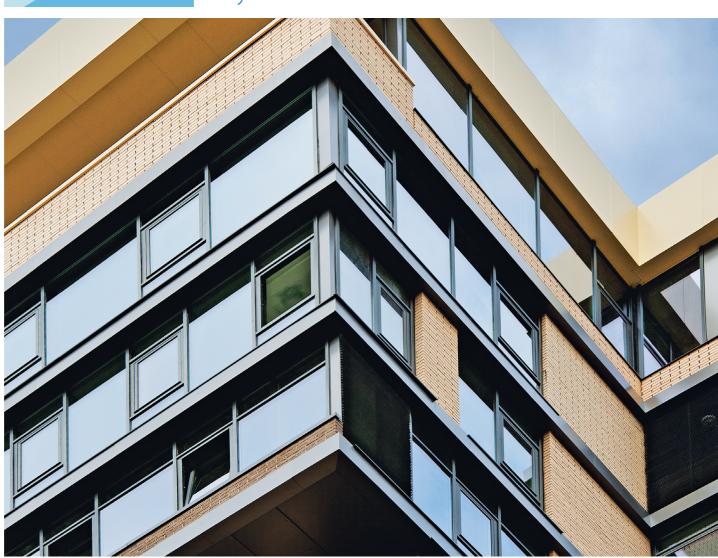


Installation instructions

for ALT W62 / ALT W72 window and door systems with thermal break



2021
www.alutech-group.com

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General

Correct installation of the structure is a necessary condition for ensuring high costumer properties of the product.

The manual contains the recommended procedure and description of typical process of ALT W72 / W62 windows and doors installation.

All existing standards and regulations applicable for windows and doors must be strictly observed.

The contents of the manual are not the basis for legal claims. ALUTECH reserves the right to make changes and additions to the window and door design and the manual.

1. Safety measures

- Read and fully understand the installation instructions before starting work.
- Do not work alone. Two or more people are required. Use safe ways to lift large and heavy structures.
- Be careful when handling glass. Broken or cracked glass can cause serious injury.
- Use protective equipment (e.g. safety goggles, gloves, ear protection, etc.).
- Use safe hand/power tools and follow the instructions for their use.
- Be careful when carrying out installation work at height. Follow the safety and health instructions.

Only qualified personnel, well trained and instructed on the safety measures should assemble and install windows. When performing the installation work, it is necessary strictly comply with the current technical regulatory acts (hereafter TRA) of the installation region which are concerning the safety of work.

Personnel protection equipment







2. Opening inspection

- Aperture surfaces must be in the same plane and be flat and smooth without unevenness of plaster and cracks.
- Space required for installation must be free of building structures, heating and ventilation pipes, etc.
- Openings for window and door units must meet the requirements of the current TRA of the installation region and/or project documentation.

3. Rules for installation and securing of window and door frames

- Perform input control of window and door structures (see below 'Controlled parameters of the finished product').
- Frame must be positioned symmetrically to the vertical axis of the opening.
- When installing window and door frames, the components must be aligned vertically and horizontally.
- Frame must be securely fastened and not pose a potential danger to life and health.

Limit deviation of finished product controlled parameters, mm

| me internal dimensions >1000 mm |
|--|
| me external dimensions >1000 mm |
| aightness deviation at length and width on 1 m of any frame part |
| tness deviation at length and width |
| on 1 m of any frame part |
| over the entire length |
| on the external surfaces of adjacent elements |
| agonal length difference |
| ≤1000 mm |
| 1000–2000 mm |
| >2000 mm |

Fixing elements selection depends on the material characteristics of the opening.

The screws must be made of corrosion-resistant steel with a minimum thickness of 9 microns and strength class 5.6 or higher.

All fasteners must be corrosion-resistant.

Building products and materials used for filling window and door openings must comply with the requirements of the applicable regulation of the construction region, have manufacturer's quality documents and, in accordance with current legislation, certificates of conformity. The replacement of products and materials must be carried out in accordance with the established procedure.

4. Window installation

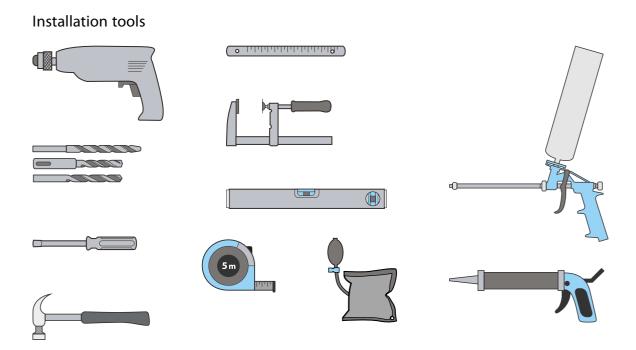
Before installing the window, make a visual inspection of the product for:

- correctness of the ordered product (dimensions, opening scheme, colour, hardware, glazing, etc.);
- integrity of the structural elements and the completeness;
- gaps at window corners, cracks, missing areas and/or other damage.

Before installing the structure into the opening, the rough (finishing) floor in the room must be completely ready.

Ensure proper waterproofing, vapor barrier and effective joint insulation according to the project documentation. If construction work is carried out in the room during installation, the structure must be protected from splashes of mortar, cement, gypsum, aggressive substances (acid and alkali), and painting materials.

General information



5. Adjustment, testing and checking the product

Remove the protective film from inside and outside of the unit within 2 months of installation. Clean the contaminated areas of the structure with water or non-aggressive cleaning solutions using a sponge or soft cloth.

Do not use abrasive cleaning products or products containing alcohol.

Check the function of the sash by opening and closing it three times. The hardware mechanisms should work without jamming.

For window and door with an electric motor, additionally check the operation of the automatics in all programmed modes.

6. Acceptance of the assembled product

Customer acceptance of the assembled product must be carried out in accordance with the current TRA of the installation region in the following order:

- representative of the organization that installed the product makes a full demonstration of the functional capability of the window and door;
- preparation of operational documentation.

