

# Profile systems

## ALUTECH ALT115

Full-glass partition wall system



FEBRUARY 2022





**ALUTECH ALT 115**

Full-glass partition wall system

**SYSTEM DESCRIPTION**

01

**ORDERING DATA.  
CODING**

02

**SYSTEM PROFILES**

03

**EQUIPMENT. GASKETS**

04

**INSTALLATION DIAGRAM  
OF THE INFILL UNIT**

05

**CROSS SECTION  
OF THE PARTITION**

06

**DOORWAY. CROSS SECTION.  
ASSEMBLY INSTALLATION**

07





## **ALUTECH ALT 115**

Full-glass partition wall system

# SYSTEM DESCRIPTION

01

02

03

04

05

06

07

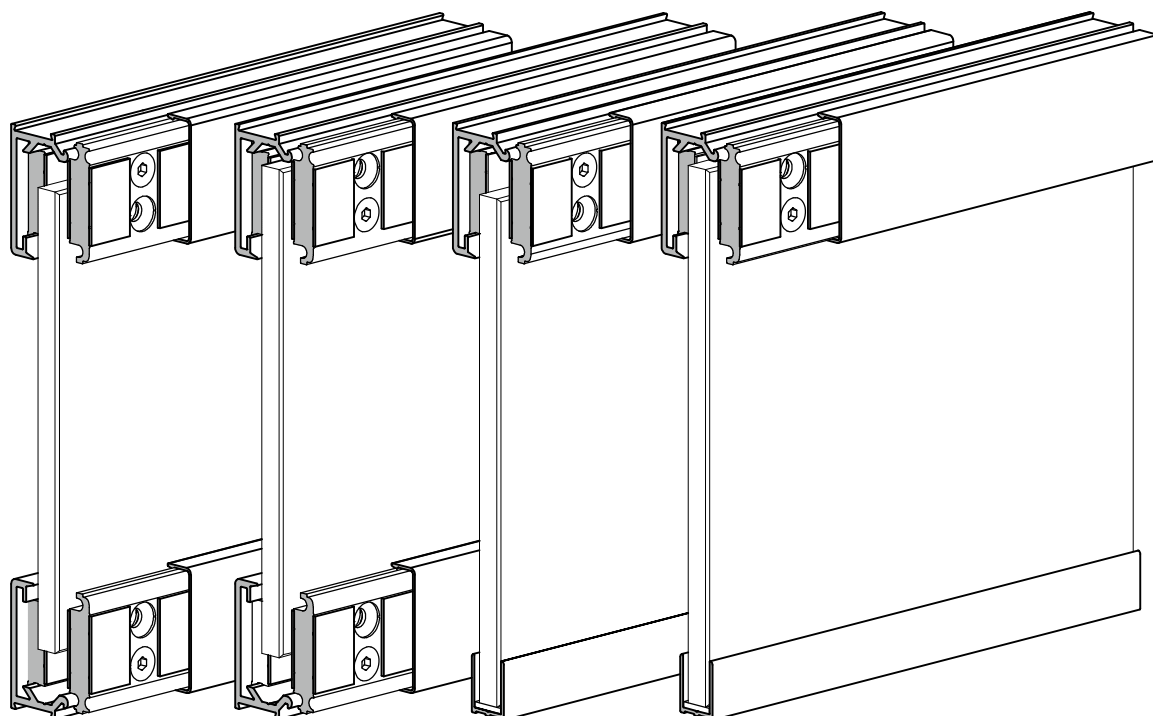


### ALT 115 FULL-GLASS PARTITION WALL SYSTEM

ALT 115 is a system of clamping profiles and component parts fastening tempered full-glass partition walls to ceilings and floors. The product allows the installation of 8, 10, 12 mm thick glass panels. ALT 115 structures allow a uniform appearance of working space, a more effective use of natural sunlight, and visual extension of the room.

ALT115 full-glass partition wall system is a universal system for securing glass, which differs significantly from existing market equivalents. The system's unique joint solutions are protected by a patent.

The use of all-glass partitions to create separate, visually accessible rooms is a modern trend in interior architecture, especially in non-residential premises, and is actively used in the planning of office, retail and similar spaces.



### ADVANTAGES OF THE SYSTEM

High technological effectiveness, making it possible to realize almost any project with ALT 115 system, regardless of the thickness and dimensions of the glass.

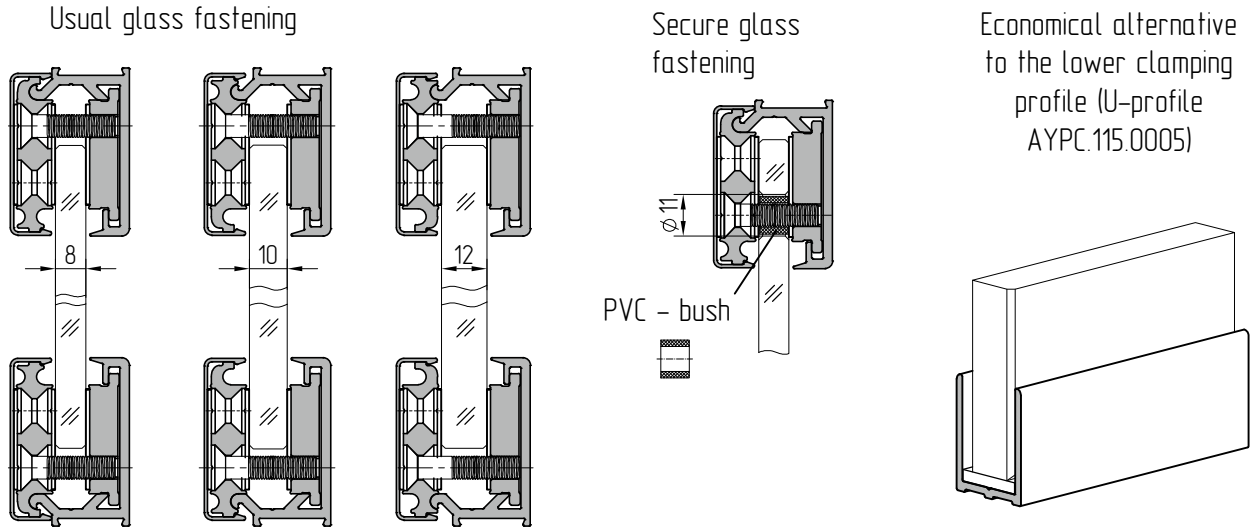
Significantly reduced design and installation costs due to the universal fixing system and a reduction in a total number of components.

A wide range of colours and surface coatings are available for the aluminium profiles used in the system. Three variants of decorative surface preparation combined with 9 colours of anodizing offer 27 coating options for the system profiles.

High-quality anodization of aluminum profiles used in the system.

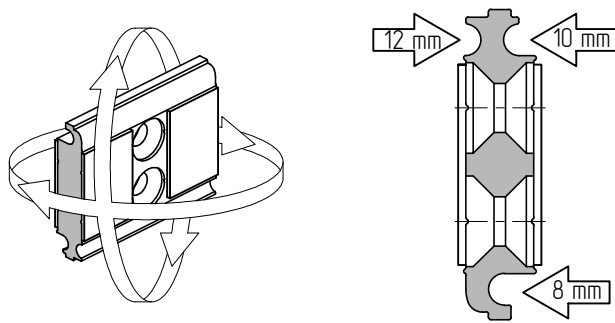
Anodized visible parts of the profile are protected from damage by a protective film.

Put the required number of inserts in the groove of the rail. Fasten the rail with the inserts to the ceiling (floor). Install the required number of supports and insert the glass pane, clamp it with a clip. Click the cover into place.

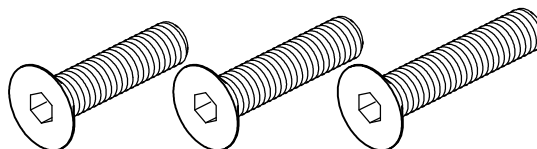


SYSTEM DESIGN FEATURES

Multi-use clip. The clip has three longitudinal groove of a certain depth. In conjunction with the guide ledge grooves provide the necessary gap size in the "insert - clip" couple , namely 8, 10 and 12 mm. Therefore, the same clip is used for the installation of 8, 10, 12 mm glass panels.

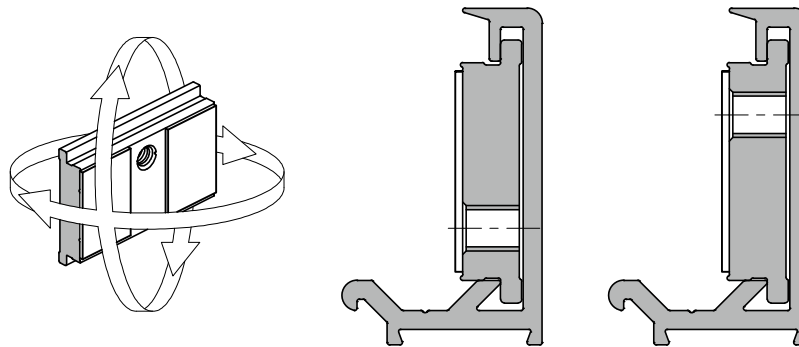


M6 x 25 DIN7991 screw is used for clamping 8 mm thick glass panels, 10 mm – M6 x 27 DIN7991. For 12 mm thick panel, use M6 x 30 DIN7991 screw.

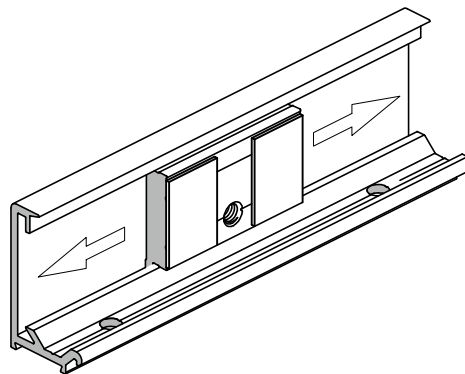




determines whether the glass panels can be fastened normally or securely (through the hole). This means that the above-mentioned mounting options can be achieved with the same insert.



The free movement of the insert in the groove of the guide profile allows to press the glass in the correct location.



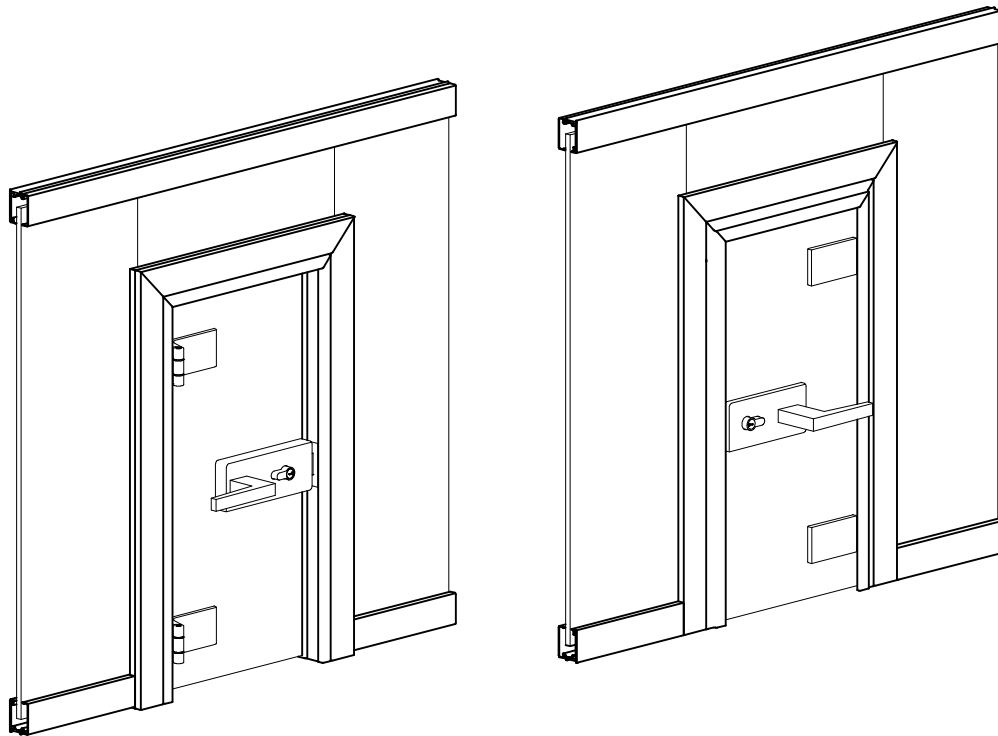
The design of the insert–guide profile connection makes it possible to select the minimum number of insert–clip pairs for clamping (based on the load capacity of the pair).

Due to the design features, the insert and the clip are clamped to the glass over the entire plane of the paronite support, so that the insert–clip load capacity of 40 kg is the same for 8, 10 and 12 mm thick glass.

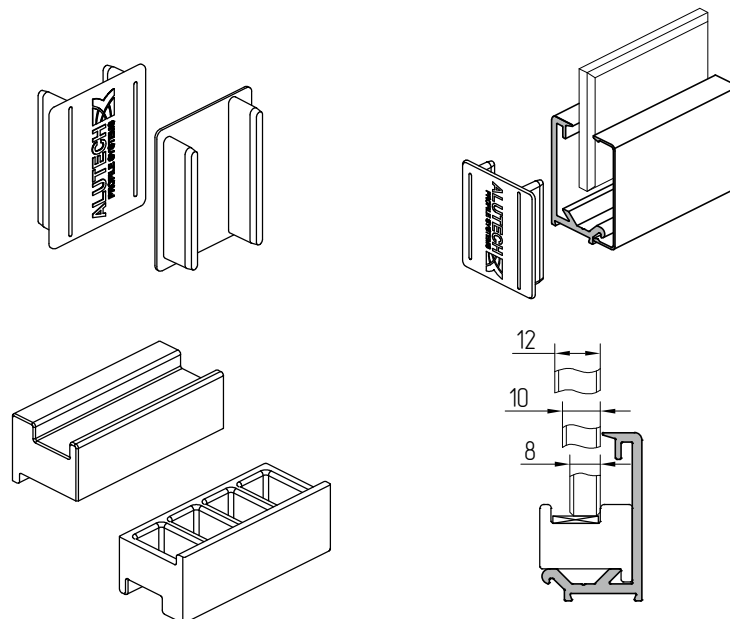
The symmetry of the cover cap locking elements in relation to the longitudinal axis allows it to be reinforced on either side, thus ensuring maximum ease of installation.

As one of the two front sides of the clamping profile forms the front side of the guide profile, the cover cap is only clicked on one side.

The system can be used to assemble a framework based on AYPC.115.0006 frame profile with all-glass, aluminium or, if necessary, wooden door can be implemented on the basis of the system.

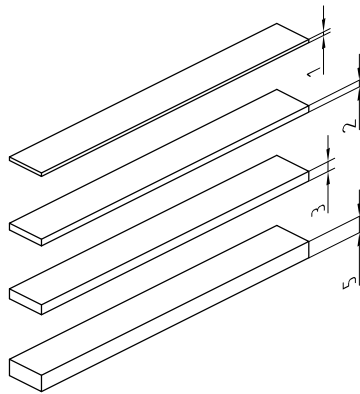


ADDITIONAL ADVANTAGES OF THE SYSTEM  
Kit of end plugs and glass supports.

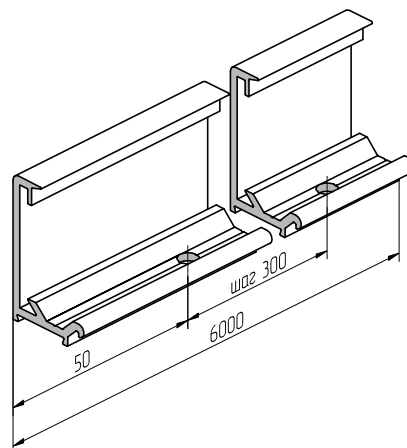


The end plug is universal and suitable for 8, 10, 12 mm glass on both right and left sides.

To compensate the floor incline, the system provides the option of using 1, 2, 3, 5 mm thick leveling supports with art. AYPC.110.0901, AYPC.110.0902, AYPC.110.0903 and AYPC.110.0905 respectively.



Holes for self-tapping screws and dowels S8 are drilled along the length of AYPC.115.0011 guide profile at 300 mm intervals.







**ALUTECH ALT 115**

Full-glass partition wall system

# ORDERING DATA. CODING

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02

03

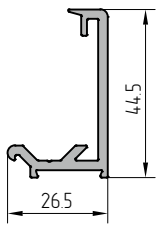
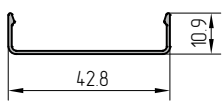
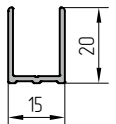
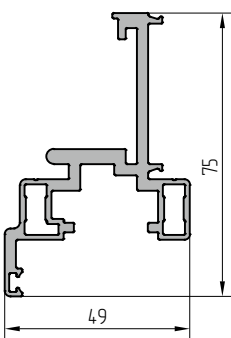
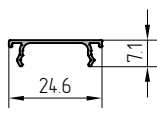
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Article	Weight, kg/m	External perimeter, mm	Cross-section area, cm <sup>2</sup>	Code	Profile colour	Bar length, m	Quantity in pack		Weight of a pack	
							pcs	m	net, kg	gross, kg
AYPC.115.0001	0.576	183.6	2.135	10300600	00	6.0	6	36.0	27.1	27.6
				10300621	RAL9016				27.1	27.6
				103006806	A00-E6				27.1	27.6
AYPC.115.0004	0.156	124.8	0.574	10300900	00	6.15	6	36.9	5.8	6.2
				10300921	RAL9016				5.8	6.2
				103009806	A00-E6				5.8	6.2
AYPC.115.0005	0.187	106.0	0.692	10301800	00	6.15	6	36.9	6.9	7.2
				10301821	RAL9016				6.9	7.2
				103018806	A00-E6				6.9	7.2
AYPC.115.0006	1.400	361.2	5.186	10301900	00	6.2	4	24.8	34.7	35.4
				10301921	RAL9016				35.8	36.4
				103019806	A00-E6				34.7	35.4
AYPC.111.0605	0.088	79.3	0.327	10503000	00	6.2	4	24.8	2.2	2.4
				10503069	RAL 9006				2.4	2.6
				105030806	A00-E6				2.2	2.4
				10503021	RAL 9016				2.4	2.6
				10503030	RAL 8017				2.4	2.6







**ALUTECH ALT 115**

Full-glass partition wall  
system

# SYSTEM PROFILES

01

02

03

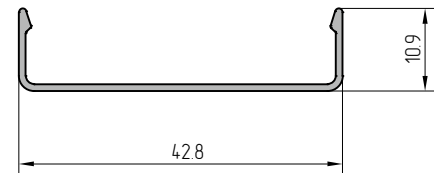
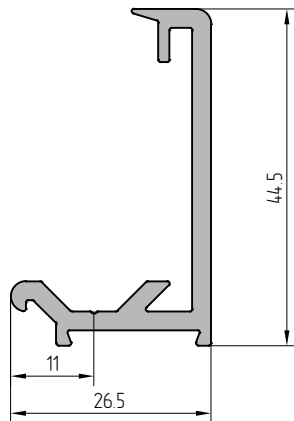
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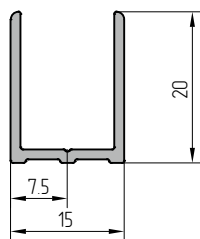
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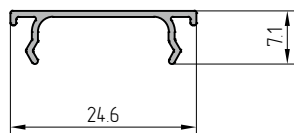
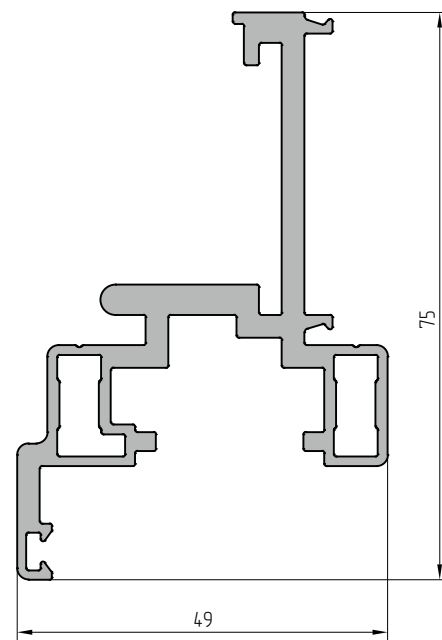




Scale 1:1	Extruded aluminium profile	Scale 1:1	Cover profile
AYPC.115.0001	Article	AYPC.115.0004	Article
0.576 kg	Theoretical weight 1 m	0.156 kg	Theoretical weight 1 m
183.6 mm	External perimeter	124.8 mm	External perimeter
213.5 mm <sup>2</sup>	Cross-sectional area	574.0 mm <sup>2</sup>	Cross-sectional area



Scale 1:1	U-profile
AYPC.115.0005	Article
0.187 kg	Theoretical weight 1 m
106.0 mm	External perimeter
692.0 mm <sup>2</sup>	Cross-sectional area



Scale 1:1	Cover profile	Scale 1:1	Frame profile
AYPC.111.0605	Article	AYPC.115.0006	Article
0.088 kg	Theoretical weight 1 m	1.400 kg	Theoretical weight 1 m
79.3 mm	External perimeter	361.2 mm	External perimeter
32.7 mm <sup>2</sup>	Cross-sectional area	518.6 mm <sup>2</sup>	Cross-sectional area





