



**Set of instructions: door unit installation,
installation of a transom and adjustment of hinges**

Door unit installation instructions

1. Preparing for installation

Carefully remove the packaging, foam plastic, cardboard.
After unpacking check the door leaf and its completeness (figure 1).

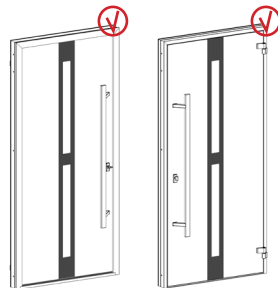
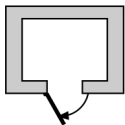


Figure 1.
Unpacking check.

2. Dismantling the Old Door and Preparing the Doorway

2.1. Before installing the door block, it is necessary to make sure that the size, side and direction of opening of the new door correspond to the opening (figure 2).

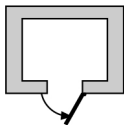
Outer left



Inner left



Outer right



Inner right



Figure 2.
The scheme of checking the direction
and the side of the opening.

2.2. Using a tape measure, determine the size of the doorway in several places by width and height. The recommended size of the doorway around the entire perimeter should be up to 30 mm larger than the installation size of the door frame on each side (figure 3).

ATTENTION! DO NOT dismantle the old door until you make sure that the new door is in good order and fits the size of the doorway!

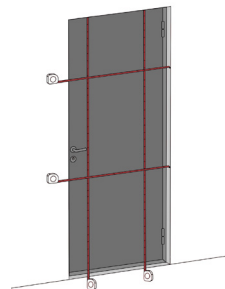


Figure 3.
Measuring the doorway.

2.3. Dismantle the old door (figure 4).

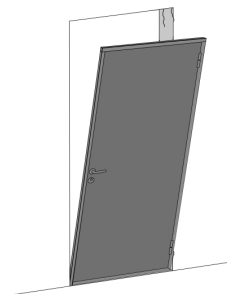
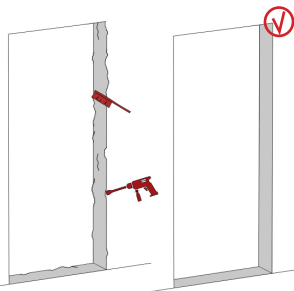


Figure 4.
Dismantling the old door.

2.4. Prepare the doorway; if necessary, level it with a perforator and hammer, and clean the installation area from debris. Remove protruding irregularities from the doorway surface. Defective places must be puttied with waterproof compounds. Streaks and damages of more than 10 mm height/depth are not allowed on the doorway surface. Doorway surfaces with oil contamination should be degreased. Treat loose places with mastic.

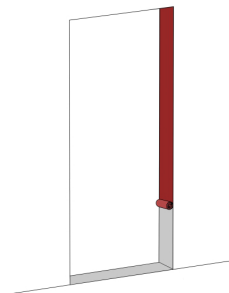
2.5. Clean all surfaces of the doorway from dust, dirt, and oil stains, and – in winter conditions – from snow, ice, hoarfrost, followed by heating the surface (figure 5).

Figure 5.
Cleaning the doorway.



2.6. We recommend waterproofing the doorway around the entire perimeter using a waterproofing tape (figure 6).

Figure 6.
Waterproofing the doorway.



3. Installation of the Door Unit

3.1. Remove the door leaf from the frame (figure 7).

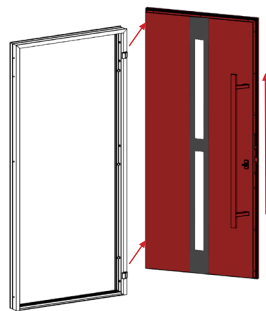


Figure 7.
Removing the door leaf.

3.2. The casing (or trim) is fastened around the perimeter of the door frame (note: if there are sidelights in the entry unit, then they should be attached to the door frame) before installation into the opening (figure 8). To ensure a smooth installation, the top casing is aligned with the side casings, which are attached to the door frame (entry unit) box. Then, the casings are secured around the perimeter with screws into pre-drilled holes.

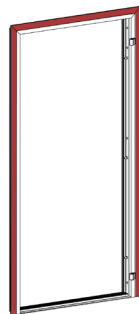


Figure 8.
Fastening the casing.

3.3. Install the frame in the doorway on backing materials (wedges, bars) (figure 9), ensuring approximately the same distance between the door frame and the doorway on both sides.

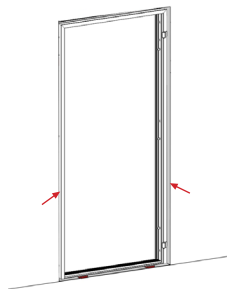


Figure 9.
Installing the frame.