Information icons



Attention



Can be replaced



Technical information



See page



Flatness



Silicone sealant



the opening



the surface



Measure





for 30 min





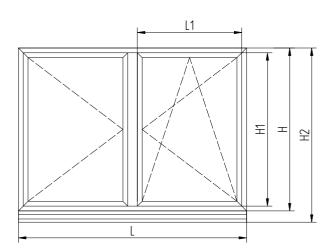


Countersink

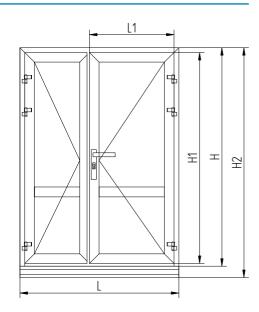


Screw in

Standard window and door drawing



- H frame height;
- H1 sash/leaf height;
- H2 structure height including supporting block;

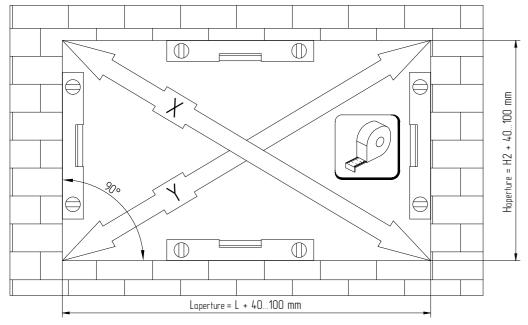


- L structure width;
- L1 sash/leaf width.

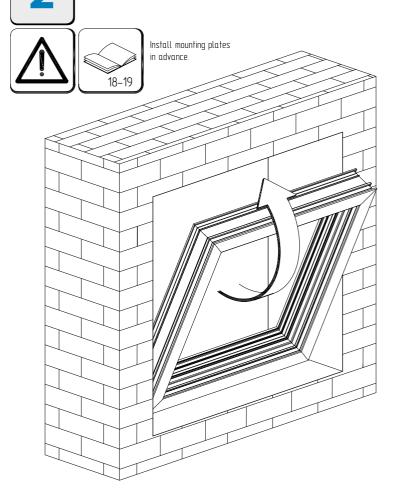
1

Check the dimensions of the opening for compliance with the project documentation and/or TRA of the installation region





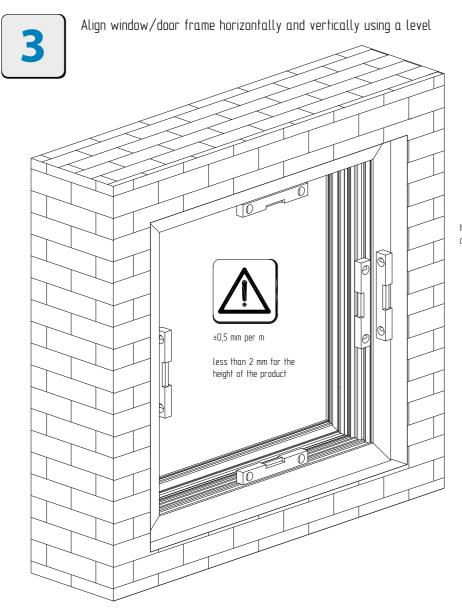
Prepare the aperture before frame installation according to the project documentation and/or TRA of the installation region



Prepare the frame for installation into the opening:

- repare the traile for listal
 remove the opening sash;
- remove the glass from fixed structures.
- It is recommended to mark the glass beads and glass when removing the elements from fixed structures.





It is possible to use mounting pads for easy adjustment of the window/door in the opening.

Install windows and doors into the opening on bearing supports.

Use the spacer and level to ensure that the window is horizontal and vertical.

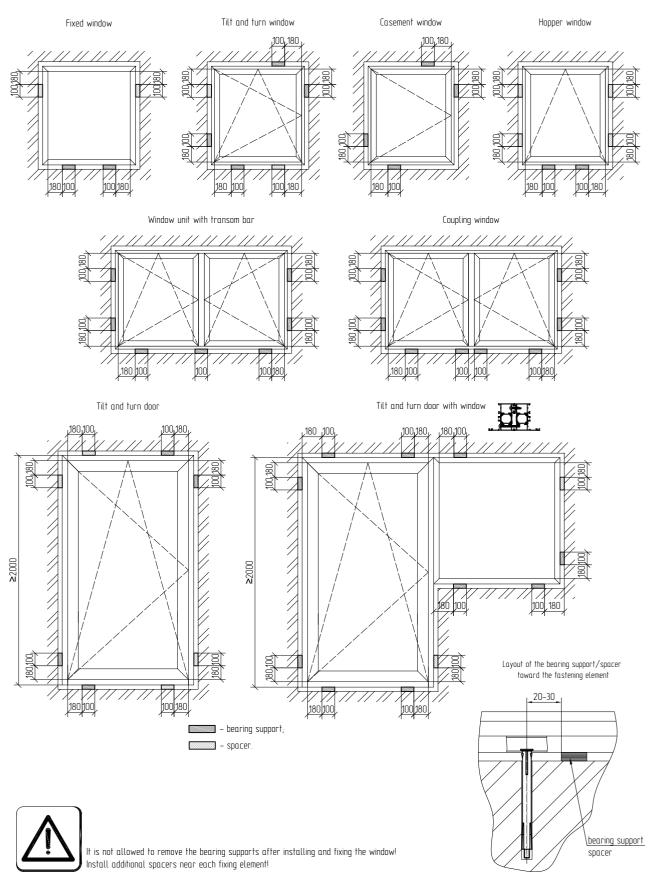
Bearing supports and spacers must be installed in such a way that they do not cause deformation of the windows and doors.

Installation of the bearing supports and spacers on the fasteners is not allowed.