**ALUTECH ALT 115**

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EQUIPMENT.  
GASKETS

01

02

03

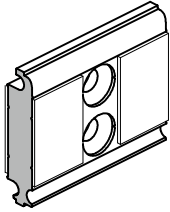
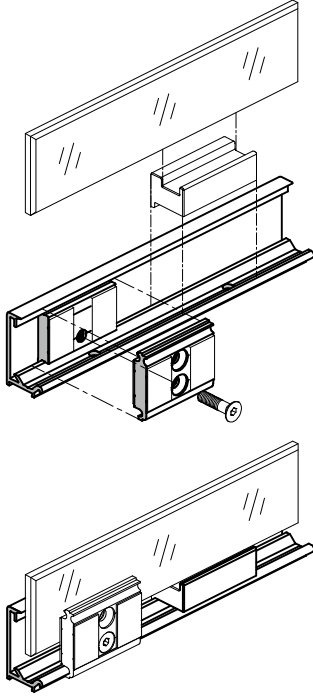
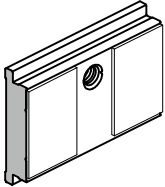
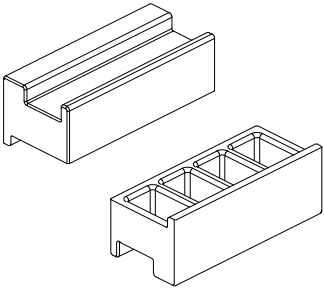
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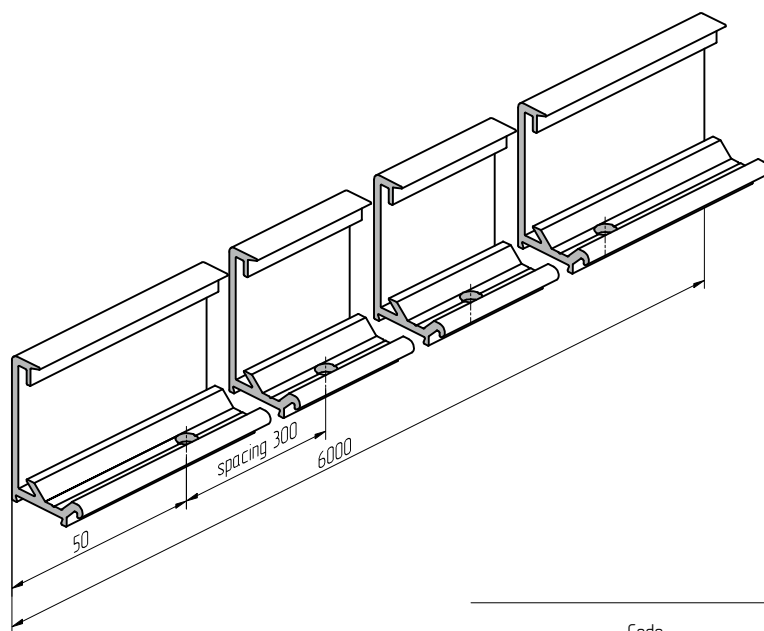
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Image	Code	Article	Description
 Clip Package 80 pcs	10301100	AYPC.115.0101	
 Insert Package 80 pcs	10301200	AYPC.115.0102	
 Bearing support (ABS, black) Package 20 pcs	10301300	AYPC.115.0902	



Code	Rail		
	10301300 (00)	10301021 (RAL9016)	103010806 (A00-E6)
Article	AYPC.115.0011		
Quantity in pack, pcs	6		

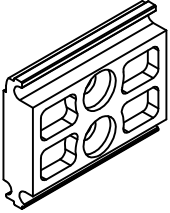
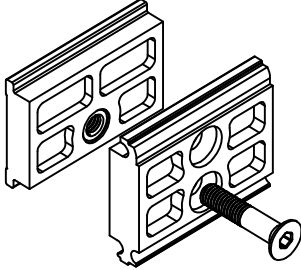
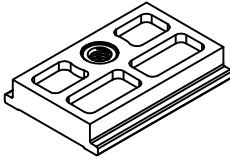
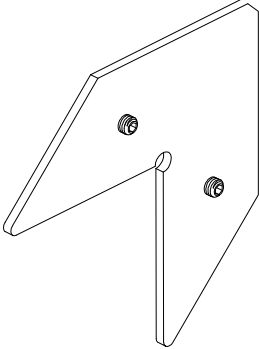
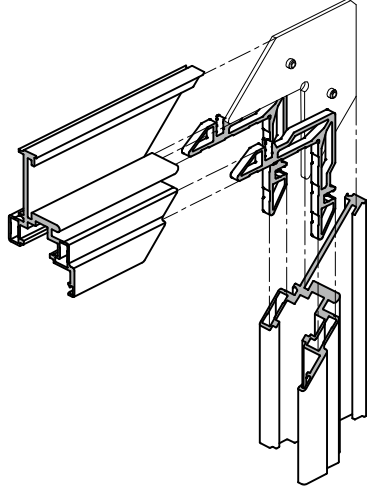
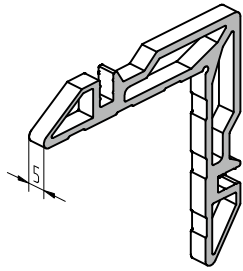
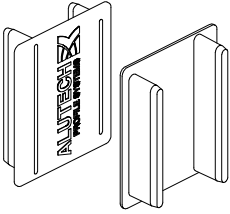
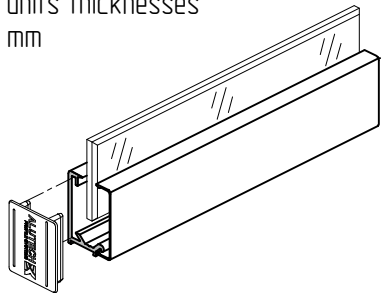
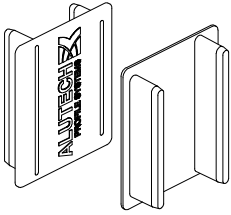
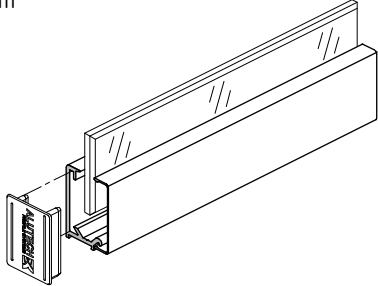
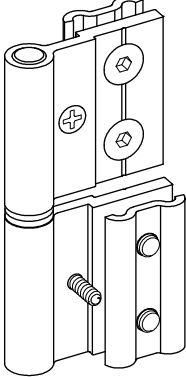
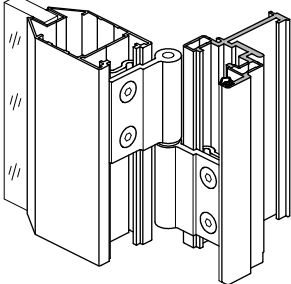
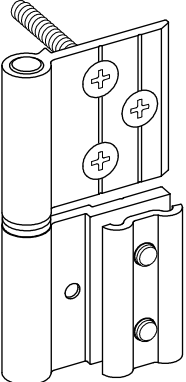
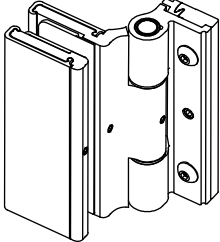
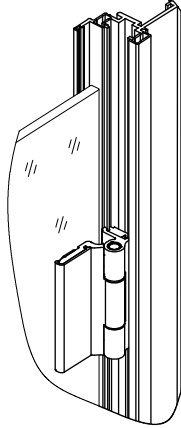
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 <p>Clip (polyamide) Package 80 pcs</p>	10303600	AYPC.115.0110	
 <p>Insert (polyamide) Package 80 pcs</p>	10303700	AYPC.115.0120	
 <p>Leveling corner (galvanized steel) (kit includes screws) Package 14 pcs</p>	10301600	AYPC.115.0950	
 <p>Clamping corner, workpiece AYPC.C48.0702 profile, h=5 mm Package 50 pcs</p>	11227400	AYPC.F50.1950-03	
 <p>Plug (HDPE, grey) Package 40 pcs</p>	10301700	AYPC.115.0904	<p>Applies to infill units thicknesses of 8, 10 and 12 mm</p> 



Image	Code	Article	Description
 <p data-bbox="211 495 398 560">Plug (HDPE, grey) Package 40 pcs</p>	10302000	AYPC.115.0905	<p data-bbox="877 248 1075 309">Applies to 10 mm thick infill unit</p> 
 <p data-bbox="249 958 398 1023">Hinge Package 2 pcs</p>	10511831 (RAL 9006)	AYPC.111.1001	
 <p data-bbox="249 1480 398 1545">Hinge Package 2 pcs</p>	10511931 (RAL 9006)		
 <p data-bbox="150 2024 485 2089">Hinge (colour: anodized, colourless) Package 2 pcs</p>	10515380	AYPC.111.1003M	

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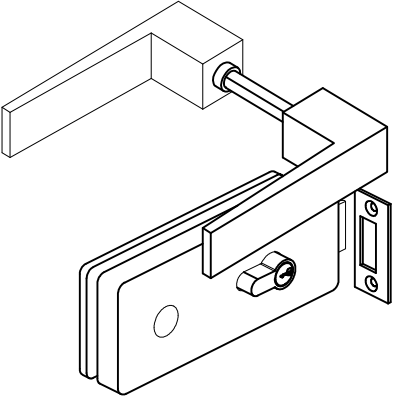
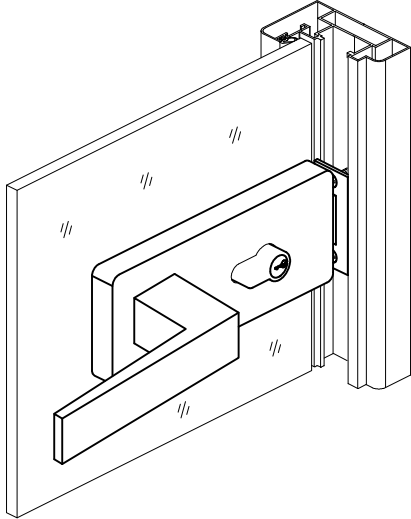
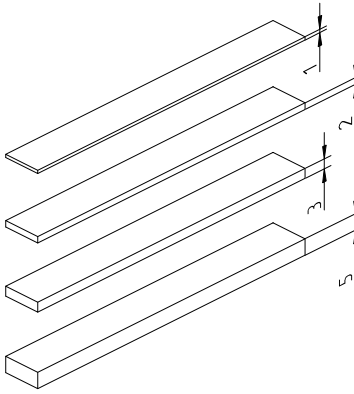
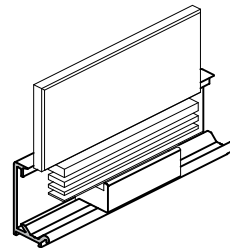




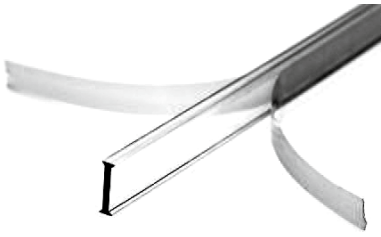
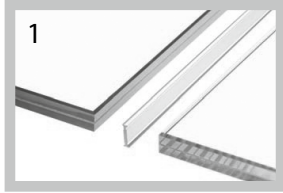
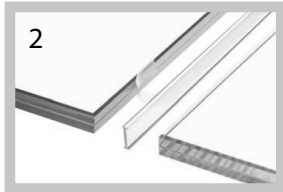
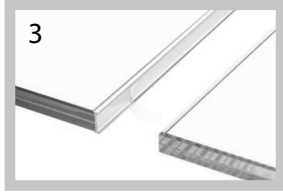
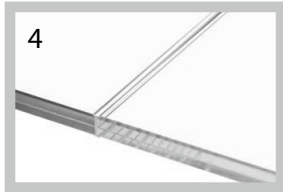

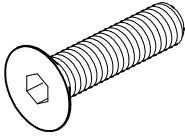
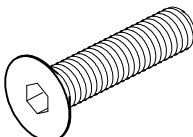
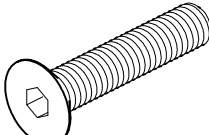

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 <p>Lock (colour: A00-E6) (kit includes strike plate) Package 1 pcs</p>	10512280	AYPC.111.1004	
 <p>Leveling support Package 200 pcs</p>	10211400	AYPC.110.0901	
10211500	AYPC.110.0902		
10211600	AYPC.110.0903		
10211700	AYPC.110.0905		
 <p>Lock with handle (colour: A00-E6) Package 1 pcs</p>	103034806	ALT-5061S	
 <p>Lock counterpart (colour: A00-E6) Package 1 pcs</p>	103035806	ALT-5061K2	

Image	Code	Article	Description
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	10303900	1-200.10	
	10304000	1-200.12	

## Gaskets

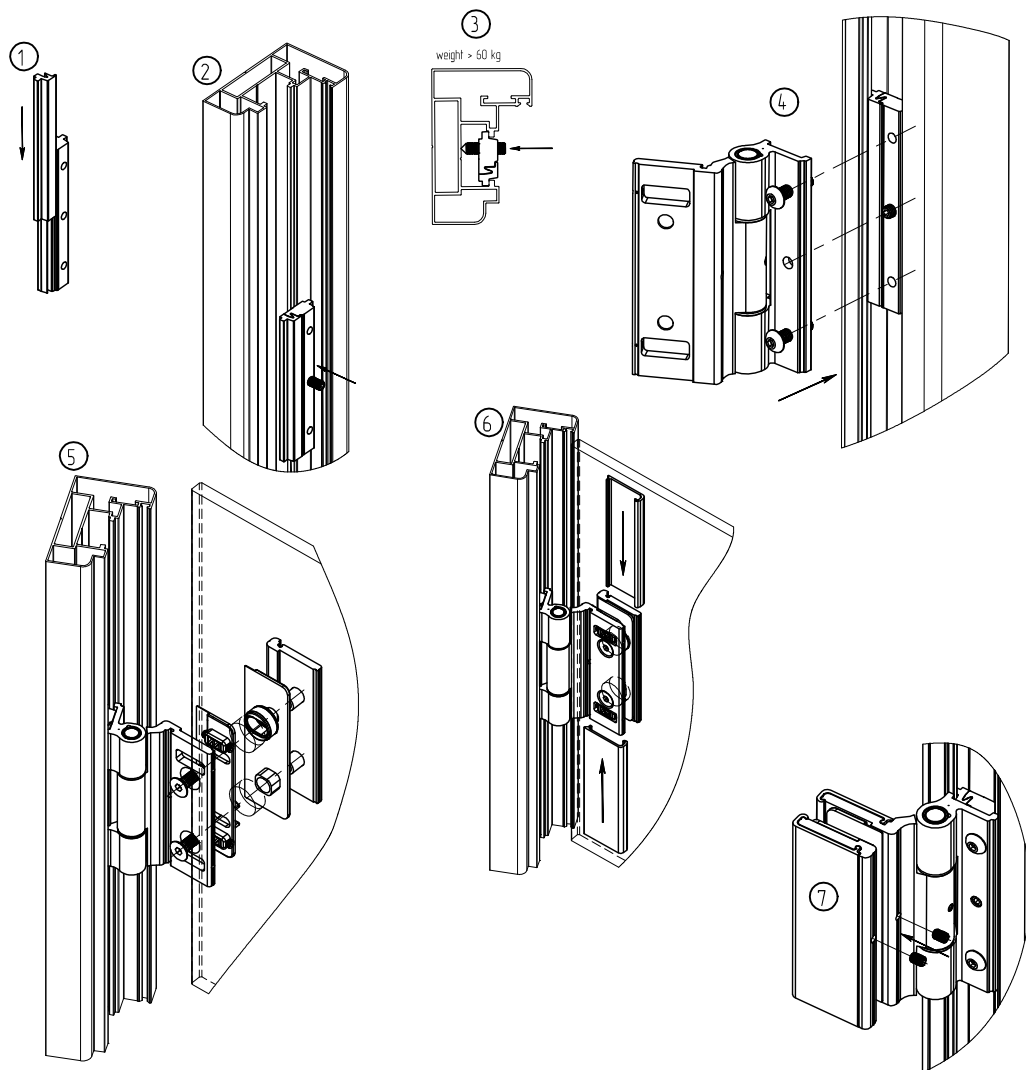
Article	Code	Image	Weight, kg/m	Material	Package, m	Description
FRK95	10512300 (black) 10512365 (RAL7037)		0.037	TPE	200	Door ledge gasket

## Fasteners

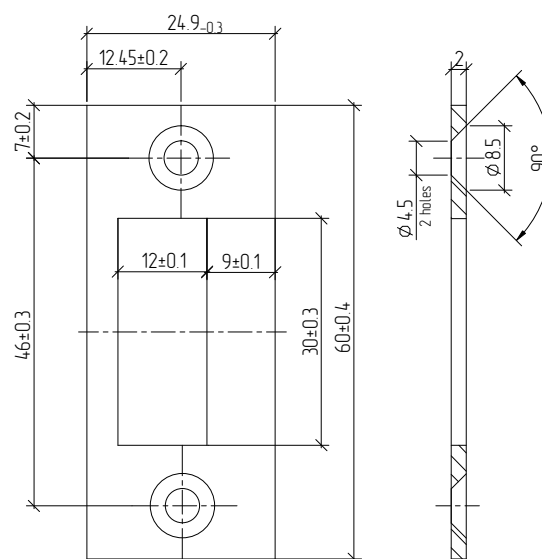
Article	Code	Image	Package, pcs	Description
M6x25 DIN7991	18105400		200	Clip fastening to insert, for 8 mm thick glass
M6x27 DIN7991 *	18113400		200	Clip fastening to insert, for 10 mm thick glass
M6x30 DIN7991	18105500		200	Clip fastening to insert, for 12 mm thick glass
5x10 DIN6325	18101800		100	Corner connection of AYPC.115.0006 door frame profiles using AYPC.F50.1950-03 clamping corner

\*M6x27 DIN7991 screw is only supplied by ALUTECH.

Installation of full-glass leaf on AYPC.111.1003M hinges

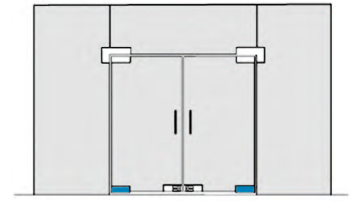
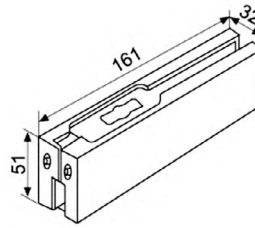


Drawing of AYPC.111.1004 lock strike plate (strike plate is supplied with lock)  
Material – steel 12X17 GOST 5632-72 (DIN 1.4016)



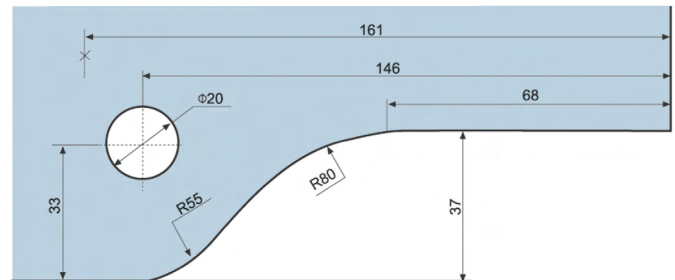
# ALT-110D

For 10, 12 thick glass



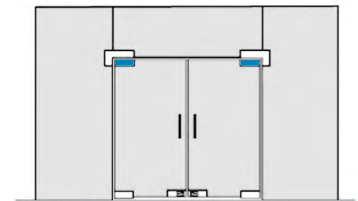
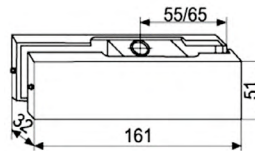
Compatibility: ALT-86D

Article	Name	Code	Colour
ALT-110D	Bottom hinge	103021806	A00-E6



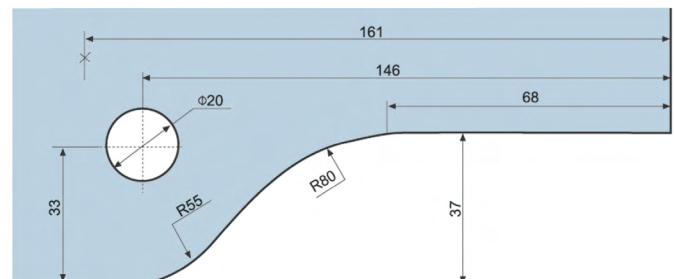
# ALT-120

For 10, 12 thick glass



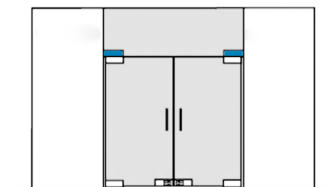
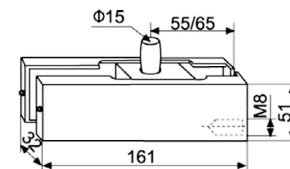
Compatibility: ALT-140  
ALT-130S  
ALT-133

Article	Name	Code	Colour
ALT-120	Upper hinge	103022806	A00-E6



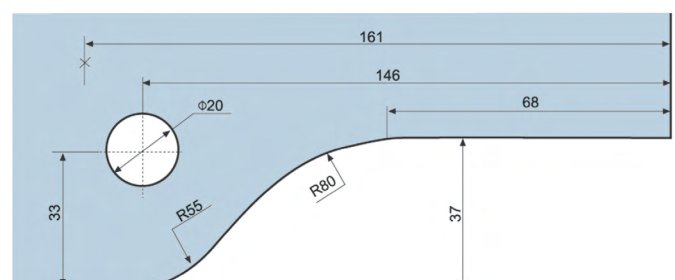
# ALT-130S

For 10, 12 thick glass



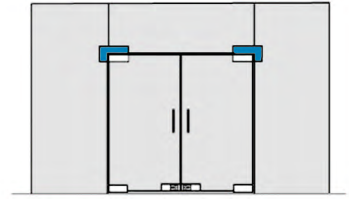
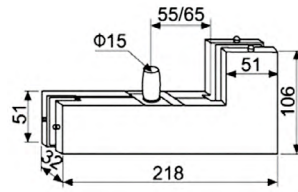
Compatibility: ALT-120

Article	Name	Code	Colour
ALT-130S	Pivot fitting	103023806	A00-E6



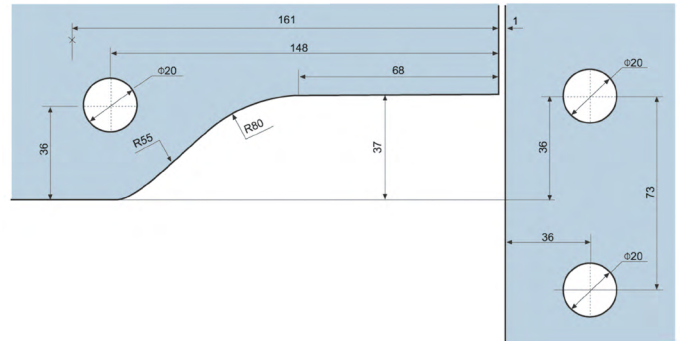
# ALT-140

For 10, 12 thick glass



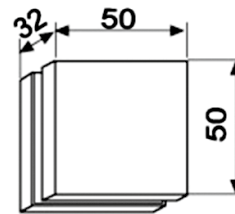
Compatibility: ALT-120

Article	Name	Code	Colour
ALT-140	Corner pivot patch fitting	103024806	A00-E6

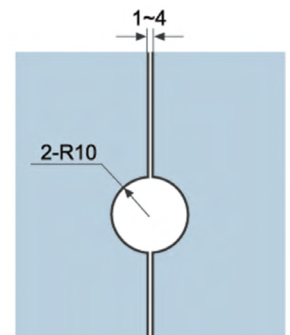


# ALT-122

For 10, 12 thick glass

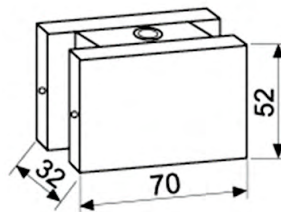


Article	Name	Code	Colour
ALT-122	Connector	103025806	A00-E6

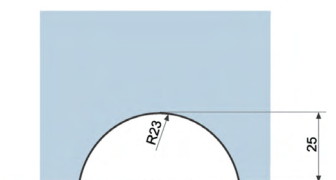


# ALT-191S

For 10, 12 thick glass

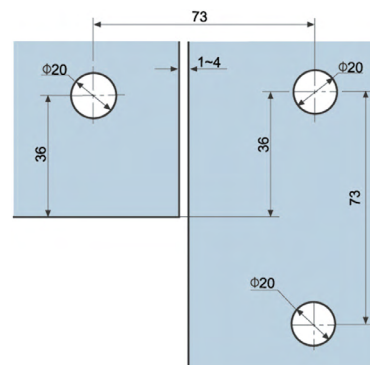
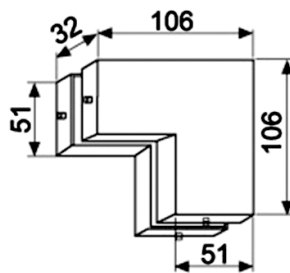