3.4. Fasten the door frame with wedges in the doorway to fix the clearances with wooden wedges. Wedges are preferably installed between the door frame and the doorway wall from above and below (figure 10), so as not to deform the middle part of the door frame.

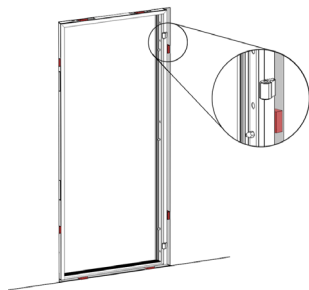
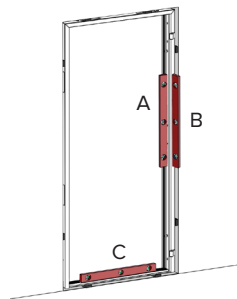


Figure 10.
Fastening the frame.

3.5. Align the door frame with the help of a builder's level from hinge side. To check the vertical, the builder's level shall be applied to the inner, wide shelf of the frame (A); to check the inclination, the builder's level shall be applied to the front trim of the frame (B); to check the horizontal, the builder's level shall be applied to the threshold (C) (figure 11).

ATTENTION! If it is impossible to install the door block on the anchor bolts through the frame the installation can be carried out through the remote installation brackets, which must be installed on the door frame using screws.

Figure 11.
Aligning the frame.



3.6. Drill a $\varnothing 10$ mm 120-130 mm deep hole through the upper mounting hole on the hinge side of the frame (A) (figure 12).

Figure 12.
Drilling a hole.



3.7. Remove chips and sand from the hole, it is recommended to lubricate the surface of the anchor with a cement-sand or adhesive mortar before installation. Install the frame anchor using a hammer and an impact screwdriver (A); do not tighten the anchor (figure 13).

3.8. Check with the builder's level the vertical of the hinge part and the horizontal of the threshold part of the frame.



Figure 13.
Installing an anchor.

3.9. Screw in the frame anchor to the end (A).

3.10. Install the lower frame anchor on the hinge (B) side by repeating steps 3.5-3.8 (figure 14).

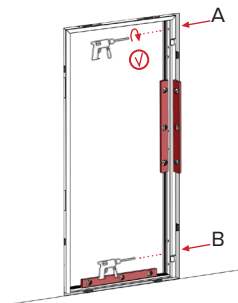


Figure 14.
Screwing an anchor.

3.11. Install the door leaf (figure 15).

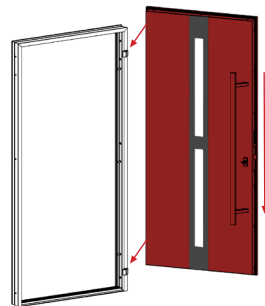


Figure 15.
Installing the door leaf.

3.12. Align the locking part of the frame along the contact. Check the uniformity of the clearance between the top of the leaf and the top profile of the frame (A). In case of an uneven clearance, adjust it by placing wooden linings under the threshold of the frame from the side of the smaller clearance (B) (figure 16).

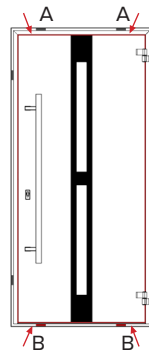


Figure 16.
Checking the uniformity of the clearance.

3.13. Drill holes in the wall through the remaining holes (on the left/right) (figure 17).

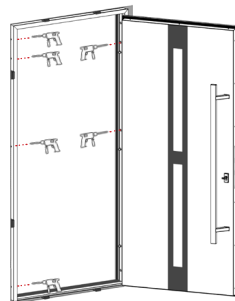


Figure 17.
Installing an anchor.

3.14. Fasten the anchors, but not completely (figure 18).

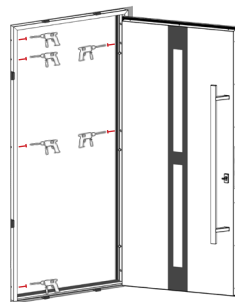
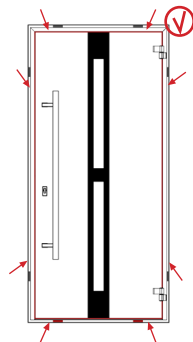


Figure 18.
Fastening the anchor.

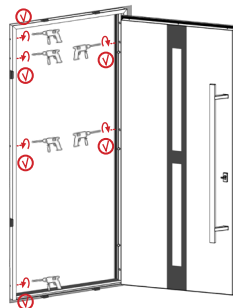
3.15. Close the door, check the vertical and the horizontal, and whether the door leaf is level relative to the frame (figure 19).