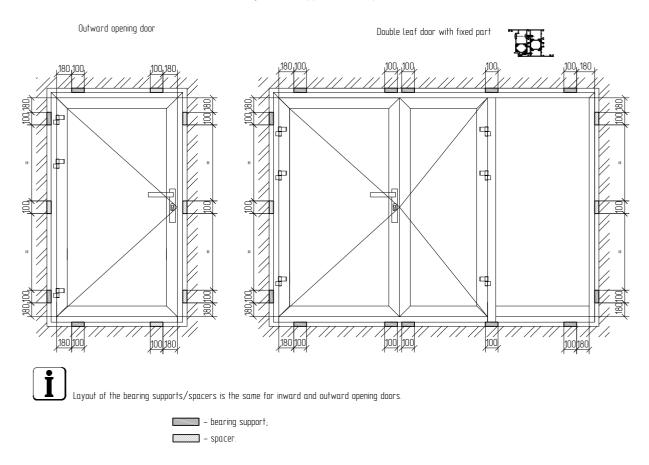
Material: antiseptic wood, plastic, paronite.



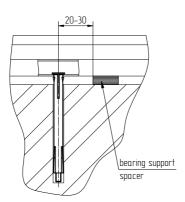
Layout of supports and spacers



Layout of supports and spacers

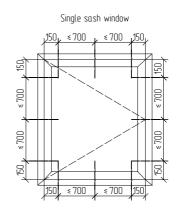


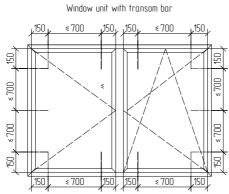
Layout of the fixing element toward the bearing support/spacer

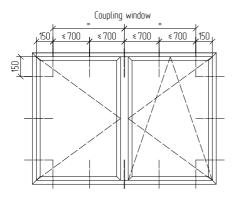


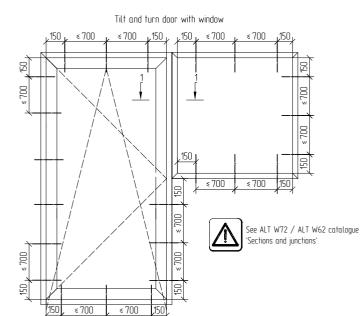


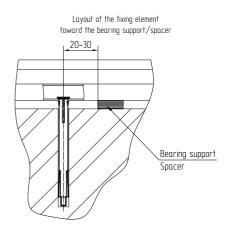
Layout of fasteners







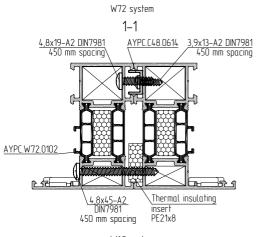


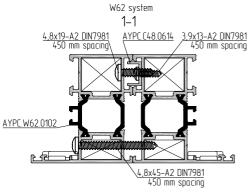




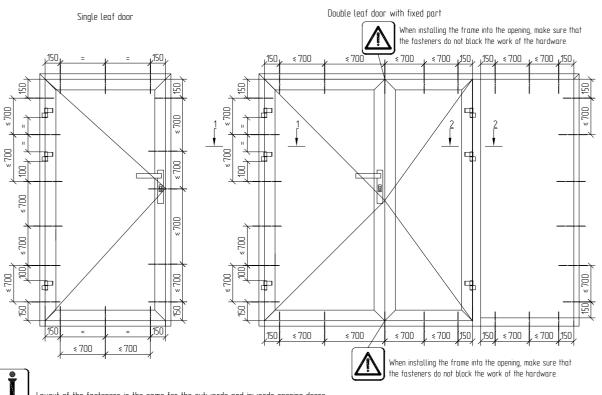
Type of fixing elements and its installation depth depends on the wall material.

Select in accordance with TRA of the installation region and the project documentation!



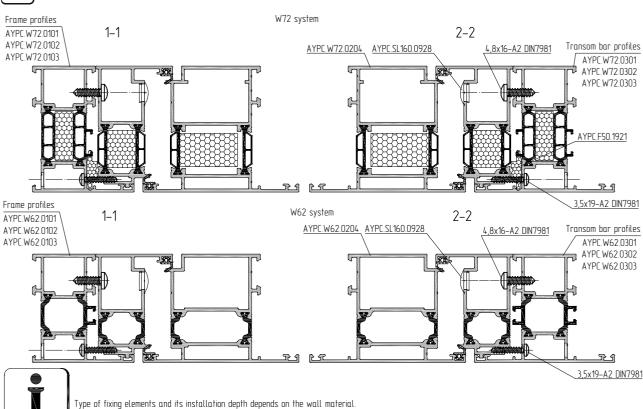


Layout of attachment points

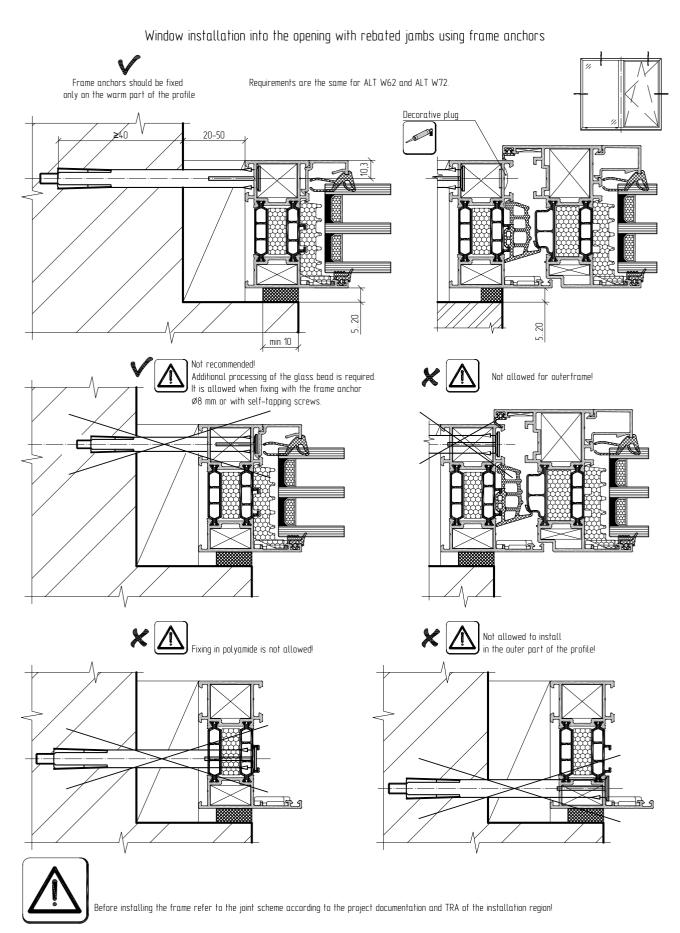


Layout of the fasteners is the same for the outwards and inwards opening doors.