Article	Name	Code	Colour
ALT-191S	Connector with anchor	103026806	A00-E6



# ALT-160A

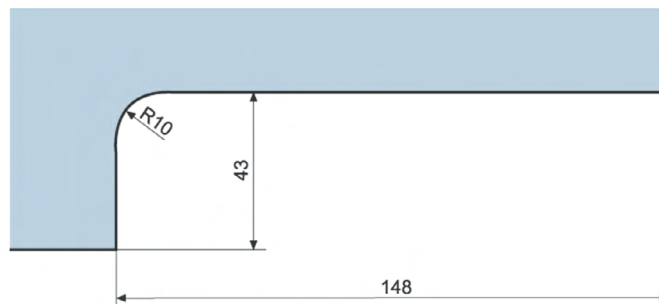
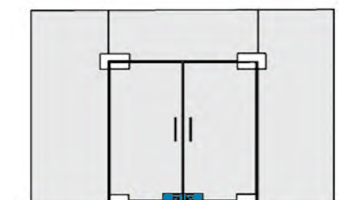
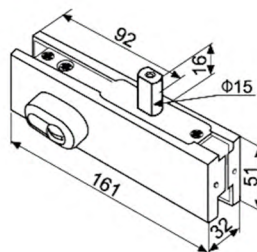
For 10, 12 thick glass



Article	Name	Code	Colour
ALT-160A	Corner fitting	103027806	A00-E6

# ALT-150RD

For 10, 12 thick glass

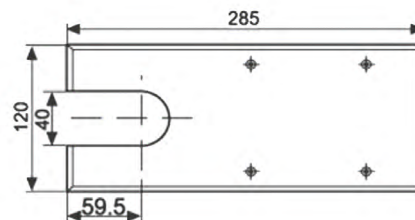
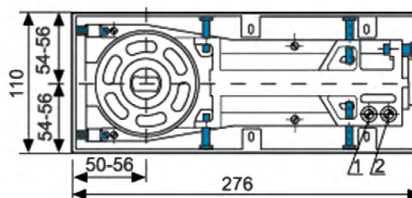
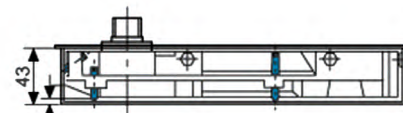
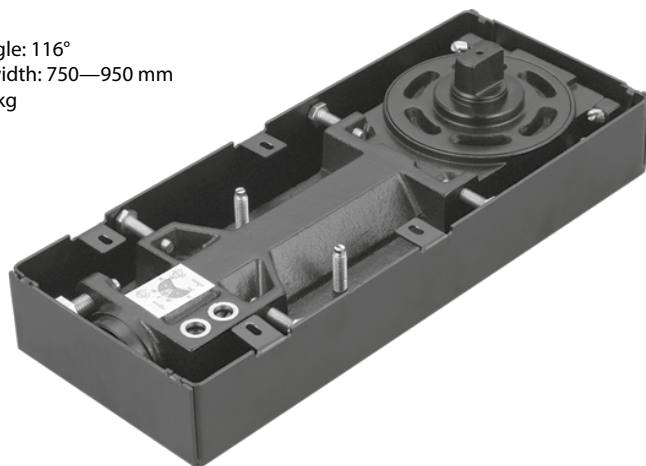


Compatibility: ALT-100-6

Article	Name	Code	Colour
ALT-150RD	Bottom lock	103028806	A00-E6

# ALT-86D

Fixation: 90°  
Maximum opening angle: 116°  
Recommended door width: 750—950 mm  
Maximum loading: 95 kg  
Cover cap: SSS  
Two speed closing



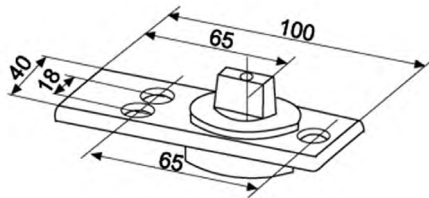
Compatibility: ALT-110D

Article	Name	Code	Colour
ALT-86D	Floor door closer	10303200	—

## ALT-110-12D



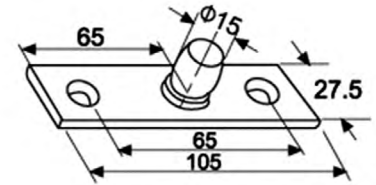
Use a 32 mm hole saw for the floor hole



Compatibility: ALT-110D

Bottom pivot	Name	Code	Colour
ALT-110-12D	Bottom pivot	10303000	—

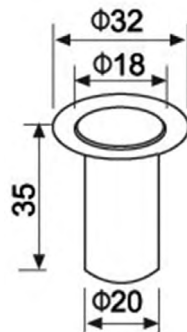
## ALT-133



Compatibility: ALT-120

Article	Name	Code	Colour
ALT-133	Upper pivot	10303100	—

## ALT-100-6

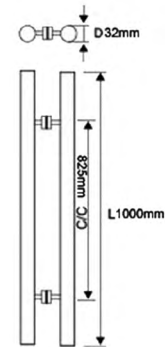


Compatibility: ALT-150RD

Article	Name	Code	Colour
ALT-100-6	Counterpart	10302900	—

## ALT-1000/32

For 10,12 mm thick glass  
Material: SSS  
Glass hole:  $\phi 12$  mm  
Center to center distance: 825 mm  
Whole length: 1000 mm  
Diameter: 32 mm



Article	Name	Code	Colour
ALT-1000/32	Handle	10303300	—





**ALUTECH ALT 115**

Full-glass partition wall  
system

# INSTALLATION DIAGRAM OF THE INFILL UNIT

01

02

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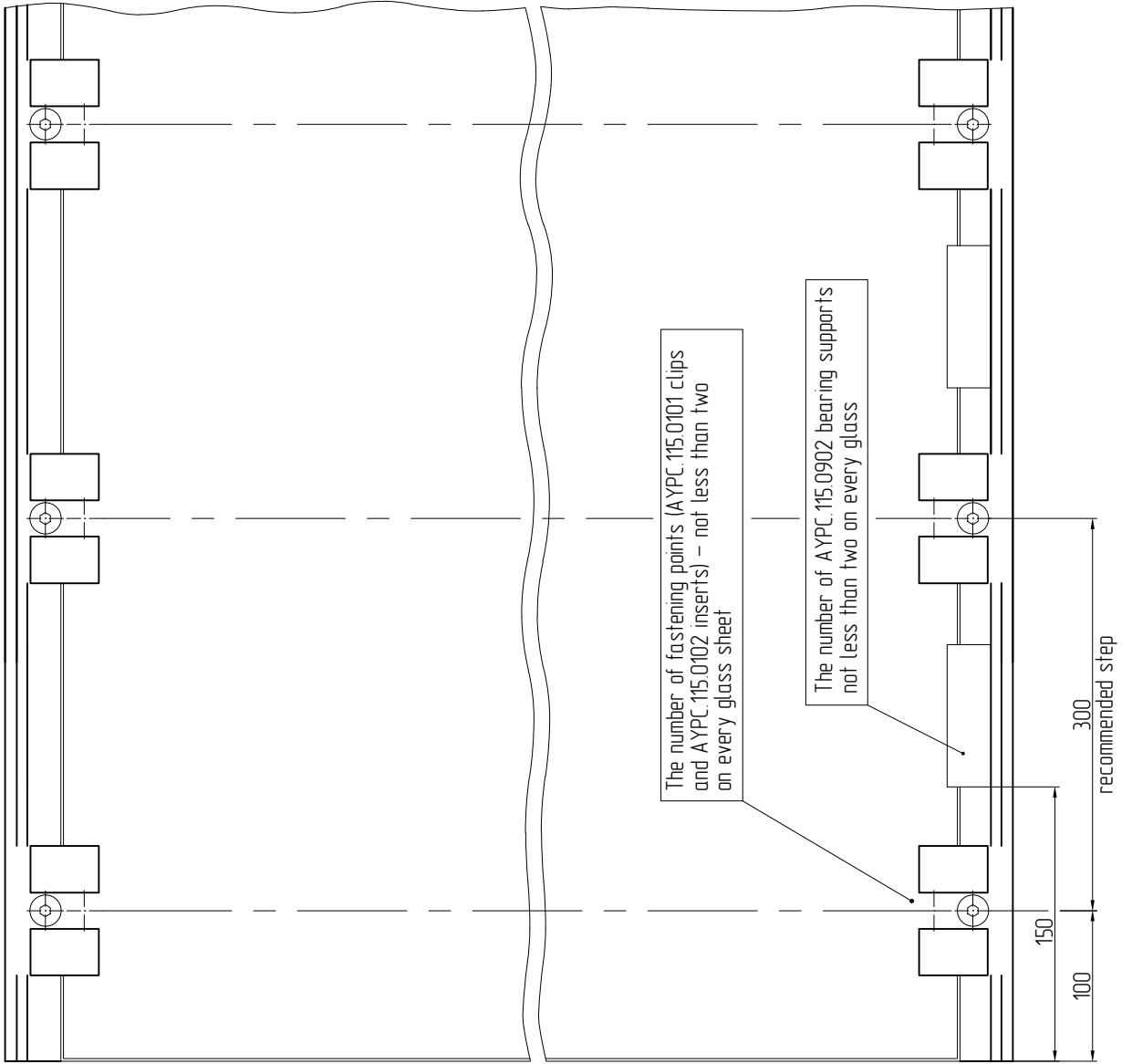
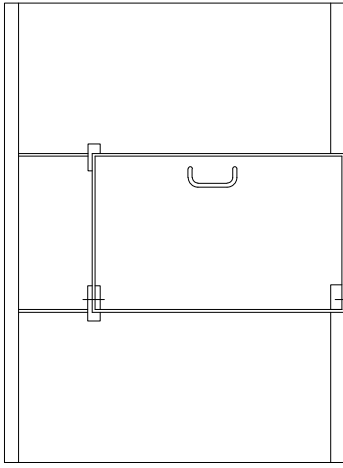
05

06

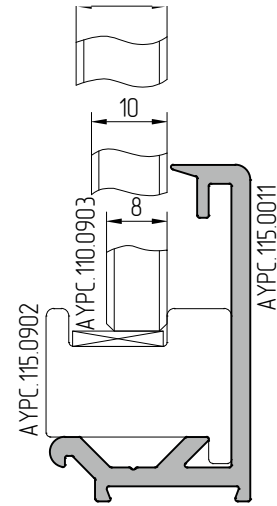
07



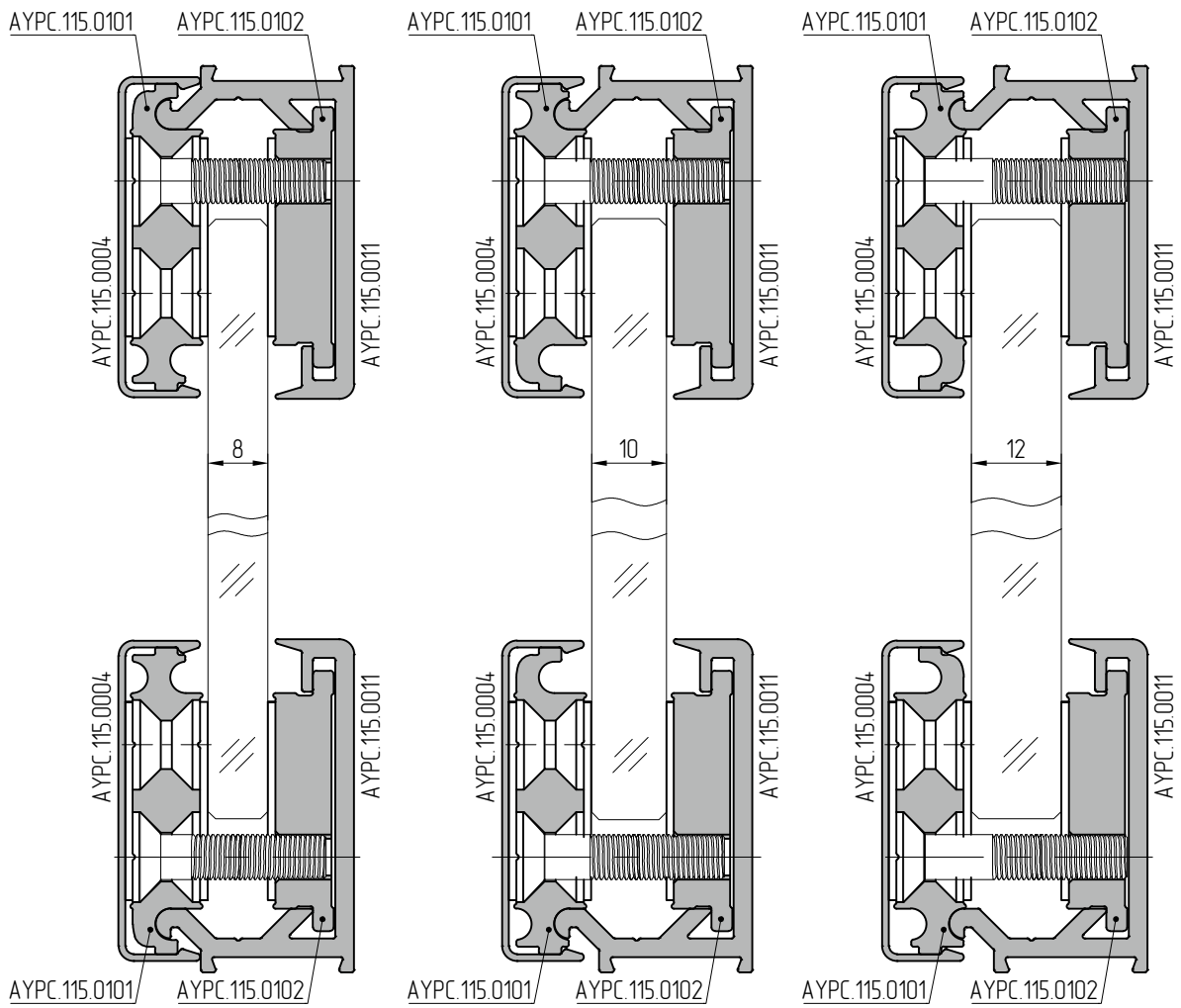
The main variant of glass installation (on AYPC.115.0902 bearing supports)



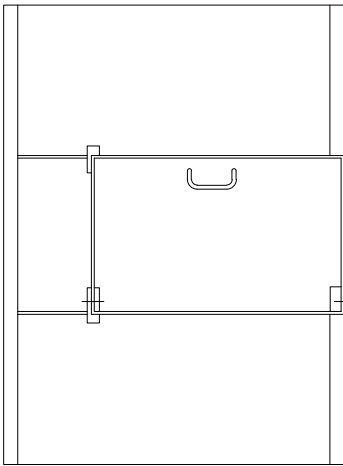
Main glass installation option (on AYPC.115.0902 bearing support)



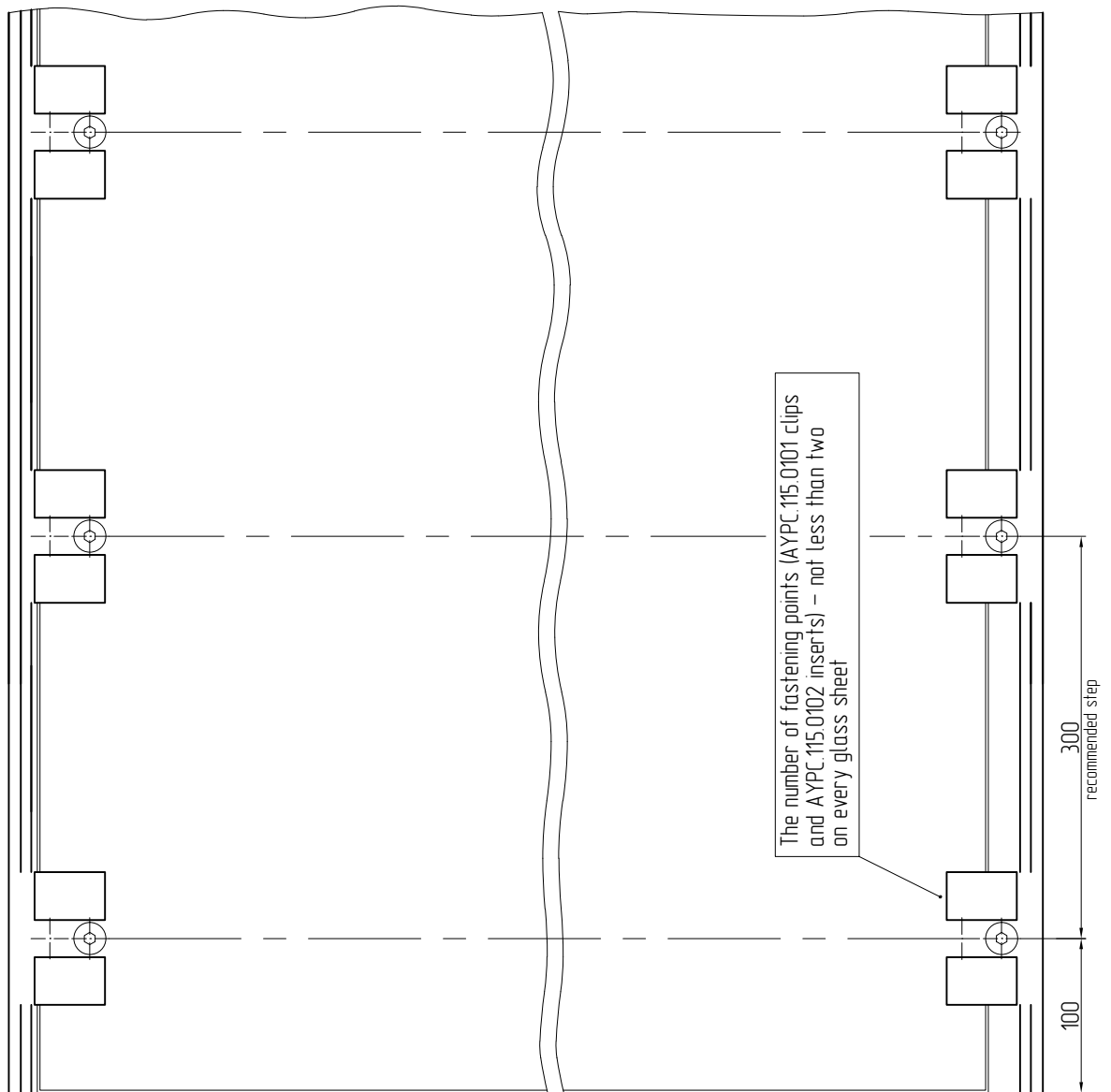
AYPC.110.0903 leveling supports are to be installed if necessary to compensate uneven floors.



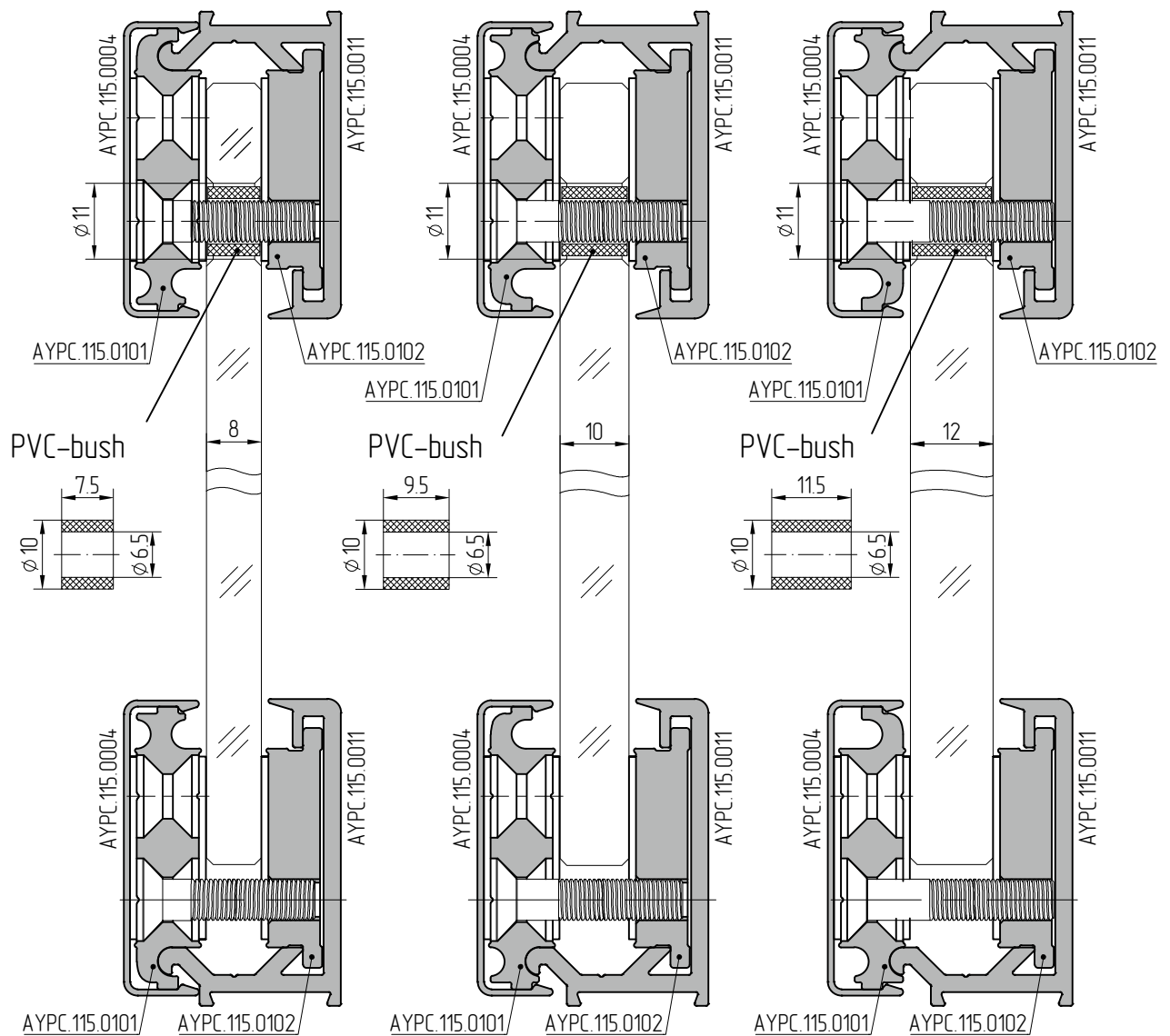
Note: AYPC.115.0011 guiding profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.