Figure 19.
Checking the position.



3.16. Tighten all anchors (figure 20).

Figure 20.
Tightening anchors.



3.17. Adjustment of adjoining of the leaf contact (figure 21):

- if a contact regulator is installed in the door, see Annex 1 «Leaf Contact Adjustment»;
- if the door is equipped with Fuhr electromechanical latch, see Annex 2 «Adjustment and Operation of the Fuhr Latch».

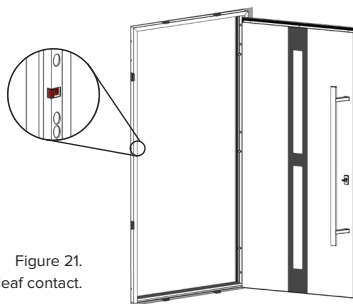


Figure 21.
Adjustment of adjoining of the leaf contact.

3.18. After the final installation acceptance of the door unit, mounting holes shall be closed with the included plugs (figure 22).

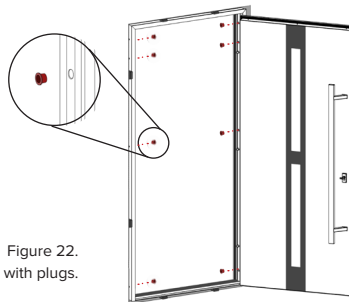


Figure 22.
Mounting the holes with plugs.

3.19. Blow off the filing places from dust and brick chips. Moisten the wall surface with a spray gun and fill the mounting clearance with mounting foam (figure 23).

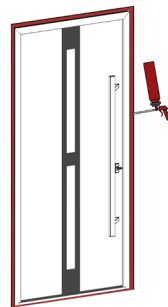
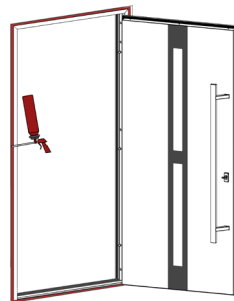


Figure 23.
Filling the mounting clearance.

4. Installing fittings (figure 24)

4.1. Installation and operation of the cylinder, see Annex 3 «Operation and Installation of Securemme K2 Cylinder».

4.2. Install plates:

- if the door is equipped with plates, see Annex 4 «Installing the plates»;
- if the door is equipped with a mortise armoured plate, see Annex 5 «Installing the armor plate».

4.3. Install handles:

- if the door is equipped with a lever handle, see Annex 6 «Lever Handle Installation Instructions»;
- if the door is equipped with a handle, see Annex 7 «Installing the handle».

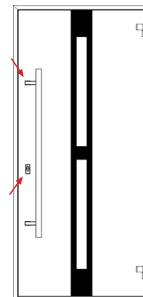


Figure 24.
Installing fittings.

5. Upon completion of installation work, remove protective films from the door (figure 25)

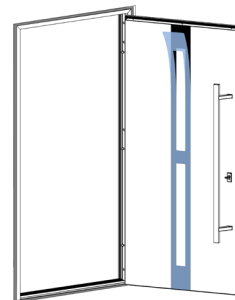


Figure 25.
Removing protective films.

Annex 1

«Leaf Contact Adjustment»

To adjust the leaf contact, unscrew the screw (A) (do not unscrew it completely) and move the tongue (depending on the required adjustment, it is moved to increase the pressing of the leaf or loosen it). Next, tighten the screw. Check how the door is closed and repeat if necessary (figure 26).

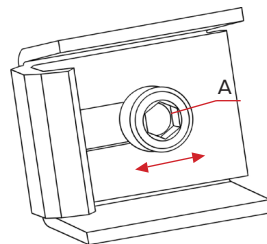


Figure 26.
Setting the contact regulator.

Annex 2

«Adjustment and Operation of the Fuhr Latch»

Door Leaf Contact Adjustment

To adjust the door leaf contact, unscrew the screws (DO NOT UNSCREW THEM COMPLETELY) (A).

Move the latch plate in the desired direction (B). Then, tighten the screws and check the closing of the door (figure 27).

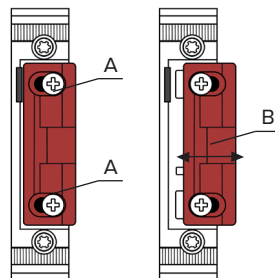


Figure 27.
Setting the Fuhr Latch.

Fuhr Latch Operation

Changing the «Day» and «Night» modes of the Fuhr latch.

A switch is used to change the «Day» and «Night» modes (figure 28).