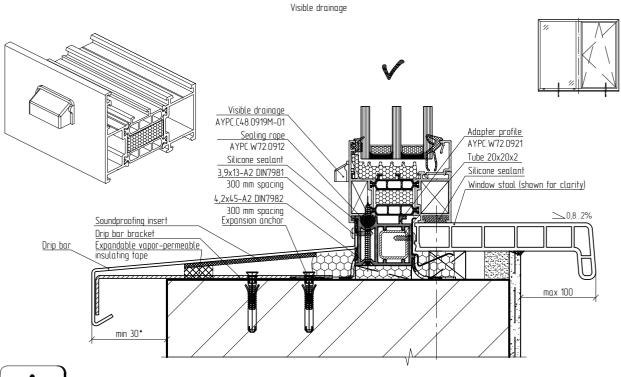
See ALT W72 / ALT W62 catalogue, section 'Profiles machining and assemblage'



Select in accordance with TRA of the installation region and the project documentation!



Window installation into the opening with rebated jambs using frame anchors

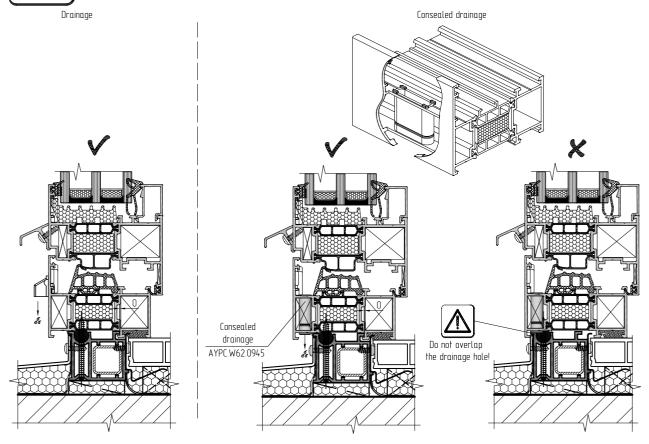




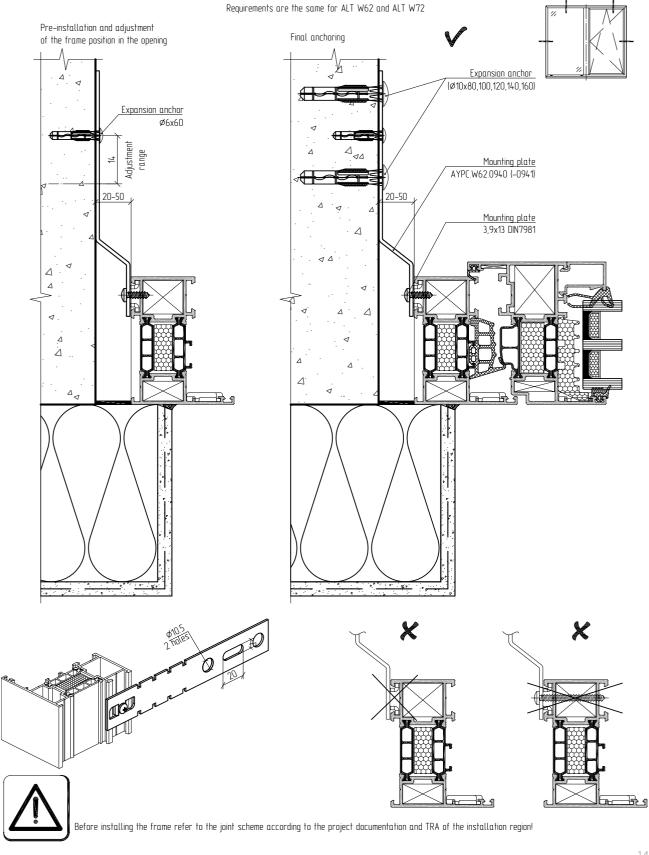
If the drip bar width is more than 150 mm and the window opening width is more than 900 mm, the drip bar is additionally attached to metal brackets, and the brackets are attached to the bottom of the window opening with expending dowels.

Overlap of the drip bar on the façade depends on the region of construction.

A cement-sand screed or foam seal is applied on the surface of the opening under the drip bar.



Window installation into the opening without rebated jambs using mounting plates

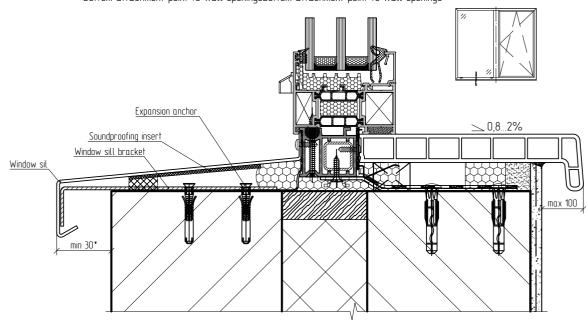


Window installation into the opening without rebated jambs using mounting plates

Drainage

Bottom attachment point to wall openings without rebated jambs <u>Drainage</u> AYPC.C48.0919M-01 Adapter profile Sealing rope AYPC.W72.0921 AYPC.W72.0912 Tube 20x20x2 Silicone sealant Silicone sealant 3,9x13-A2 DIN7981 Window stool (shown for clarity) 300 mm spacing 4,2x45-A2 DIN7982 Expansion anchor 300 mm spacing Waterproof vapor-permeable tape 0,8...2% (vapor-permeable sealant) Window sill Assembly adhesive max 100 Thermal insulation system min 30*