Glass fastening option for additional safety (through holes)



Glass fastening option for additional safety (through holes)



Note: AYPC.115.0011 guiding profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.



**ALUTECH ALT 115**

Full-glass partition wall system

# CROSS SECTION OF THE PARTITION

01

02

03

04

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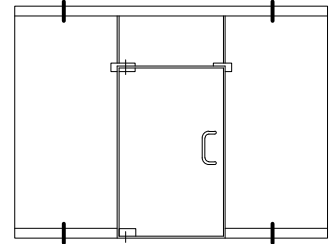
06

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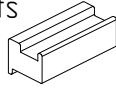




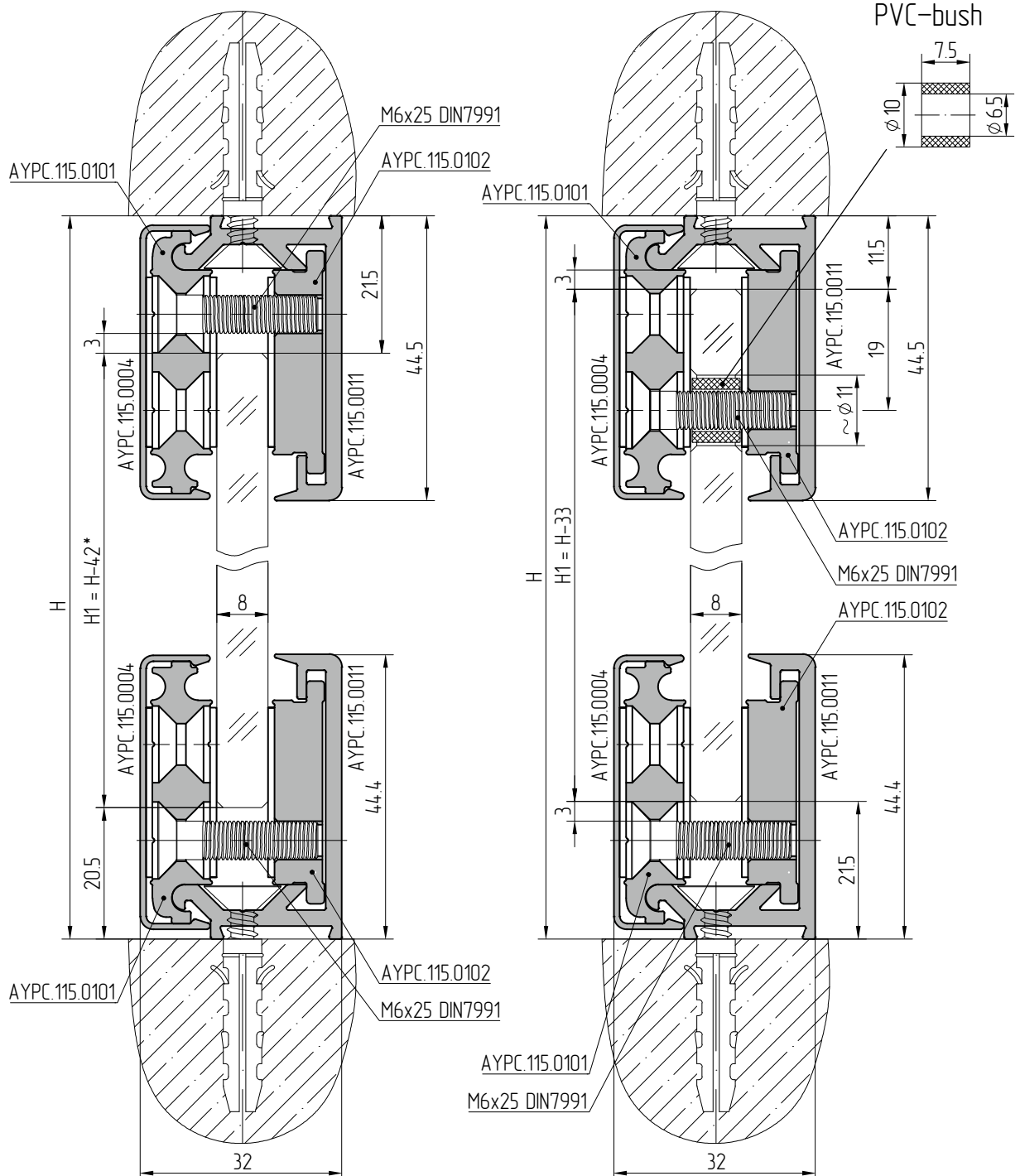
8 mm thick tempered glass partition



Option of installing glass on AYPC.115.0902 bearing supports

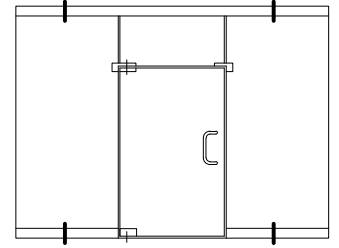


Option of top glass fixing through holes



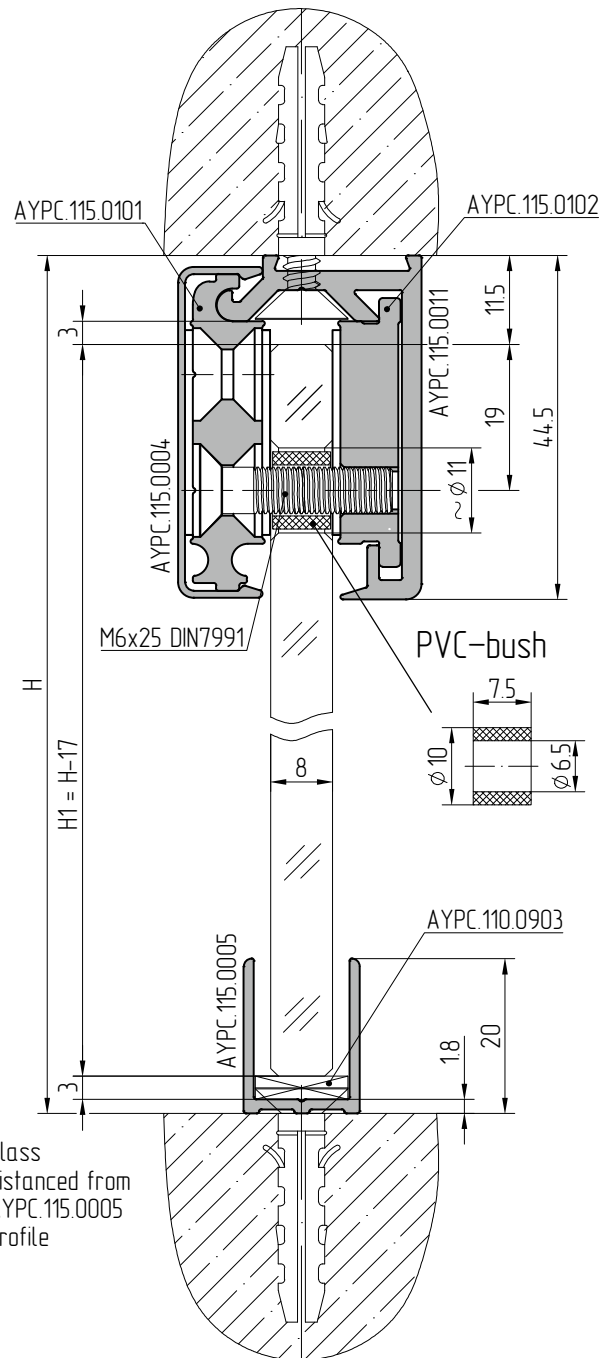
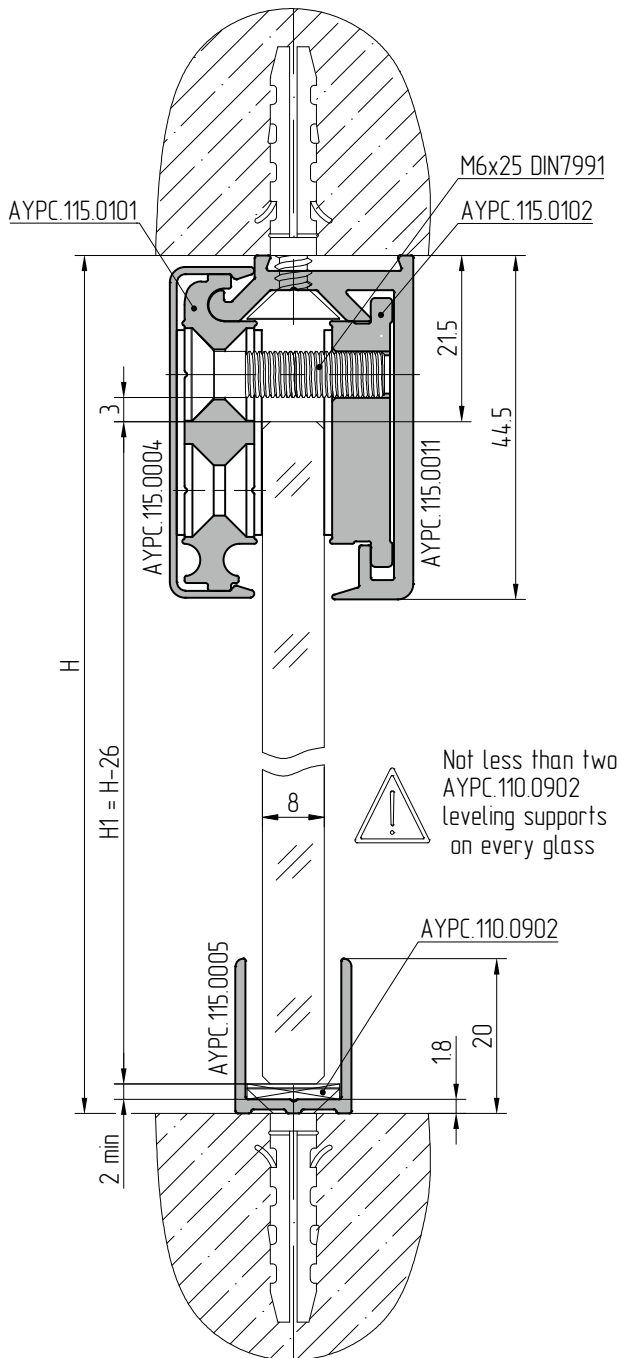
Note: AYPC.115.0011 guide profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.

8 mm thick tempered glass partition



Option of using U-profile

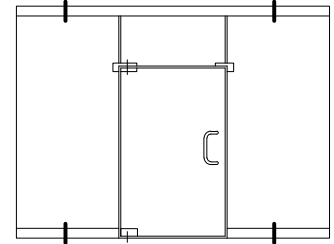
Option of top glass fixing through holes and U-profile use



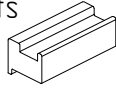
1. Theoretical size of glass height is given excluding the thickness of leveling supports.
2. Determining the actual height of the glass it is necessary to consider project deflections of overlaps.

Note: AYPC.115.0011 guide profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.

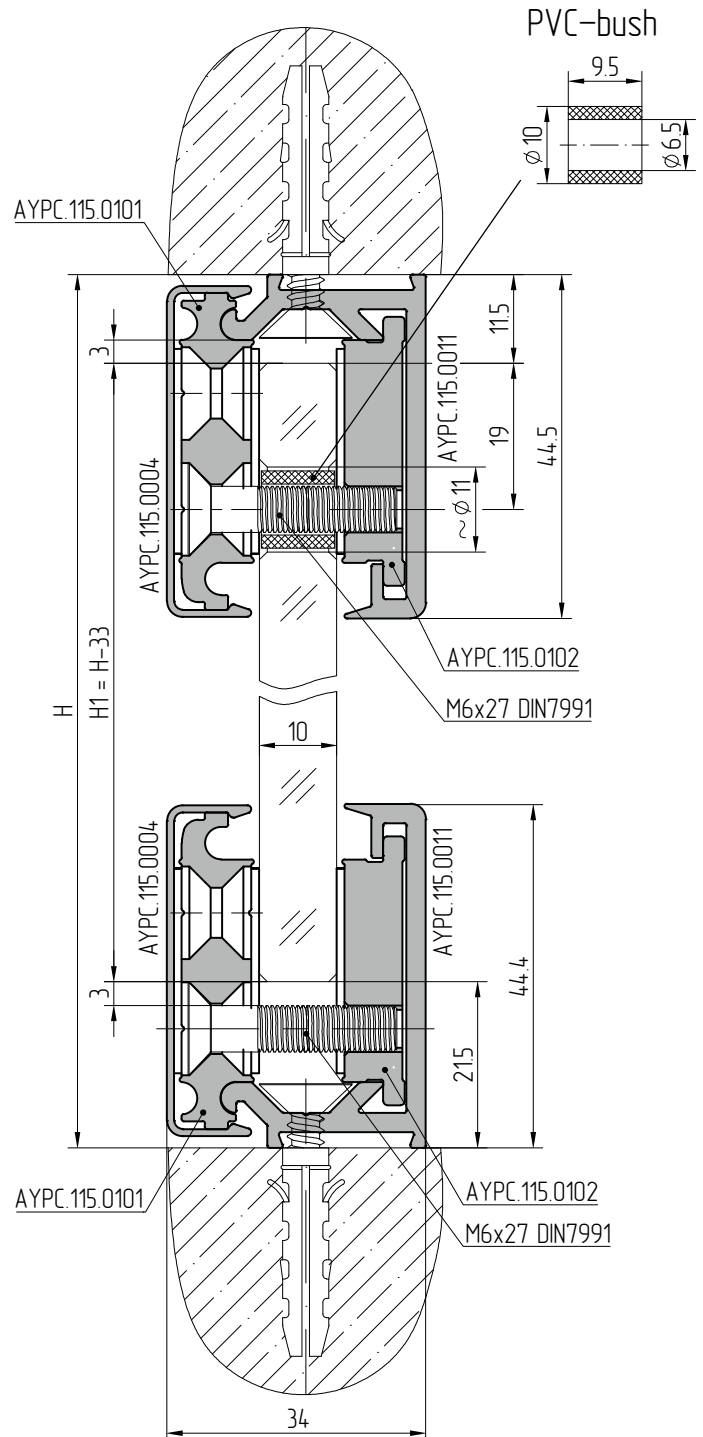
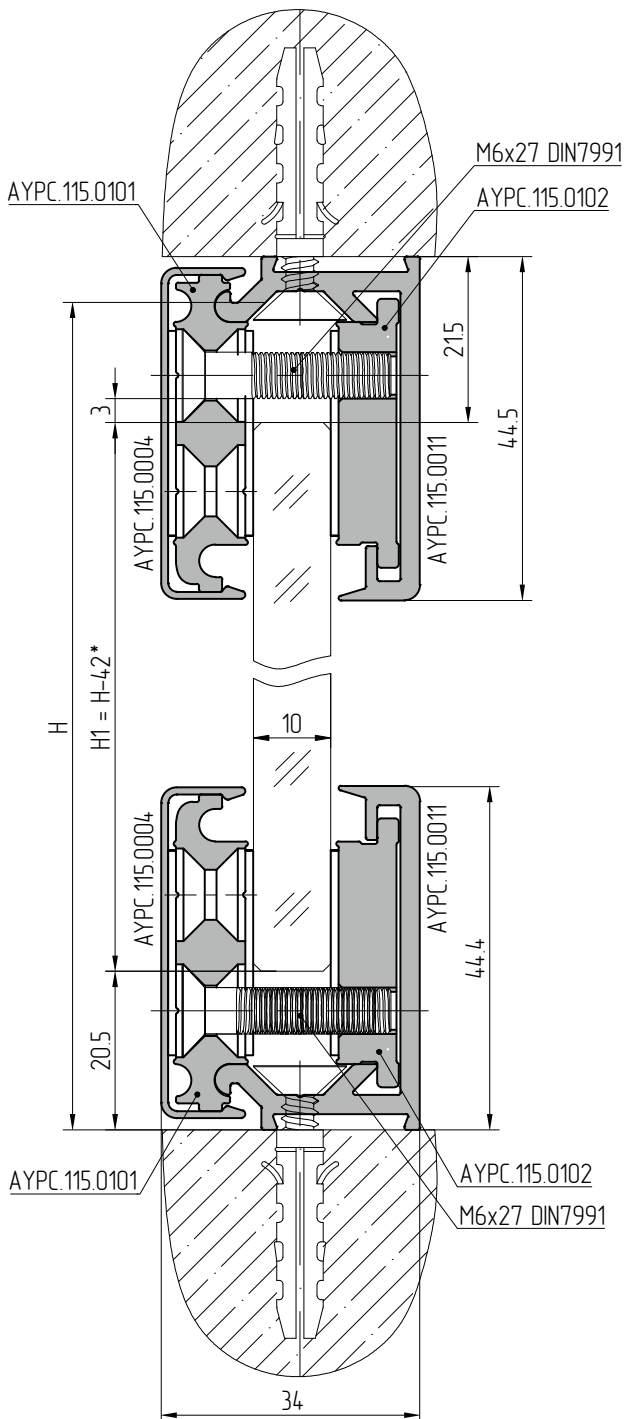
10 mm thick tempered glass partition



Option of installing glass on AYPC.115.0902 bearing supports

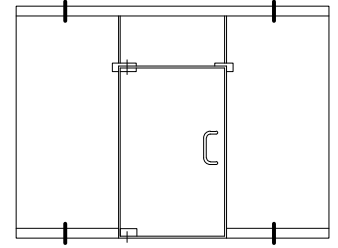


Option of top glass fixing through holes



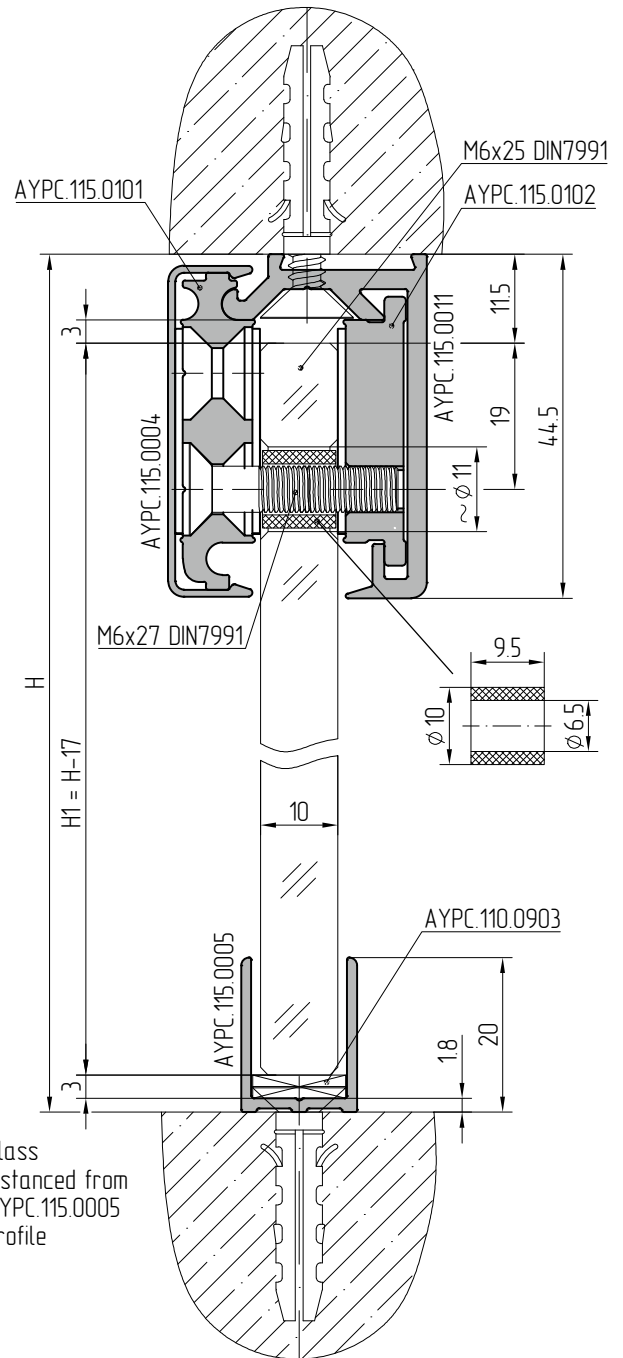
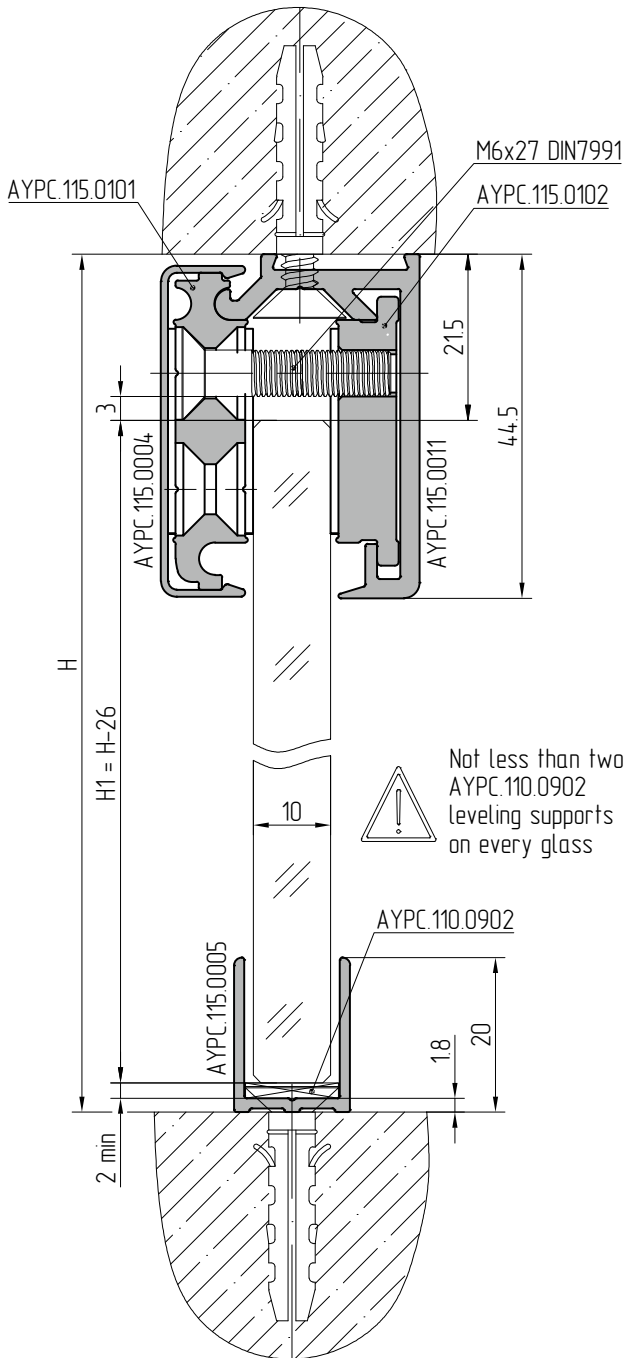
Note: AYPC.115.0011 guide profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.