Modes:

- «Day» – in this mode, the latch plate can be pressed, which is required for the operation of doors equipped with pull handles.
- «Night» – in this mode, the latch plate is fixed, which does not allow to open the door by applying force to the pull handle (pulling or pushing). To open the door, one needs to turn the cylinder for opening until it stops, which will remove file lock latch, and the door will open.

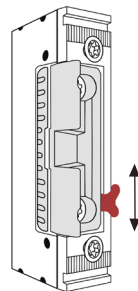


Figure 28.
Settings modes «Day» and «Night».

Annex 3

«Operation and Installation of Securemme K2 Cylinder»

Cylinder Installation

The cylinder mechanism must be inserted into the hole, and the cylinder must be aligned relative to the lock so that the mounting hole in the cylinder coincides with the axis of the lock (figure 29).

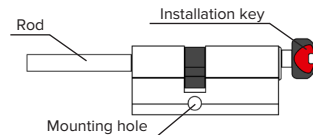


Figure 29.
Cylinder mechanism.

Check the lock by opening the latch. After a successful check, fix with the included screw through the hole in the lock (figure 30).

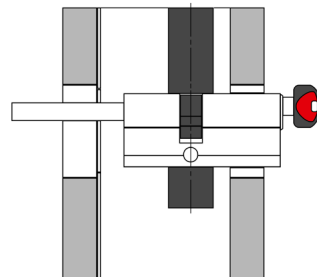


Figure 30.
Setting the cylinder on the axis.

Cylinder operation

Italian «Securemme K2» 10-pin cylinder with recoding function (figure 31):

- 3rd class of burglar resistance;
- 2.000.000 security combinations;
- steel pins for drilling protection;
- protection against pulling the core of the cylinder;
- a complex key profile for guaranteed protection against opening by a picklock.



Individual card

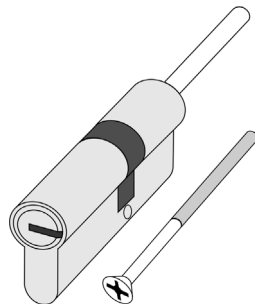


Figure 31.
Cylinder and individual card.

The kit includes 5 master keys, one installation key, and an individual owner's card (figure 32).

Keys with an individual owner's card are sealed in the original «Securemme» packaging, which is opened only by the buyer.

Installation key is used during construction works. After that, the recoding process is carried out by opening/closing the lock with one of the keys of the main set for 4 turns. After changing the cipher, the installation key is deactivated.

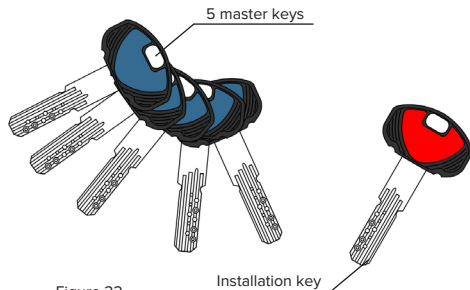


Figure 32.
Installation key and master keys.

Annex 4

«Installing the plates»

To install the wall pad, degrease the installation place (around the hole for the cylinder), peel off the protective film of the adhesive base (A), and stick the pad on the installation place (B) (figure 33).

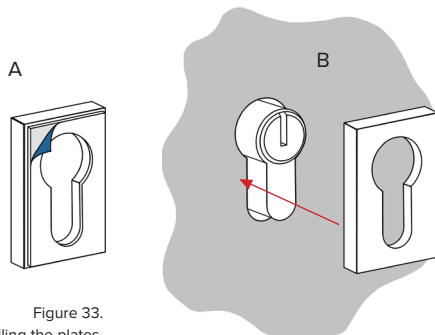


Figure 33.
Installing the plates.

Annex 5

«Installing the armor plate»

To install the plate, tighten with the included screws (figure 34) two parts of the plate placed on both sides of the door, where the anti-panic plate shall be installed on the side of the cylinder key and the other plate shall be installed on the cylinder rod.

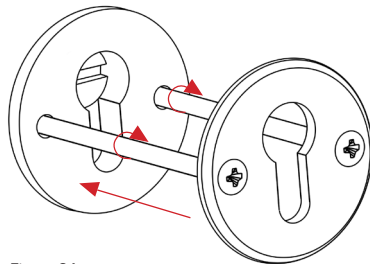


Figure 34.
Installing the armor plate.

Annex 6

«Lever Handle Installation Instructions»

Follow these steps to install the handle (figure 35):

1. The included square of the handle should be inserted into the lock.
2. Unscrew the socket of the handle from the base of the socket.
3. Install the handles on the square close to the door leaf.
4. Tighten both bases of the handle sockets through the holes in door leaf using the supplied tightening screws.
5. Screw the handle bases onto the supplied screws.
6. Screw the handle sockets back onto the bases of the handle sockets.

