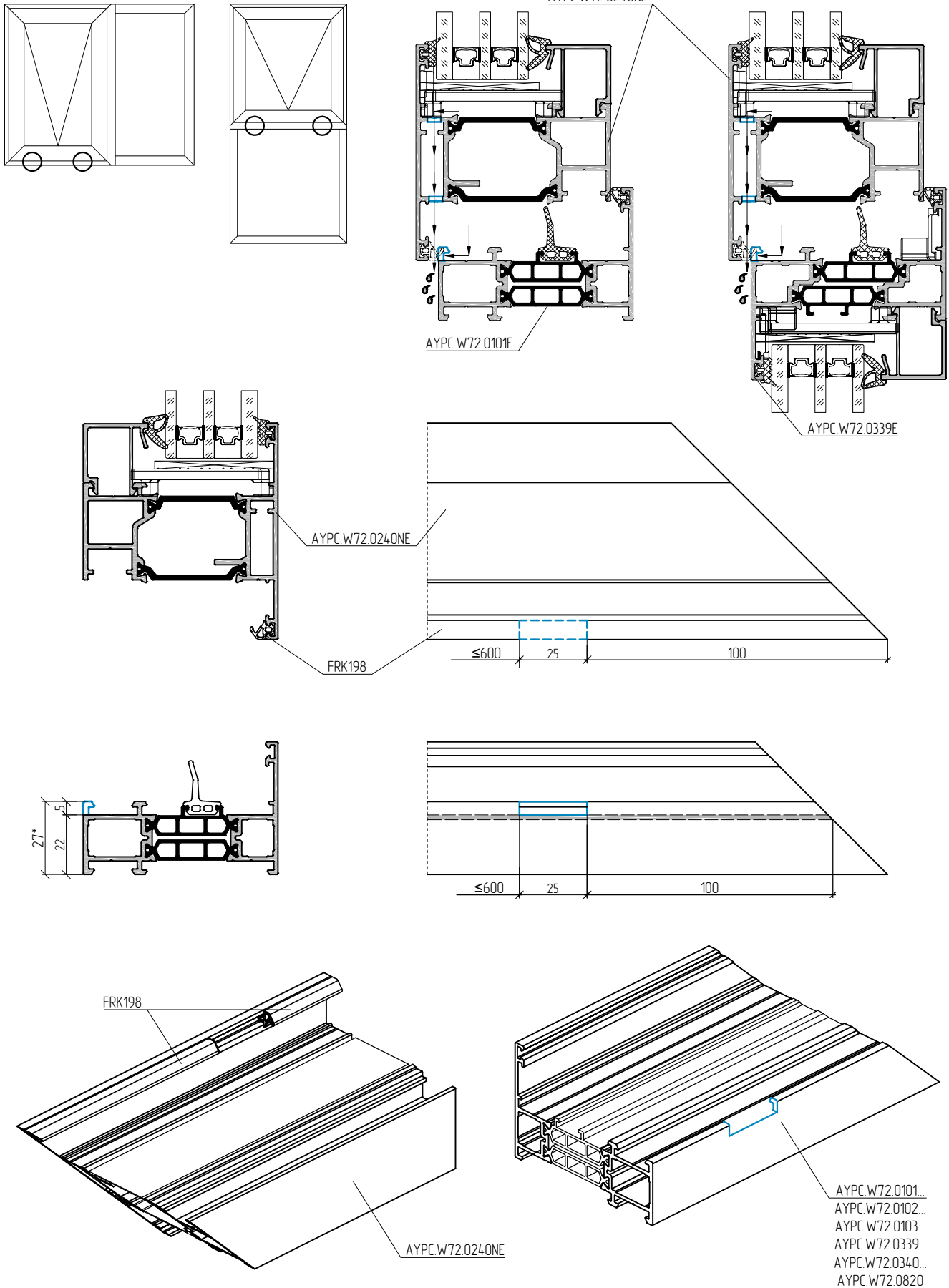
Profile machining for frame and adapter profiles



AYPC.W72.0101  
AYPC.W72.0102  
AYPC.W72.0103  
AYPC.W72.0301  
AYPC.W72.0302  
AYPC.W72.0303



Profile machining for ventilation and condensate removal. Variant 1



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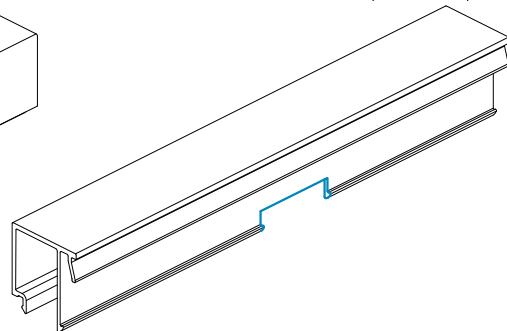
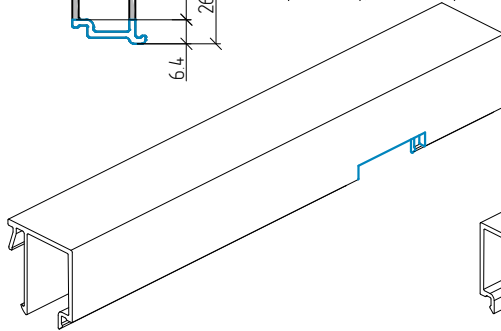
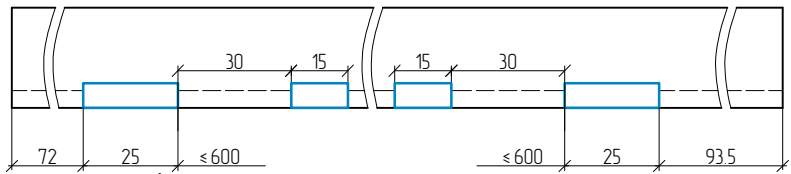
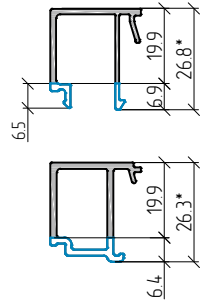
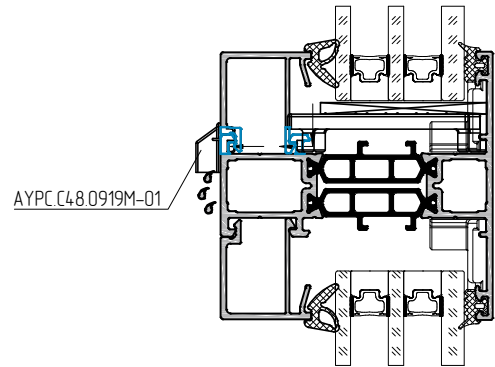
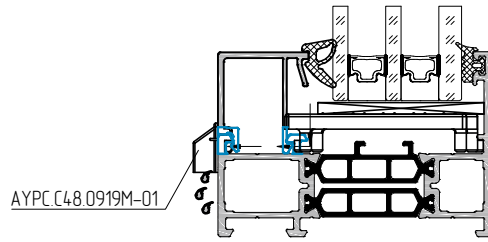
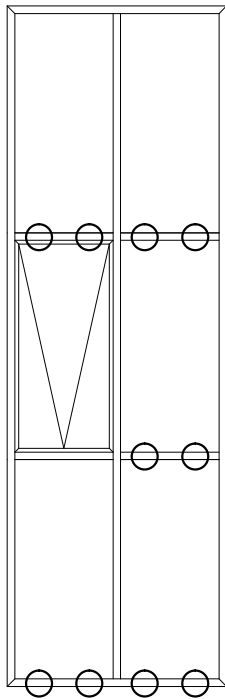
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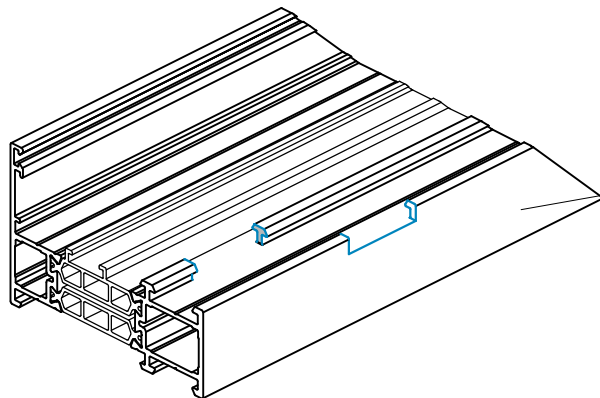
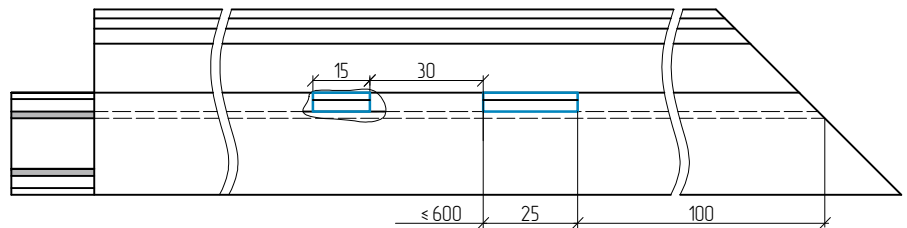
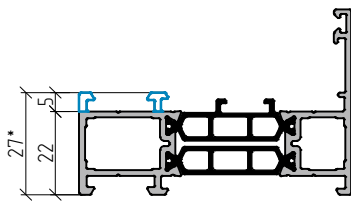
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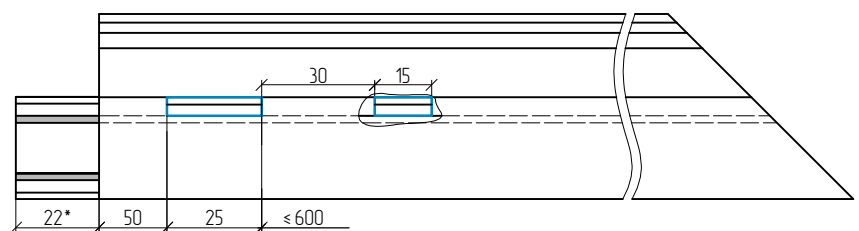
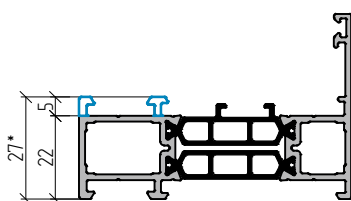
Profile machining for ventilation and condensate removal. Variant 1



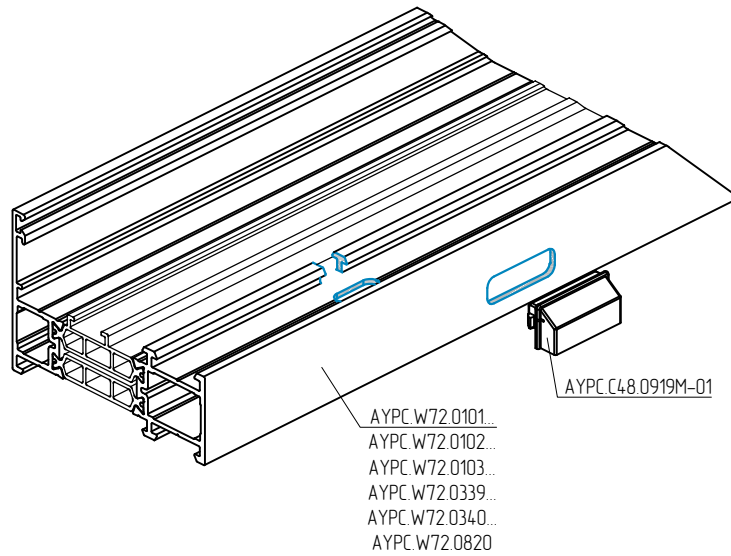
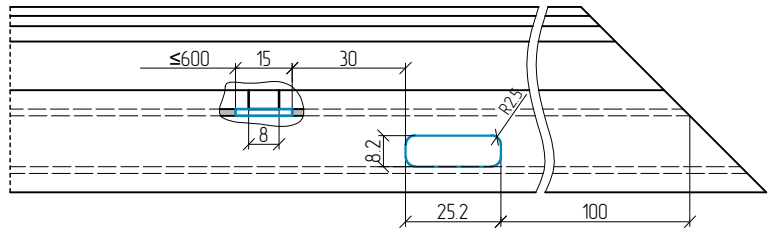
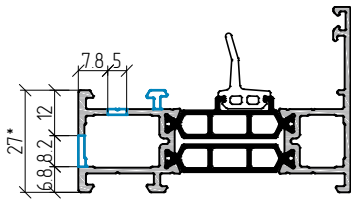
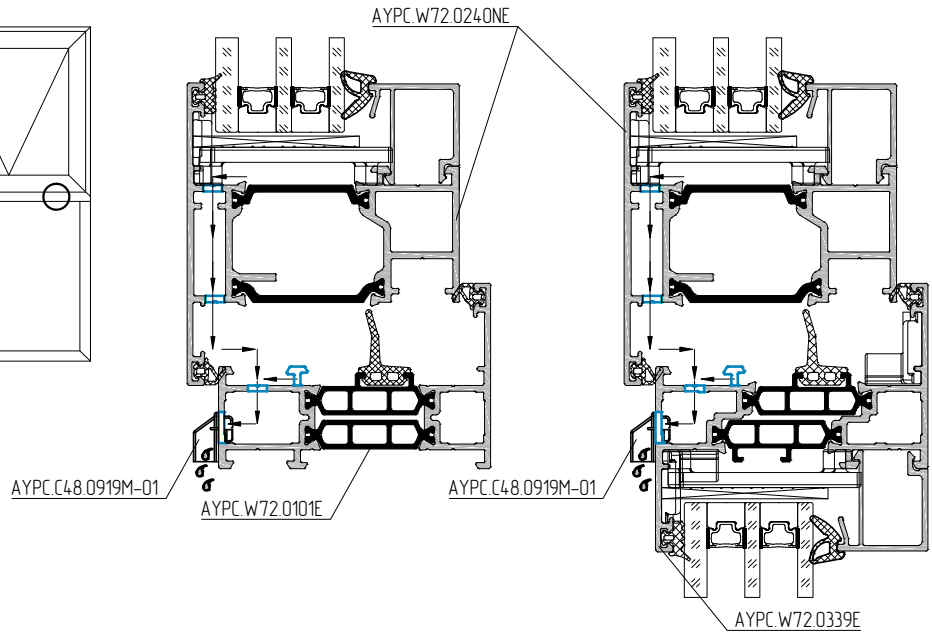
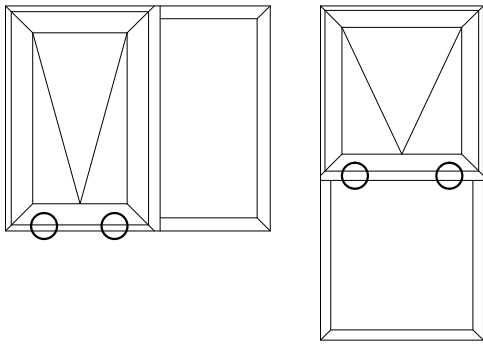
This option can not be applied to PAS 24



- AYPC.W72.0101E
- AYPC.W72.0102...
- AYPC.W72.0103...
- AYPC.W72.0301E
- AYPC.W72.0302...
- AYPC.W72.0303...
- AYPC.W72.0820.

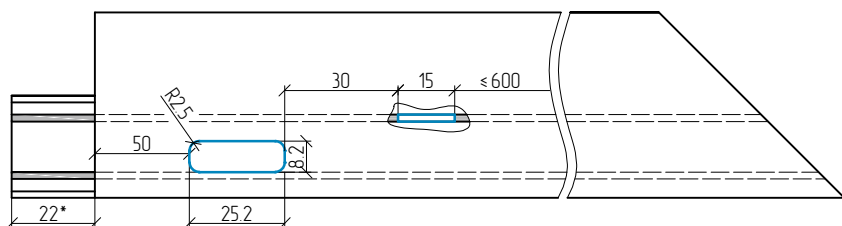
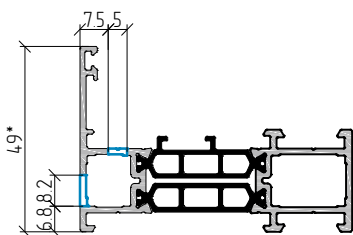
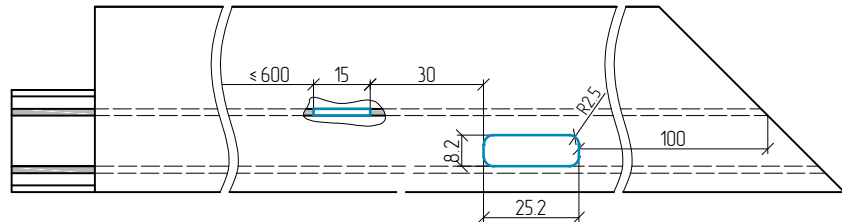
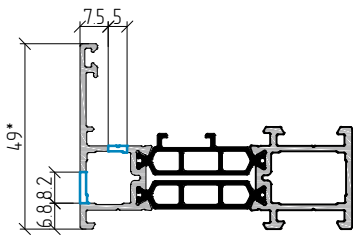
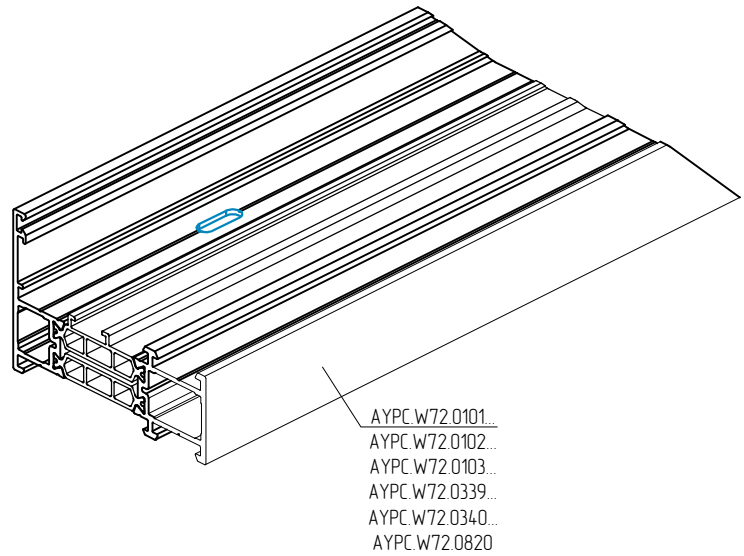
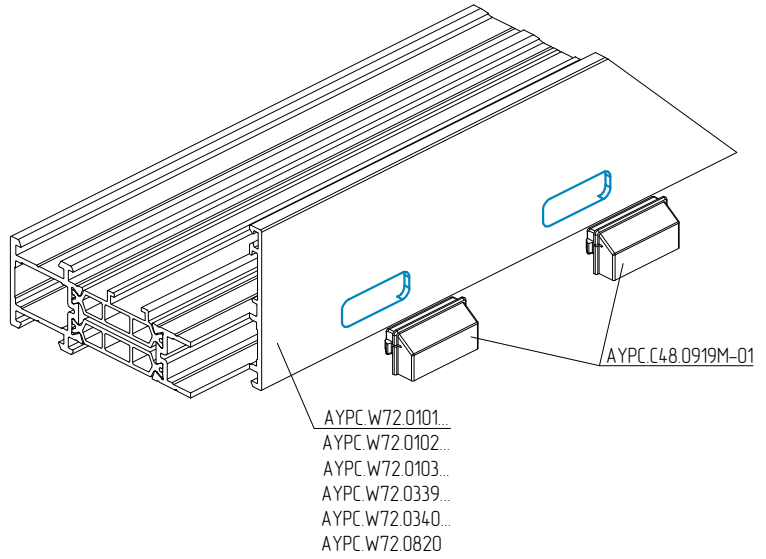
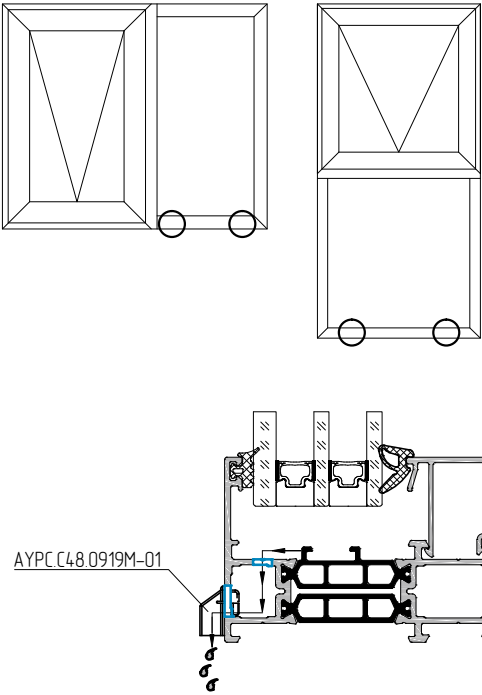