10 mm thick tempered glass partition



Option of using U-profile

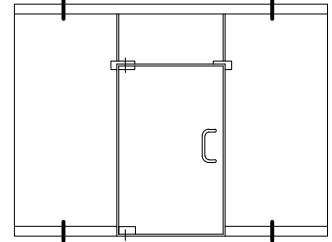
Option of top glass fixing through holes and U-profile use



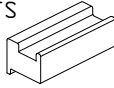
1. Theoretical size of glass height is given excluding the thickness of leveling supports.
2. Determining the actual height of the glass it is necessary to consider project deflections of overlaps.

Note: AYPC.115.0011 guide profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.

12 mm thick tempered glass partition

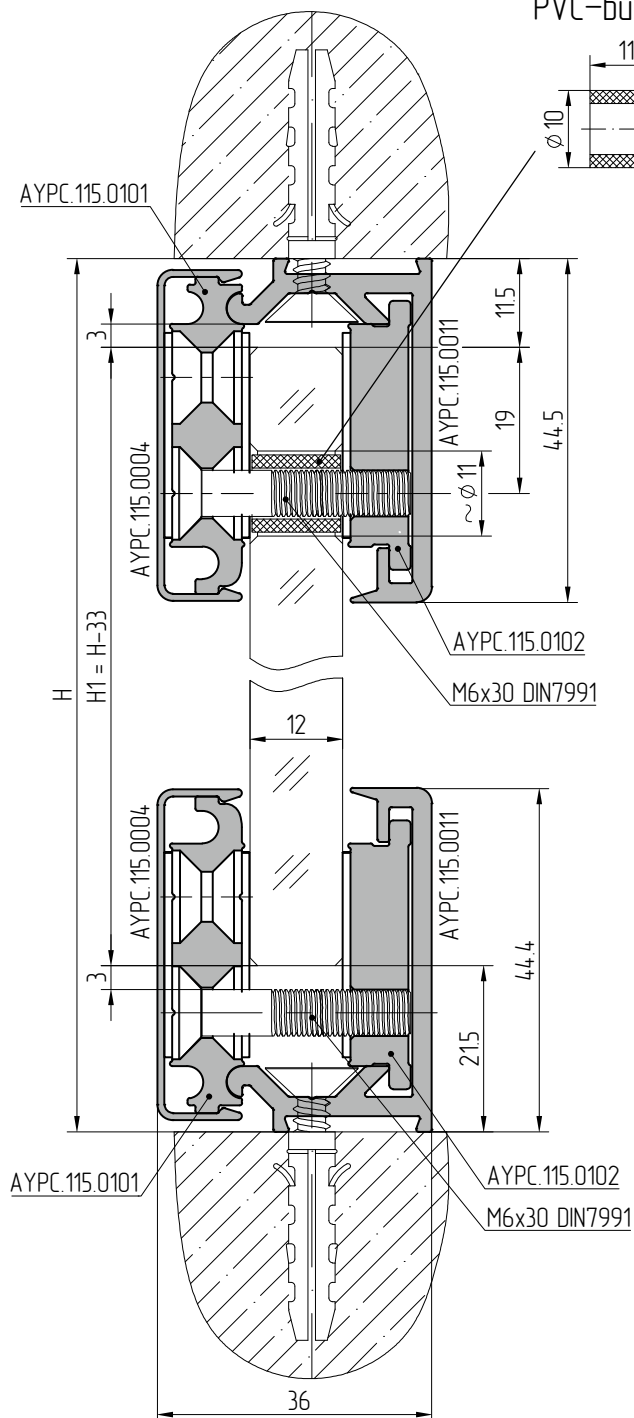
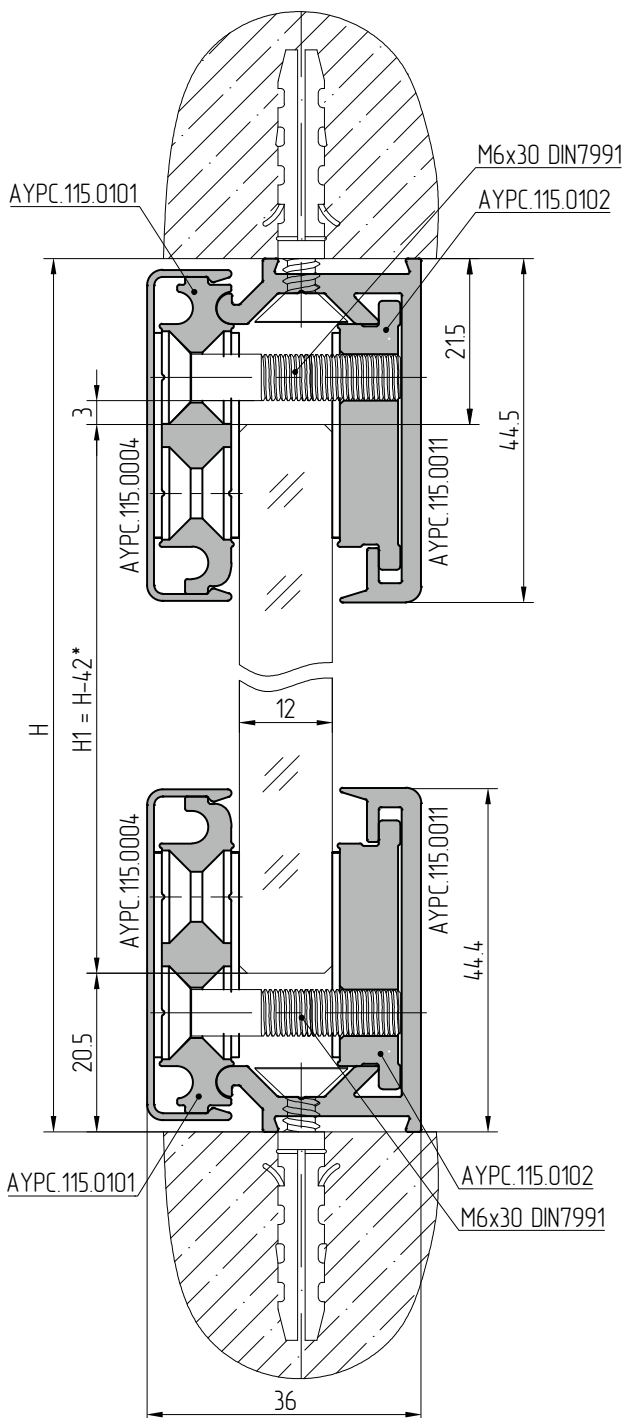
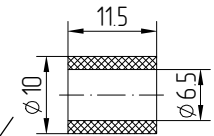


Option of installing glass on AYPC.115.0902 bearing supports



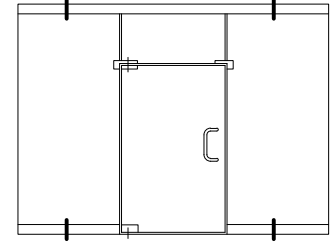
Option of top glass fixing through holes

PVC-bush

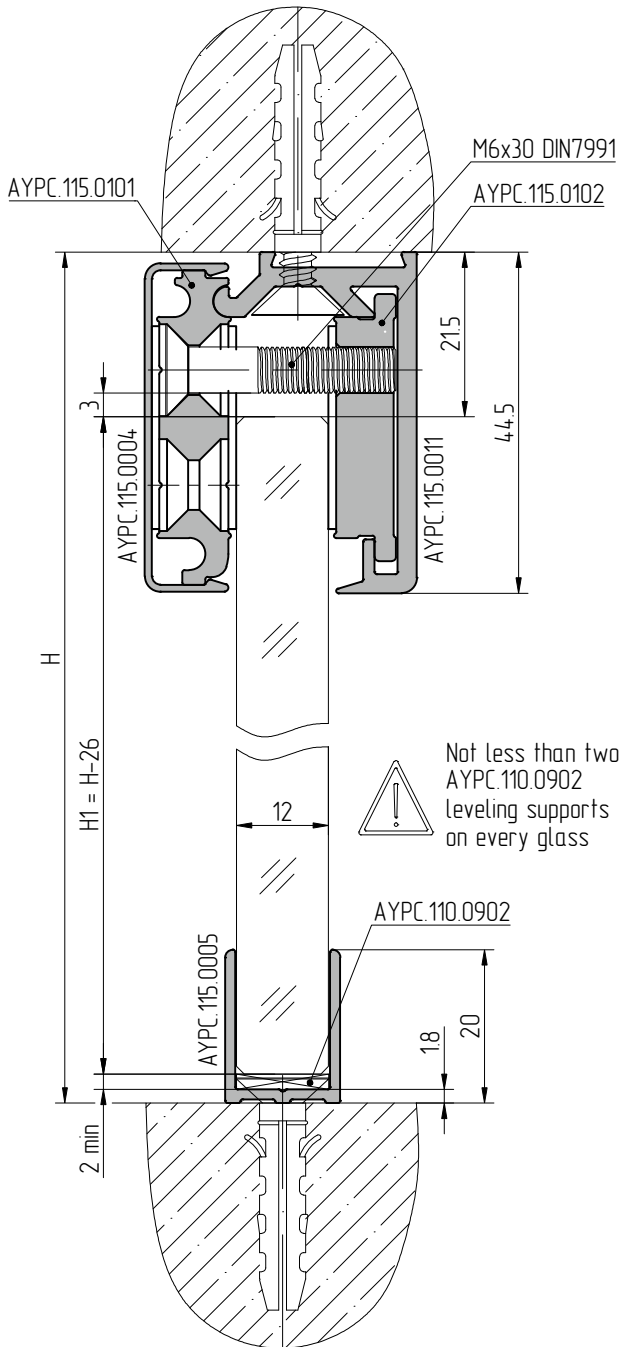


Note: AYPC.115.0011 guide profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.

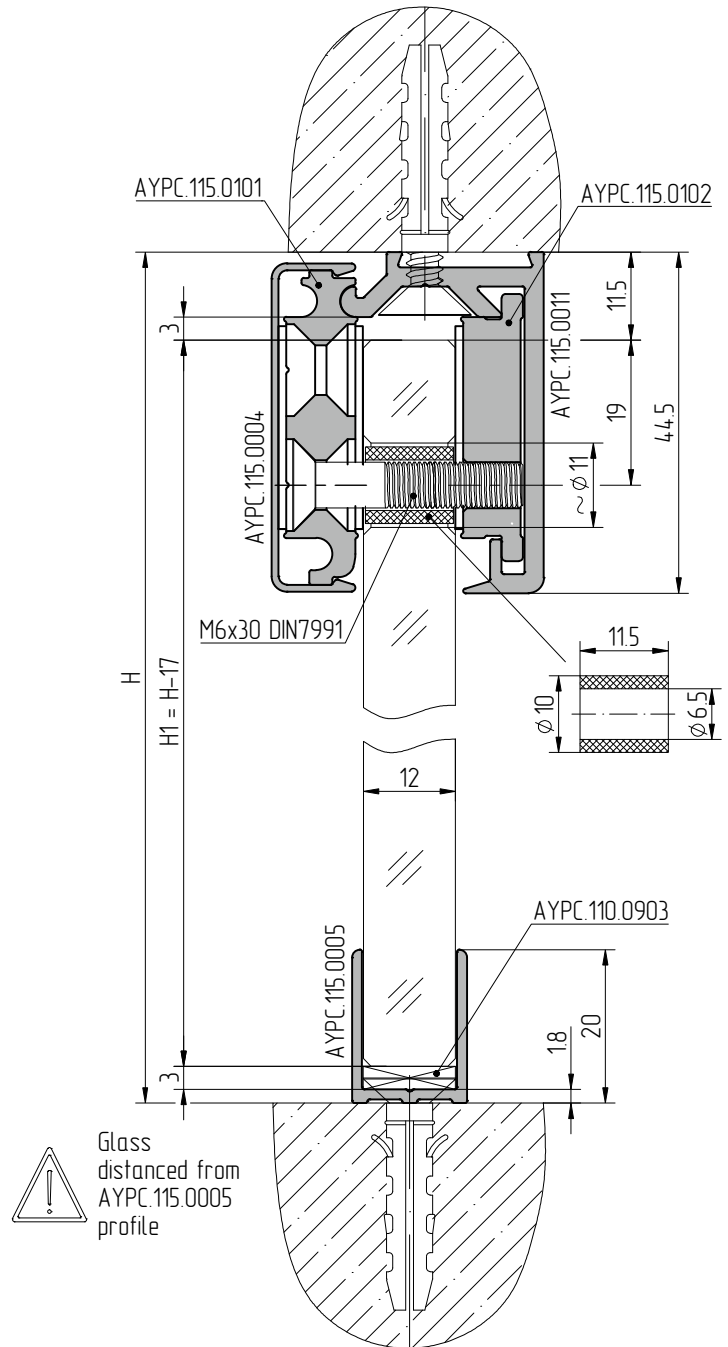
12 mm thick tempered glass partition



Option of using U-profile



Option of top glass fixing through holes and U-profile use



1. Theoretical size of glass height is given excluding the thickness of leveling supports.
2. Determining the actual height of the glass it is necessary to consider project deflections of overlaps.

Note: AYPC.115.0011 guide profile can be replaced with AYPC.115.0001 profile. Drill holes in AYPC.115.0001 profile for screws fastening to floor or ceiling.



**ALUTECH ALT 115**

Full-glass partition wall system

# DOORWAY. CROSS SECTION. ASSEMBLY INSTALLATION

01

02

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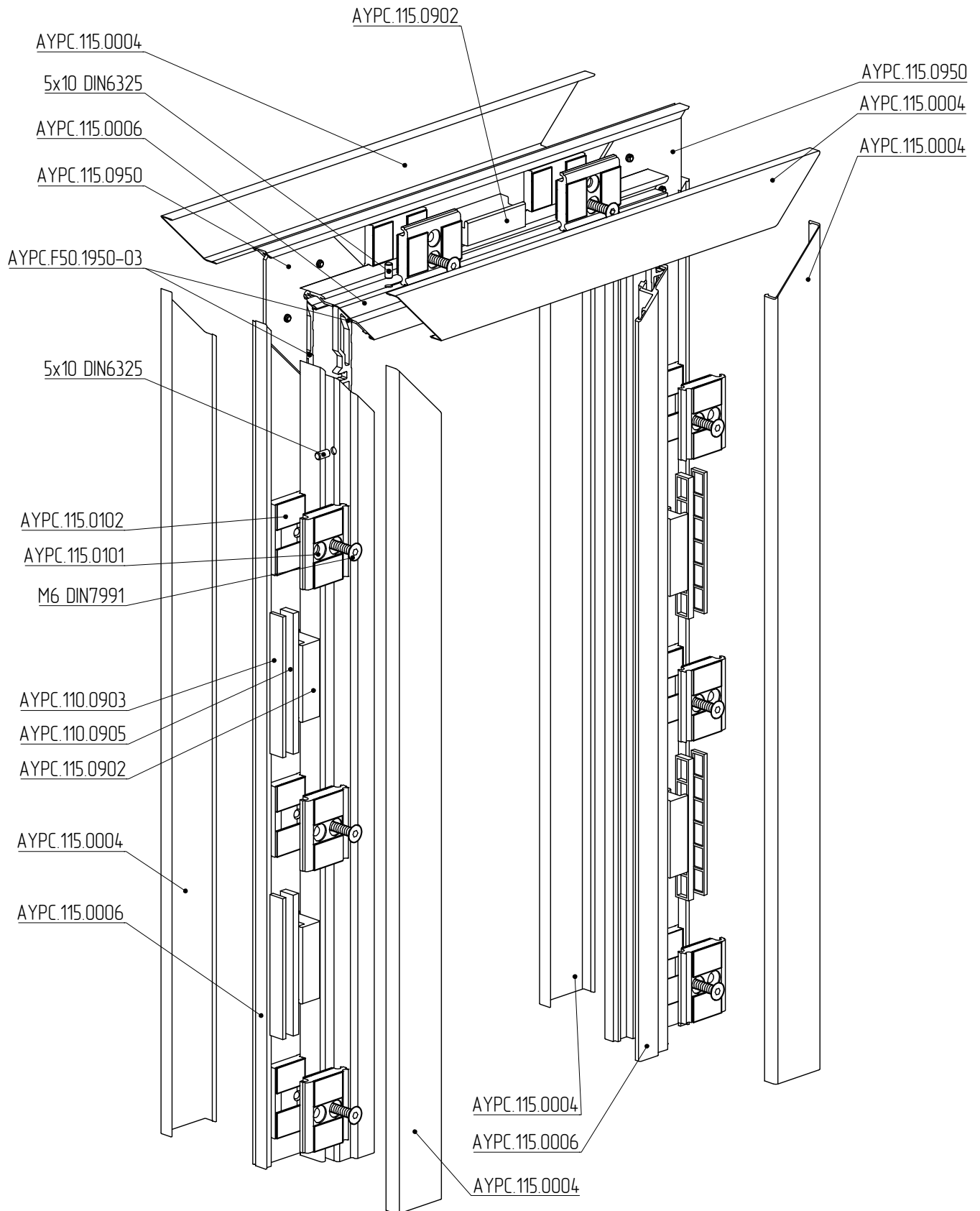
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Assembly scheme of door framework using AYPC.115.0006 frame profile



01

02

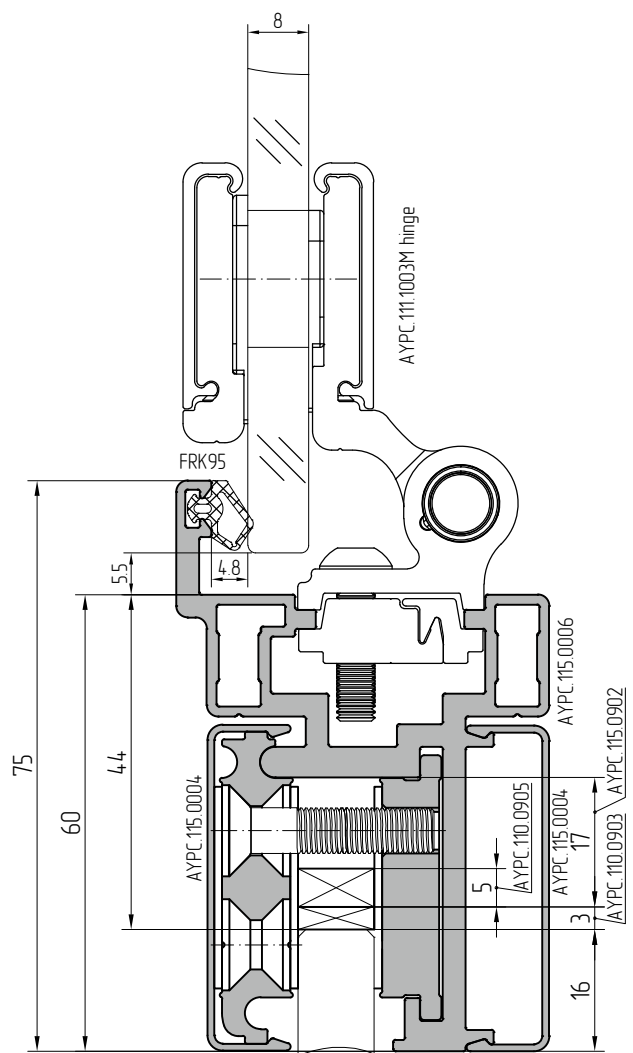
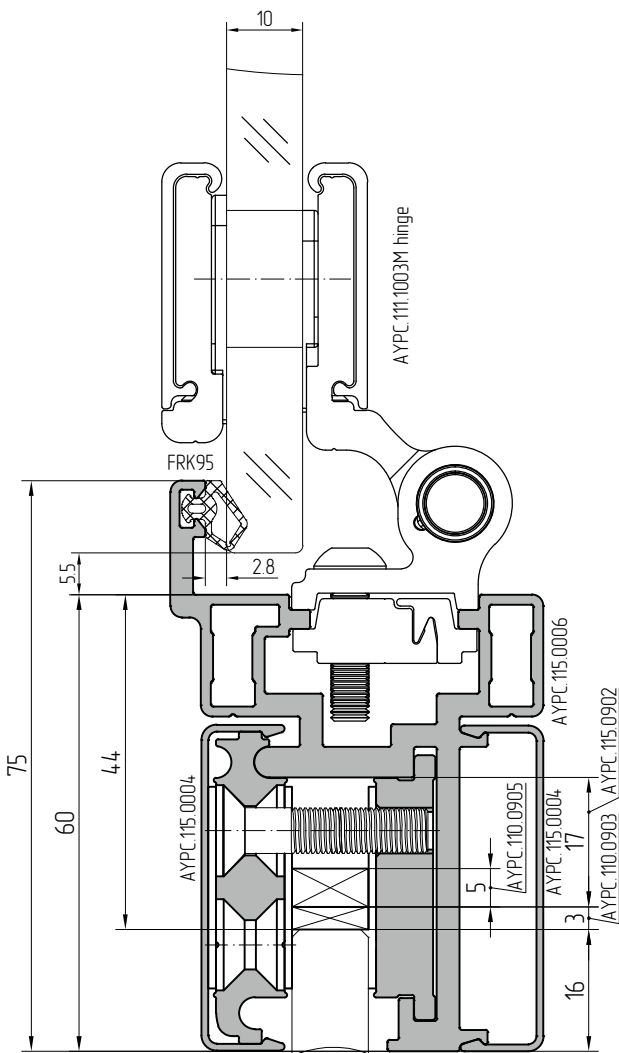
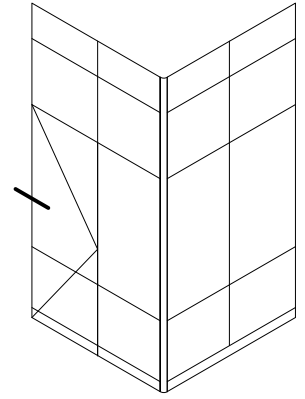
03