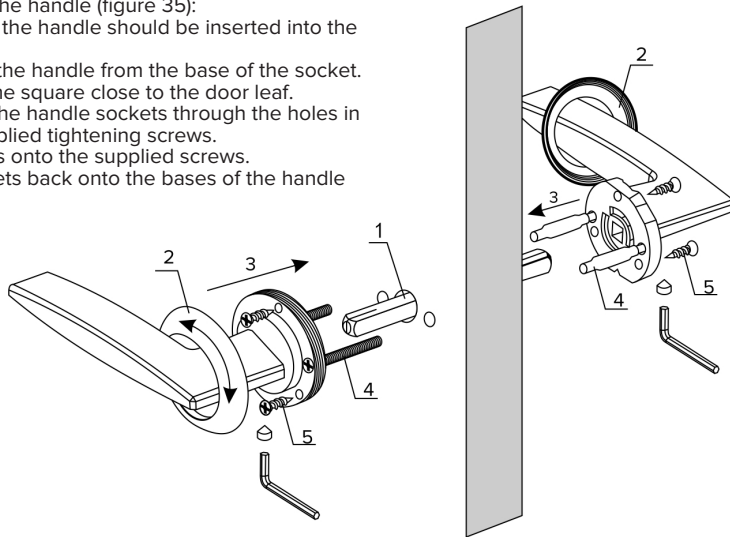


Figure 35.
Installing the lever handle.

Annex 7

«Installing the handle»

Step 1.

Assemble the set consisting of a plastic support, a decorative plate, and a handle holder (without thread) – insert the screw through the mounting hole in the door leaf (figure 36).

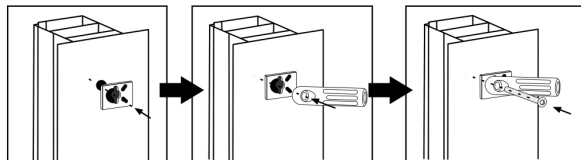


Figure 36.

Step 1 (Installing the handle).

Step 2.

Repeat the operations in step 1 on the other side of the door leaf, but the handle holder must be threaded (figure 37). After measuring the required length of the screw, cut it.

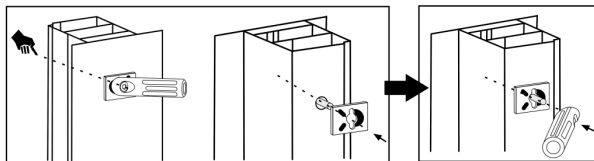


Figure 37.

Step 2 (Installing the handle).

Step 3.

Tighten the tightening screw (figure 38).

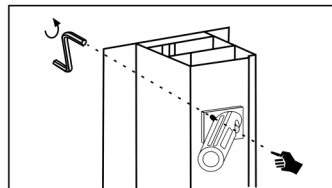


Figure 38.

Step 3 (Installing the handle).

Step 4.

Put the decorative plates on the bracket holders and start the screws (figure 39).

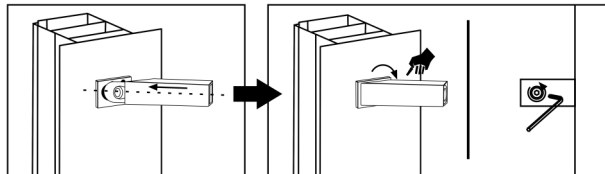


Figure 39.

Step 4 (Installing the handle).

Step 5.

Insert the bracket tightly into the mounting holes and tighten the screws (figure 40). Repeat on the back of the door leaf.

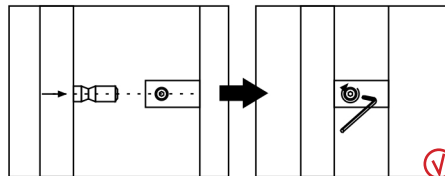


Figure 40.

Step 5 (Installing the handle).

Installation instructions for a transom

1. Preparation for installation

Check the transom immediately after checking the door block, before starting the installation!

Carefully remove the packaging, foam, and cardboard. Thoroughly inspect the transom for cosmetic damage, discrepancies in color, and deformations.

If any of the above issues are detected, do not install the transom, contact the seller.

Thoroughly check the product upon receipt!

Before installing the entrance group, it is necessary to measure its overall size, check the opening direction and side (a gap of 10-30 mm should be maintained around the perimeter of the opening).

Determining the side of the transom



Figure 1.
The outer side of the transom.