Profile machining for ventilation and condensate removal. Variant 2

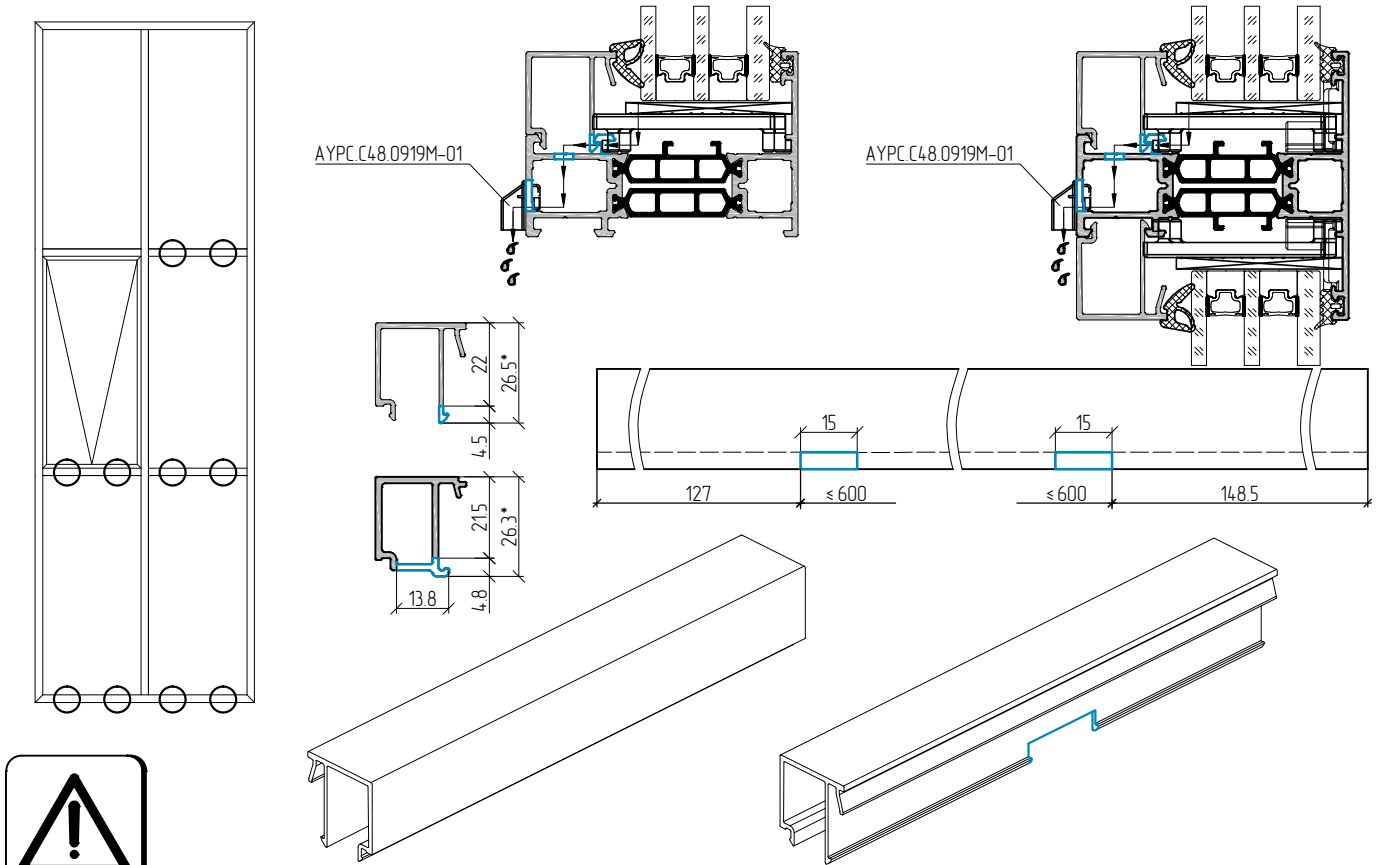


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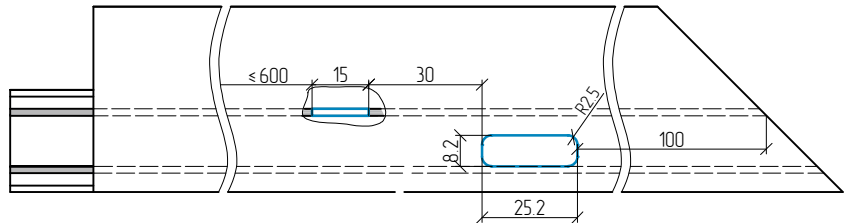
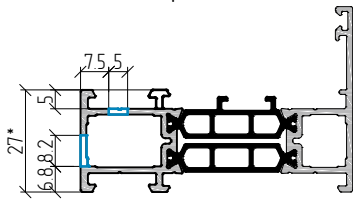
Profile machining for ventilation and condensate removal. Variant 2



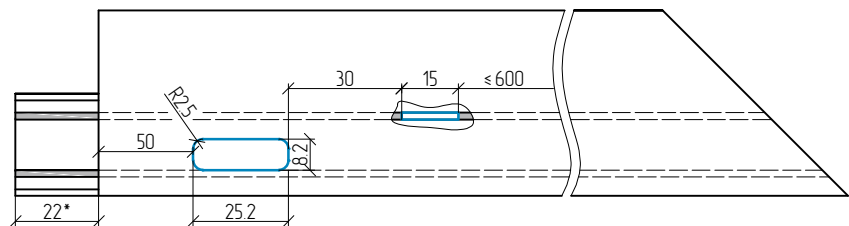
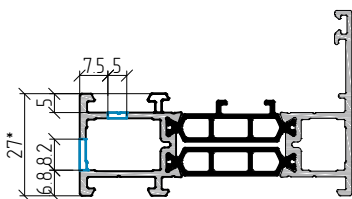
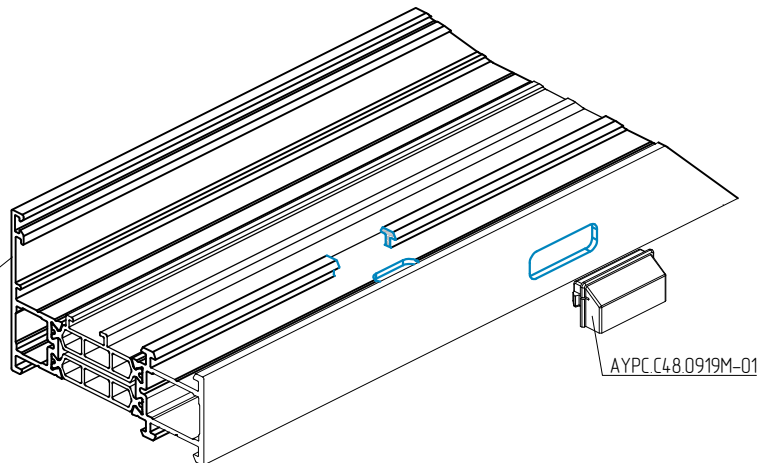
Profile machining for ventilation and condensate removal. Variant 2



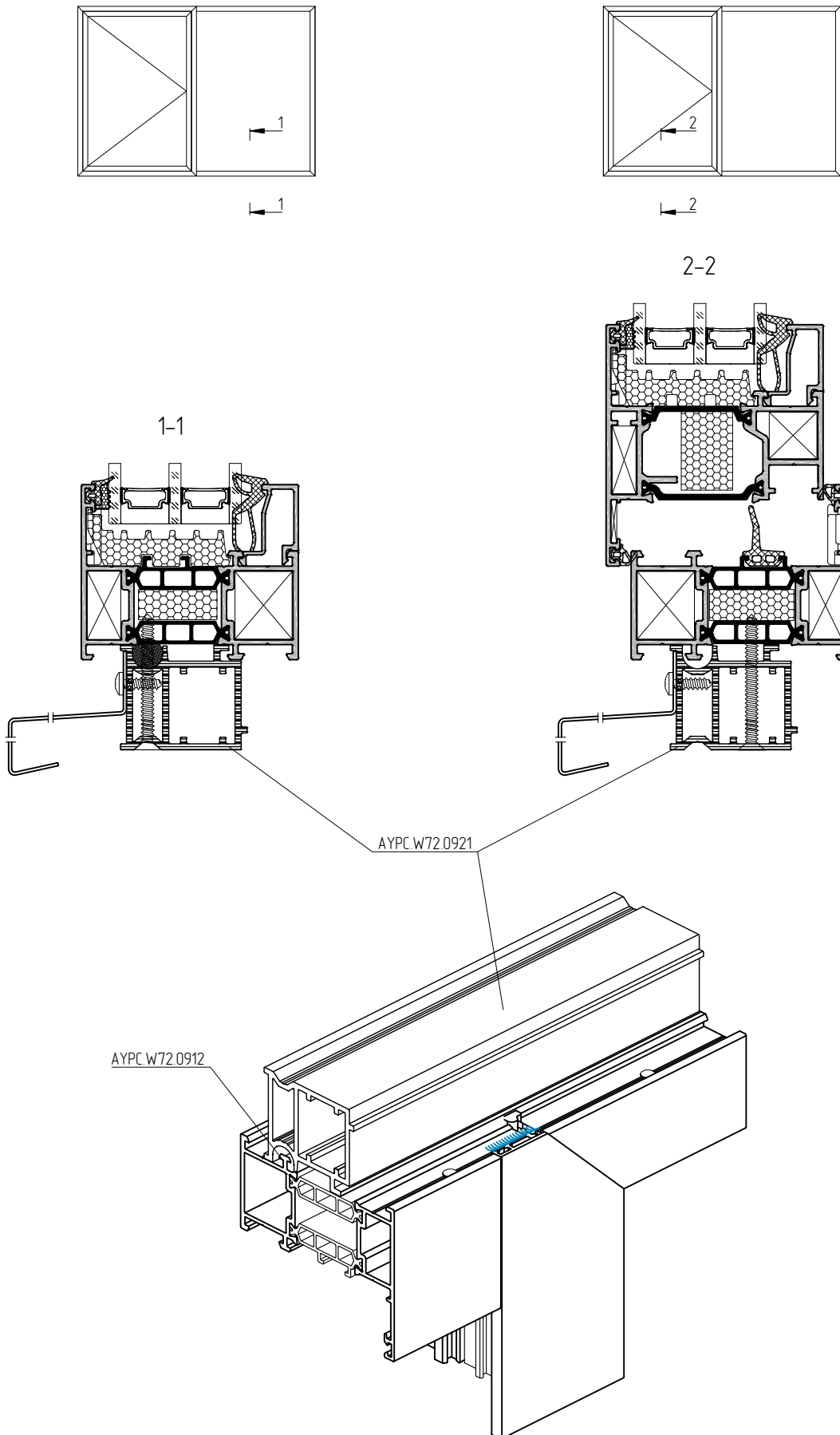
This option can not be applied to PAS 24



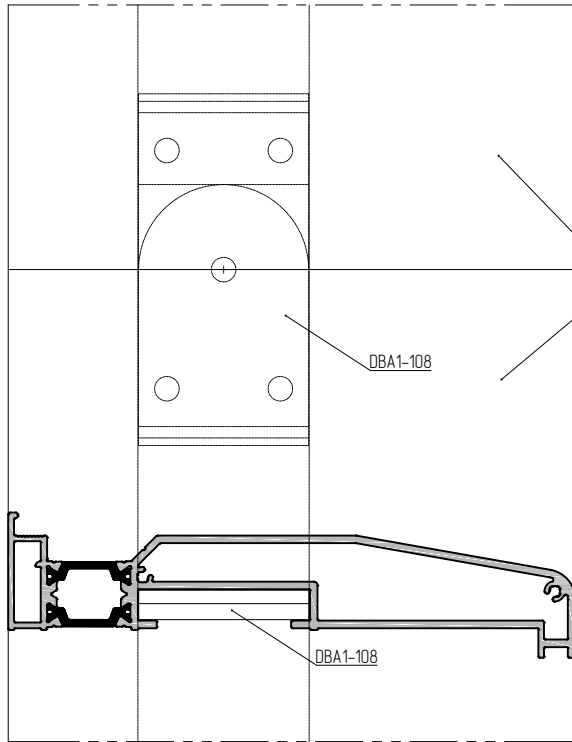
- AYPC.W72.0101E
- AYPC.W72.0102...
- AYPC.W72.0103...
- AYPC.W72.0301E
- AYPC.W72.0302...
- AYPC.W72.0303...
- AYPC.W72.0820E



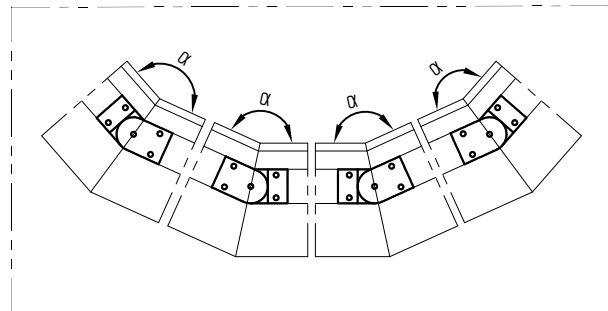
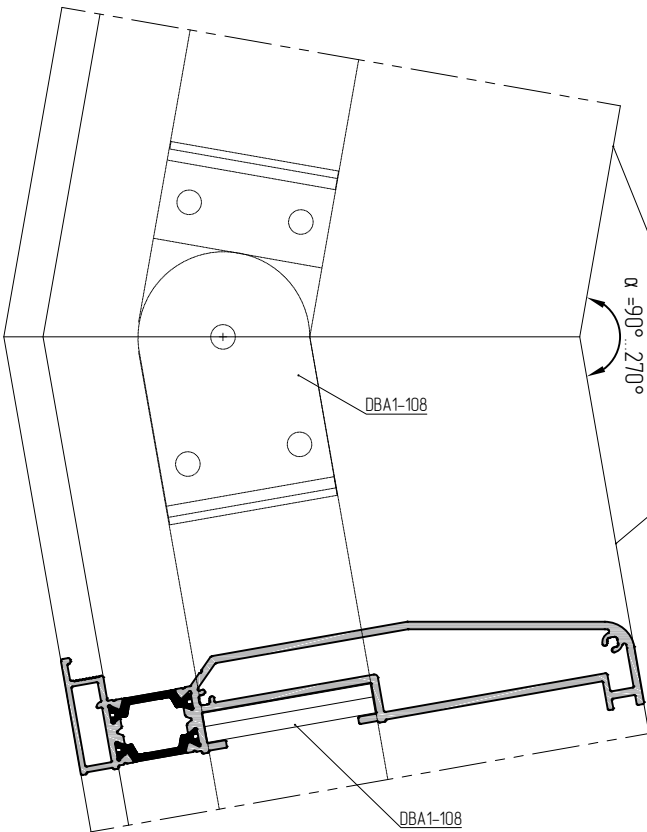
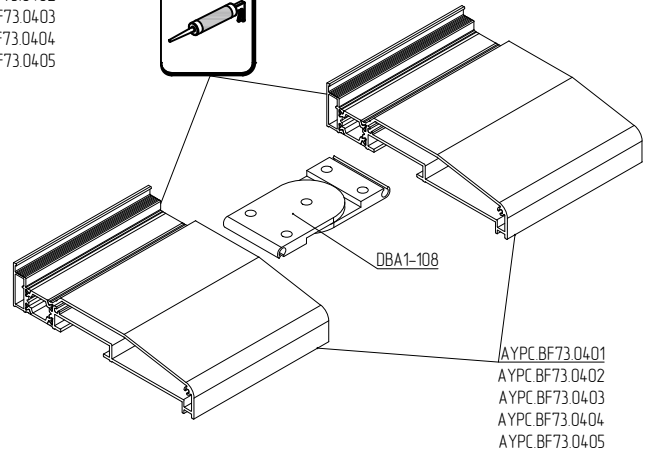
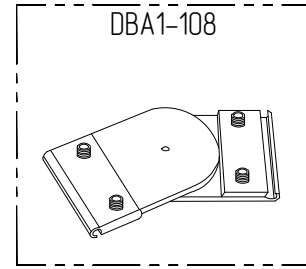
Installation of AYPC.W72.0921 underlying profile



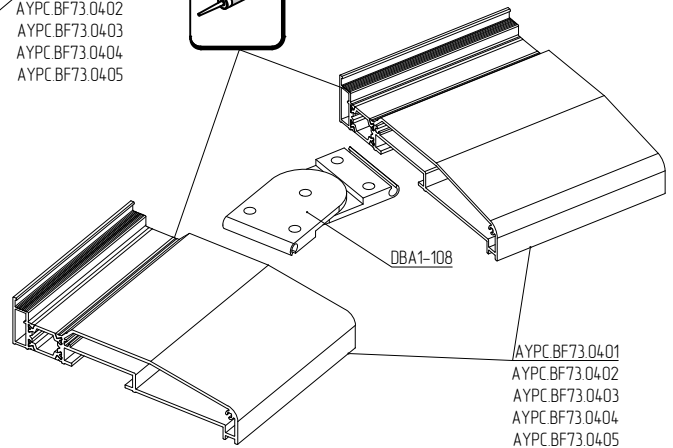




AYPC.BF73.0401  
AYPC.BF73.0402  
AYPC.BF73.0403  
AYPC.BF73.0404  
AYPC.BF73.0405



AYPC.BF73.0401  
AYPC.BF73.0402  
AYPC.BF73.0403  
AYPC.BF73.0404  
AYPC.BF73.0405







**ALUTECH ALTW72CW**

Window system with  
thermal break

# Standard system calculations

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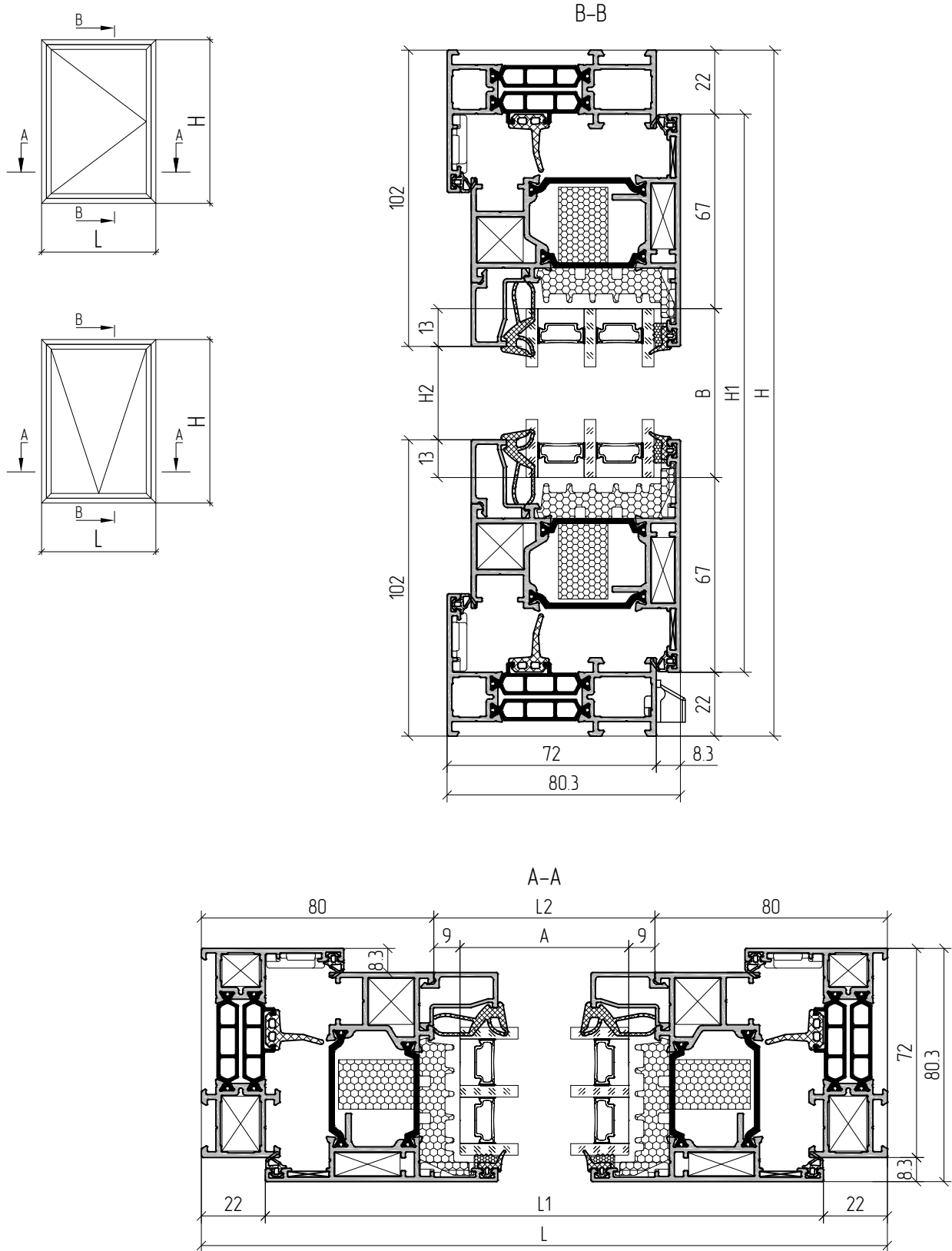
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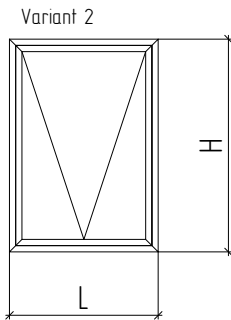
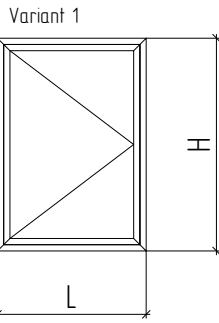
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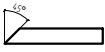
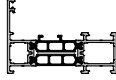
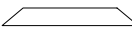
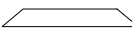
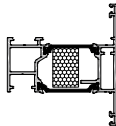
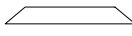


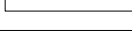
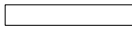












Example of top hung and casement window calculation










Example of top hung and casement window calculation



Article	Name	Image		1...
Profile				
AYPC.W72.0101E	Frame profile			L 2
				H 2
AYPC.W72.0240E	Sash profile			L1=L-44 2
				H1=H-44 2
AYPC.C48.0603	Glass bead profile			L2=L-160 2
				H2=H-204 2

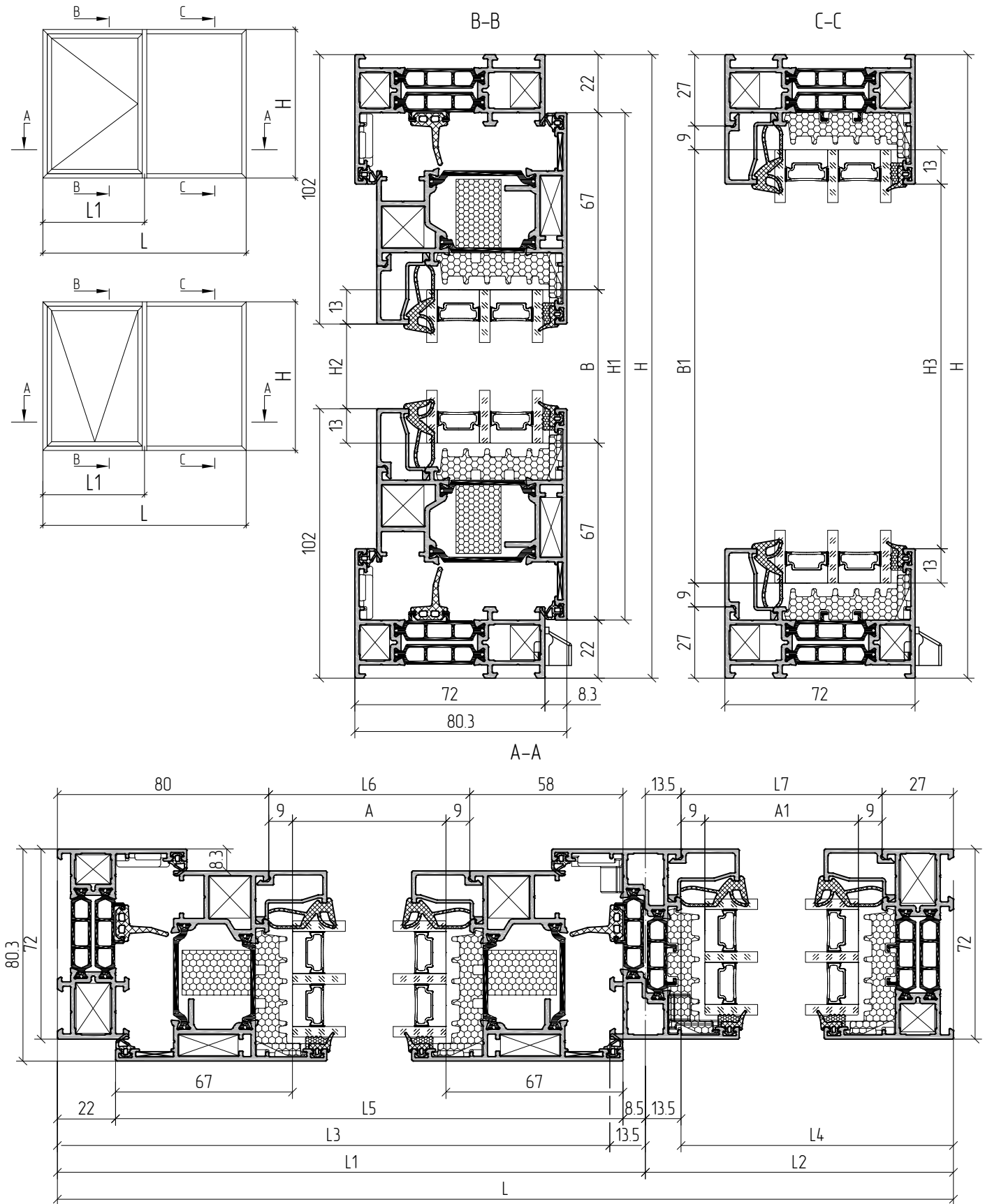
Article	Name	Image	1...	Note
Accessories				
AYPC.W62.0917	Bearing support		4	Variant 1
			6	Variant 2
100x50x1(3)	Leveling support		4 (4)	Variant 1
			6 (6)	Variant 2
AYPC.C48.0919M-01	Drain plug		2	
AYPC.W62.0952-01	Clamping corner		4	
AYPC.W62.0952-02	Clamping corner		4	
AYPC.W62.0912	Plastic corner		8	
Pin 5x10	Pin 5x10 DIN6325D		32	
AYPC.W62.0957	Leveling corner		4	
AYPC.W62.0969	Clamping corner		4	
AYPC.W62.0953-05	Clamping corner		4	

Article	Name	Image		1...	Note
Accessories					
FRK198	Rubber gasket		(L1+H1)x4	1	
FRK190	Rubber gasket		(L1+H1)x2	1	
* FRK193	Rubber gasket		(A+B)x2	1	
* FRK197	Rubber gasket		(A+B)x2	1	
* FRK179	Rubber corner			4	
* AYPC.W72.0911	Seam sealing		(A+B)x2-4x100**	1	Variant 1
			(A+B)x2-6x100**	1	Variant 2
44 mm infill unit					
A=L-134; B=H1-134				1	

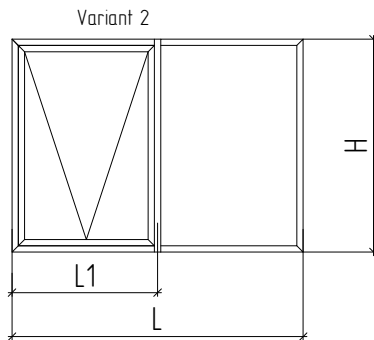
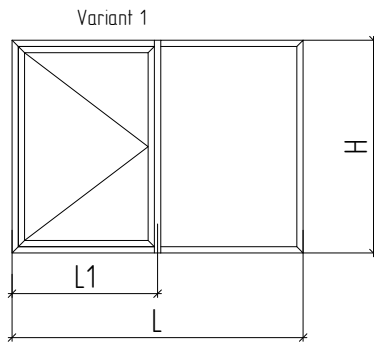


Glass bead profiles and rubber gaskets are chosen in accordance with infill unit thickness (see Section 06 – Glazing table).