Bottom attachment point to wall openingsBottom attachment point to wall openings



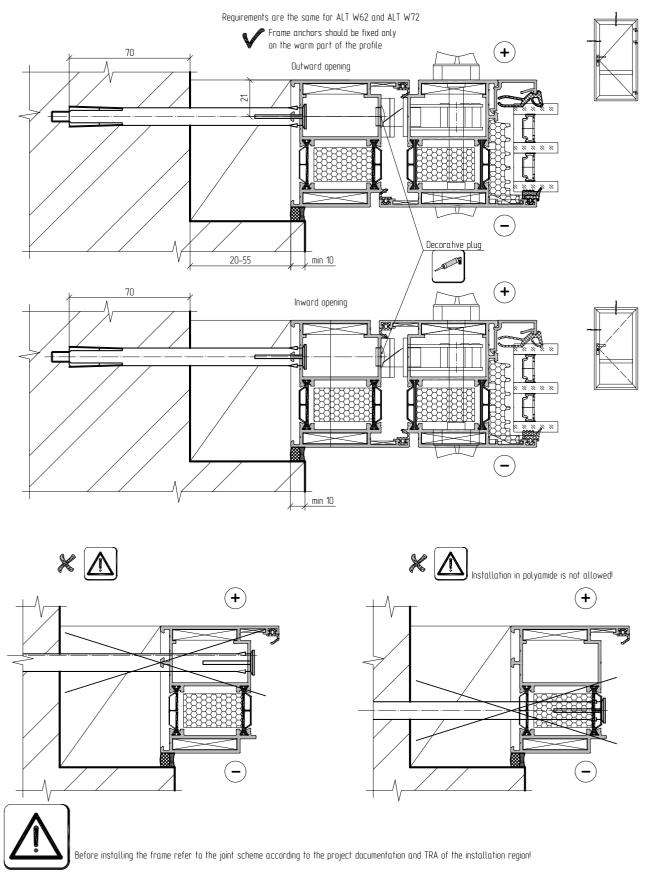


If the window sill width is more than 150 mm and the window opening width is more than 900 mm, the window sill is additionally attached to metal brackets, and the brackets are attached to the bottom of the window opening with expending dowels.

Overlap of window sill on the façade depends on the region of construction.

A cement-sand screed or foam seal is applied on the surface of the opening under the window sill.

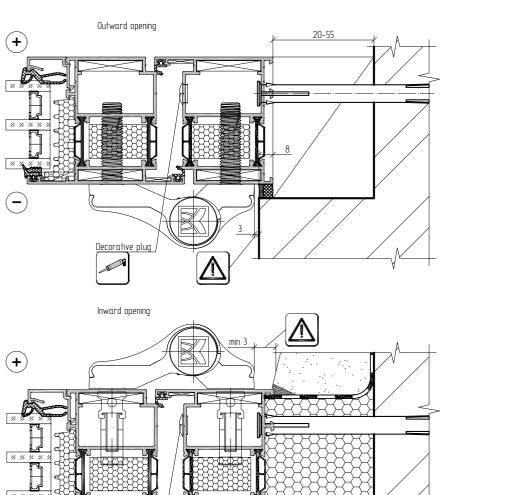
Door installation into the opening with rebated jambs using frame anchors