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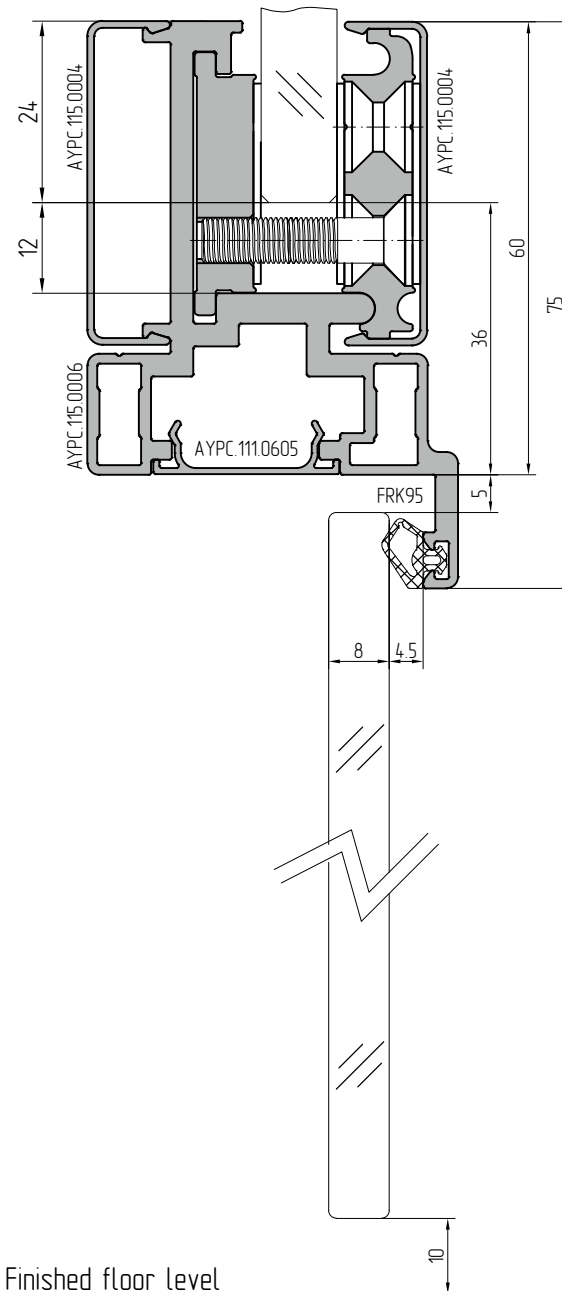
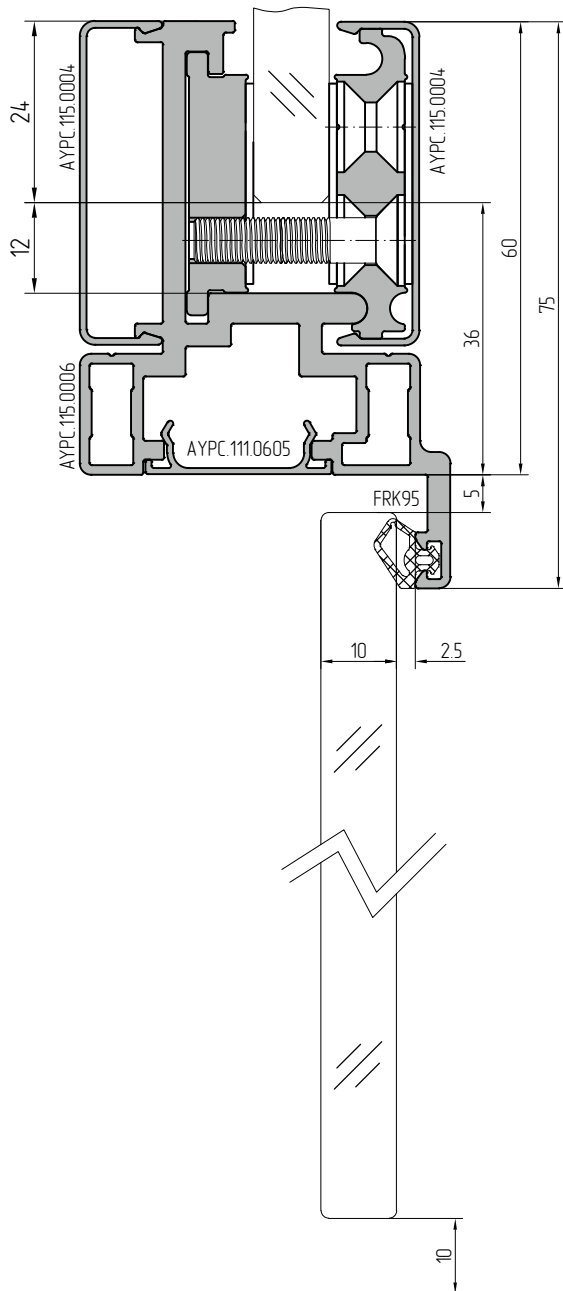
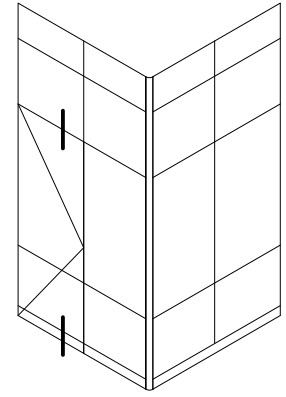
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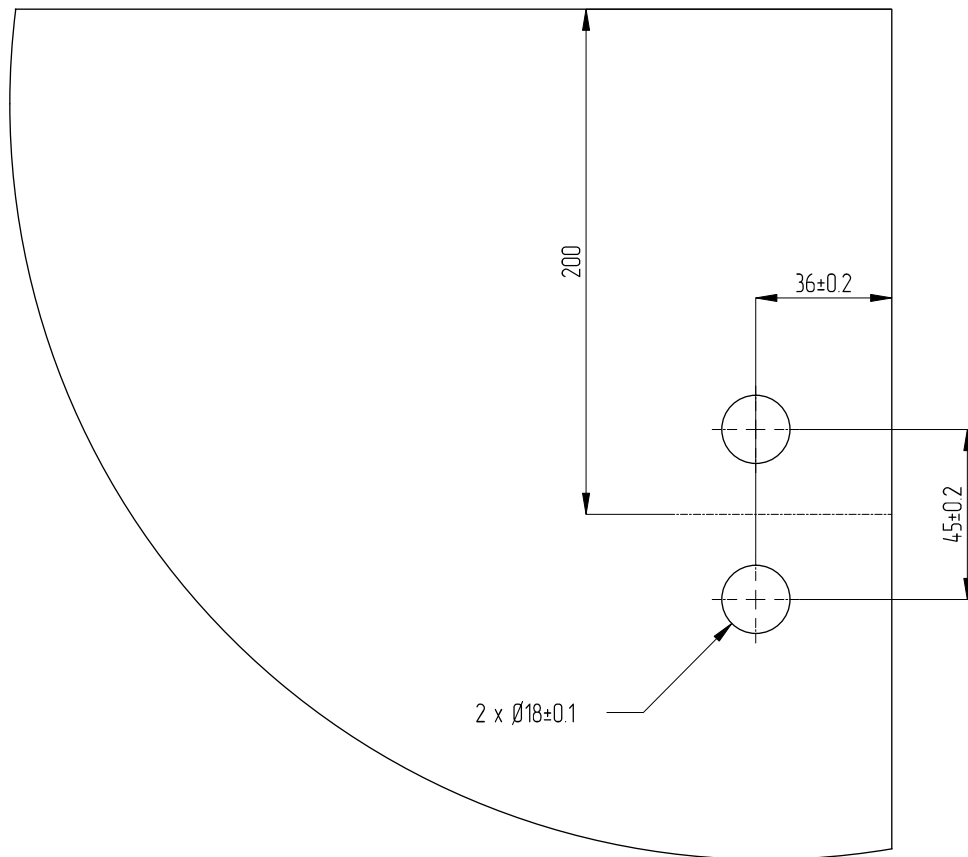




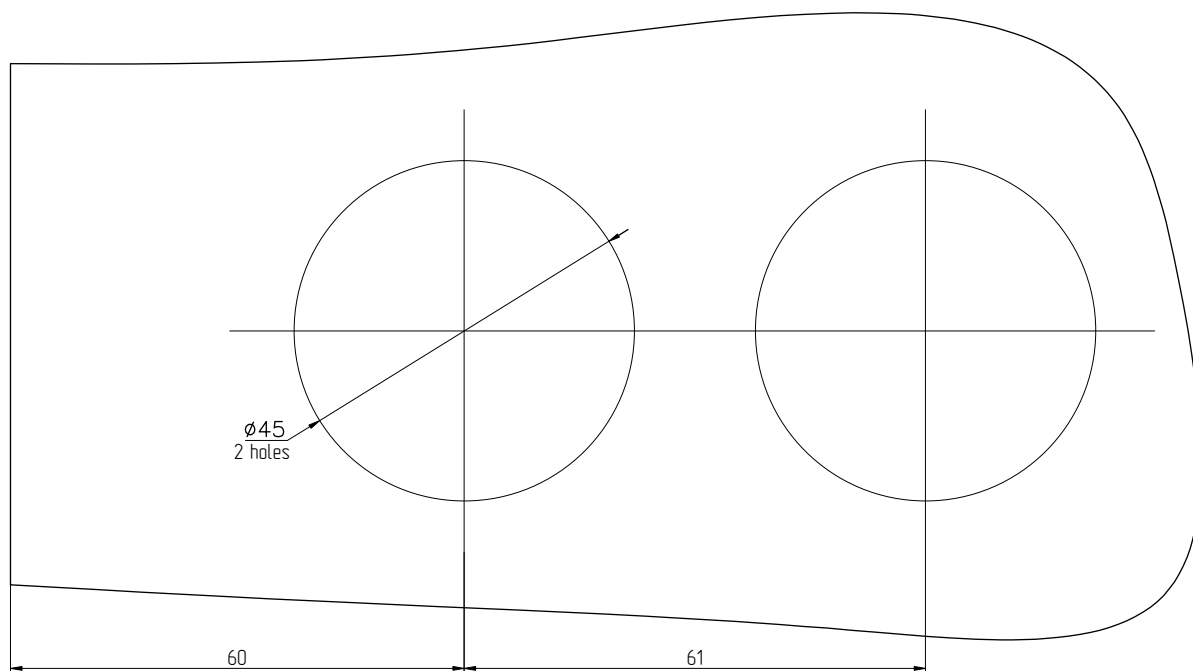


Finished floor level

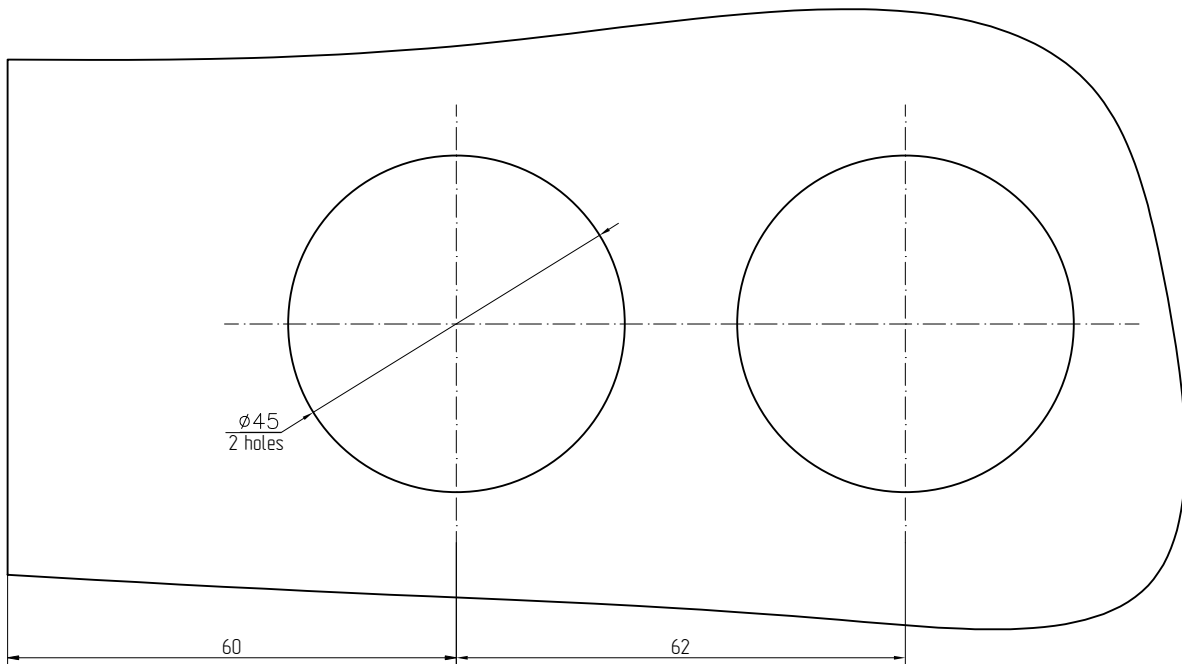
Door glass treatment for AYPC.111.1003M hinge installation



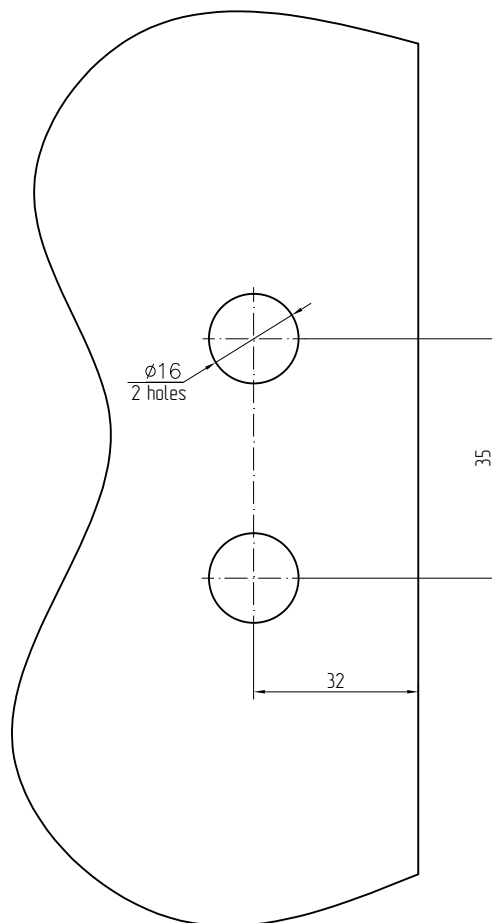
Door glass treatment for AYPC.111.1004 lock installation



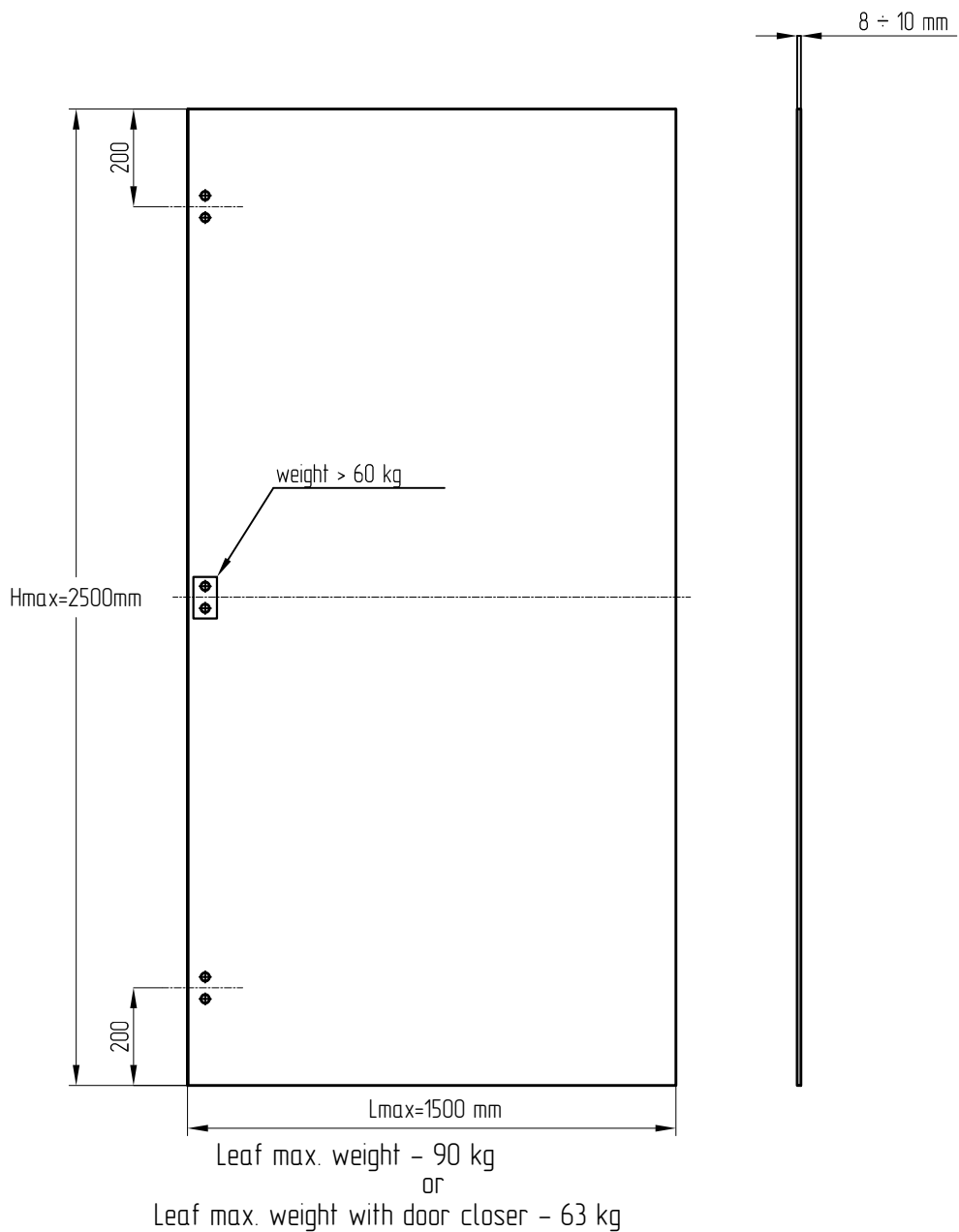
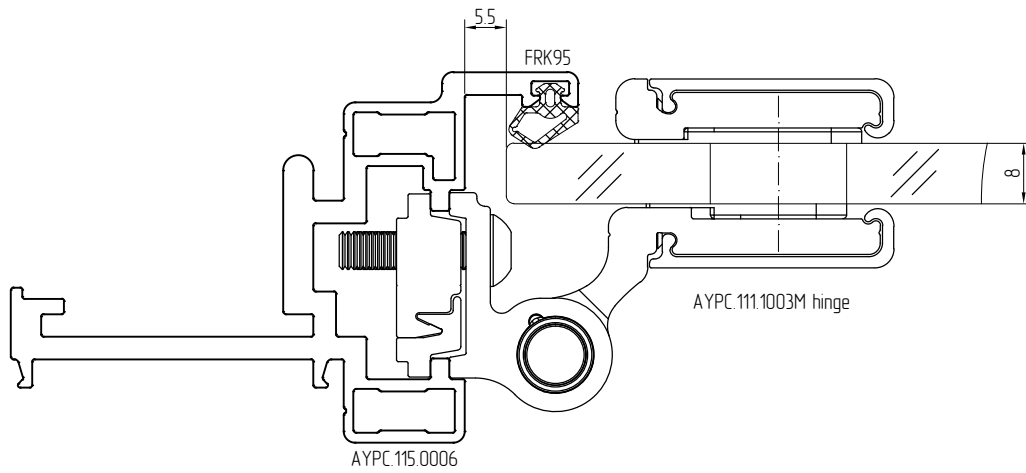
Door glass treatment for ALT-5061S lock installation