Example of combined window calculation



Example of combined window calculation



Article	Name	Image			1...
Profile					
AYPC.W72.0101E	Frame profile			L3=L1-135	1
				L3=L1-135	1
				L4=L2-135	1
				L4=L2-135	1
				H	2
AYPC.W72.0240E	Sash profile			L5=L1-305	2
				H1=H-44	2
AYPC.W72.0339E	Transom bar profile			H	1
AYPC.C48.0603	Glass bead profile			L6=L5-116	2
				H2=H1-160	2
				L7=L2-405	2
				H3=H-98	2

Article	Name	Image	1...	Note
Accessories				
AYPC.W62.0917	Bearing support		8	Variant 1
			10	Variant 2
100x50x1(3)	Leveling support		8 (8)	Variant 1
			10 (10)	Variant 2
AYPC.C48.0919M-01	Drain plug		4	
AYPC.W62.0952-01	Clamping corner		4	
AYPC.W62.0952-02	Clamping corner		4	
AYPC.W62.0912	Plastic corner		8	
Pin 5x10	Pin 5x10 DIN6325D		32	
AYPC.W62.0957	Leveling corner		4	
AYPC.W62.0969	Clamping corner		4	
AYPC.W62.0953-05	Clamping corner		4	
AYPC.W62.0973	Transom fixing element		4	
AYPC.W62.0951	Transom fixing element		4	
AYPC.W62.0916	Foamed support		4	
AYPC.W62.0913	Plastic corner		4	

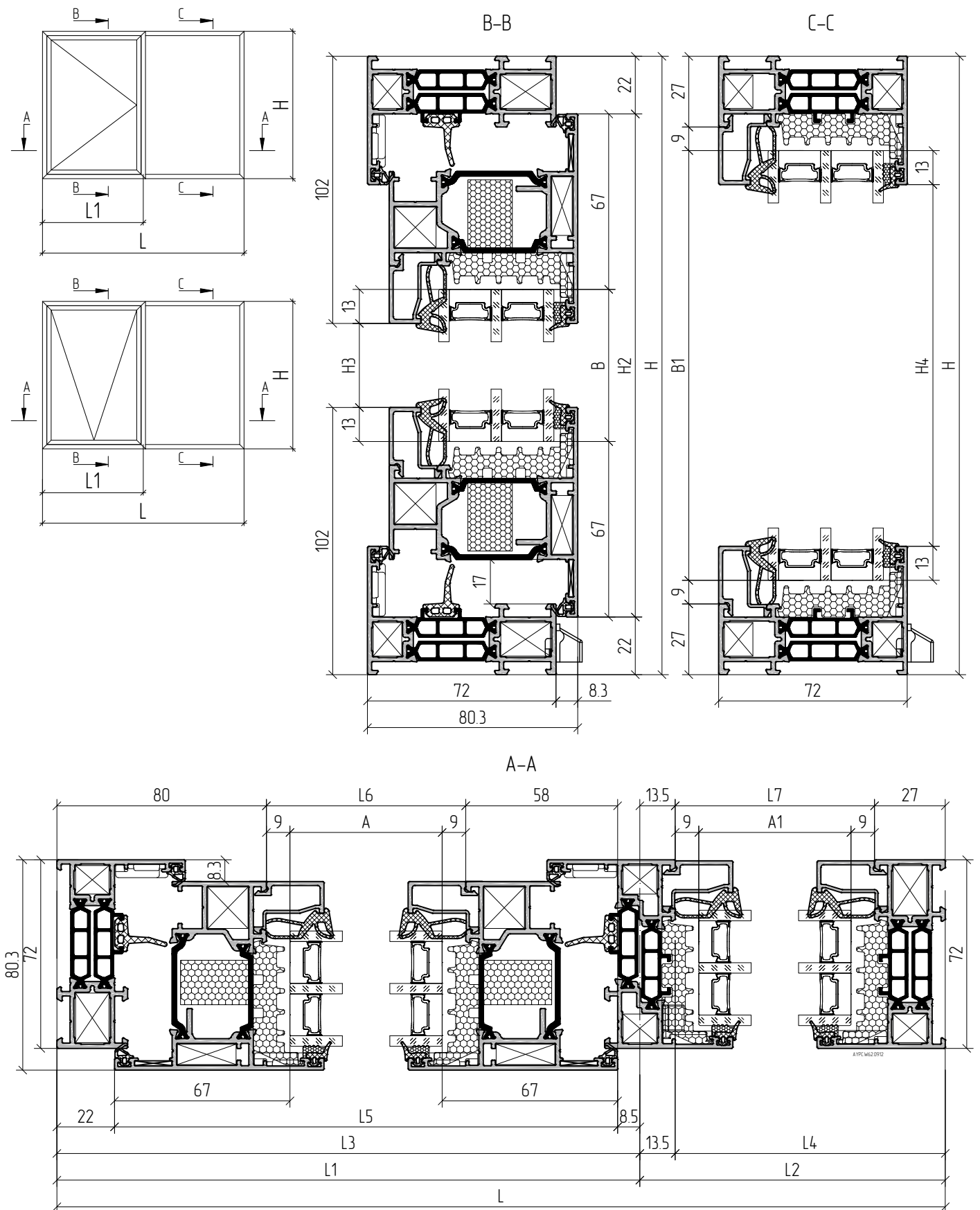
Article	Name	Image		1...	Note
FRK198	Rubber gasket		(L5+H1)x4	1	
FRK190	Rubber gasket		(L5+H1)x2	1	
* AYPC.W72.0911	Seam sealing		(A+B+A1+B1)x2-8x100**	1	Variant 1
			(A+B+A1+B1)x2-10x100**	1	Variant 2
* FRK194	Rubber gasket		(A+B+A1+B1)x2	1	
* FRK197	Rubber gasket		(A+B+A1+B1)x2	1	
* FRK179	Rubber corner			8	
44 mm infill unit					
				A=L5-134; B=H1-134	1
				A1=L2-58,5; B1=H-72	1



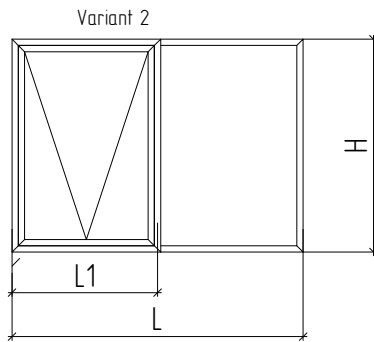
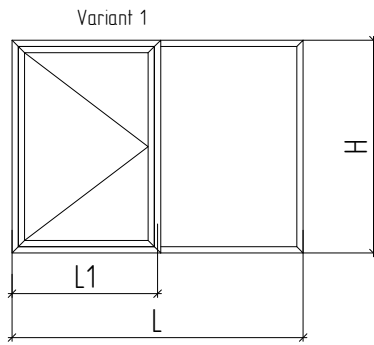
Glass bead profiles and rubber gaskets are chosen in accordance with infill unit thickness (see Section 06 – Glazing table).



Example of combined window calculation



Example of combined window calculation



Article	Name	Image			1...
Profile					
AYPC.W72.0101E	Frame profile			$L3=L1+13.5$	1
				$L3=L1+13.5$	1
				$L4=L2-13.5$	1
				$L4=L2-13.5$	1
				H	2
AYPC.W72.0240E	Sash profile			$L5=L1-30.5$	2
				$H2=H-4.4$	2
AYPC.W72.0339E	Transom bar profile			$H1=H+4.4$	1
AYPC.C48.0603	Glass bead profile			$L6=L5-116$	2
				$H3=H2-160$	2
				$L7=L2-40.5$	2
				$H4=H-98$	2

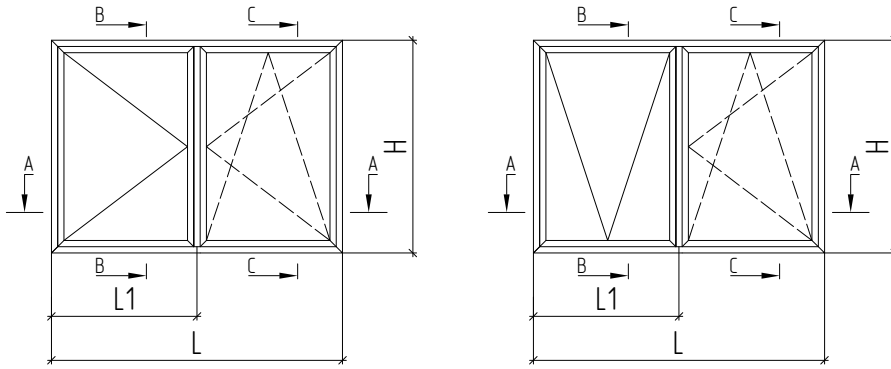
Article	Name	Image	1...	Note
Accessories				
AYPC.W62.0917	Bearing support		8	Variant 1
			10	Variant 2
100x50x1(3)	Leveling support		8 (8)	Variant 1
			10 (10)	Variant 2
AYPC.C48.0919M-01	Drain plug		4	
AYPC.W62.0952-01	Clamping corner		10	
AYPC.W62.0952-02	Clamping corner		2	
AYPC.W62.0912	Plastic corner		10	
Pin 5x10	Pin 5x10 DIN6325D		40	
AYPC.W62.0957	Leveling corner		4	
AYPC.W62.0969	Clamping corner		4	
AYPC.W62.0953-05	Clamping corner		4	
AYPC.W62.0973	Transom fixing element		2	
AYPC.W62.0951	Transom fixing element		2	
AYPC.W62.0916	Foamed support		2	
AYPC.W62.0913	Plastic corner		2	

Article	Name	Image		1...	Note
FRK198	Rubber gasket		$(L5+H1) \times 4$	1	
FRK190	Rubber gasket		$(L5+H1) \times 2$	1	
* AYPC.W72.0911	Seam sealing		$(A+B+A1+B1) \times 2 - 8 \times 100^{**}$	1	Variant 1
			$(A+B+A1+B1) \times 2 - 10 \times 100^{**}$	1	Variant 2
* FRK194	Rubber gasket		$(A+B+A1+B1) \times 2$	1	
* FRK197	Rubber gasket		$(A+B+A1+B1) \times 2$	1	
* FRK179	Rubber corner			8	
44 mm infill unit					
				A=L5-134; B=H2-134	1
				A1=L2-58.5; B1=H-72	1

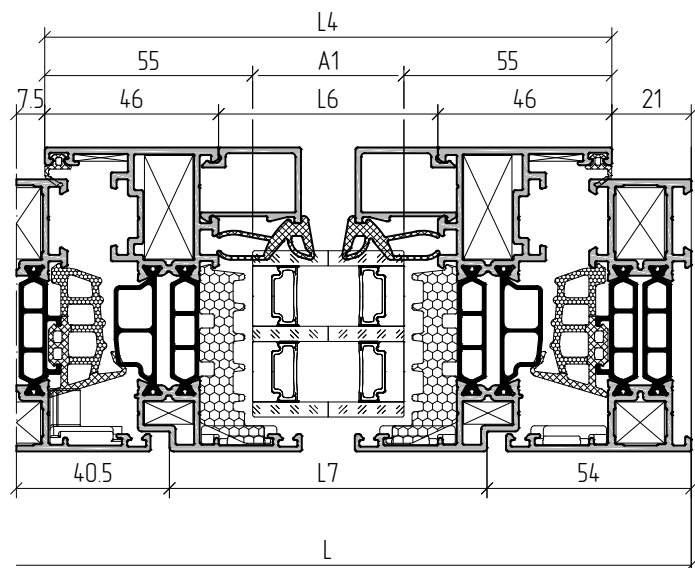
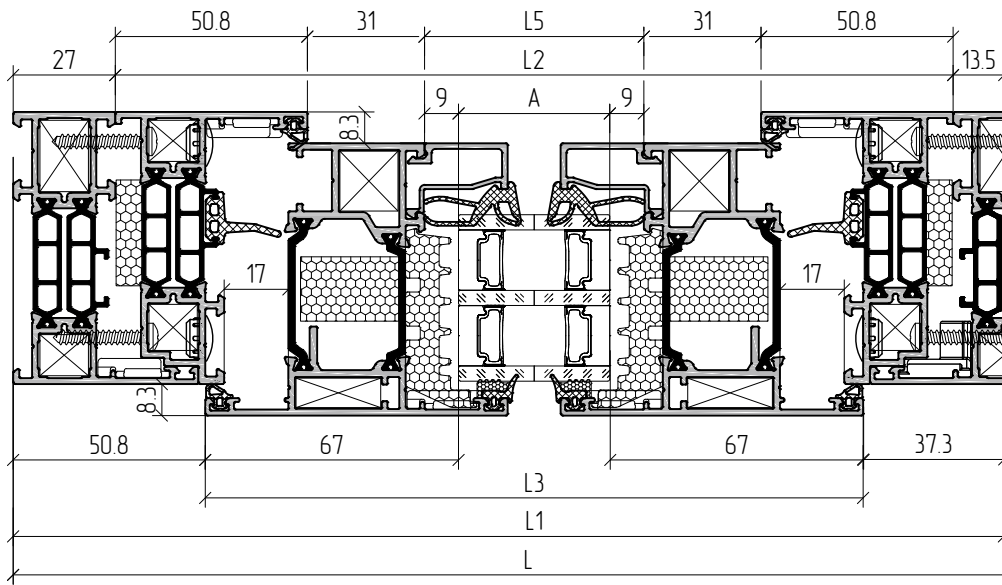


Glass bead profiles and rubber gaskets are chosen in accordance with infill unit thickness (see Section 06 – Glazing table).

Example of combined window calculation

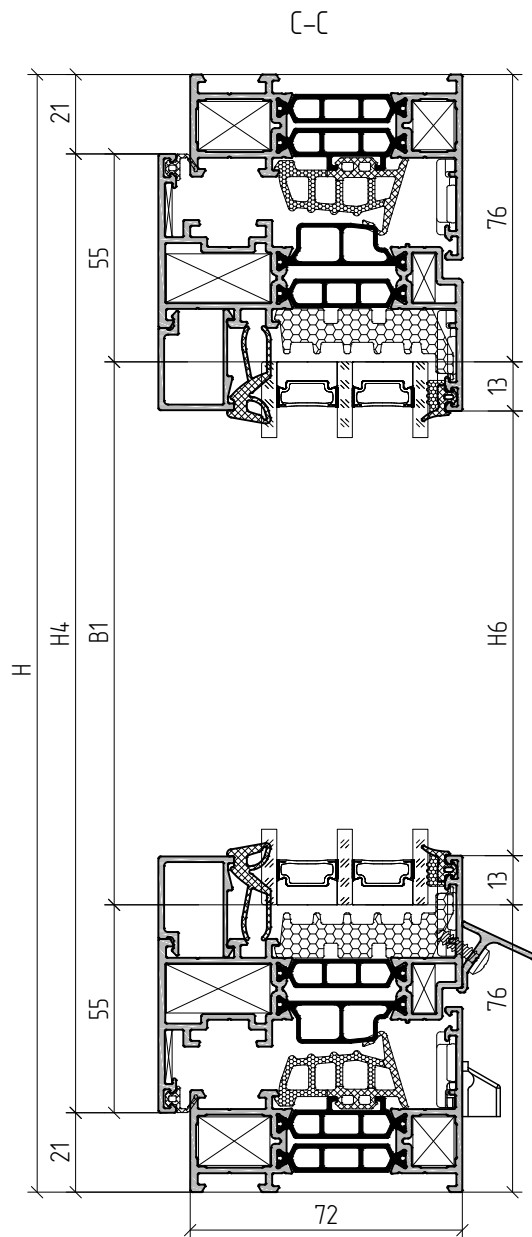
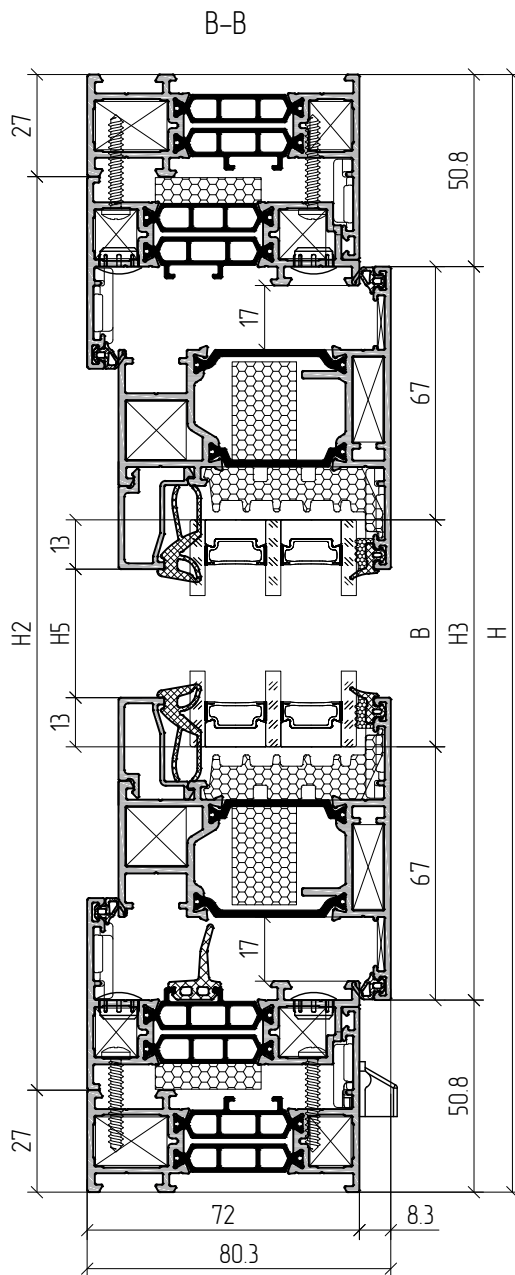
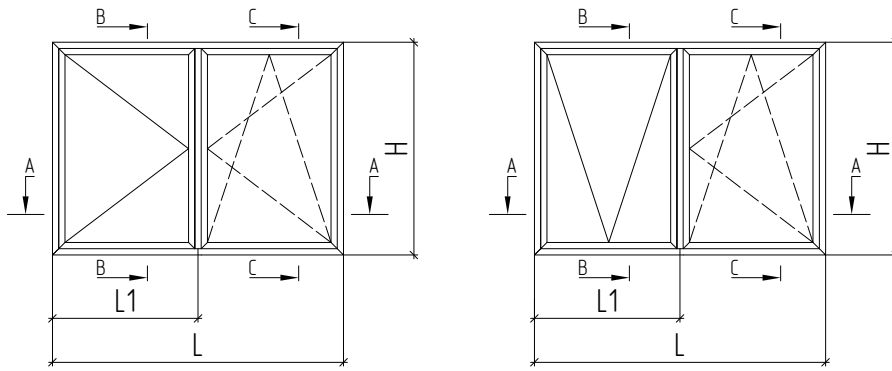


A-A

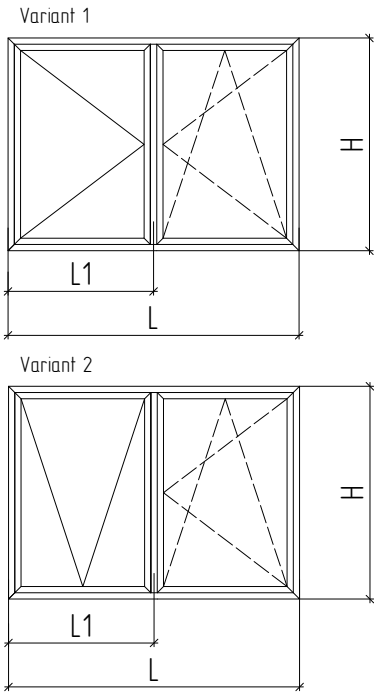


Glass bead profiles and rubber gaskets are chosen in accordance with infill unit thickness (see Section 06 – Glazing table).

Example of combined window calculation



Glass bead profiles and rubber gaskets are chosen in accordance with infill unit thickness (see Section 06 - Glazing table).