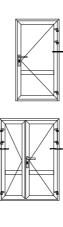


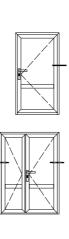
Decorative plug

Door installation into the opening with rebated jambs using frame anchors

Requirements are the same for ALT W62 and ALT W72

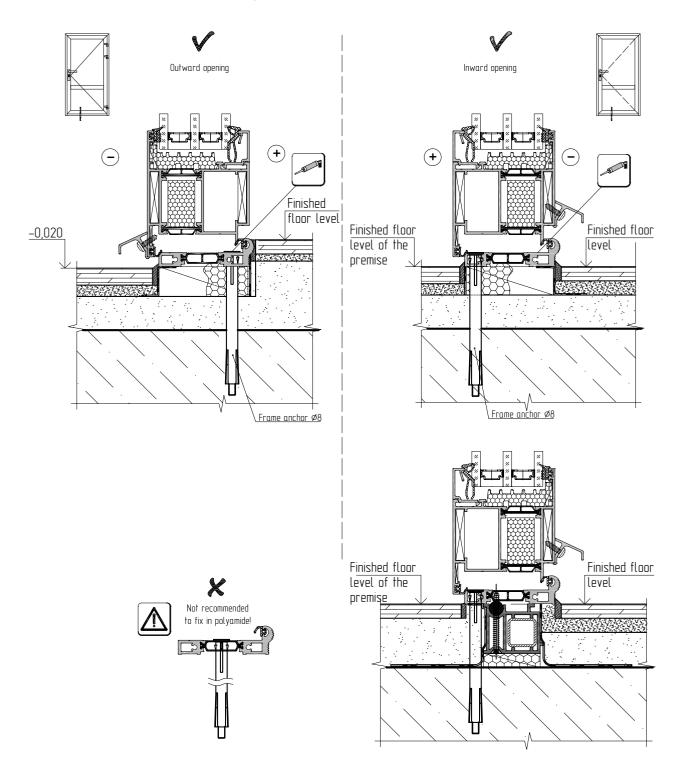






Door installation into the opening with rebated jambs using frame anchors

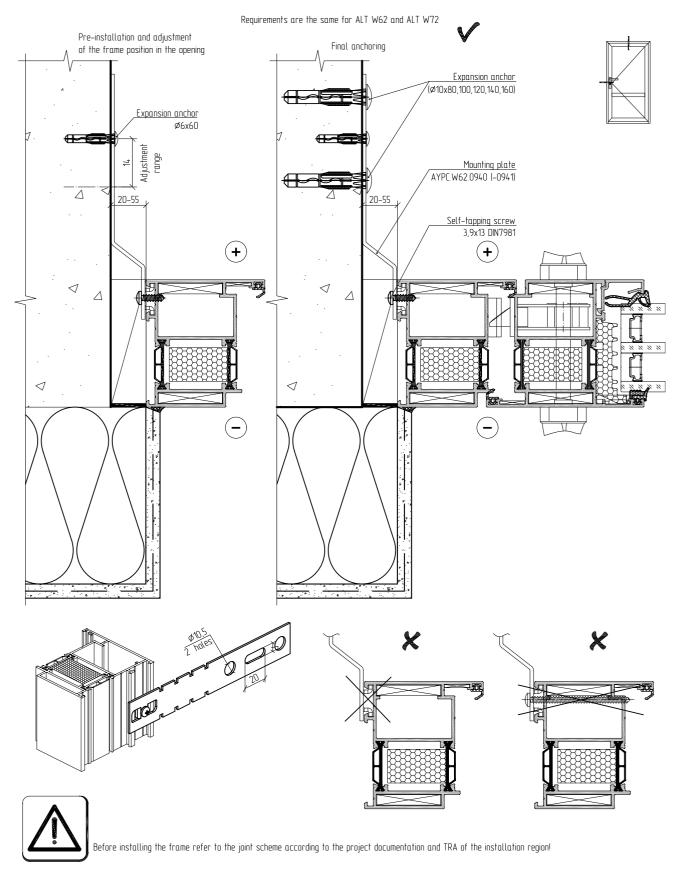
Requirements are the same for ALT W62 and ALT W72



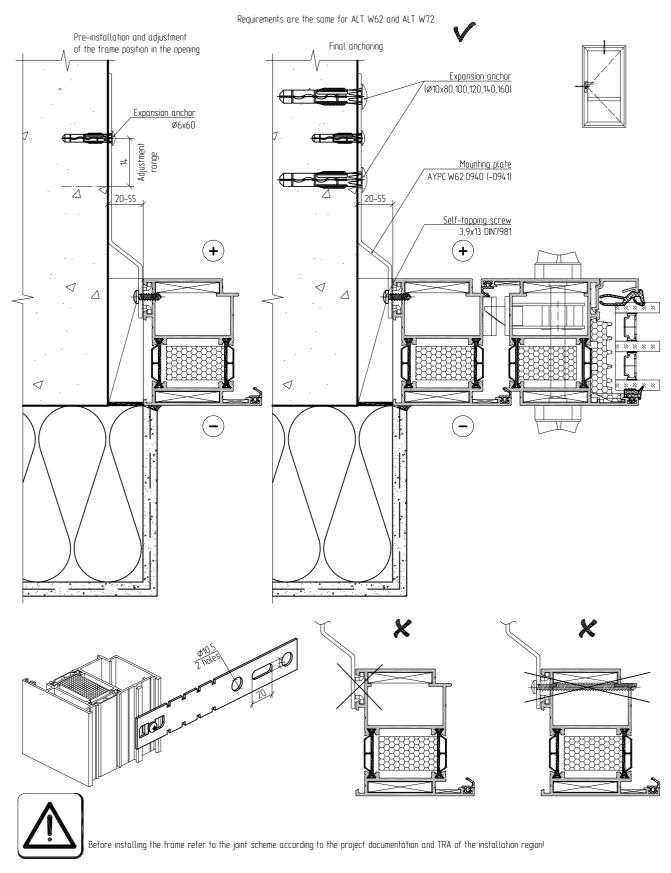


Before installing the frame refer to the joint scheme according to the project documentation and TRA of the installation region!