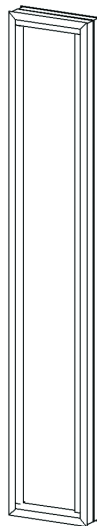


Figure 2.
The inner side of the transom.

Installation of the transom for different types of door opening

This principle applies to any position of the transom/transoms (top, side, and any combinations).

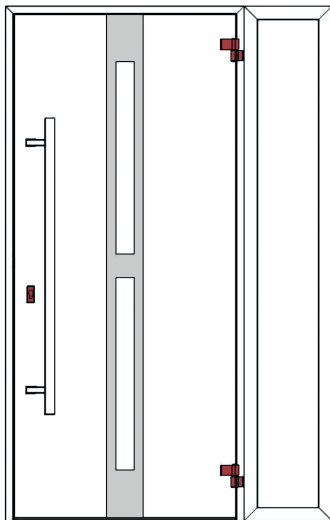


Figure 3.
Entrance group with outward opening
(transom bead is located on the interior side).

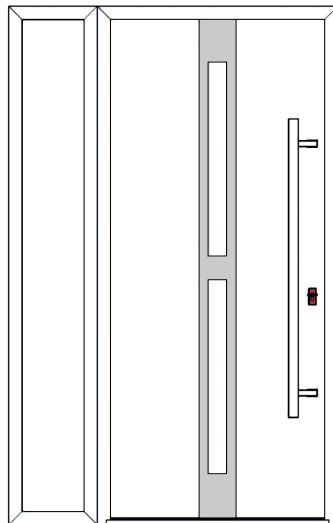


Figure 4.
Entrance group with inward opening
(transom bead is located on the interior side).

Determining the installation side

The installation side of the transom is the side where the fasteners are attached.

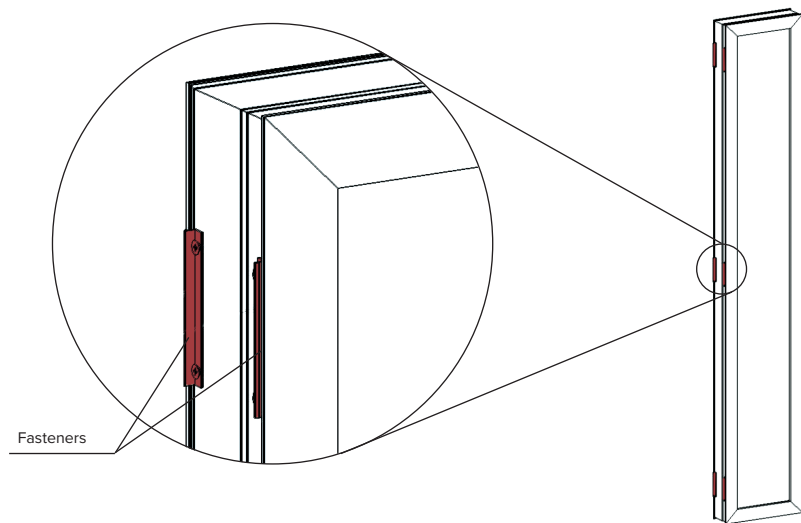


Figure 5.
The installation side of the transom.

Gap insulation

For better protection against drafts in the gap between the door unit and the transom, it is recommended to apply 2 pre-compressed sealing tapes (PCST) on the mounting side.

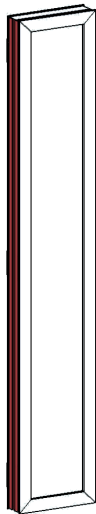


Figure 6.
Side for attaching PCST tape.

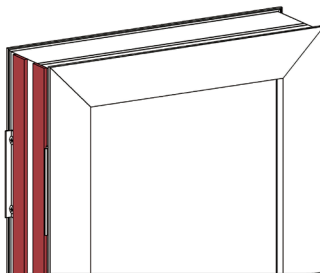


Figure 7.
Installation state of the PCST tape.

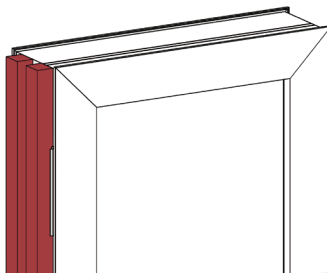


Figure 8.
Operational state of the PCST tape
* the PCST tape expands up to 4 times in
thickness (up to 20 mm).