Article	Name	Image	1...	Note
Accessories				
AYPC.W62.0917	Bearing support		10	Variant 1
			12	Variant 2
100x50x1(3)	Leveling support		10 (10)	Variant 1
			12 (12)	Variant 2
AYPC.C48.0919M-01	Drain plug		4	
AYPC.W62.0952	Clamping corner		4	
AYPC.W62.0952-01	Clamping corner		8	
AYPC.W62.0952-02	Clamping corner		4	
AYPC.W62.0952-07	Clamping corner		4	
AYPC.W62.0952-03	Clamping corner		4	
AYPC.W62.0912	Plastic corner		16	
Pin 5x10	Pin 5x10 DIN6325D		64	
AYPC.W62.0957	Leveling corner		8	
AYPC.W62.0969	Clamping corner		4	
AYPC.W62.0953-05	Clamping corner		4	
AYPC.W62.0973	Transom fixing element		2	
AYPC.W62.0951	Transom fixing element		2	
AYPC.W62.0916	Foamed support		2	
AYPC.W62.0913	Plastic corner		4	
AYPC.W62.0999	Drain profile plugs kit		1	
3,9x13-A2 DIN7981	Screw		L7/250	
3,9x25-A2 DIN7981	Screw		(L2+H2)x4/450	
AYPC.SL160.0928	Decorative plug ø10			
PE21x8	Insert of heat-insulating		(L2+H2)x2	

Article	Name	Image		L	1...	Note
Profile						
AYPC.W72.0101E	Frame profile			L	2	
				H	2	
AYPC.W72.0301E	Transom bar profile			H1=H-54	1	
AYPC.W72.0820E	Adapter profile			L2=L-L1-40.5	2	
				H2=H1	2	
AYPC.W72.0240E	Sash profile			L3=L1-88.1	2	
				H3=H-101.6	2	
AYPC.W72.0221E	Sash profile			L4=L-L1-28.5	2	
				H4=H-4.2	2	
AYPC.C48.0611	Drain profile			L7=L-L1-94.5-3	1	
AYPC.C48.0612 (AYPC.W62.0607)	Rod profile			-	1	
AYPC.C48.0605	Glass bead profile			L5=L3-116	2	
				H5=H3-160	2	
AYPC.C48.0603	Glass bead profile			L6=L4-92	2	
				H6=H4-136	2	
Article	Name	Image		L	1...	Note
FRK198	Rubber gasket			(L3+H3)x4	1	
FRK190	Rubber gasket			(L3+H3)x2	1	
FRK98	Rubber gasket			(L4+H4)x2	1	
FRK195	Rubber gasket			(L4+H4)x2	1	
FRK196	Rubber corner				4	
* AYPC.W72.0911	Seam sealing			(A+B+A1+B1)x2-14x100**	1	Variant 1
				(A+B+A1+B1)x2-16x100**	1	Variant 2
* FRK194	Rubber gasket			(A+B+A1+B1)x2	1	
* FRK197	Rubber gasket			(A+B+A1+B1)x2	1	
* FRK179	Rubber corner				8	
44 mm infill unit						
A=L5-134; B=H1-134					1	
A1=L2-58.5; B1=H-72					1	





**ALUTECH ALTW72CW**  
Window system with  
thermal break

# Statics

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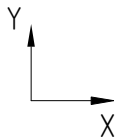
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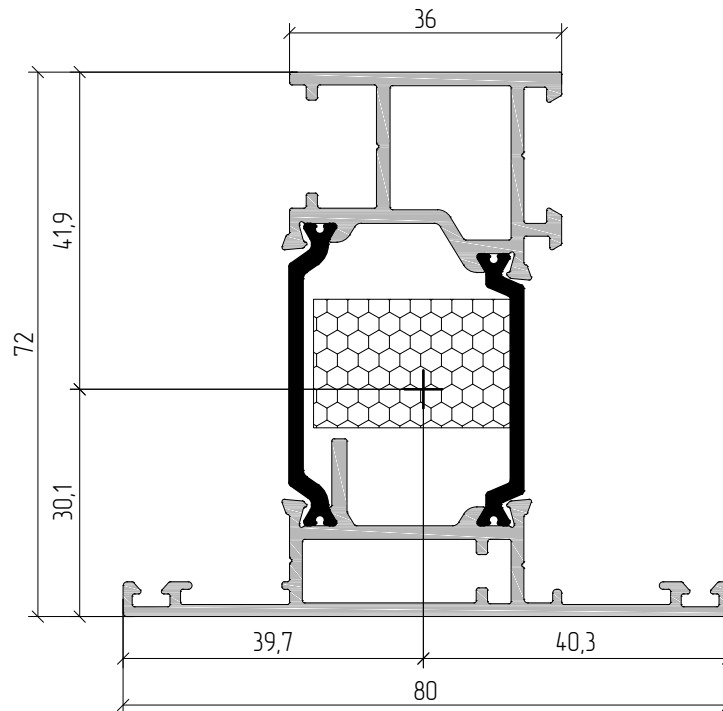




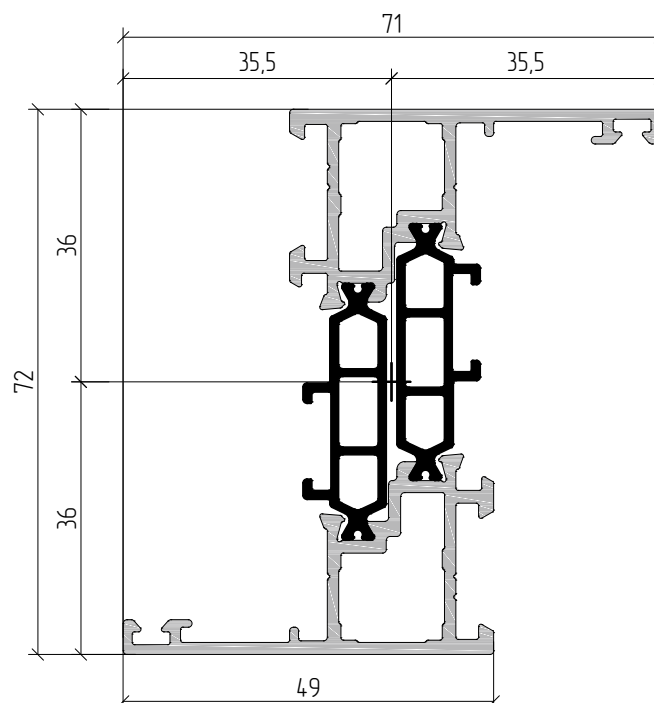
## Profile geometry data



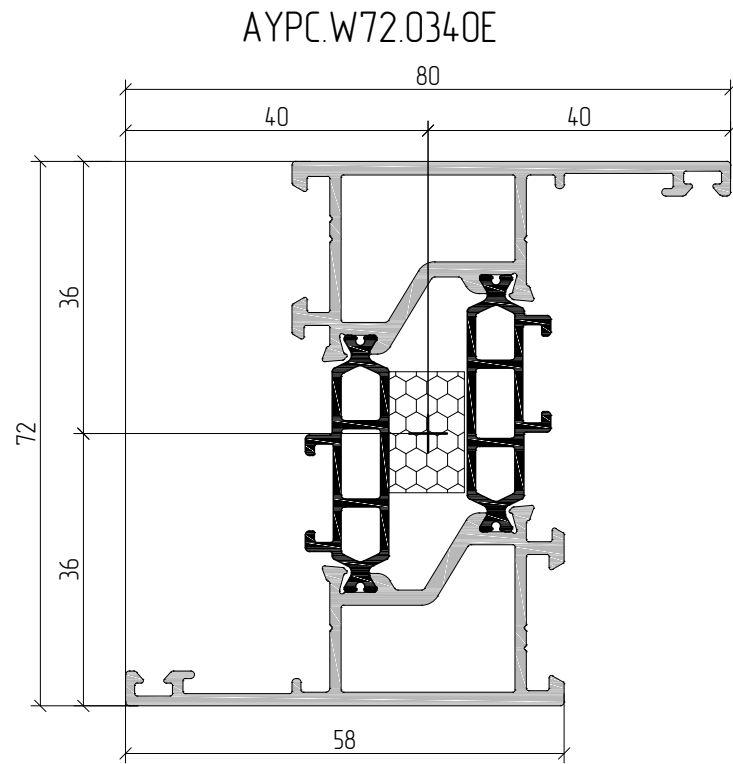
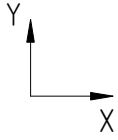
AYPC.W72.0240E



AYPC.W72.0339E



Profile	t, kg/rm	S, mm <sup>2</sup>	Jx, sm <sup>4</sup>	Wx, sm <sup>3</sup>	ax, mm	Jy, sm <sup>4</sup>	Wy, sm <sup>3</sup>	ay, mm
AYPC.W72.0240E	167	699.8	30.6	10.2	30.1	14.2	3.5	40.3
AYPC.W72.0339E	150	665.2	26.4	7.3	36.0	8.5	2.4	35.5



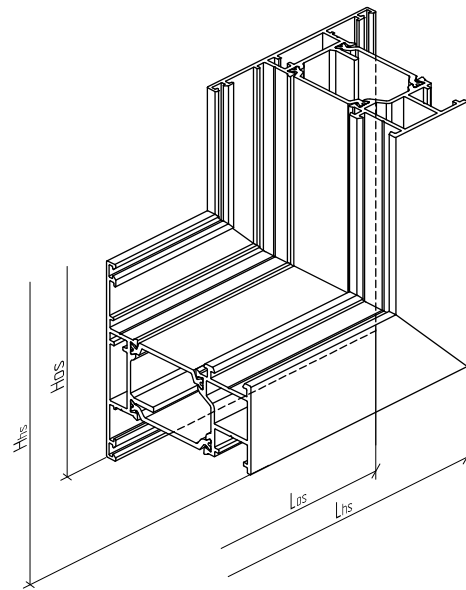
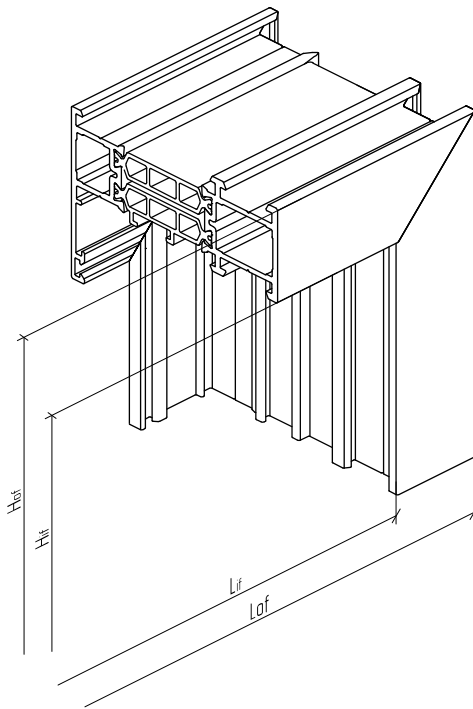


**ALUTECH ALTW72CW**  
Window system with  
thermal break

# Hardware

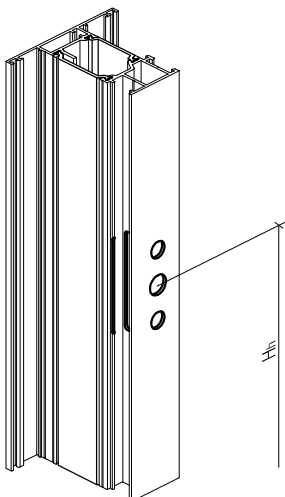


List with the dimensions



$L_{of}$  – outer frame width;  
 $L_{if}$  – internal frame width;  
 $H_{of}$  – outer frame height;  
 $H_{if}$  – internal frame height;

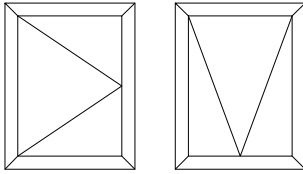
$L_{os}$  – outer sash width;  
 $L_{hs}$  – sash width for hardware installation;  
 $H_{os}$  – outer sash height;  
 $H_{hs}$  – sash height for hardware installation;



$H_h$  – the distance from the bottom of the sash to the axis of the handle (the handle is installed in the middle of the sash)

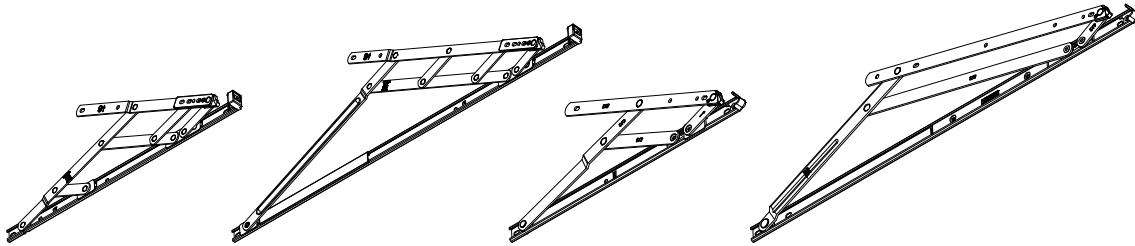
## Exterior opening window hardware

Standard systems

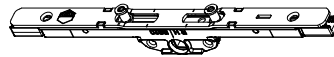


Exterior opening window hardware kit includes:

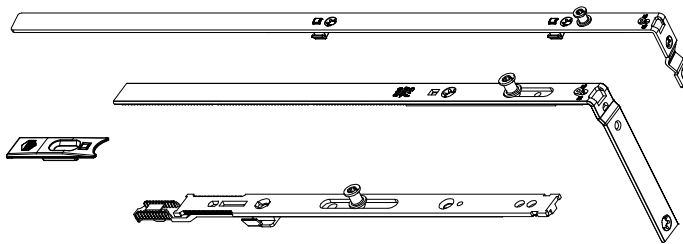
1. Securistyle friction hinges for exterior opening windows Side hung and Top hung (Defender, Sterling)



2. Basket 20 mm (MACO) (D=20)



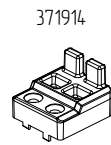
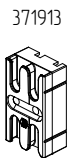
3. MACO shootbolt extensions



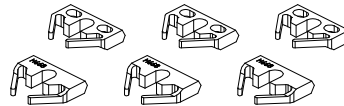
4. MACO shootbolt center locks



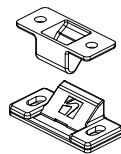
5. MACO striker plate



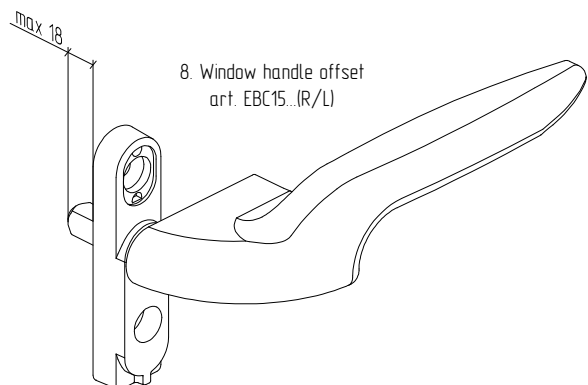
6. GIESSE 01974 friction hinges support



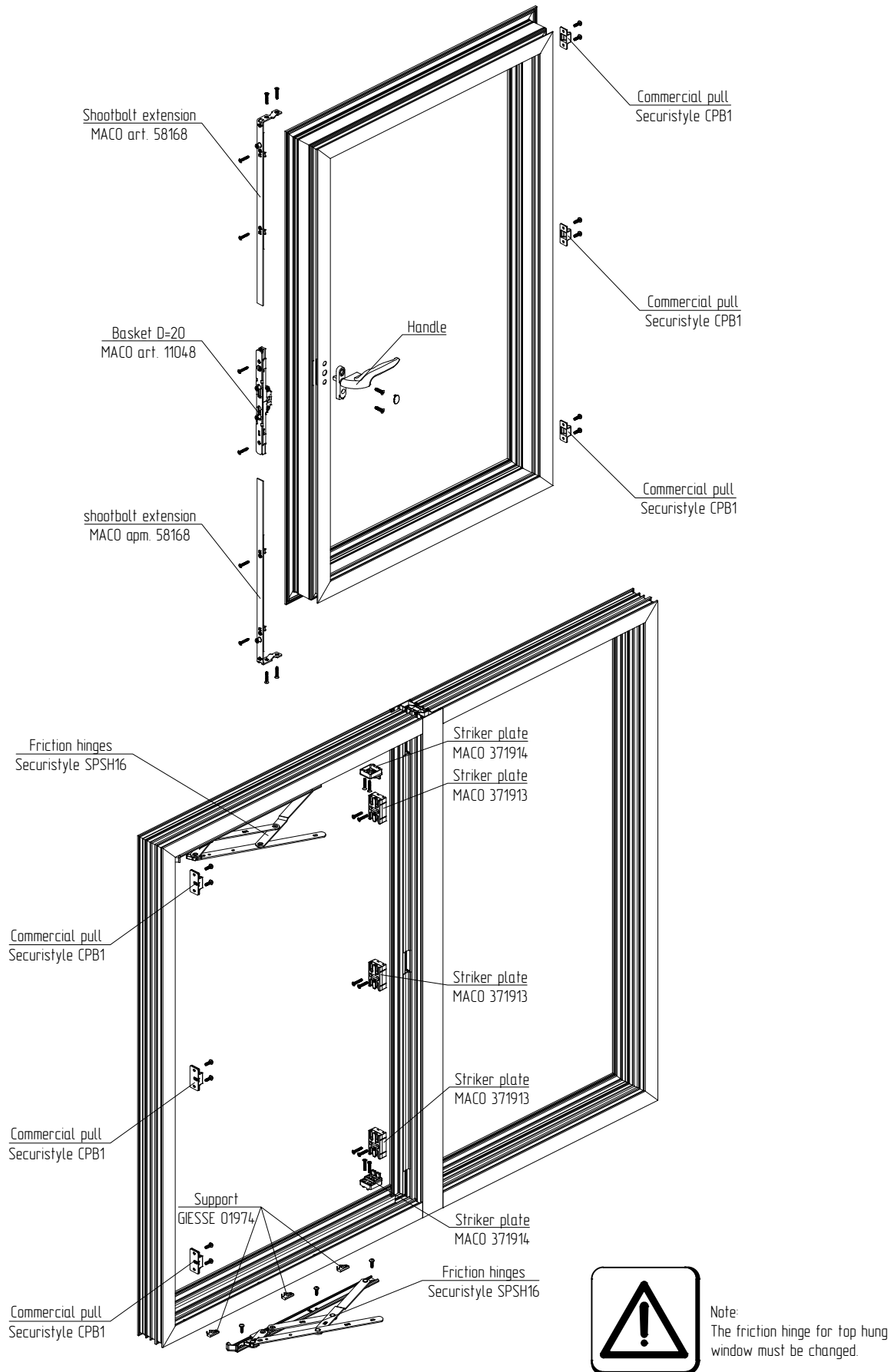
7. Commercial pull in blocks Securistyle CPB1



8. Window handle offset art. EBC15..(R/L)



Example of exterior opening casement window hardware kit (Side hung)



01

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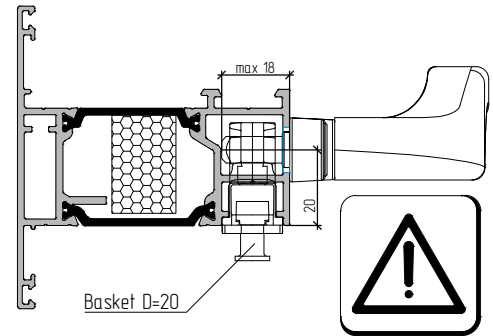
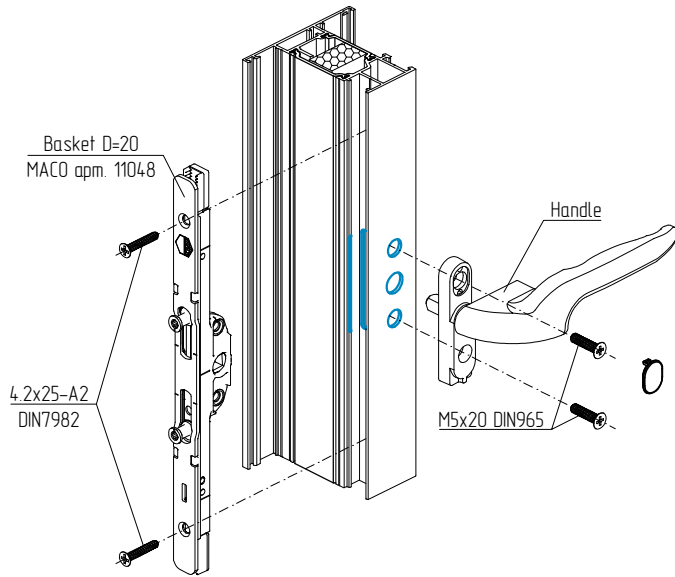
09

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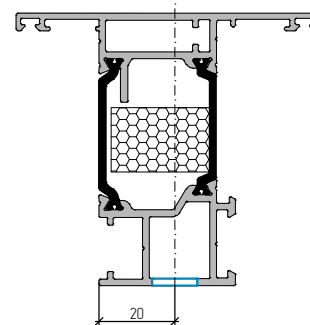
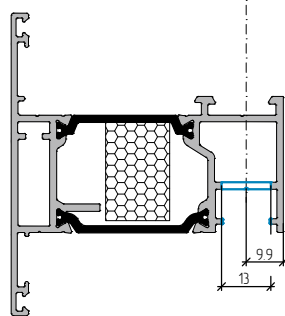
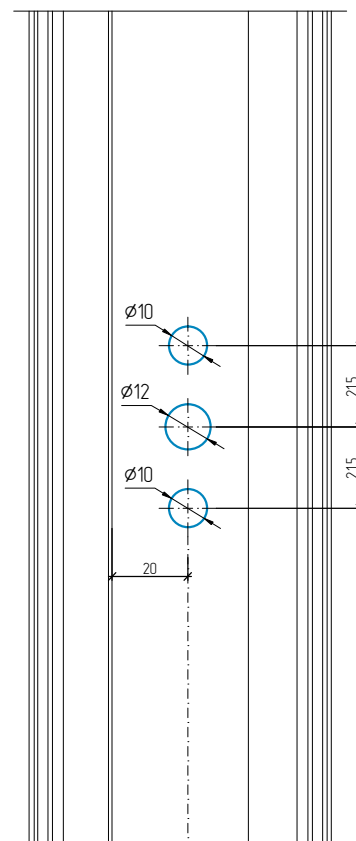
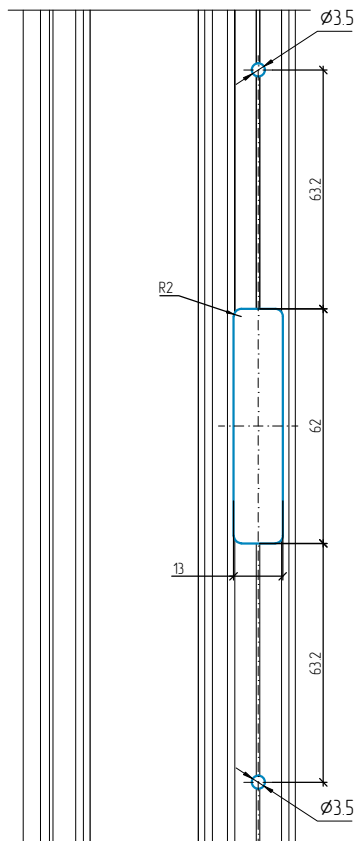
11