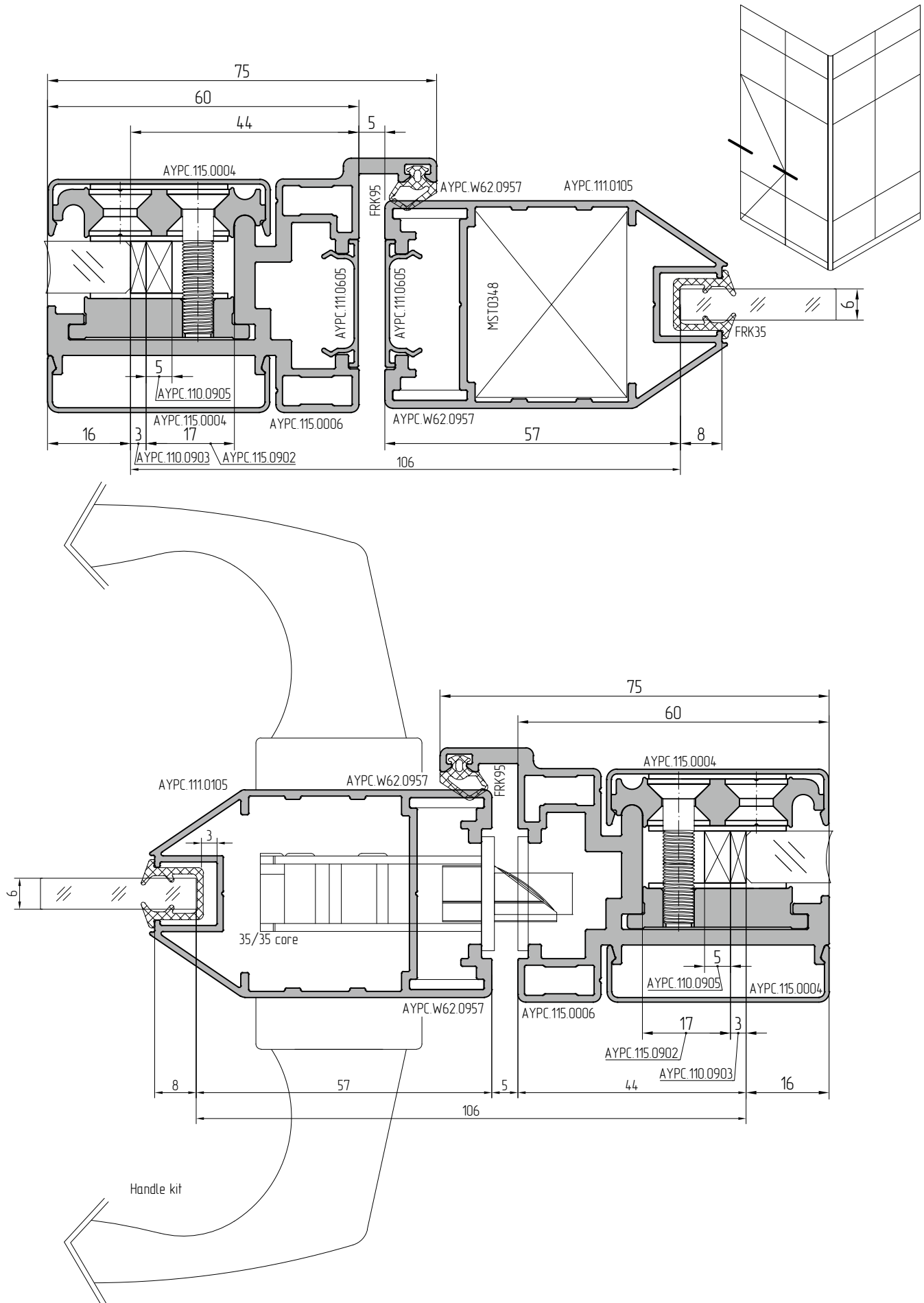


Door glass treatment for ALT-5061S lock strike plate installation

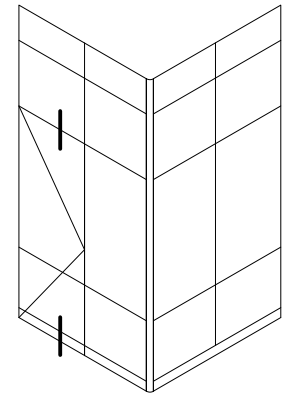
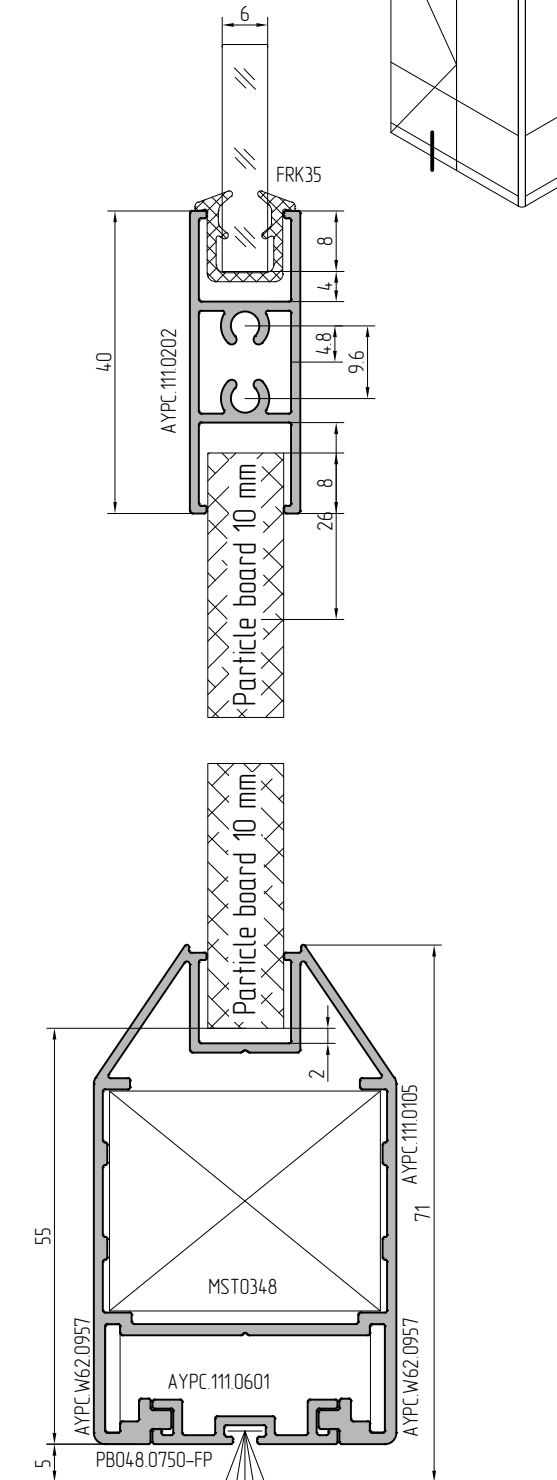
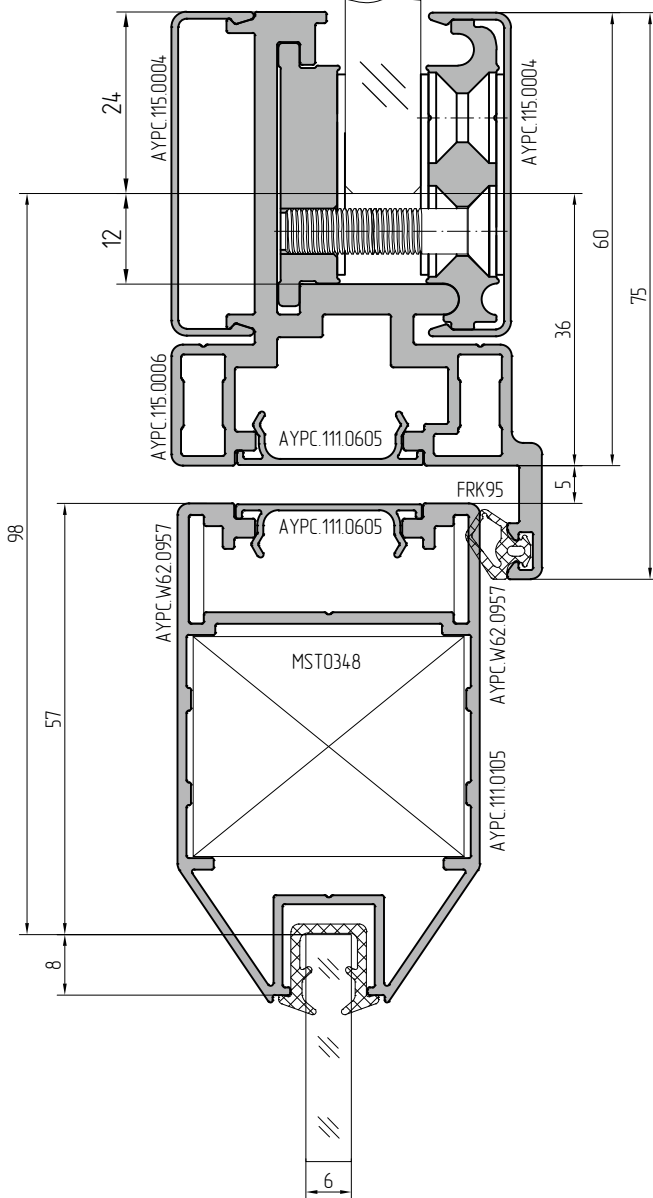


Recommended scheme for hinge installation

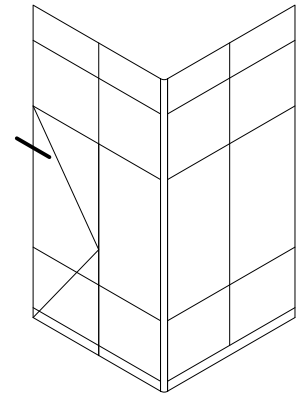
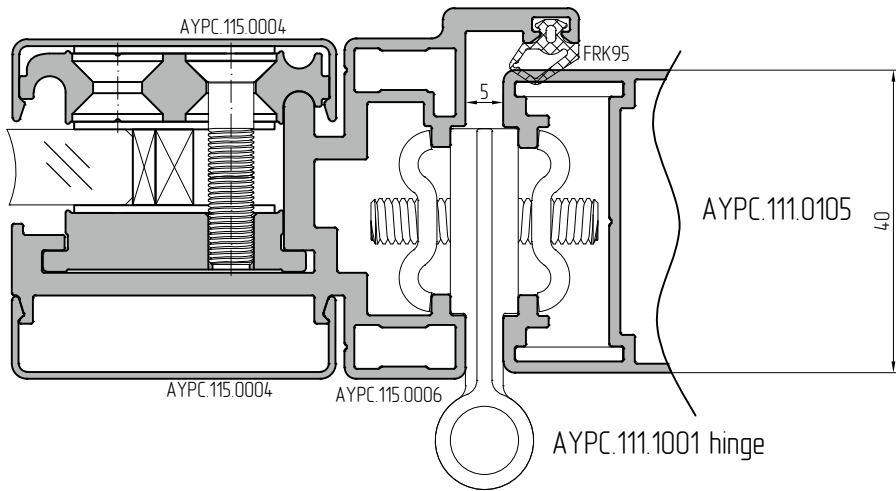






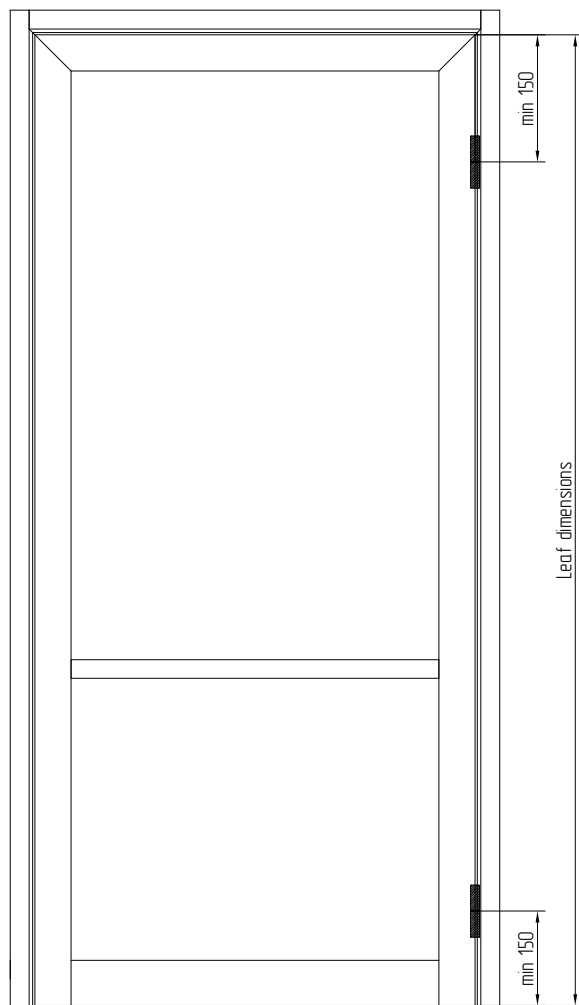


Hinge installation scheme



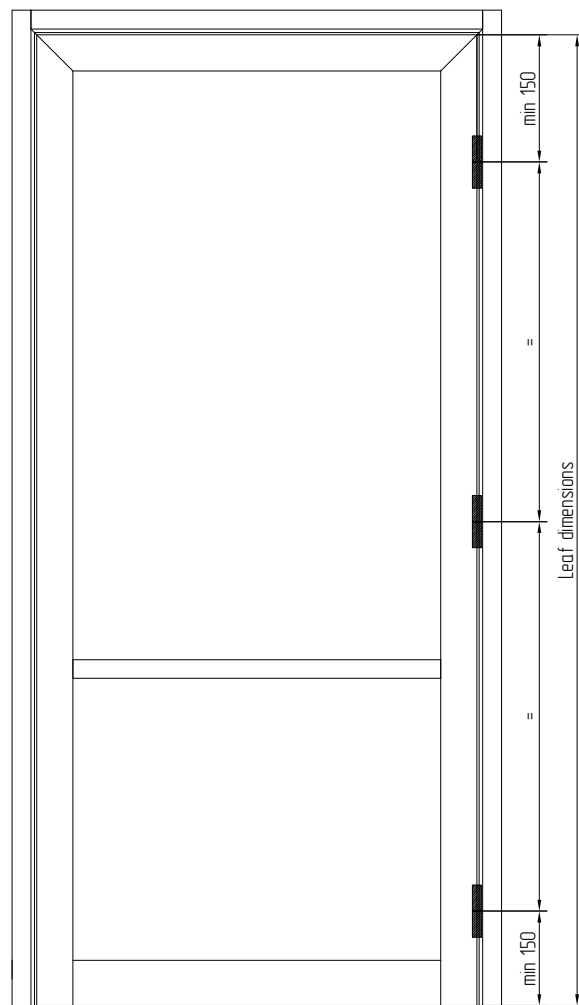
Recommended scheme for hinge installation

Two hinges

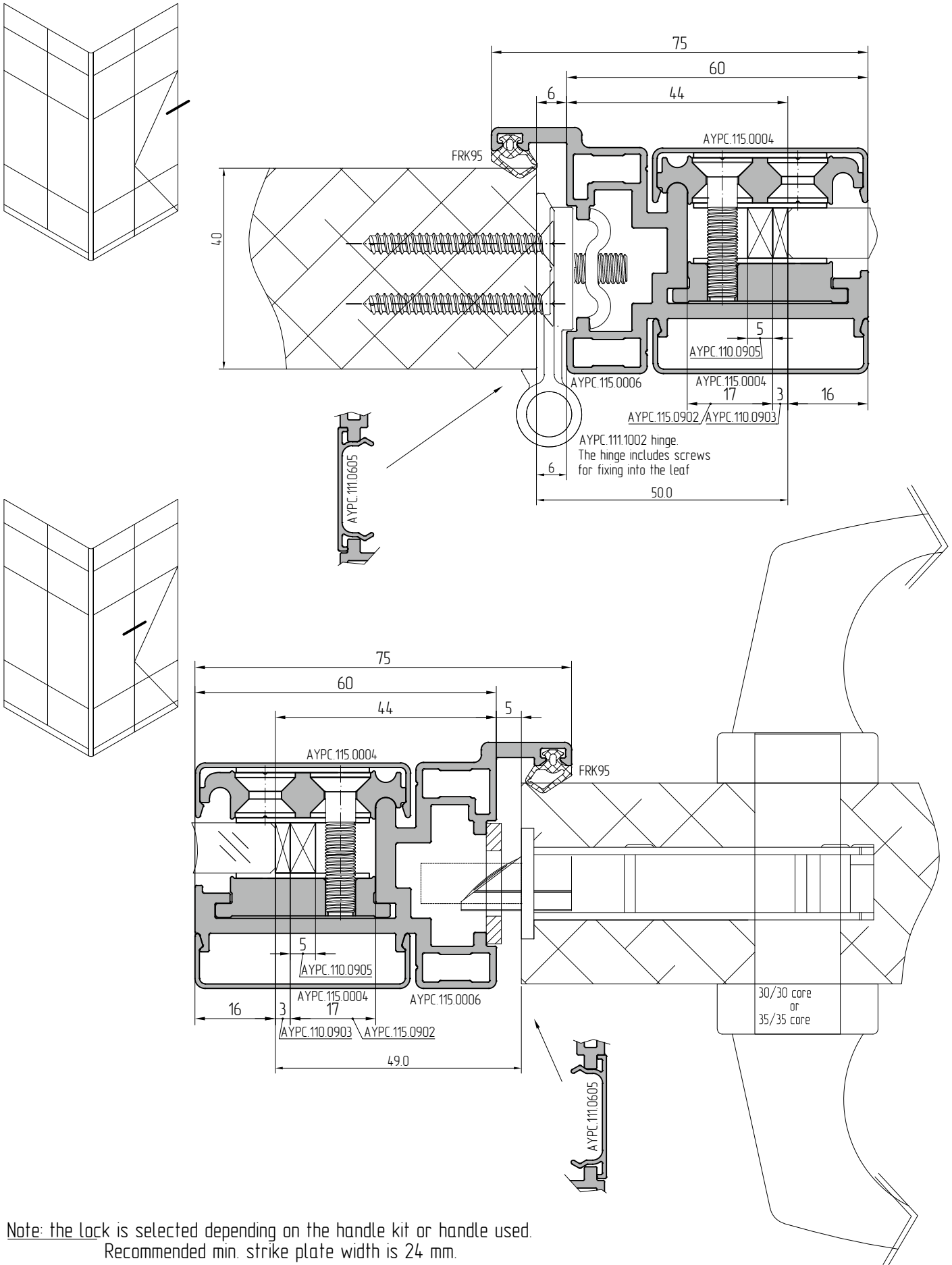


Leaf max. weight - 60 kg

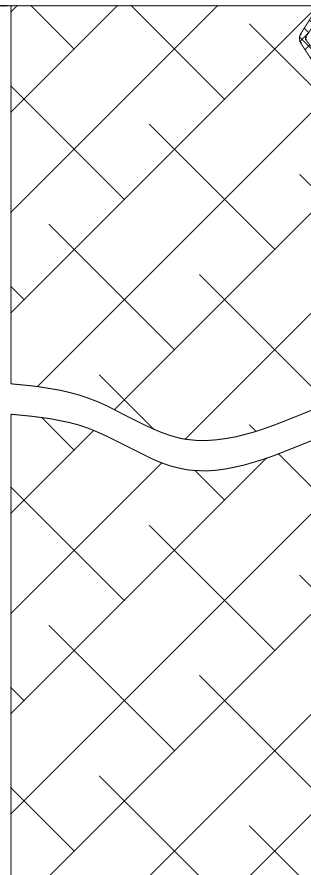
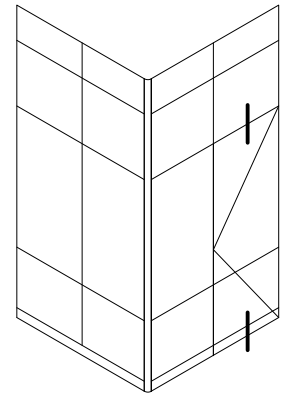
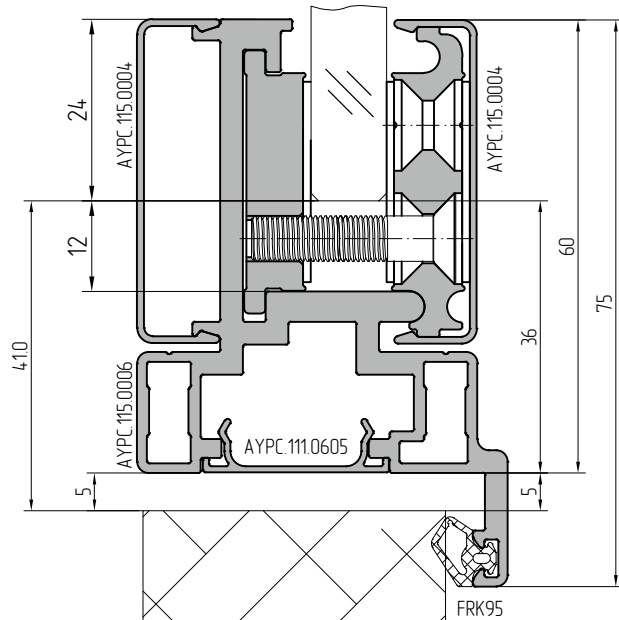
Three hinges



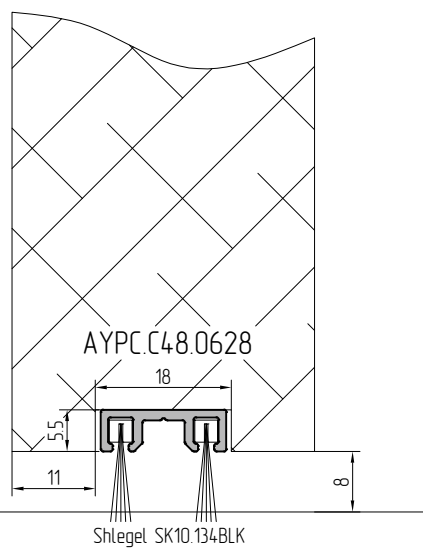
Leaf max. weight - 70 kg



Note: the lock is selected depending on the handle kit or handle used.  
Recommended min. strike plate width is 24 mm.