2. Installation of the window frame

2.1. Preliminary adjustment of the window frame relative to the door block

After preliminarily adjusting the window frame as shown in Figure 9 (the gap should be left on the outside, on the side without beads), apply force (Figure 10) from the gap side to snap onto the mounting elements. The force can be created not only manually but also by impact* (Figure 11), or by tightening with a clamp (Figure 12) along the length of the mating surfaces in the area of the mounting elements.

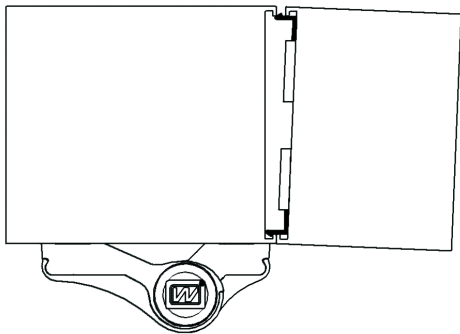


Figure 9.
Preliminary positioning of the sash relative to the door block.

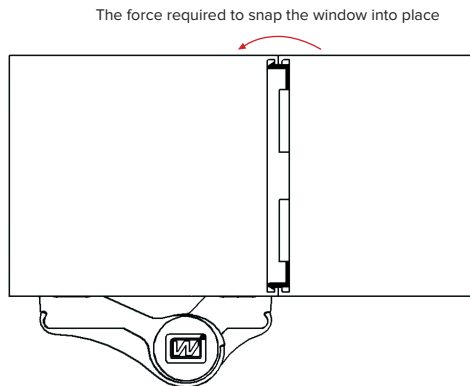


Figure 10.
Snapping onto fasteners.

ATTENTION! The fastening operations should be performed only from the side without beads or door frame.

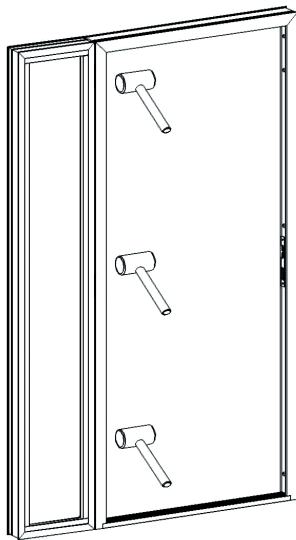


Figure 11.
Fastening by striking method.

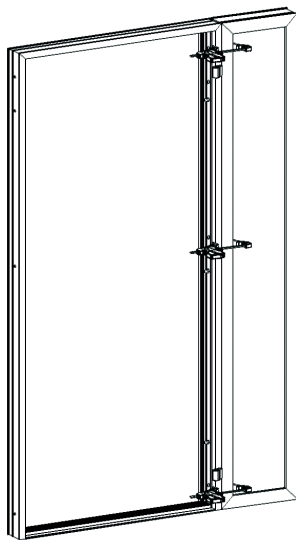


Figure 12.
Fastening with a clamp.

2.2. Twisting the transom and door frame

Using an electric tool with an end-head (8 mm with an outer diameter of less than 15 mm), twist the door frame and transom, using the included self-tapping screws (Figure 13).

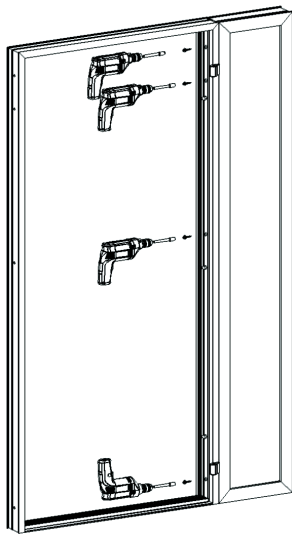


Figure 13.
Twisting the door frame and transom with screws.

To reinforce the attachment, it is necessary to additionally screw the transom bracket with screws (Figure 14). Repeat the operation for the threshold.

The above steps are valid for installing transoms of other configurations, including those for upper and entrance groups.