12

Sash profile machining for basket and handle installation



Dornmass - 20 mm.  
Before handle installation cut the quadrate till the indicated length if necessary



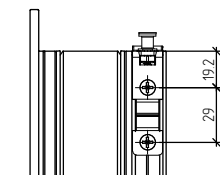
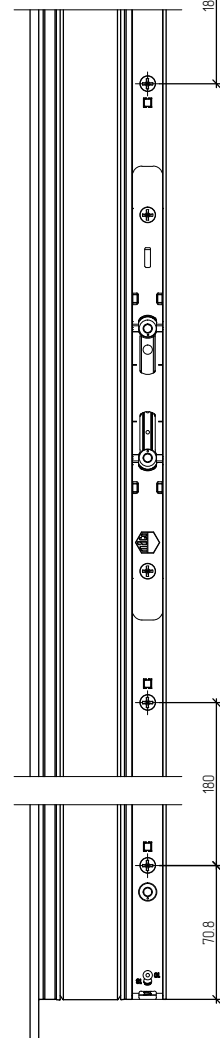
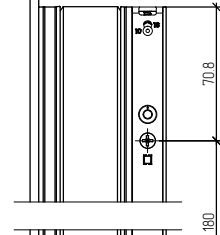
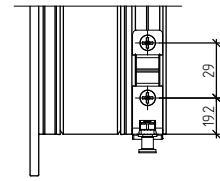
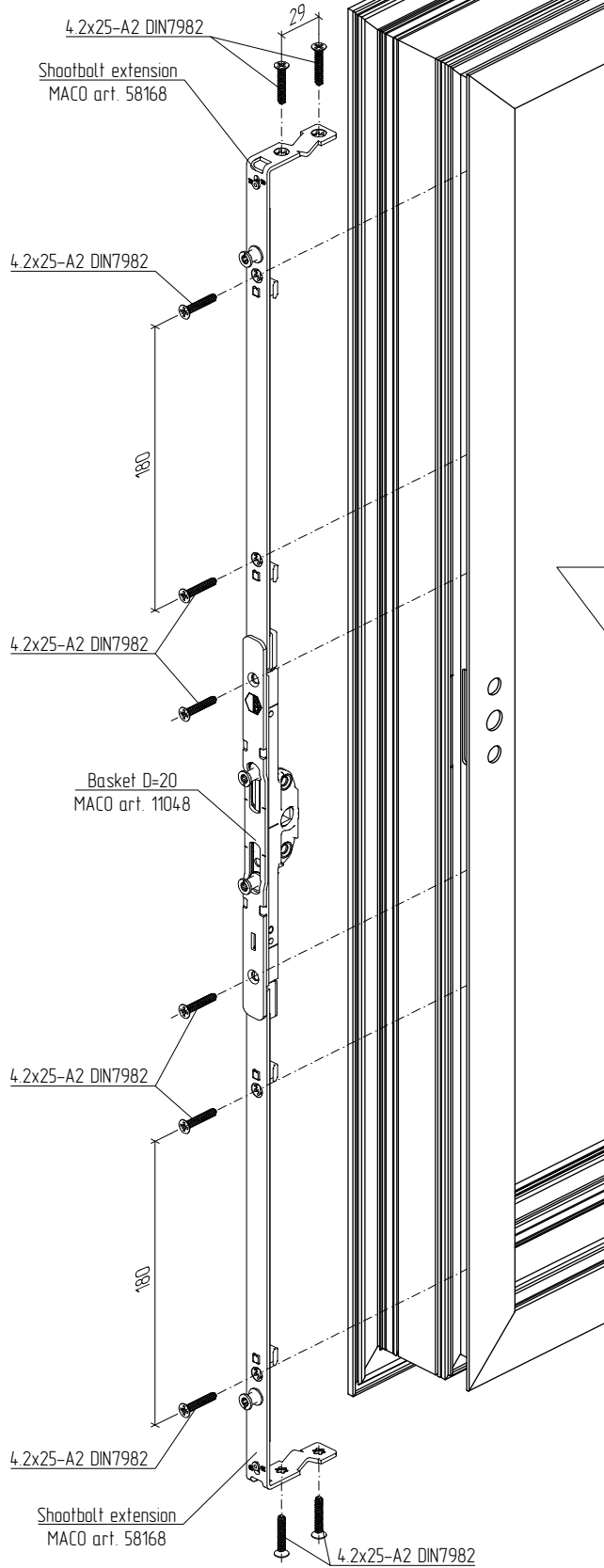
Machining dimensions may vary depending on the type and on the hardware manufacturer



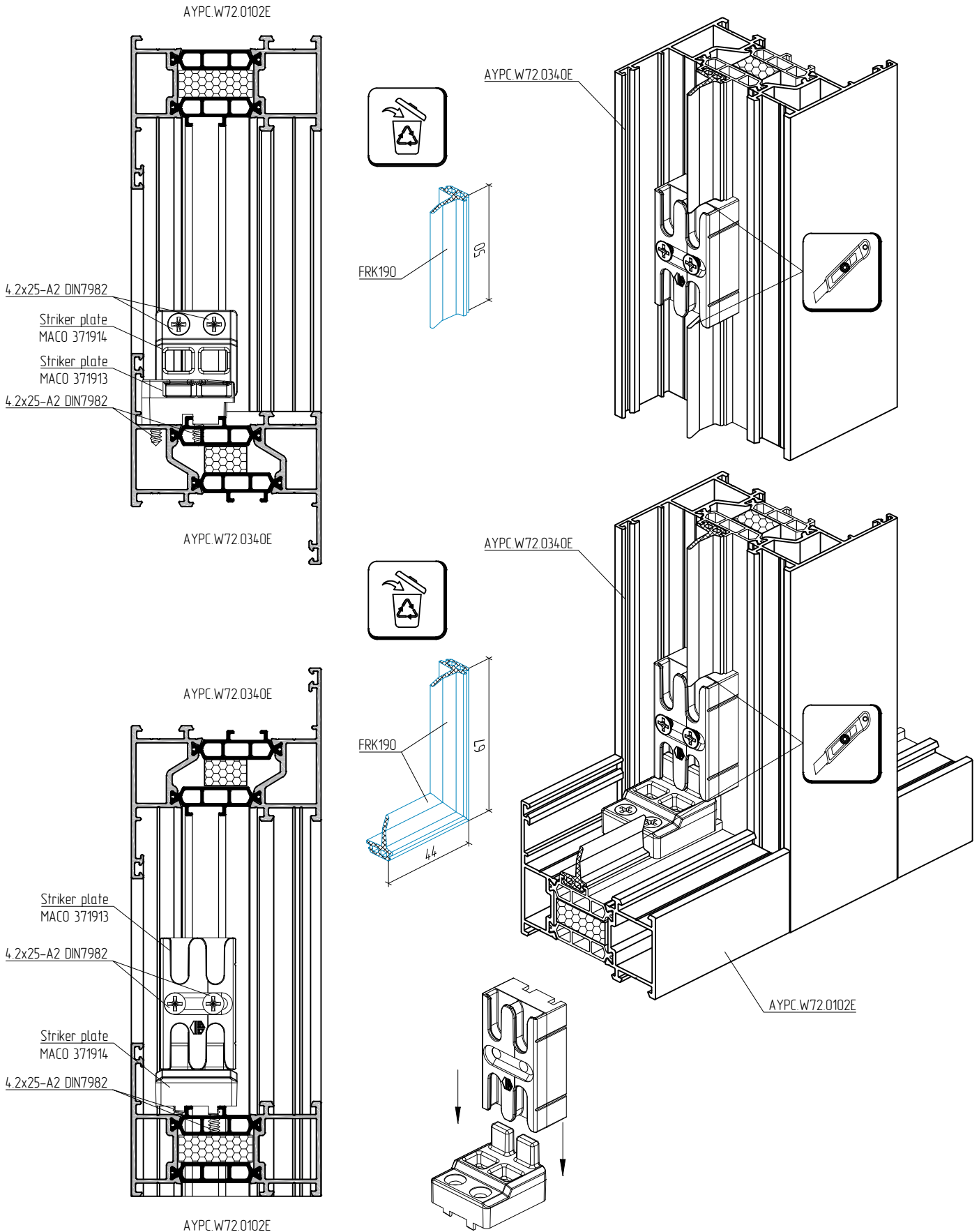
Shootbolt extensions installation on the sash



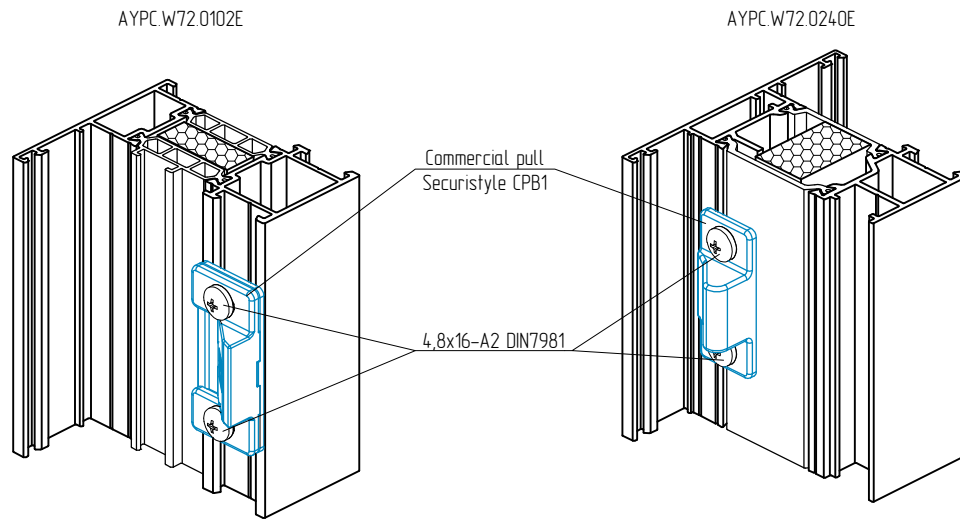
Machining dimensions could differ depending on the type and on the hardware manufacturer



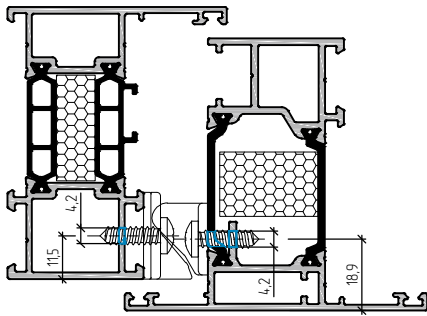
Striker plates installation on the window unit



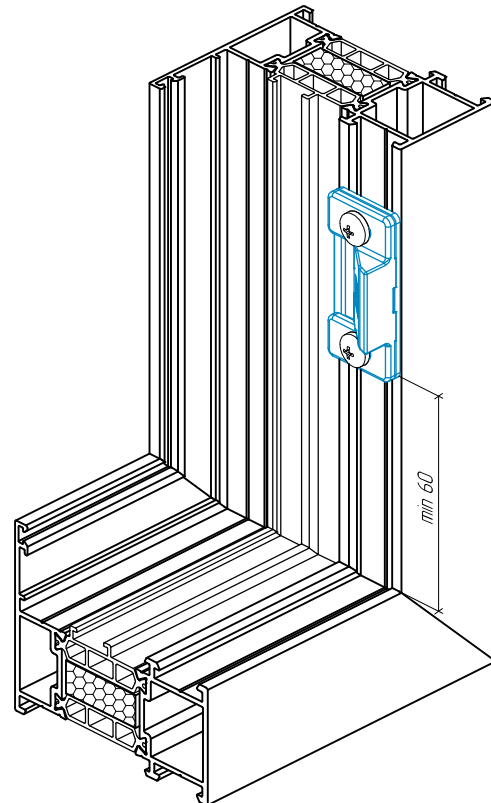
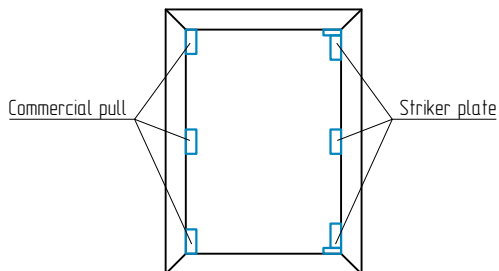
Commercial pull in blocks installation on the frame and on the sash



Frame and sash profile machining for 4,8x16-A2 DIN7981



Commercial pull in blocks allocation scheme



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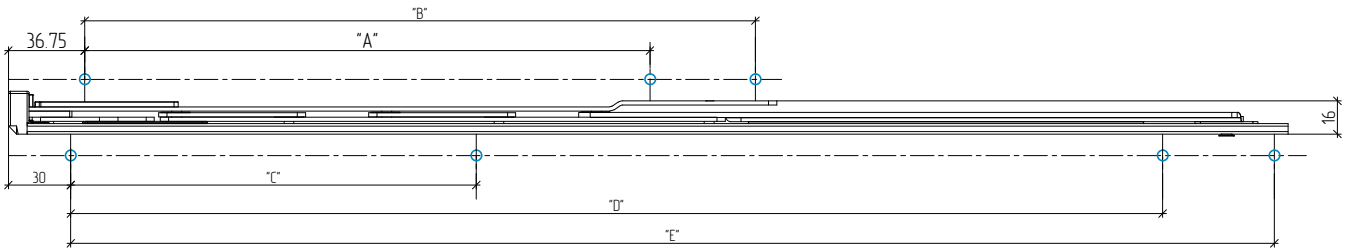
10

11

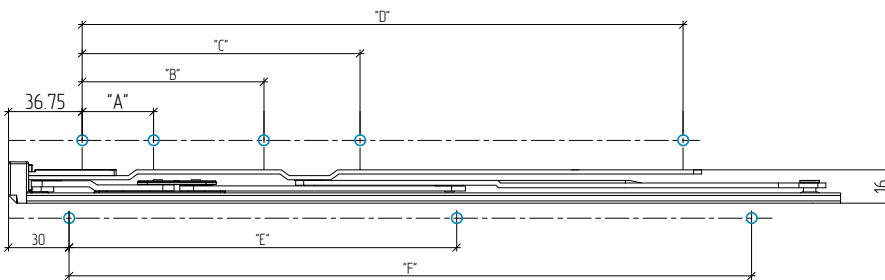
12

Machining for Securistyle Defender&Sterling friction hinges installation

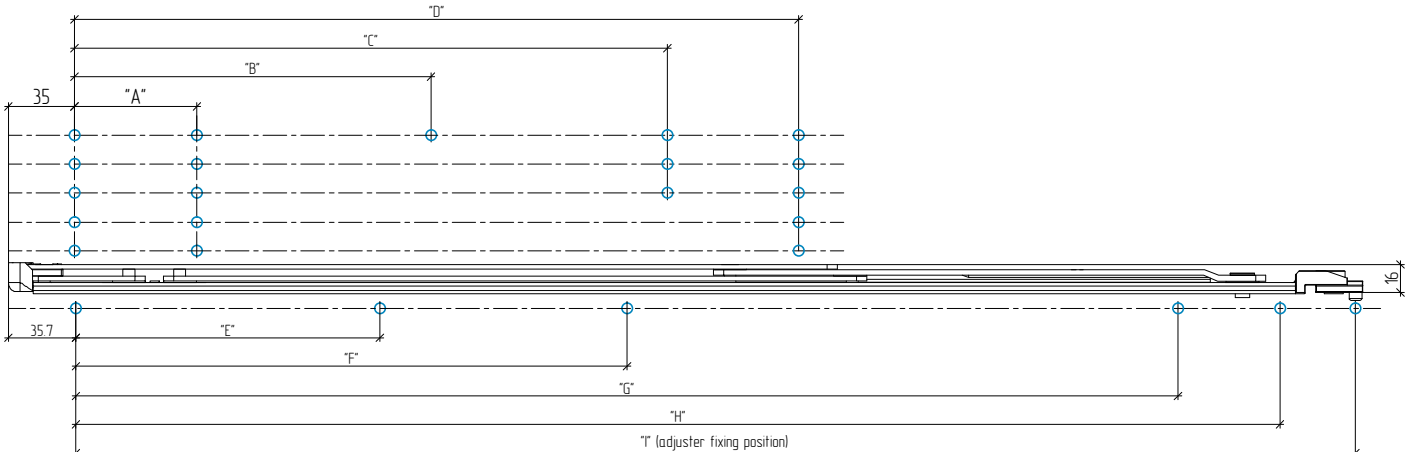
Description "Defender"		Max. vent Weight (kg)	Min. vent Height (mm)	Max. vent Height (mm)	Min. vent Width (mm)	Max. vent Width (mm)	Vent fixing		Frame fixing		
							"A"	"B"	"C"	"D"	"E"
Top Hung	EDT12H6	20	400	500	-	-	95.0	152.75	209.5	-	274.0
	EDT16H6	21	501	700	-	-	152.75	220.5	281.2	-	375.6
	EDT20H6	26	701	1090	-	-	220.5	271.75	246.8	-	477.2
	EDT24H6	40	850	1300	-	-	271.75	322.5	195.0	-	578.8
	EDTH24H6	50	850	1500	-	-	271.75	322.5	195.0	525.0	578.8
Side Hung	EDS12H6	22	-	-	400	600	119.6	188.25	195.0	-	274.0
	EDS16H6	24	-	-	400	700	152.75	220.5	209.5	327.0	375.6



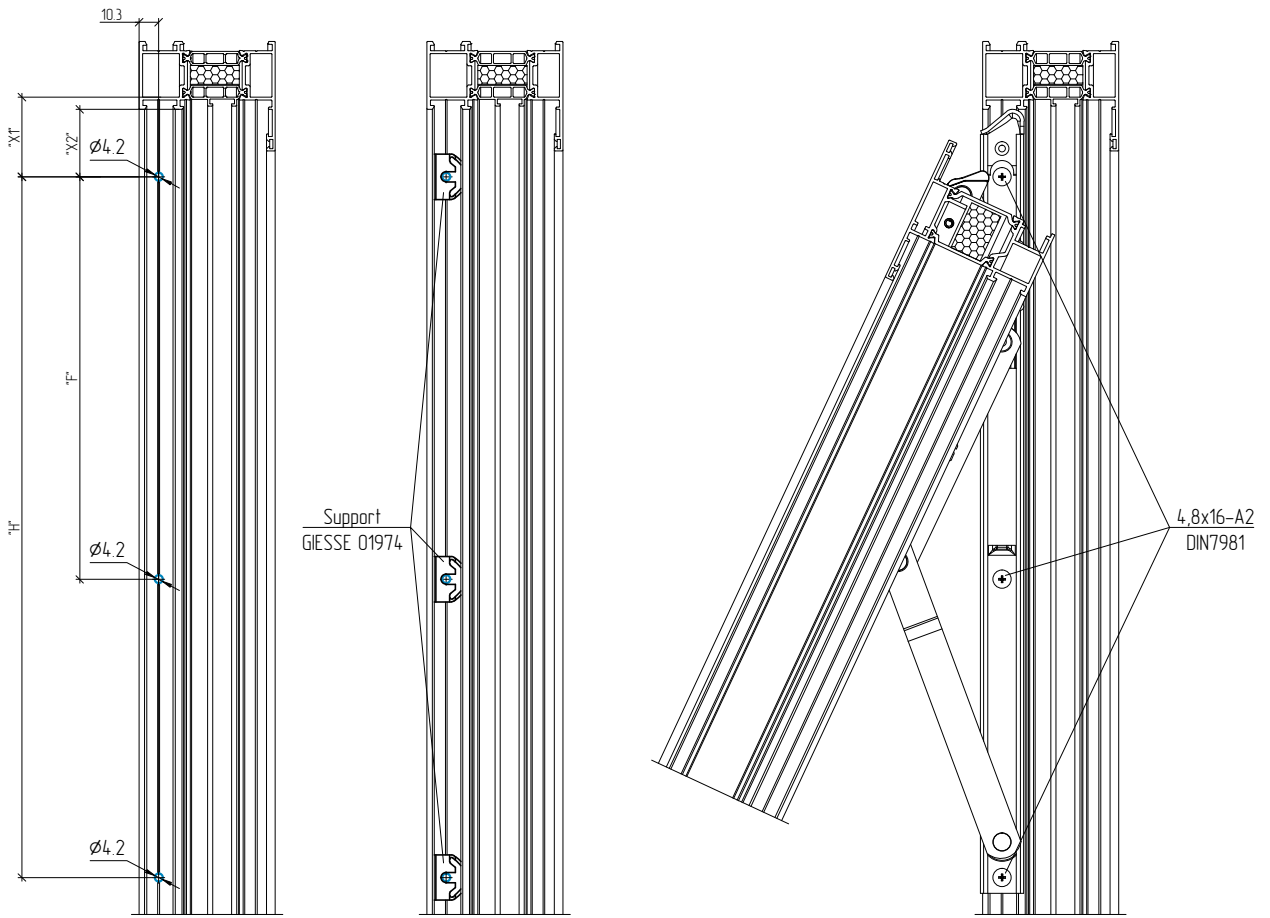
Description "Defender"		Max. vent Weight (kg)	Min. vent Height (mm)	Max. vent Height (mm)	Min. vent Width (mm)	Max. vent Width (mm)	Vent fixing				Frame fixing	
							"A"	"B"	"C"	"D"	"E"	"F"
SIDE HUNG	EDSH16H6A	40	-	-	400	1000	35.3	89.9	137.6	297.6	192.0	338.0



Description "Sterling"		Max. vent Weight (kg)	Min. vent Height (mm)	Max. vent Height (mm)	Min. vent Width (mm)	Max. vent Width (mm)	Vent fixing				Frame fixing				
							"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"
Top Hung	SPT10	40	400	635	-	-	40.8	-	-	165.1	-	177.8	-	218.2	-
	SPT12	50	636	787	-	-	65.0	-	-	190.1	-	212.7	-	269.0	-
	SPT16/SPT16W	65	788	1090	-	-	118.4	-	-	241.2	215.7	304.0	-	370.6	-
	SPT22	100	1091	1500	-	-	65.0	-	203.2	317.4	251.3	418.3	-	523.0	-
	SPT22W	100	1501	2000	-	-	80.0	-	235.8	350.0	-	295.4	-	526.5	-
	SPT26	180	2001	2200	-	-	65.0	189.0	314.4	383.9	161.4	292.4	584.5	638.5	676.8
Side Hung	SPSH16	55	-	-	450	838	65.0	-	-	241.2	-	212.9	-	370.6	-