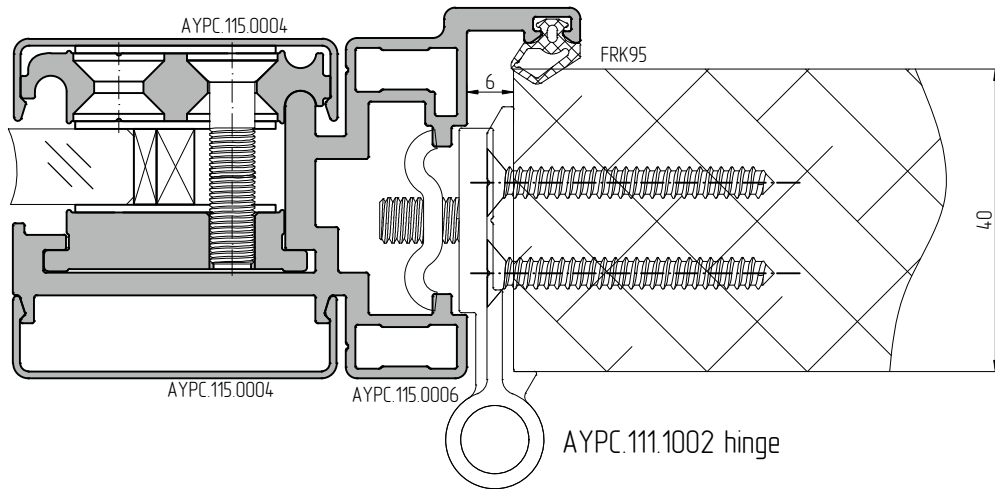


Possible option



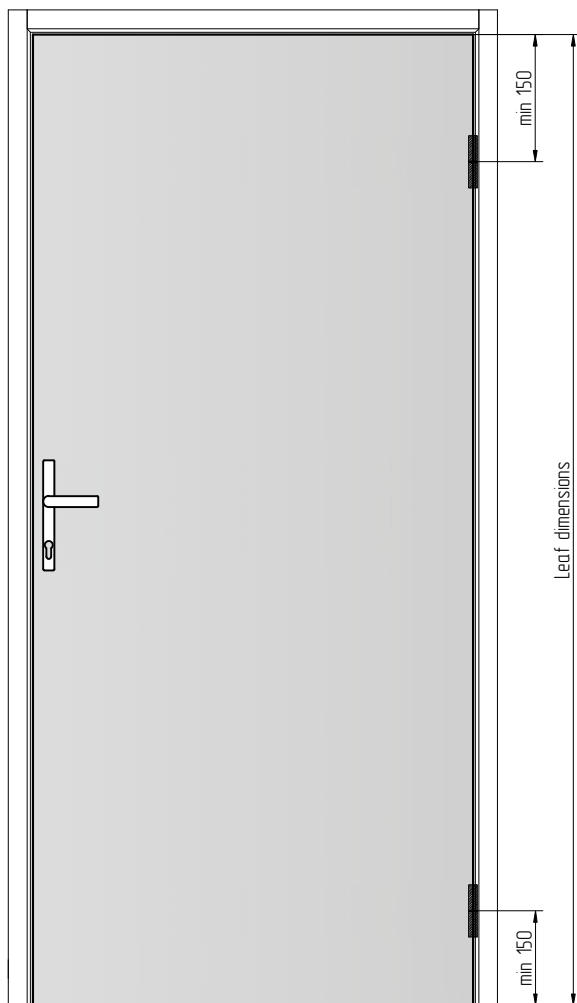
Finished floor level

Hinge installation scheme

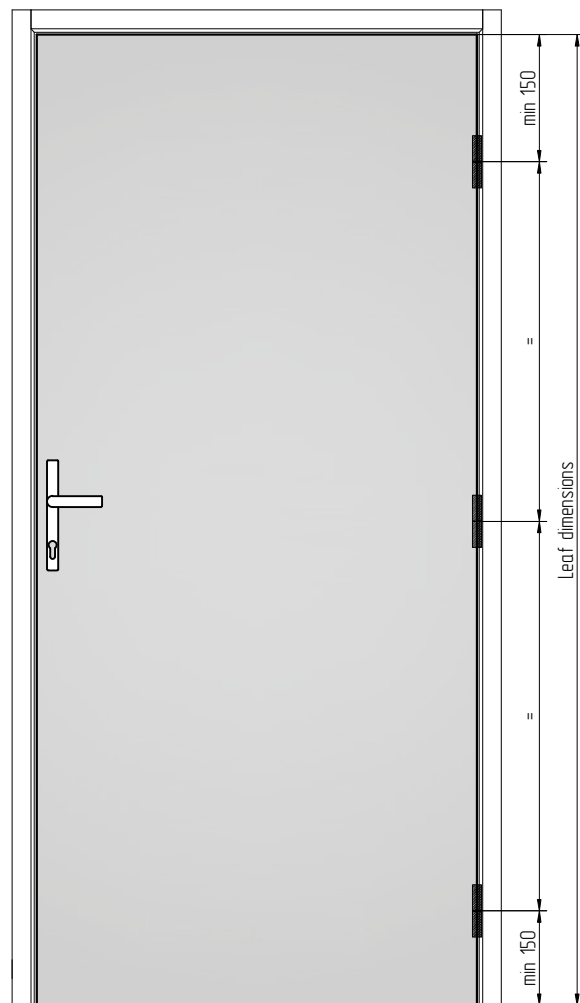


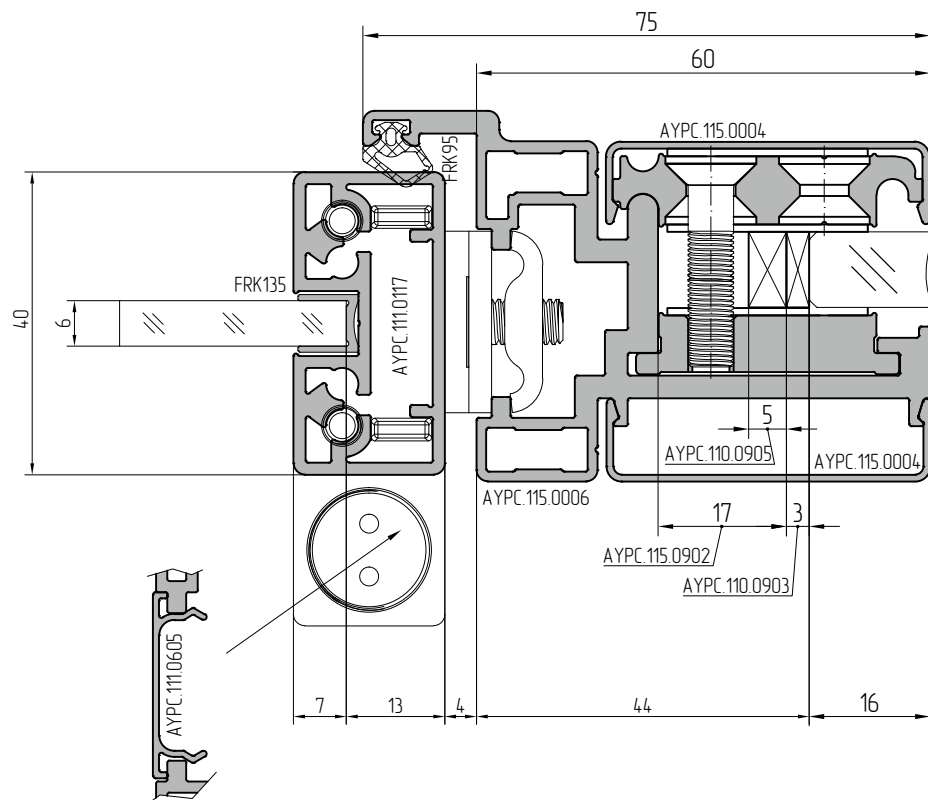
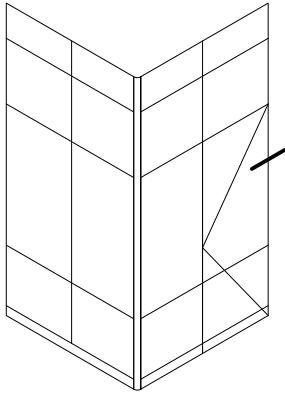
Recommended scheme for hinge installation

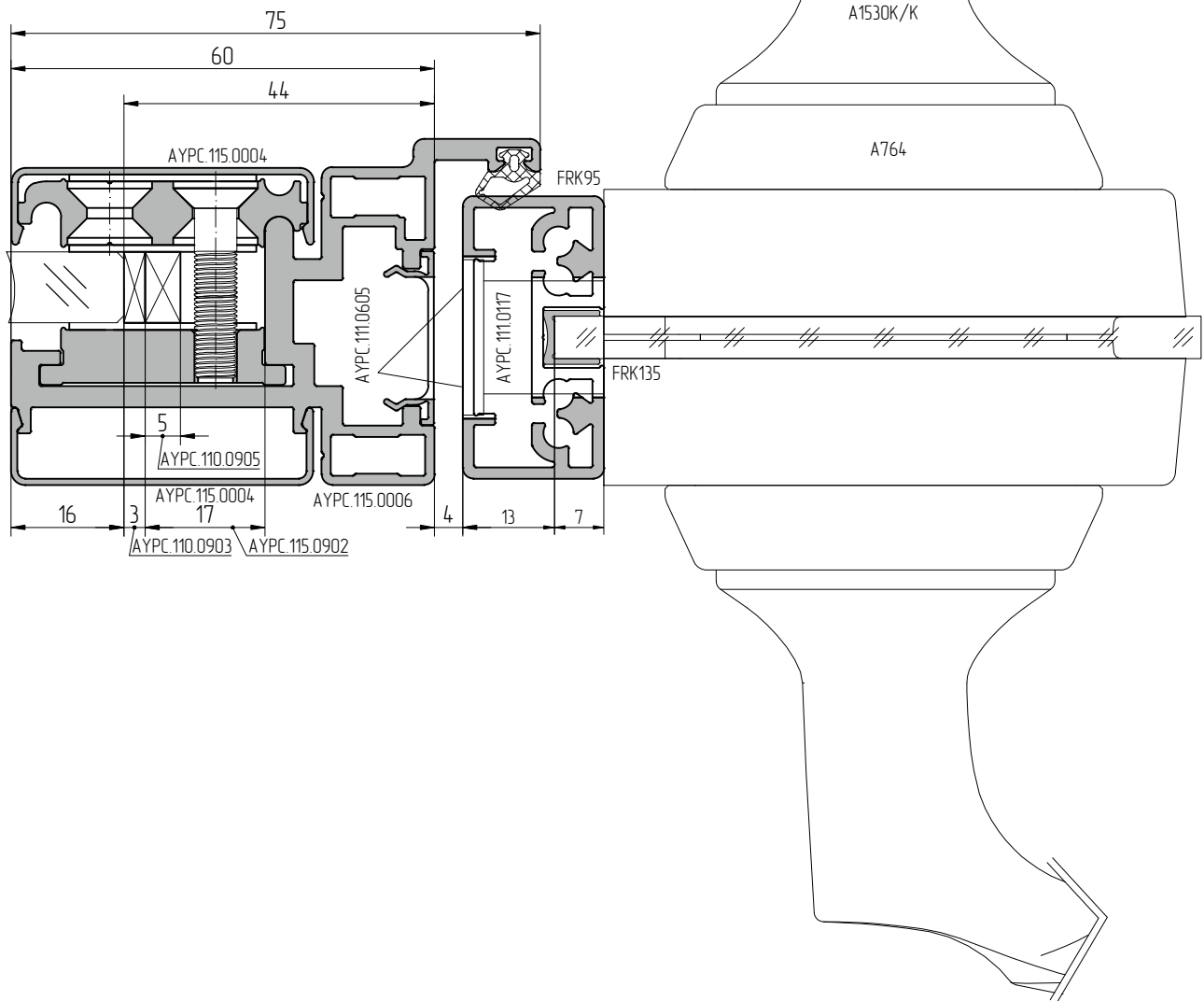
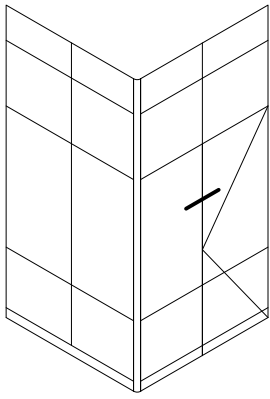
Two hinges



Three hinges







01

02

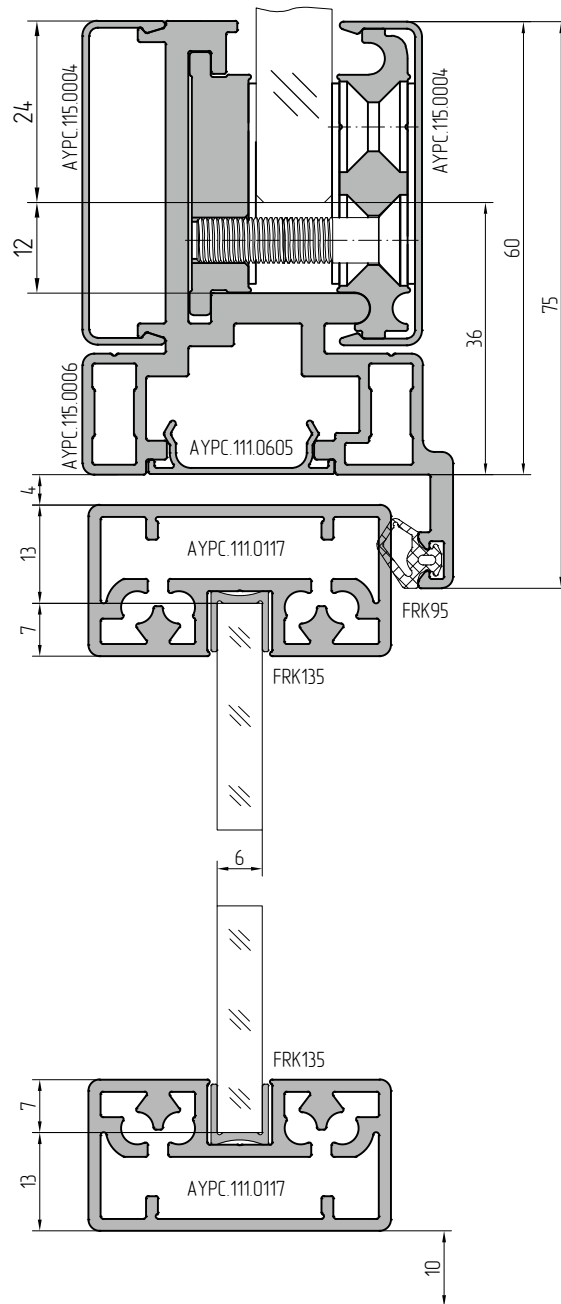
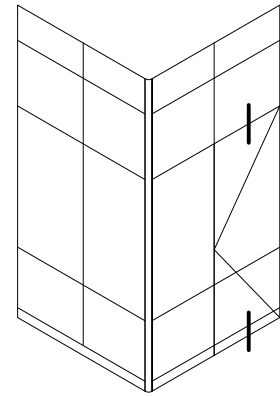
03

04

05

06

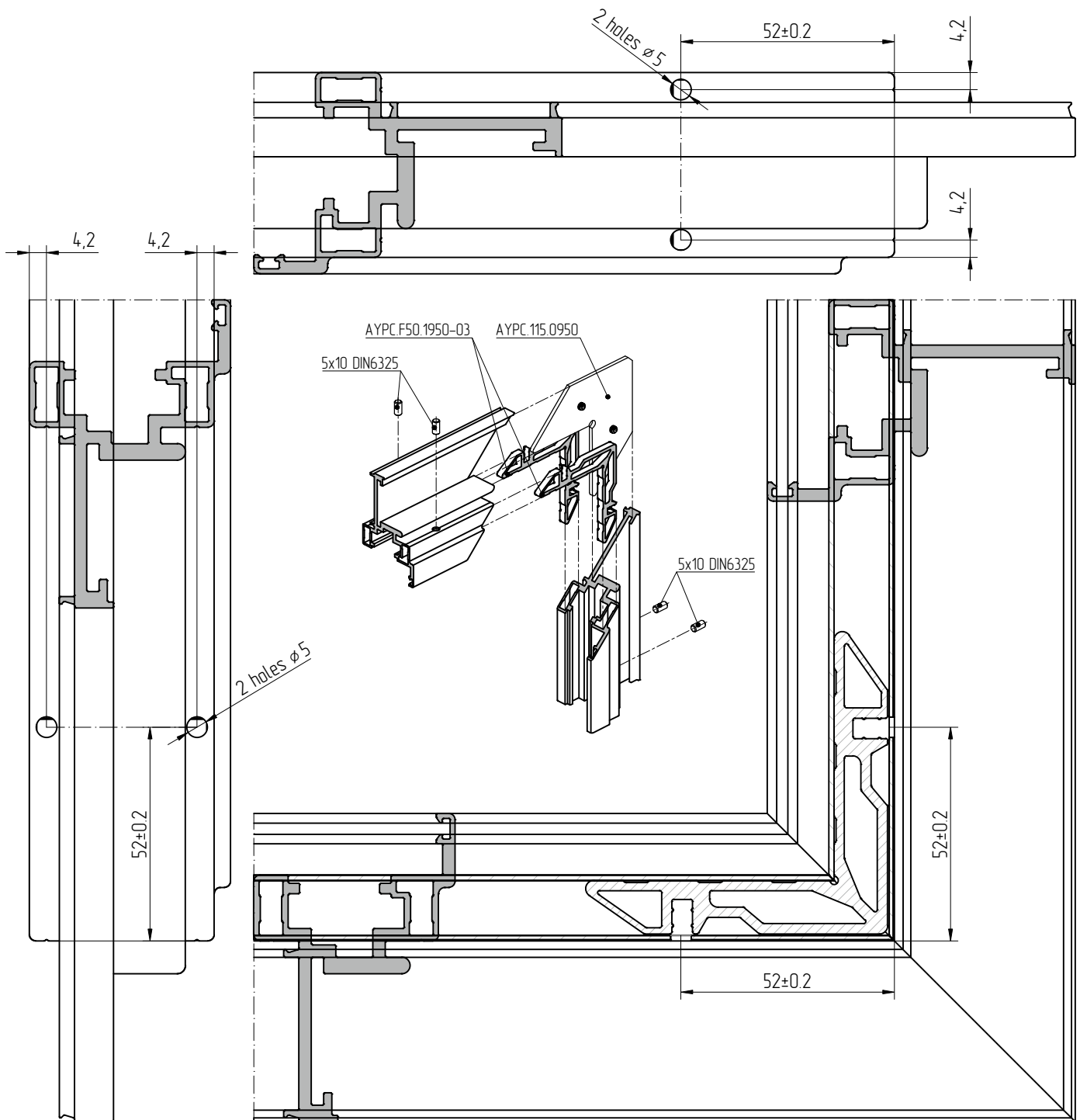
07



Finished floor level



Corner connection of AYPC.115.0006 frames with the use of pins



01

02

03

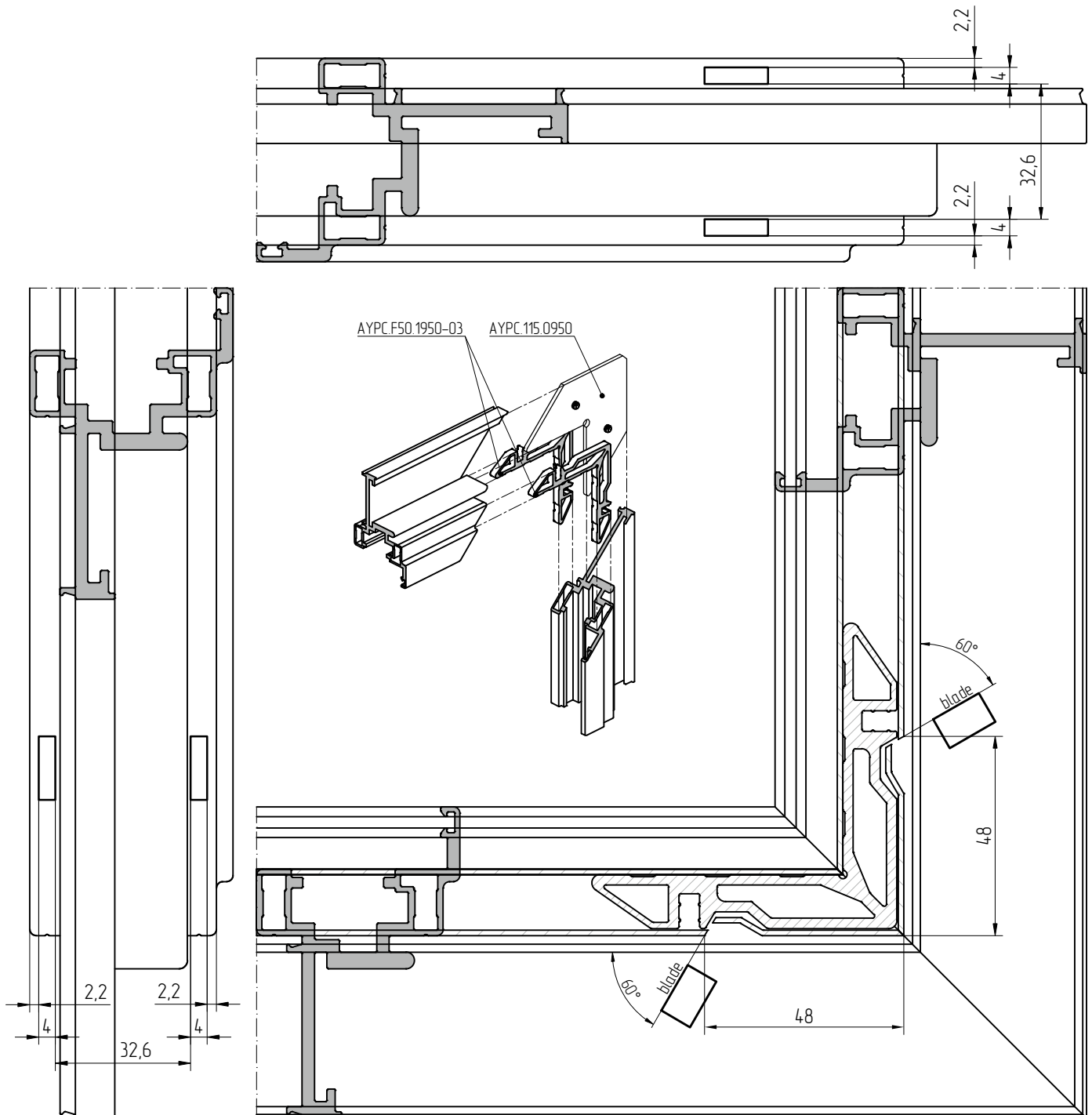
04

05

06

07

Corner connection of AYPC.115.0006 frames by crimping



Fill profile chambers with the glue before installing clamping corners. Apply the glue also on their surface.





**AluminTechno JLLC is a modern highly-effective aluminium extrusion manufacturing enterprise with powder coating and anodizing lines and is a part of ALUTECH Group of Companies.**

The enterprise is equipped with the production facilities of the leading manufacturers from the USA, Italy, Germany, etc. Some technological processes and production equipment elements have no analogues in the CIS countries.

The complete production cycle is being performed at the enterprise: from primary aluminium melting to coating of the extruded profiles. The main manufacturing components are modern foundry complexes, high-tech press lines, advanced powder coating and anodizing shops.

The overall production facilities are:

- foundry complex—more than 55 000 tons per year;
- extrusion complex—more than 50 000 tons per year;
- powder coating lines—more than 45 000 tons per year;
- anodizing workshops—more than 10 000 tons per year.

Currently AluminTechno JLLC produces over 1000 different configurations of aluminium profiles, which are used in construction and motor production, aviation, constructional engineering, electric-power industry, furniture and consumer goods industry.

The company's quality management system and Environmental Management System are certified to the requirements of the international standards (ISO 9001:2015 and ISO 14001:2015) and in TÜV INTERNATIONAL CERTIFICATION system. TÜV certificates are among the most prestigious quality documents recognized worldwide.



Finish quality of aluminium extrusion produced by AluminTechno JLLC is confirmed by three international certificates: Qualicoat/Seaside and Qualanod. AluminTechno is the only aluminium system manufacturer in the CIS countries holding all these certificates.



Anodized aluminum profiles used in architectural construction are also certified to Cradle to Cradle Certified® Silver. It is a registered trademark of the Cradle to Cradle Products Innovation Institute, which confirms the sustainability of the product life cycle.



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