Door installation into the opening with rebated jambs using mounting plates

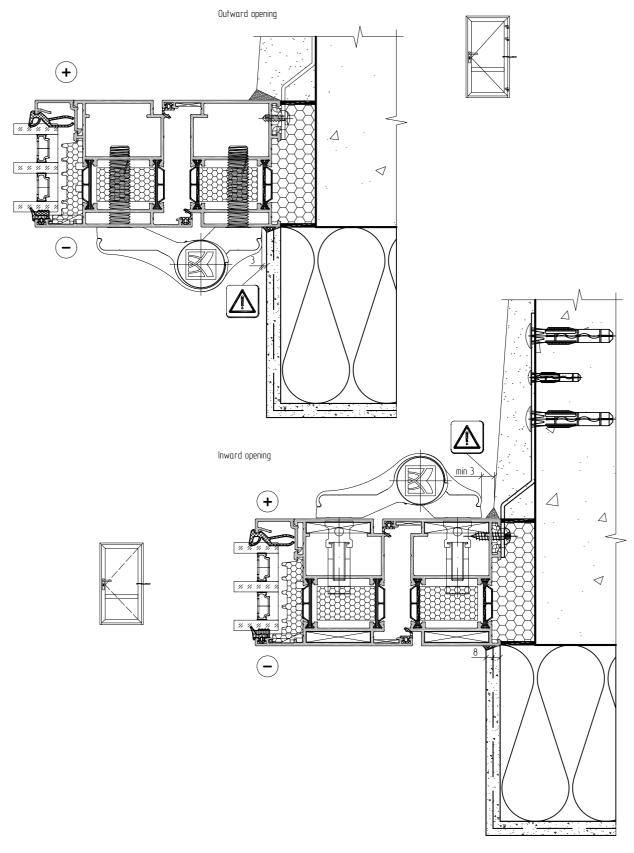


Door installation into the opening with rebated jambs using mounting plates

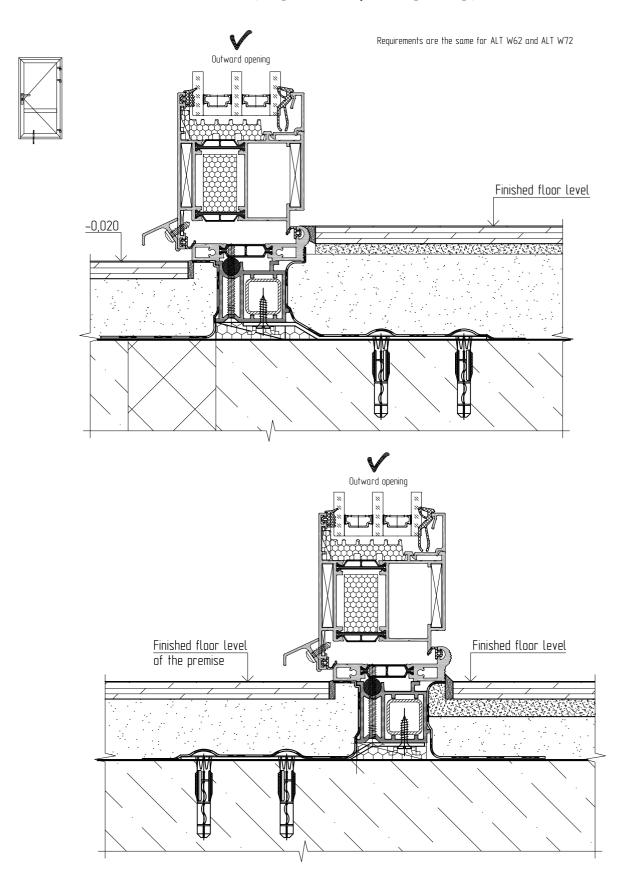


Door installation into the opening with rebated jambs using mounting plates

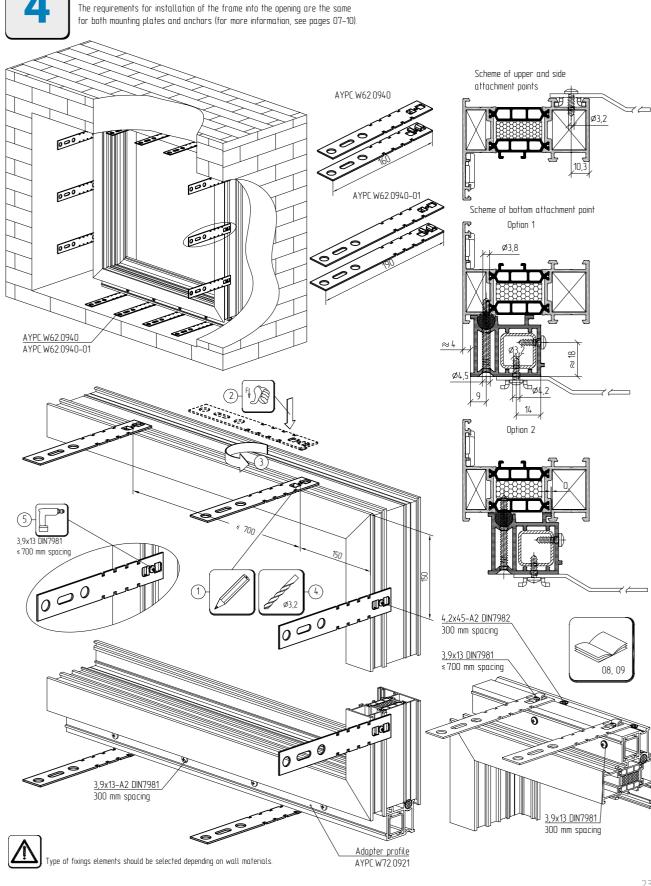
Requirements are the same for ALT W62 and ALT W72