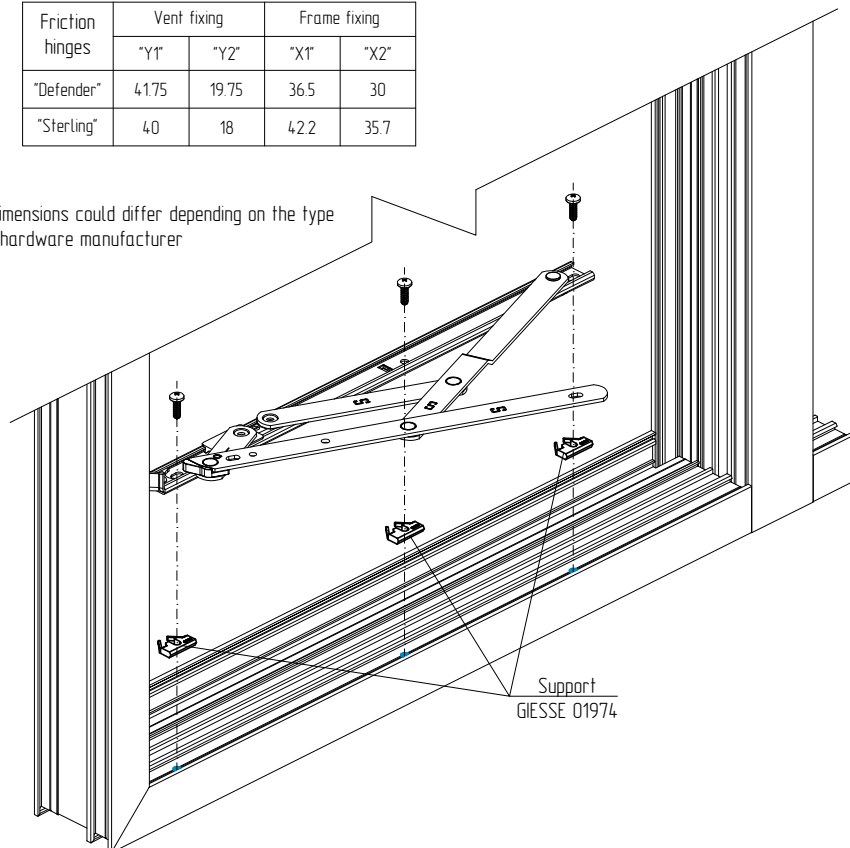
Frame profile machining for friction hinges installation



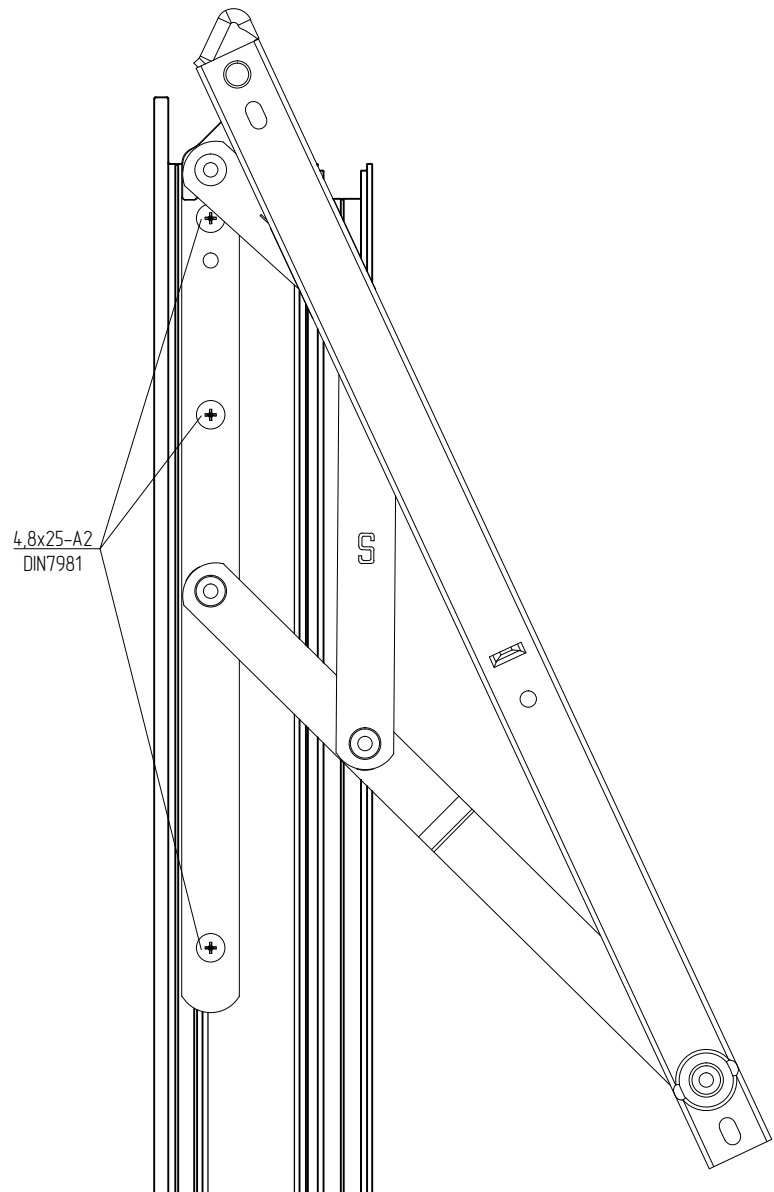
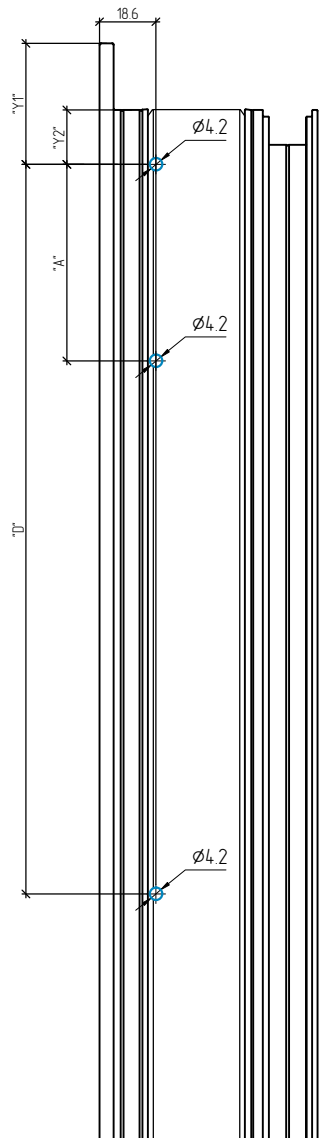
Friction hinges	Vent fixing		Frame fixing	
	"Y1"	"Y2"	"X1"	"X2"
"Defender"	41.75	19.75	36.5	30
"Sterling"	40	18	42.2	35.7



Machining dimensions could differ depending on the type and on the hardware manufacturer

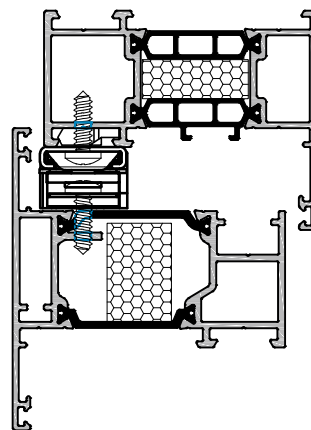


Sash profile machining for friction hinges installation



Friction hinges	Vent fixing		Frame fixing	
	"Y1"	"Y2"	"X1"	"X2"
"Defender"	41.75	19.75	36.5	30
"Sterling"	40	18	42.2	35.7

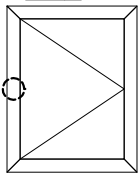
Window friction hinges installation



Machining dimensions could differ depending on the type and on the hardware manufacturer

Hardware for exterior opening window

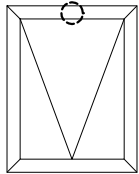
Kit A (Side Hung (H) / Top Hung (L))



- pos.1 - Basket 20 mm (MACO) - art.11048 - 1 pcs.
- pos.6 - Mushroom blanking plate (MACO) -art. 371913 - 3 pcs.
- pos.7 - Shootbolt striker plate (MACO) - art. 371914 - 2 pcs.
- pos.9 - Friction hinges support (Giesse)- art. 01974 - 1 set
- pos.10 - Window handle offset - art. H2-15 (R/L) - 1 pcs.

L/H=400..800mm

Side Hung



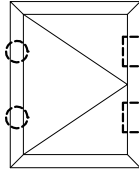
Top Hung

- pos.2 - Shootbolt extensions (MACO) (by matching):  
- art. 58161 - (400..800) - 2 pcs.
- pos.8 - Commercial pull in blocks (Securistyle) - art. CPB1 - 2 pcs.

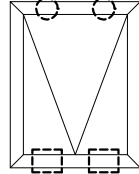
L/H=801..1400mm

- pos.2 - Shootbolt extensions (MACO) (by matching):  
- art. 58168 - (801..1100) - 2 pcs.  
- art. 58169 - (1101..1400) - 2 pcs.
- pos.8 - Commercial pull in blocks (Securistyle) - art. CPB1 - 3 pcs.

Kit B (Side Hung (H) / Top Hung (L))



Side Hung



Top Hung

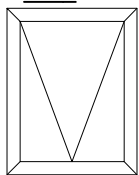
- pos.1 - Basket 20 mm (MACO) - art.11048 - 1 pcs.
- pos.7 - Shootbolt striker plate (MACO) - art. 371914 - 2 pcs.
- pos.9 - Friction hinges support (Giesse)- art. 01974 - 1 set
- pos.10 - Window handle offset - art. H2-15 (R/L) - 1 pcs.
- pos.3 - Extension 250 mm (MACO) - art. 101530 - 2 pcs.

L/H=1401..1900mm

- pos.2 - Extension (MACO) (by matching):  
- art. 58168 - (1401-1600) - 2 pcs.  
- art. 58169 - (1601-1900) - 2 pcs.

- pos.6 - Mushroom blanking plate (MACO) - art. 371913 - 5 pcs.
- pos.8 - Commercial pull in blocks (Securistyle) - art. CPB1 - 5 pcs.

Kit C



Top Hung

- pos.1 - Basket 20 mm (MACO) - art.11048 - 1 pcs.
- pos.5 - Shootbolt center locks (MACO) (by matching):  
- art. 220036 - (H=1091..1300mm) - 2 pcs.  
- art. 220037 - (H=1301..2200mm) - 2 pcs.
- pos.6 - Mushroom blanking plate (MACO) - art. 371913 - 5 pcs.
- pos.7 - Shootbolt striker plate (MACO) - art. 371914 - 2 pcs.
- pos.9 - Friction hinges support (Giesse)- art. 01974 - 1 set
- pos.10 - Window handle offset - art. H2-15 (R/L) - 1 pcs.

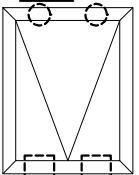
L=500..800mm

- pos.4 - Shootbolt extensions (MACO) - art. 220232 - 2 pcs.
- pos.8 - Commercial pull in blocks (Securistyle) - art. CPB1 - 2 pcs.

L=801..1100mm

- pos.4 - Shootbolt extensions (MACO) - art. 220233 - 2 pcs.
- pos.8 - Commercial pull in blocks (Securistyle)- art. CPB1 - 3 pcs.

Kit D



Top Hung

- pos.1 - Basket 20 mm (MACO) - art.11048 - 1 pcs.
- pos.4 - Shootbolt extensions (MACO) - art. 220232 - 2 pcs.
- pos.5 - Shootbolt center locks (MACO) (by matching):  
- art. 220036 - (H=1091..1300mm) - 2 pcs.  
- art. 220037 - (H=1301..2200mm) - 2 pcs.
- pos.6 - Mushroom blanking plate (MACO) - art. 371913 - 7 pcs.
- pos.7 - Shootbolt striker plate (MACO) - art. 371914 - 2 pcs.
- pos.8 - Commercial pull in blocks (Securistyle) - art. CPB1 - 5 pcs.
- pos.9 - Friction hinges support (Giesse)- art. 01974 - 1 set
- pos.10 - Window handle offset - art. H2-15 (R/L) - 1 pcs.

L=1101..1300mm

- pos.3 - Extension 250 mm (MACO) - art. 101530 - 2 pcs.
- pos.10 - Window handle offset - art. H2-15 (R/L) - 1 pcs.

L=1301..1720mm

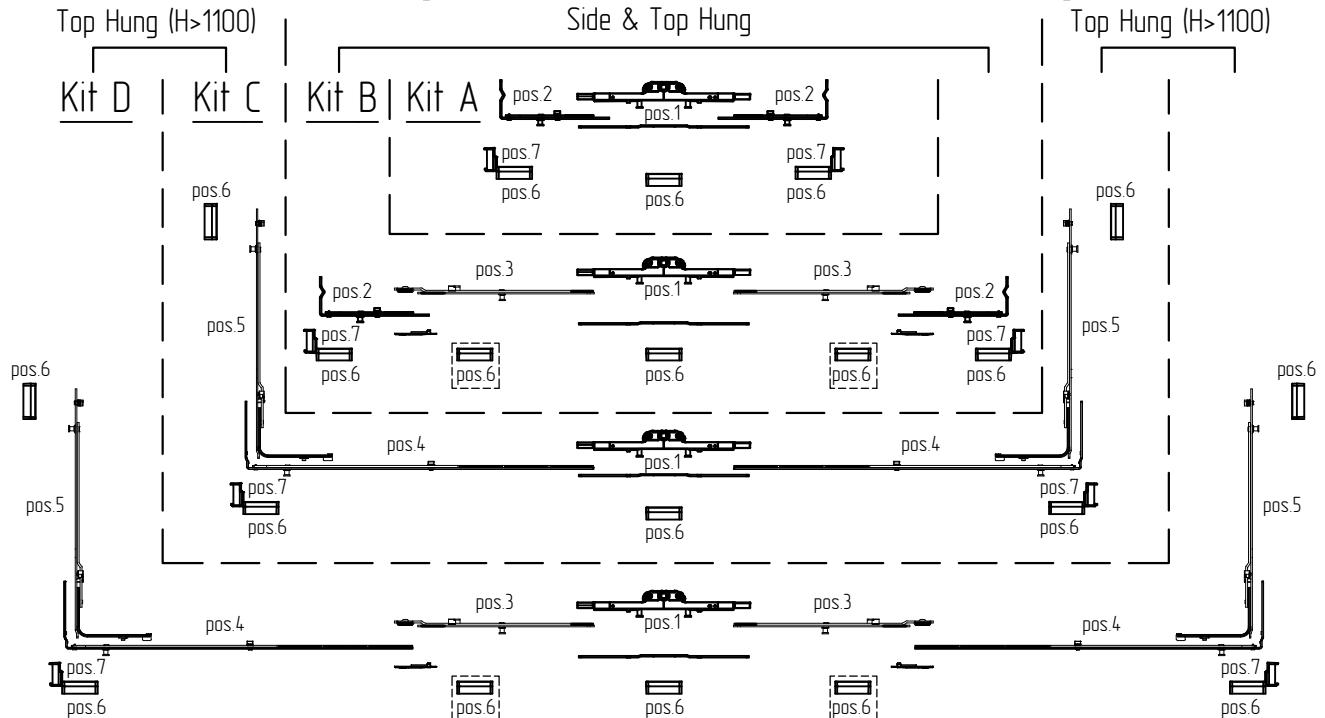
- pos.3 - Extension 600 mm (MACO) - art. 102859 - 2 pcs.

Art. S7280 - Adjustment blocks (Securistyle) - 2 pcs.

Used on top hung vents over 100kg and optional on lighter vents.

Suitable for use with all securistyle commercial hinges this product provides easy alignment of heavy vents on site.

Exterior opening window hardware installation scheme (Side & Top Hung)



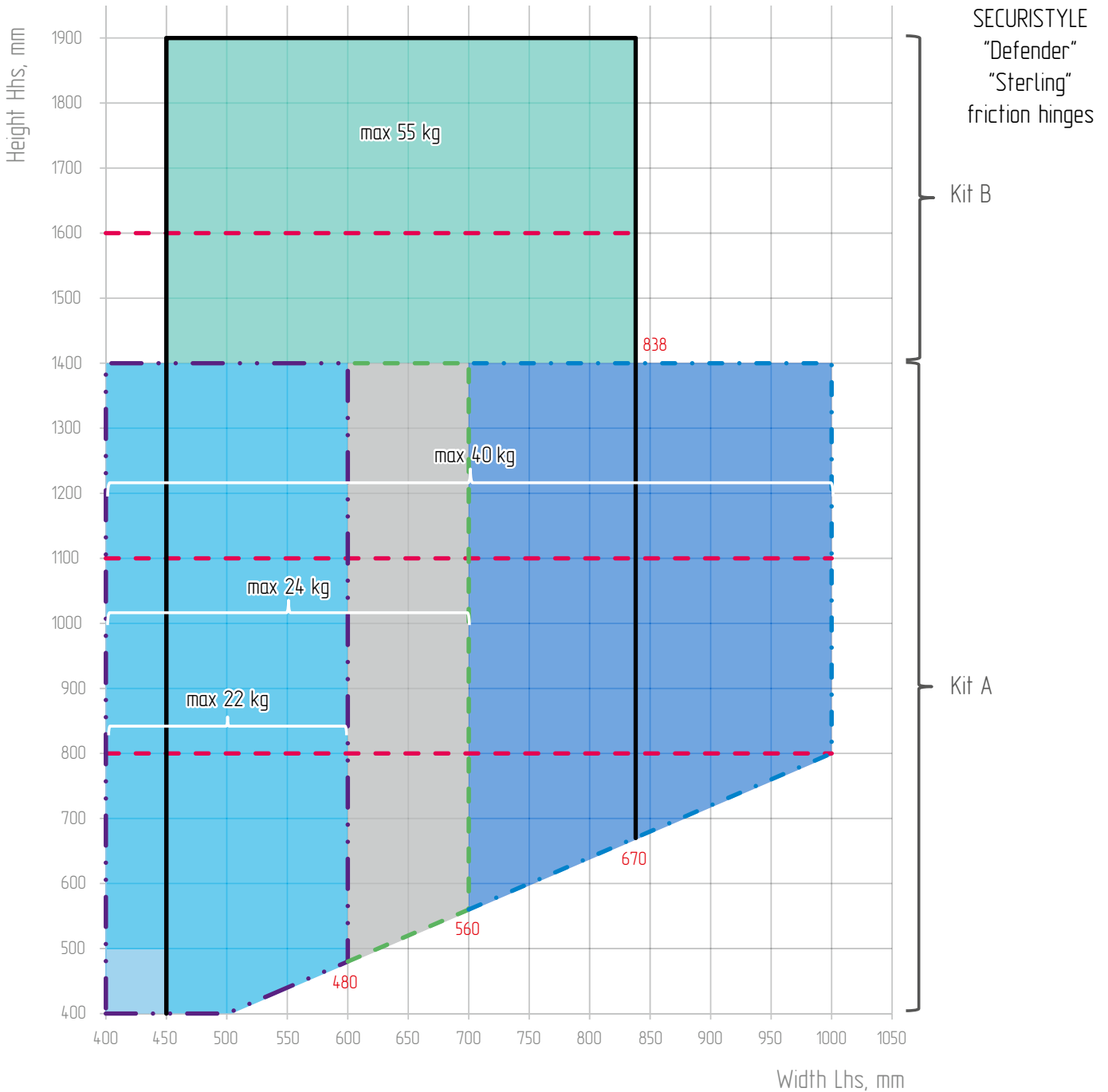
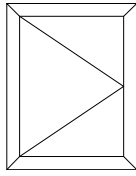
○ - pos.8 - Commercial pull in blocks (Securistyle) - art. CPB1

□ - pos.6 - Mushroom blanking plate (MACO) - art. 371913

The Commercial pull in blocks (Securistyle) - CPB1 is placed in front of the strike plates (MACO). The installation scheme is shown on p. 1106

Exterior opening casement window hardware (Side Hung)

Types of windows

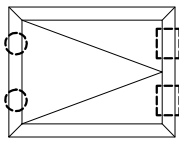
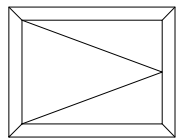
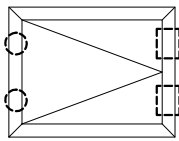
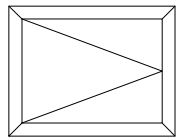


- - - - - Defender EDS12H6 friction hinges  
area of use is **max 22 kg**
- - - - - Defender EDS16H6 friction hinges  
area of use is **max 24 kg**
- - - - - Defender EDSH16H6A friction hinges  
area of use is **max 40 kg**
- Sterling SPSH16 friction hinges  
area of use is **max 55 kg**
- - - - - Area of use  
of the locking mechanism



Exterior opening window hardware (Top Hung)

Types of windows



Kit A

Kit B

Kit C

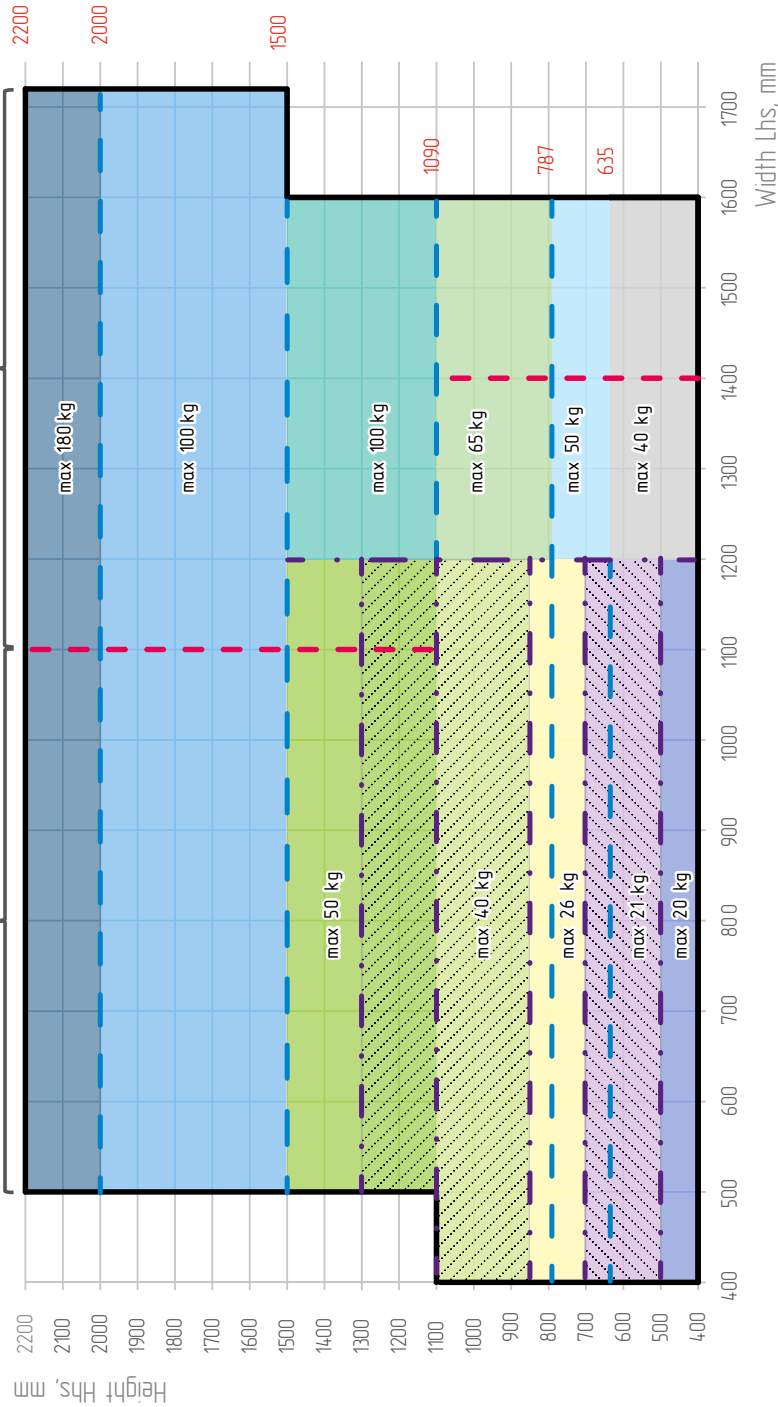
Kit D

Kit C

(L=500..1100, H=1091..2200)