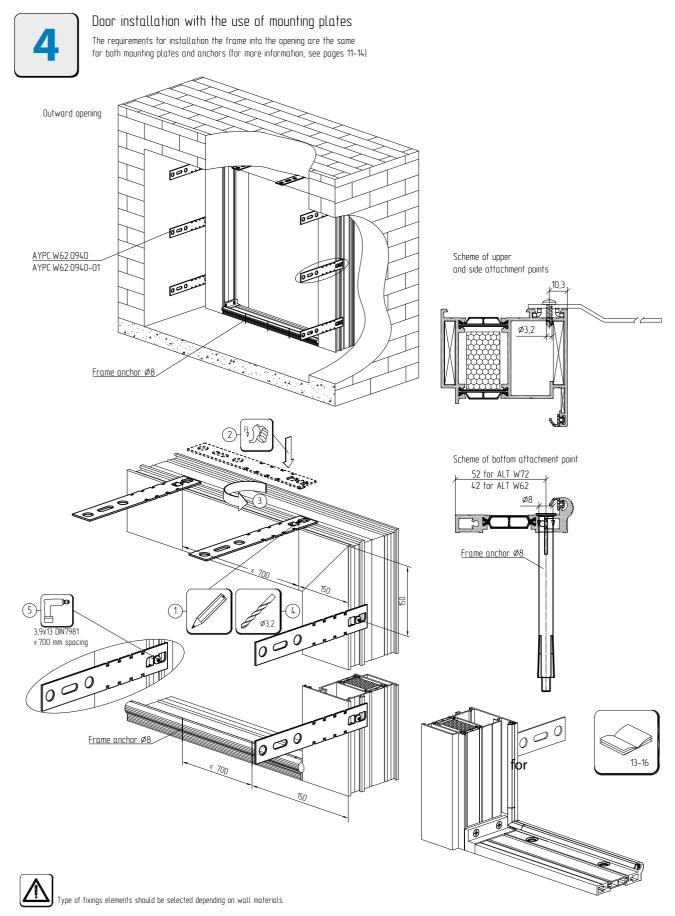


Door installation into the opening with rebated jambs using mounting plates



Window installation with the use of mounting plates

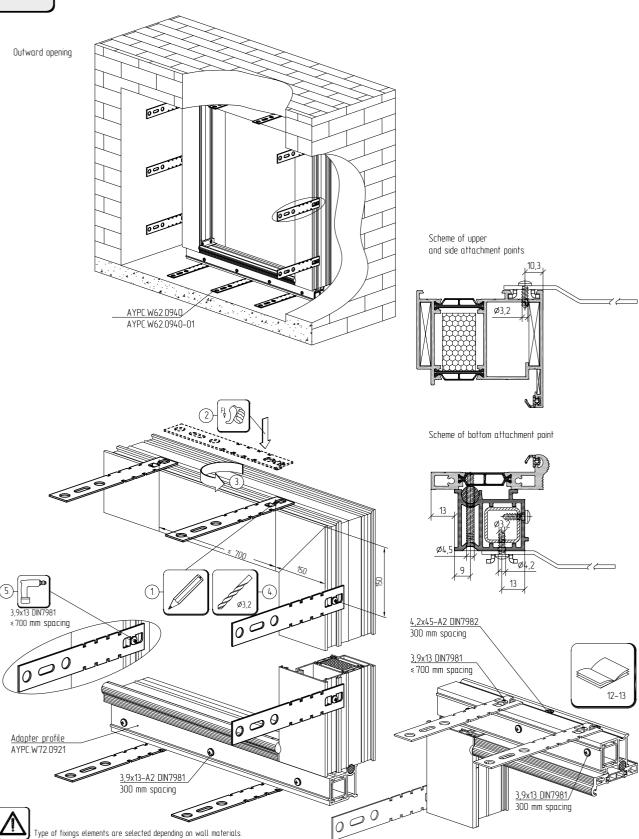






Door installation with the use of mounting plates

The requirements for installation the frame into the opening are the same for both mounting plates and anchors (for more information, see pages. 11–14).





Gasket checking

Check all gaskets for damage, sticking, or breakage:

Central gasket

- perimeter of the gaskets;
- gasket joints locations.





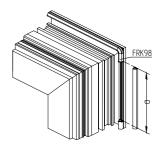






or windows.

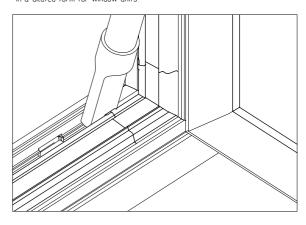
Ensure that a part of FRK98 gasket has been locally removed. The dimension a of this part of FRK98 gasket depends on the opening type and used hinges. Please refer to ALT W72 / ALT W62 technical manual.





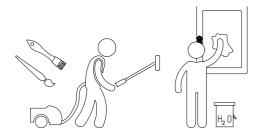
Product cleaning

- 1. Check the window elements for debris or dirt: building materials, dust, etc.
- Clean the cunettes, drainage holes, grooves and hardware elements with a vacuum cleaner or a soft cloth and a detergent with a neutral pH in a diluted form for window units.



To preserve the surface of the hardware elements over time and to prevent wear due to corrosion, follow these recommendations:

- Do not use aggressive cleaning agents, solvents, or detergents, such as synthetic solvents, acetone, or nitrous solvents. It is necessary to use neutral soap and water.
- Do not use hard abrasive materials such as scrapers, metal brushes, rough sponges, etc., use plastic or wooden scrapers, soft rags, brushes or a vacuum cleaner.

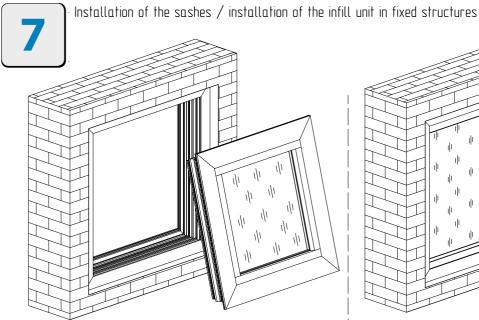


Weiss Cleaning&Care kit is recommended.



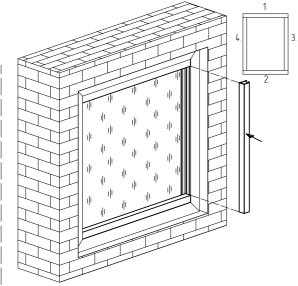






Hang the sashes and door leaves on the hinges of the window or door frames and test opening them. The window sashes and door leaves must open and close freely without any unusual sounds or creaks. If opening and/or closing is defective, never use excessive force to avoid accidental damage to the hardware elements and structure of the product. If necessary, correct the position of the window sashes or door leafs in the frame by adjusting the hinge.

Refer to the hardware manufacturer's catalogue for information about hinge adjustment. Check all safety-relevant components of the window/door (hinges, opening stoppers, etc.). Deformation or damage as well as under-tightening or missing fasteners are not allowed.



The glass must be carried vertically, avoiding impact, resting on corners and rigid surfaces.

Use manual vacuum grippers for glazing.

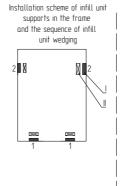
Put the glass unit in the correct position according to the marking and formula.

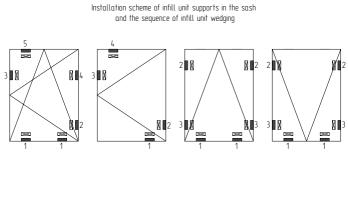
When positioning the supports and seam sealing, ensure that they do not overlap the drainage and ventilation holes.

Install the glass beads in accordance with the marking. See step 2 in the installation manual 'Infill unit removal'.



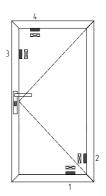
See W72/W62 catalogue, section 'Profiles machining and assemblage. Infill unit installation'





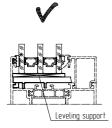
Installation scheme of infill unit supports in the leaf and the sequence of infill unit wedging

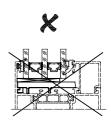
Glass bead installation



- leveling support;
 - bearing support.

When selecting the width of leveling support look at the following recommendations







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