Kit D

(L=1101..1720, H=1091..2200)



SECURISTYLE "Defender" friction hinges

SECURISTYLE "Sterling" friction hinges

- Area of use of the locking mechanism
- Friction hinges Defender area of use
- Friction hinges Sterling area of use
- Area of possible manufacturing of units with hardware from ALU profiles

"Defender"

"Sterling"

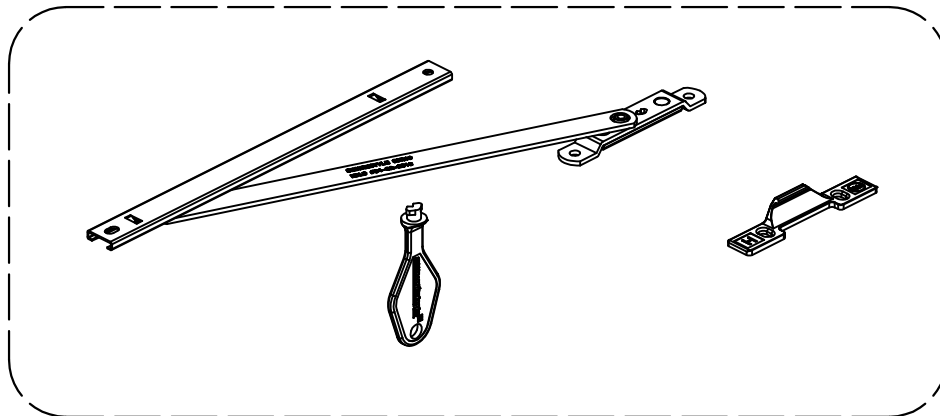
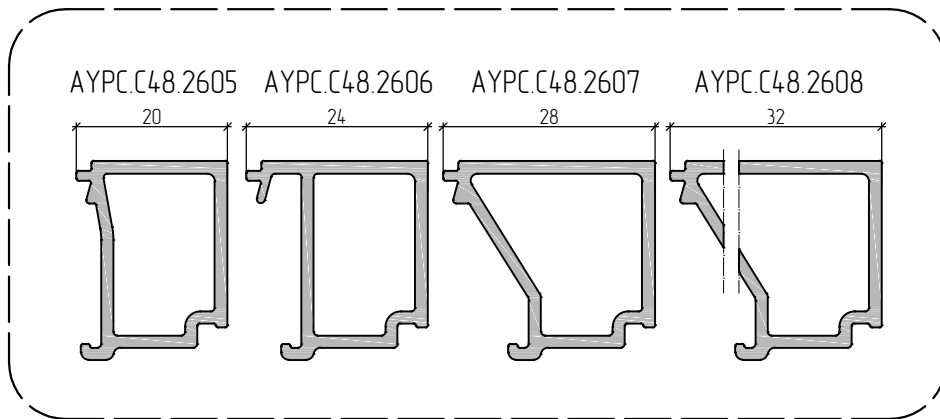
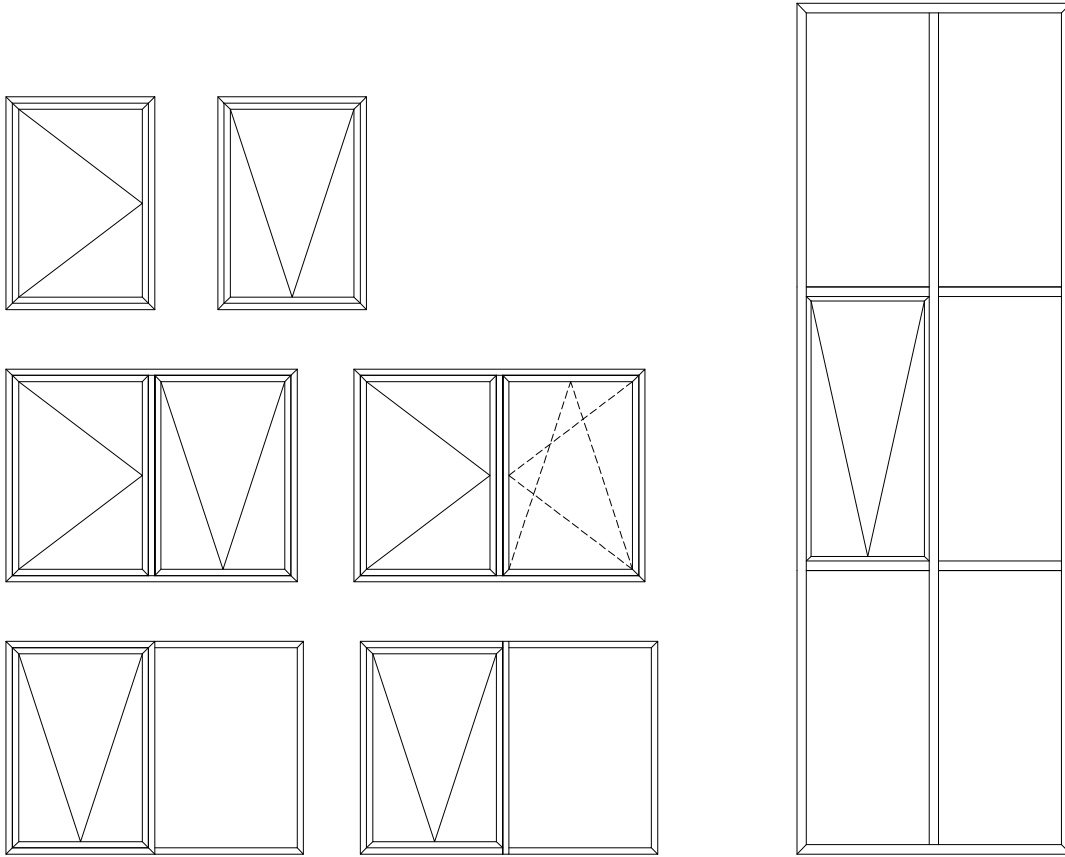
Kit A

(L=400..1400, H=400..1090)

Kit B

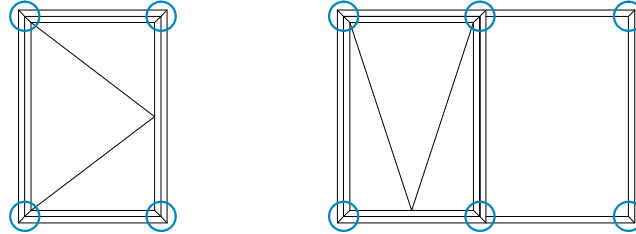
(L=1401..1600, H=400..1090)

PAS24 Configuration Details

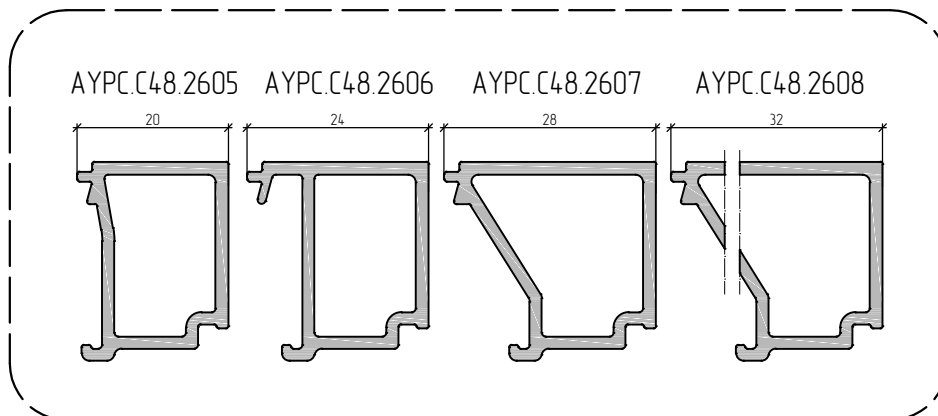
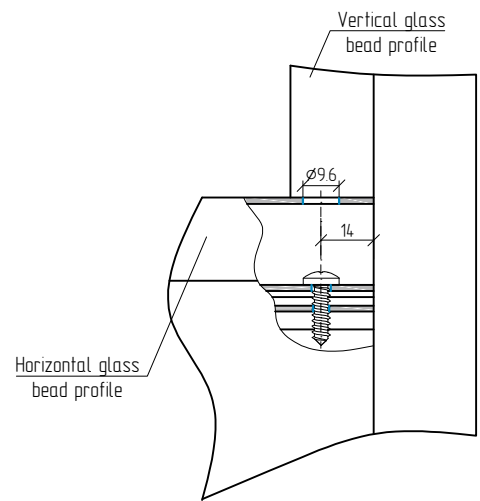
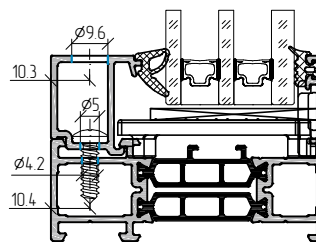
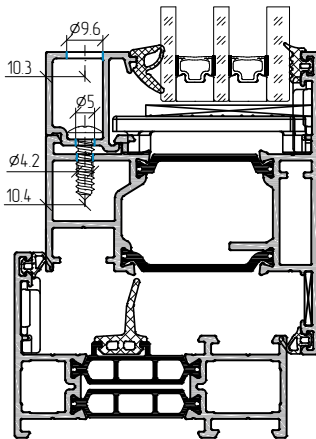


PAS24 Configuration Details

Fixing of the horizontal glass bead profile with 4,8x16- A2 DIN7981 screw



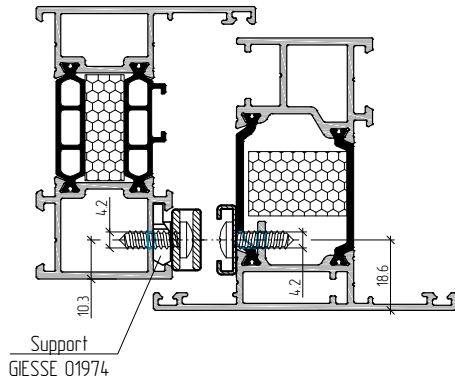
The screw positioning over the length



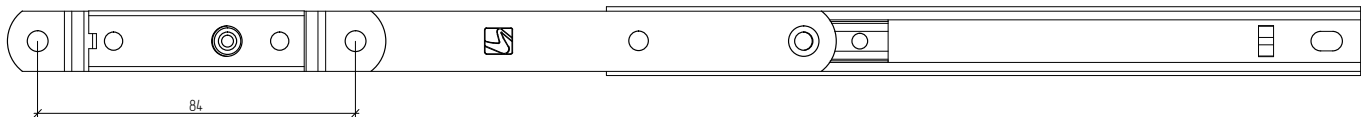
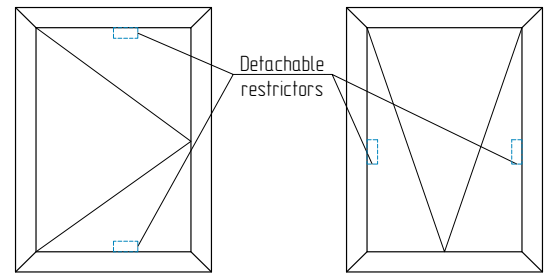
Install the glass bead only from the side of the room

## Detachable restrictors installation on the frame and on the sash

Frame and sash profile machining for 4,8x16-A2 DIN7981



Detachable restrictors allocation scheme



Detachable restrictors (PAS24) (Securistyle) (by matching):

- art. SDR4 - 2 pcs.

- art. SDR6 - 2 pcs.

- art. SDR8 - 2 pcs.

- art. SDR10 - 2 pcs.

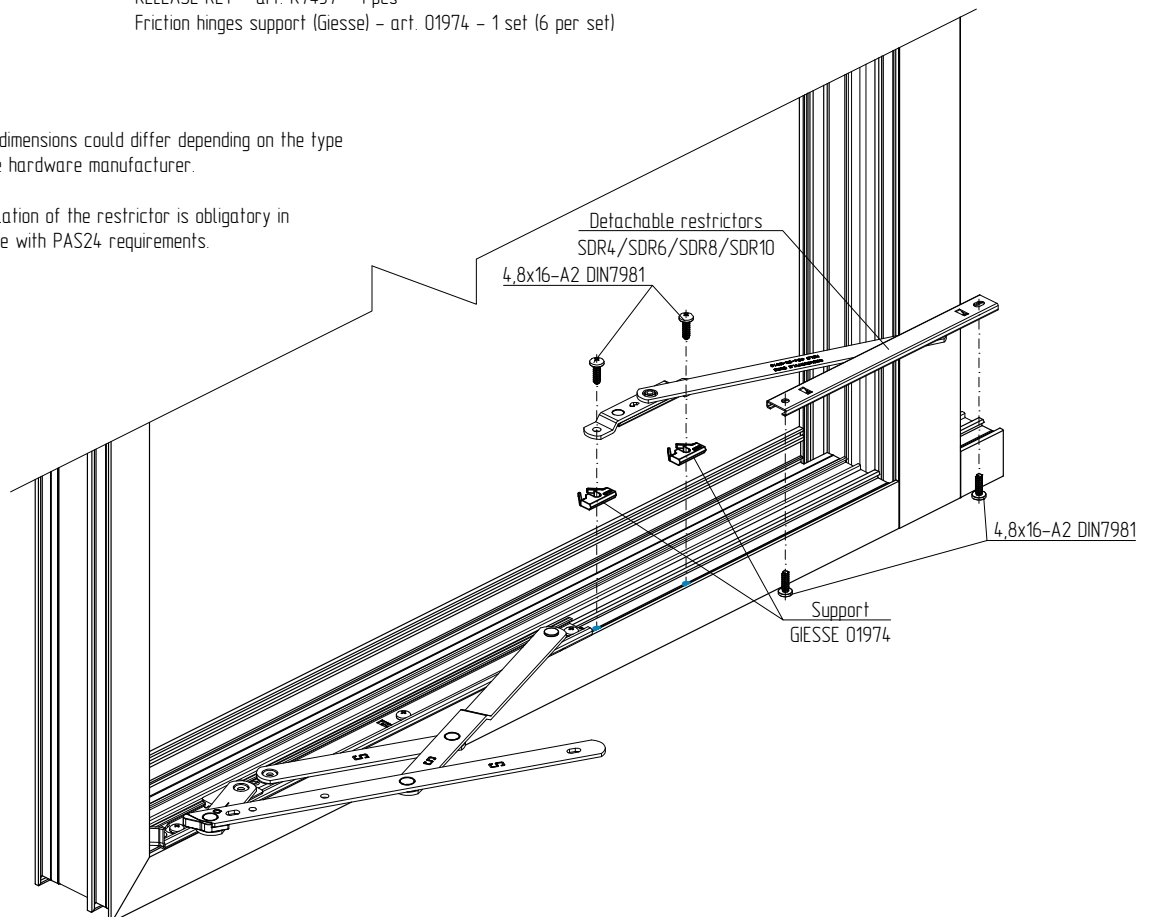
RELEASE KEY - art. R7437 - 1 pcs

Friction hinges support (Giesse) - art. 01974 - 1 set (6 per set)

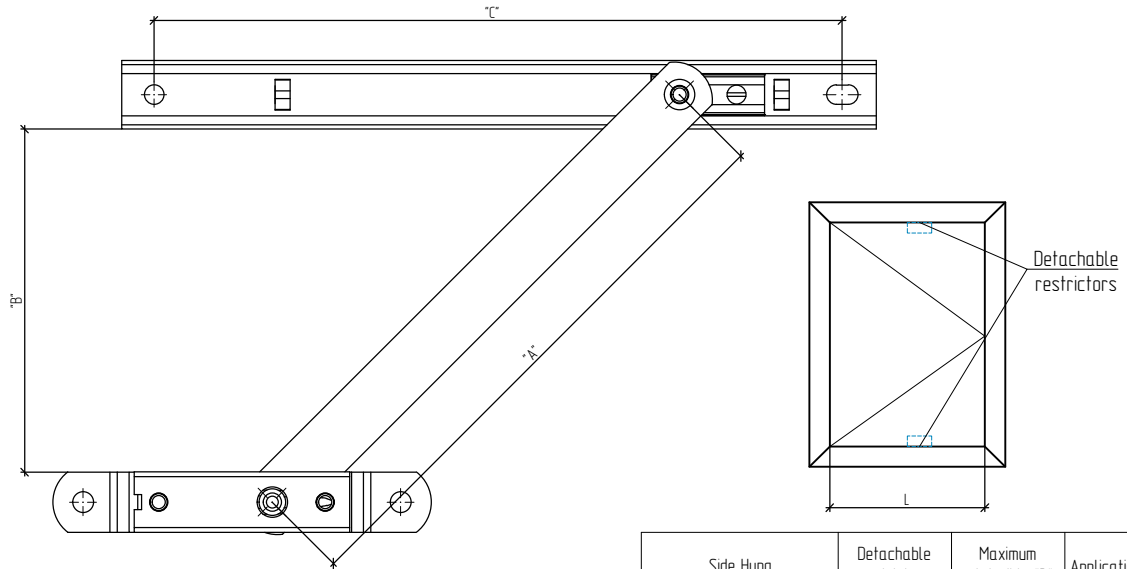


Machining dimensions could differ depending on the type and on the hardware manufacturer.

The installation of the restrictor is obligatory in accordance with PAS24 requirements.



Opening stop application depending on the window type

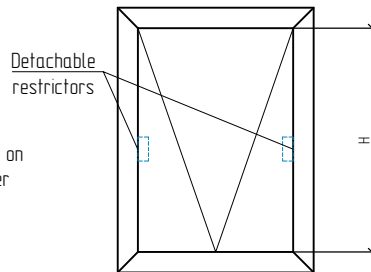


Detachable restrictors (PAS24) (Securistyle)	"A", mm	"B", mm	"C", mm
SDR4	1016	54.8	132
SDR6	152.4	90.7	182
SDR8	203.8	126.9	182
SDR10	254	128.6	232

Side Hung (KIT A & B)		Detachable restrictors (Securistyle)	Maximum admissible "B" opening, mm	Application L, mm
"Defender" friction hinges	EDS12H6	SDR4	54.8	505...552
		SDR6	90.7	553...600
	EDS16H6	SDR4	54.8	605...652
		SDR6	90.7	653...700
	EDSH16H6A	SDR4	54.8	601...653
		SDR6	90.7	654...704
"Sterling" friction hinges	SPSH16	SDR8	126.9	705...754
		SDR10	128.6	755...1000
		SDR4	54.8	610...657
		SDR6	90.7	658...710
		SDR8	126.9	711...758
		SDR10	128.6	759...838



Machining dimensions could differ depending on the type and on the hardware manufacturer



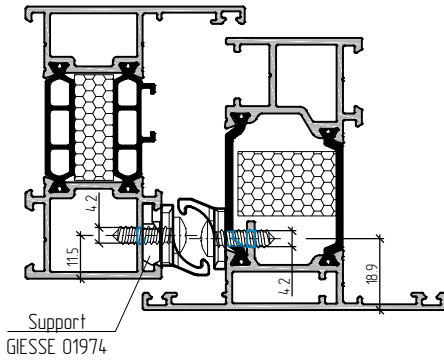
Top Hung (Kit A & B)		Detachable restrictors (Securistyle)	Maximum admissible "B" opening, mm	Application H, mm
"Defender" friction hinges	EDT16H6	SDR4	54.8	607...654
		SDR6	90.7	655...700
	EDT20H6	SDR4	54.8	708...756
		SDR6	90.7	757...810
		SDR8	126.9	811...857
		SDR10	128.6	858...1090
EDT24H6 EDTH24H6	SDR4	54.8	850...899	
	SDR6	90.7	900...952	
	SDR8	126.9	953...999	
	SDR10	128.6	1000...1090	
"Sterling" friction hinges	SPT10	SDR4	54.8	456...503
		SDR6	90.7	504...557
		SDR8	126.9	558...605
		SDR10	128.6	606...635
	SPT12	SDR6	90.7	636...787
SPT16	SDR6	90.7	788...1090	

Top Hung (Kit C & D)		Detachable restrictors (Securistyle)	Maximum admissible "B" opening, mm	Application H, mm
"Defender" friction hinges	EDT24H6	SDR6	90.7	1091...1300
	EDTH24H6	SDR6	90.7	1091...1500
"Sterling" friction hinges	SPT22	SDR6	90.7	1091...1500
	SPT22W	SDR6	90.7	1501...2000
	SPT26	SDR6	90.7	2001...2200

## PAS24 Configuration Details

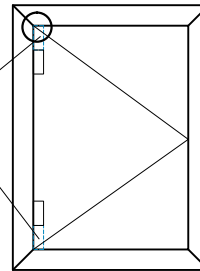
### Securistyle Excluders installation on the frame and on the sash

Frame and sash profile machining for 4,8x16-A2 DIN7981

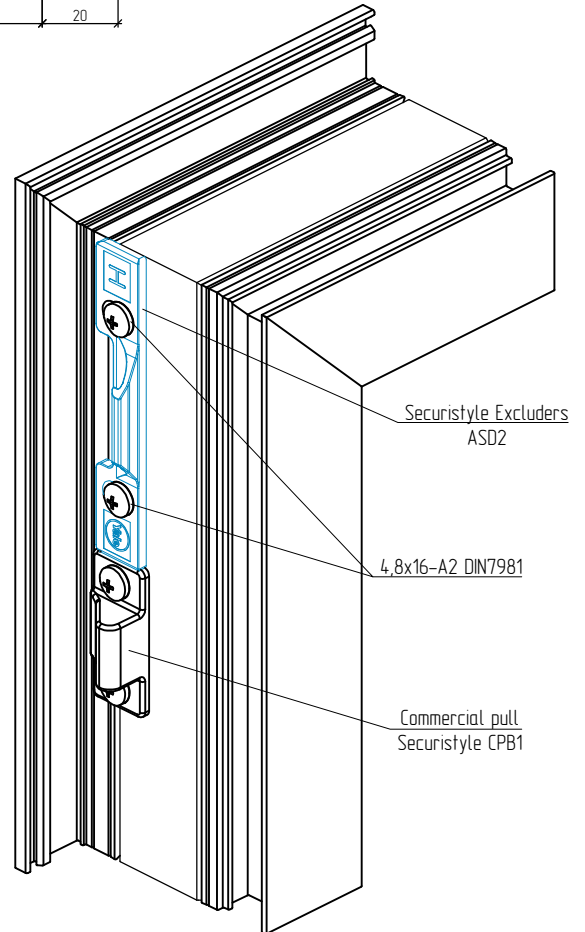
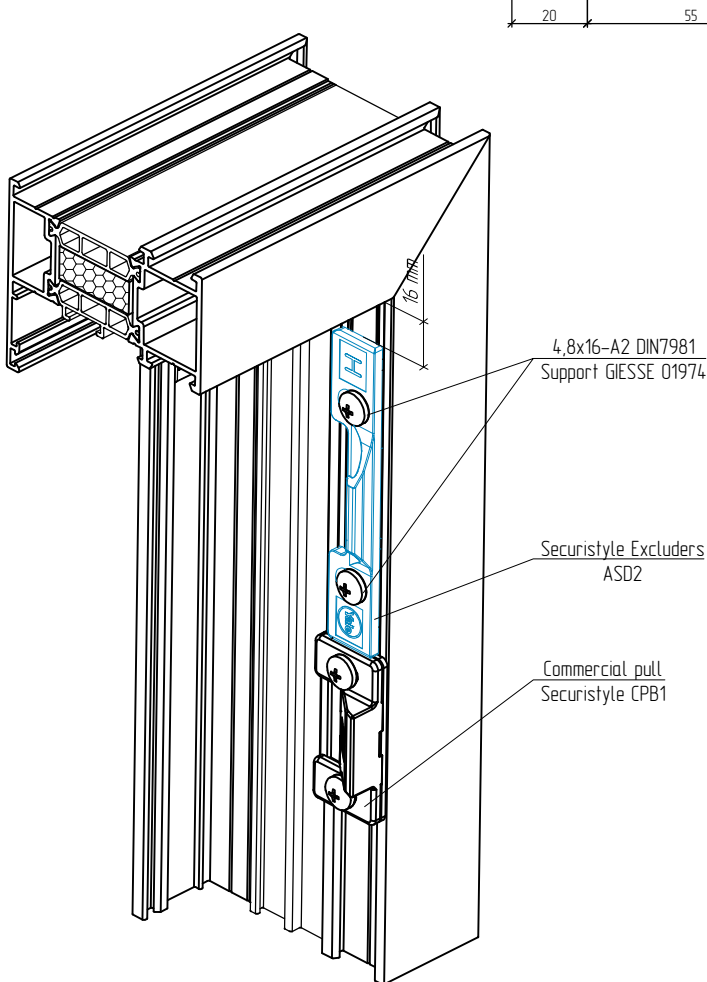
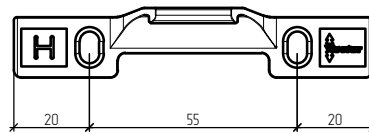
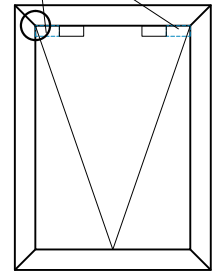


Securistyle Excluders allocation scheme

Securistyle Excluders



Securistyle Excluders



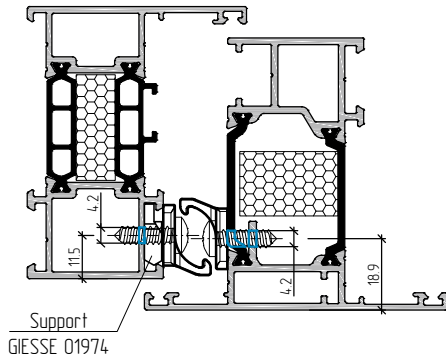
Securistyle Excluders (PAS24) (Securistyle) - art. ASD2 - 1 set (4 per set)  
Friction hinges support (Giesse)- art. 01974 - 1 set (4 per set)



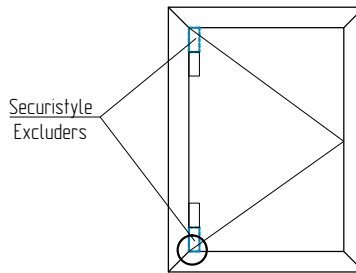
Machining dimensions could differ depending on the type and on the hardware manufacturer

PAS24 Configuration Details  
 Securistyle Excluders installation on the frame and on the sash

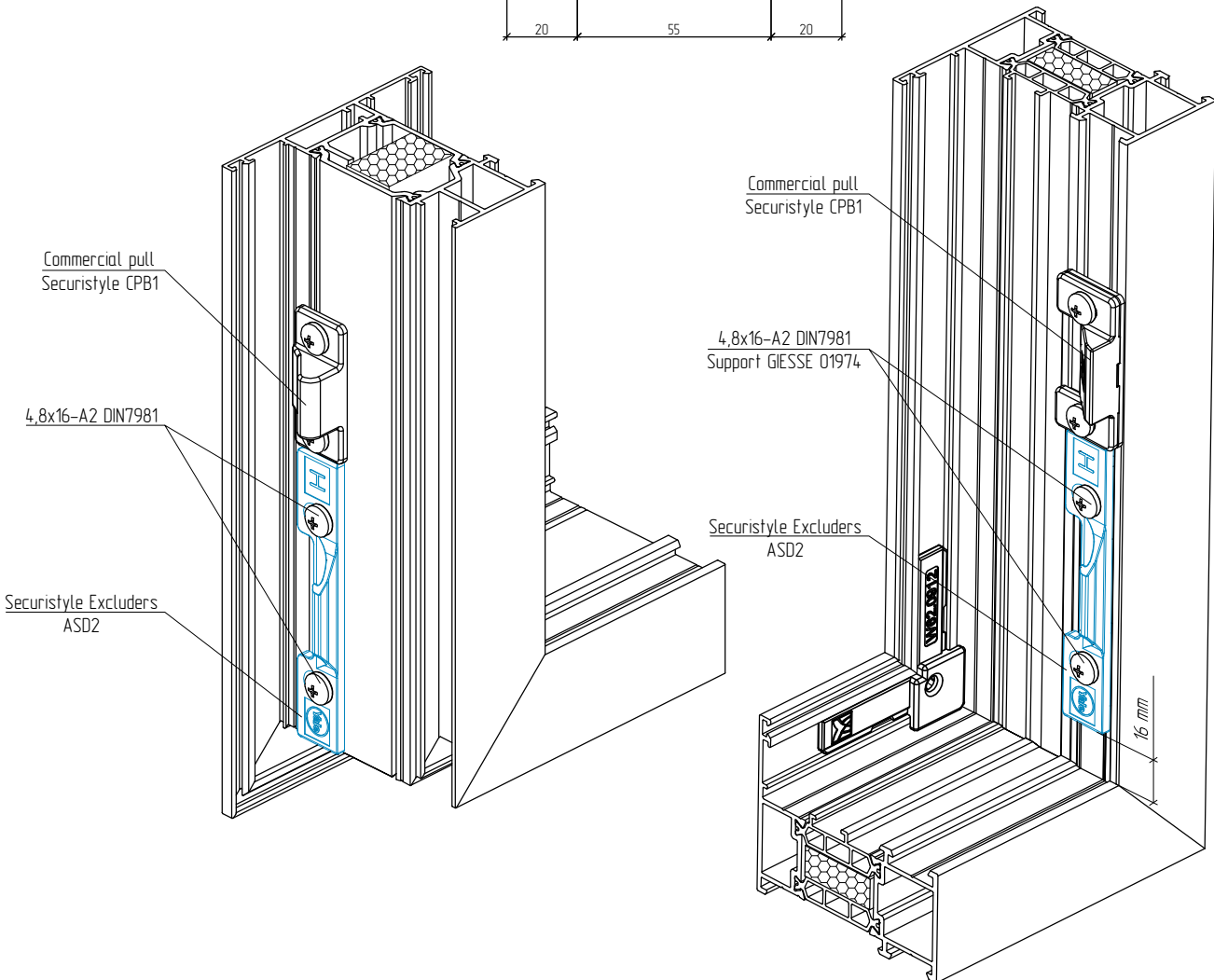
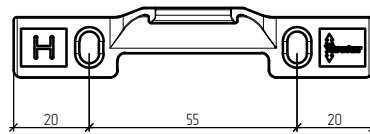
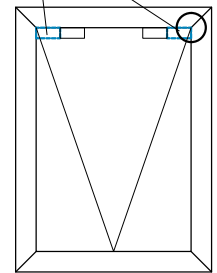
Frame and sash profile machining for 4,8x16-A2 DIN7981



Securistyle Excluders allocation scheme



Securistyle Excluders



Machining dimensions could differ depending on the type and on the hardware manufacturer

## List of fasteners depending on the hardware element

Fasteners	Article	Name	Quantity, pcs
M5x20 DIN965	EBC15..(R/L)	Window handle (right/left-hand offset)	2
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	EDS12H6 EDT12H6 EDT16H6 EDT20H6 EDT24H6	Securistyle friction hinges	6 6
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	EDS16H6 EDTH24H6	Securistyle friction hinges	8 6
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	EDSH16H6A	Securistyle friction hinges	6 10
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	SPSH16 SPT10 SPT12	Securistyle friction hinges	6 6
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	SPT16/SPT16W	Securistyle friction hinges	8 6
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	SPT22	Securistyle friction hinges	8 8
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	SPT22W	Securistyle friction hinges	6 8
4.8x16-A2 DIN7981 4.8x25-A2 DIN7981	SPT26	Securistyle friction hinges	10 10
4.8x16-A2 DIN7981	CPB1	Commercial pull in blocks	4
	S7280	Adjustment blocks	2
	ASD2	Securistyle Excluders (PAS24)	8
	SDR4 SDR6 SDR8 SDR10	Detachable restrictors (PAS24)	4 4 4 4
4.2x25-A2 DIN7982	11048	Basket 20 mm	2
	371913 371914	Striker plate	2 2
	58161	Shootbolt extensions	4
	58168 58169	Shootbolt extensions	5 5
	101530 102859	Shootbolt extensions	2 2
	220232	Shootbolt extensions	2
	220233	Shootbolt extensions	3
	220036 220037	Shootbolt center locks	5 5



The quantity of fasteners can differ depending on the hardware type and manufacturer



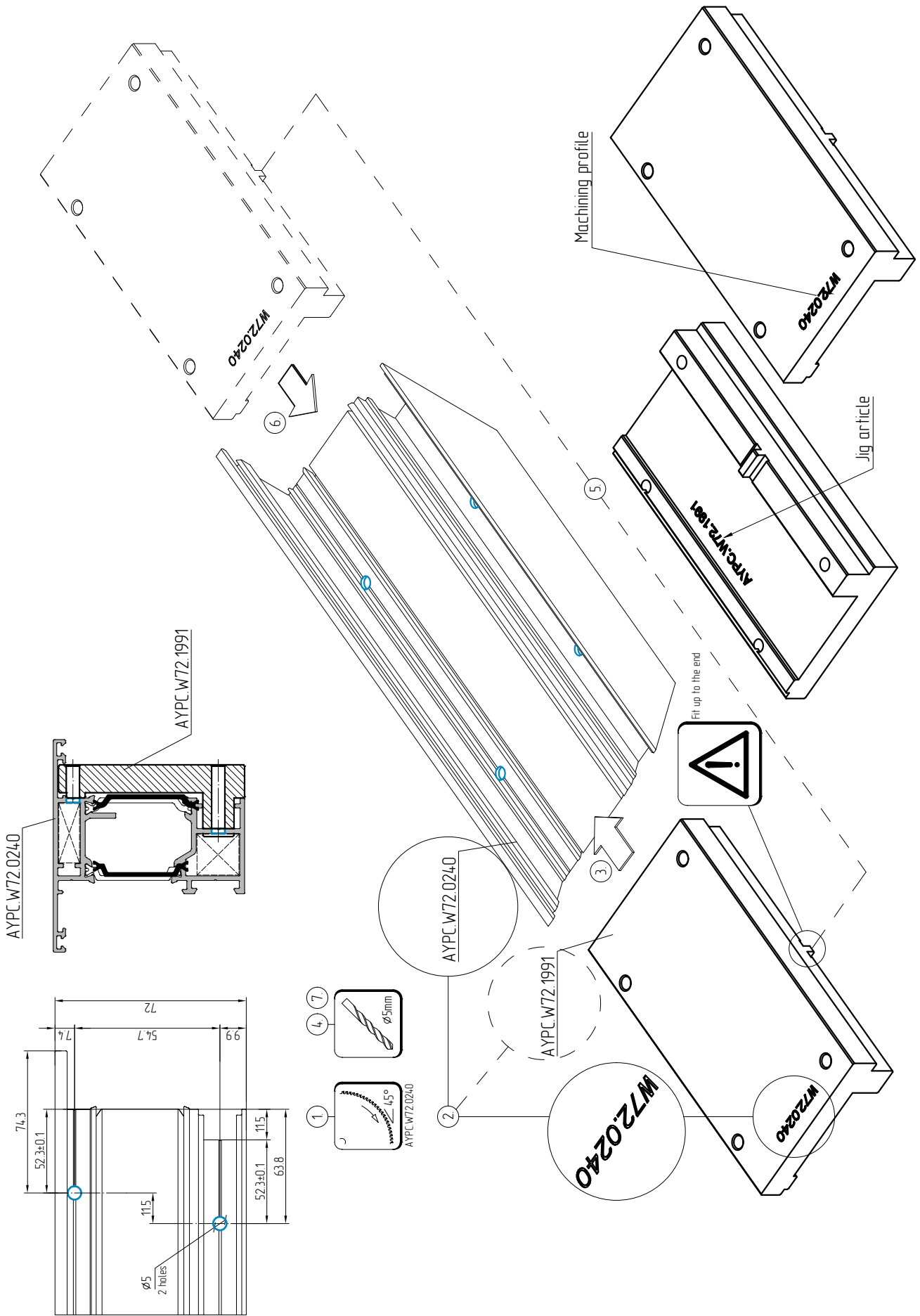


**ALUTECH ALTW72CW**  
Window system with  
thermal break

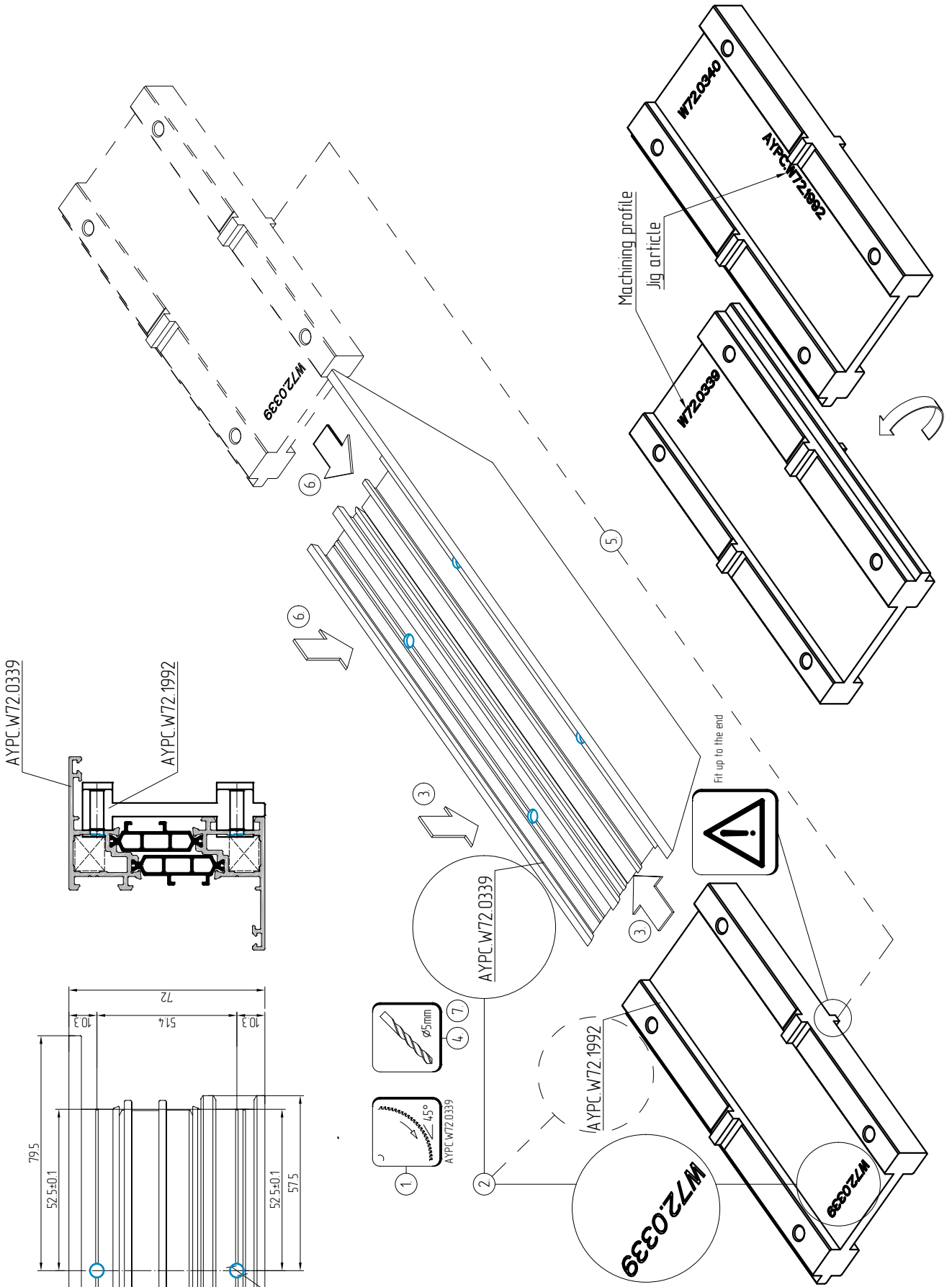
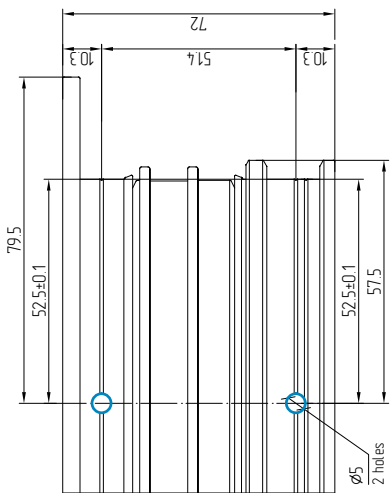
# Equipment



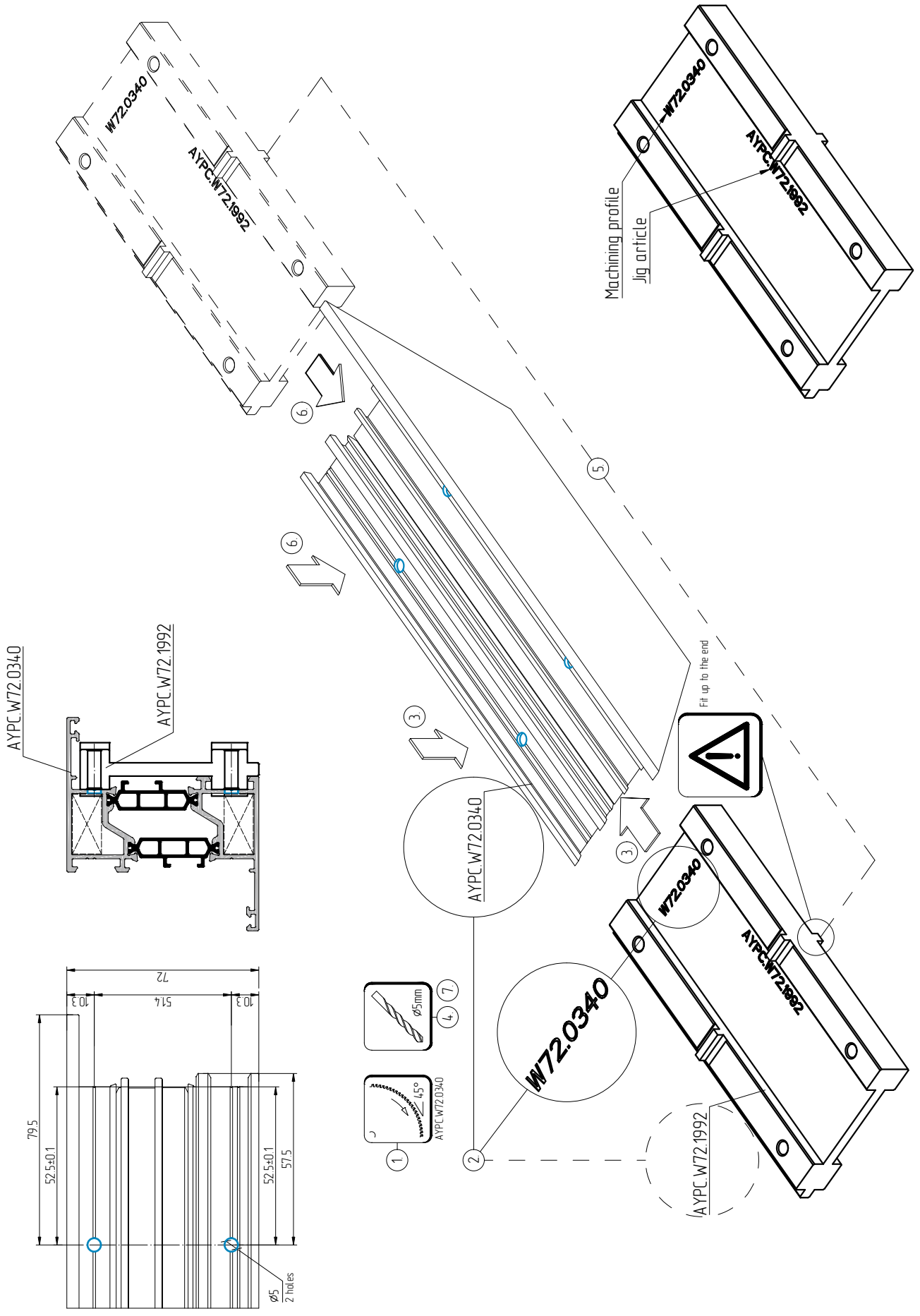
Jig article: AYPC.W72.1991  
Machining profiles: AYPC.W72.0240



Jig article: AYPC.W72.1992  
Machining profiles: AYPC.W72.0339



Jig article: AYPC.W72.1992  
 Machining profiles: AYPC.W72.0340





The ALT W72CW aluminum profile system is designed for the outward opening top-hung and casement windows. These system corresponds to high-level airtightness, thermal and acoustic insulation requirements.

In case of making the design and assembly of the windows of various sizes and purposes, the range of the system profiles allows to use the materials rationally.

In comparison with the similar systems, the distinctive feature of the ALT W72CW system is the absence of complex operations of milling the profiles during the assembly process, which significantly simplifies work, reduces labor costs, increases the quality of the product.

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