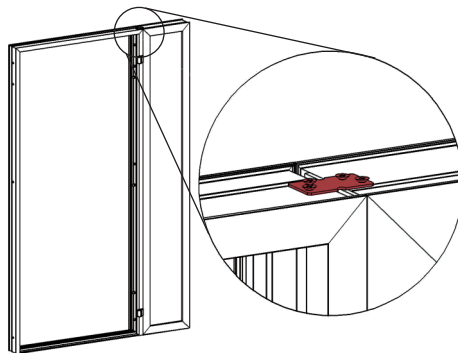
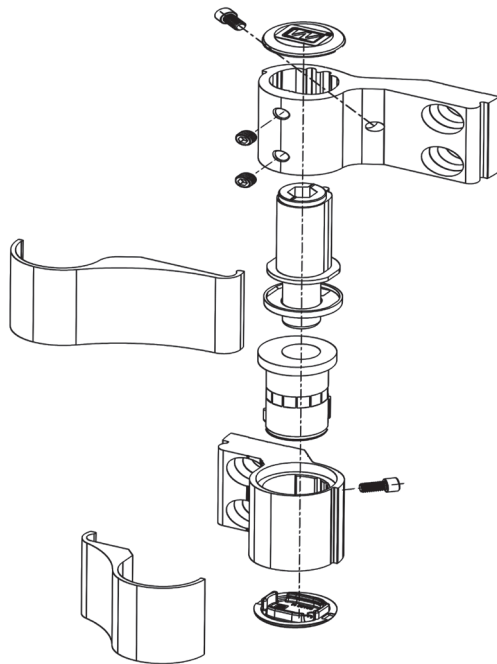
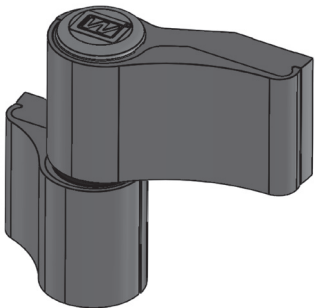


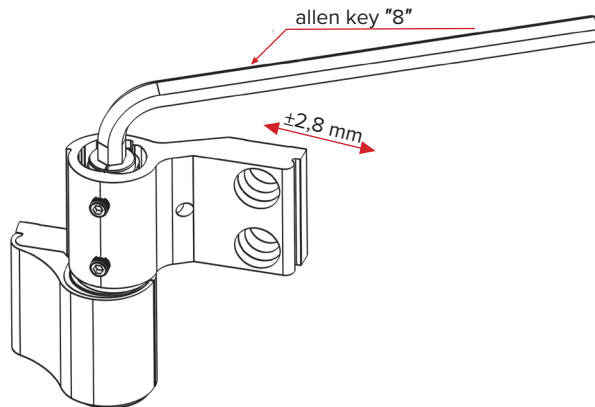
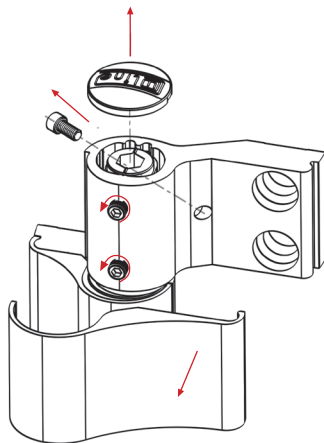
Figure 14.
Fixing the transom bracket.

To attach the window sash to the wall, reinforced plates (ears) are used, which are included in the hardware kit. The plate (ear) is screwed to the sash using the included screws - 4 screws for each plate (ear), and then fixed by anchor bolt on the wall. Each hardware kit includes 4 plates (ears): for side windows, all plates (ears) are attached on the vertical side, for the top window, 2 plates can be attached vertically on different sides, and 2 plates can be attached horizontally at the top to the wall.

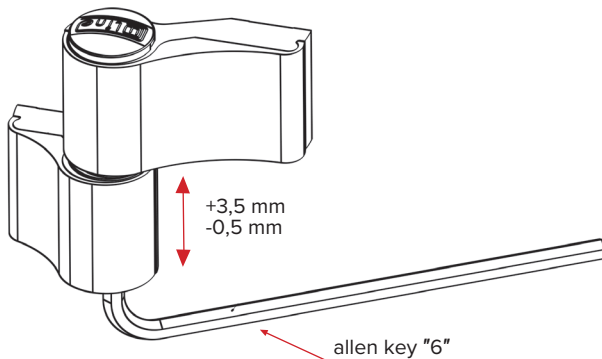
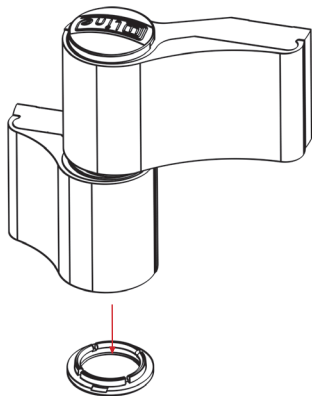
Instruction for adjustment hinge Wala MX 2-section



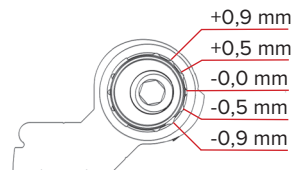
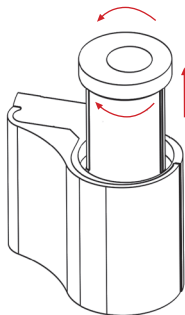
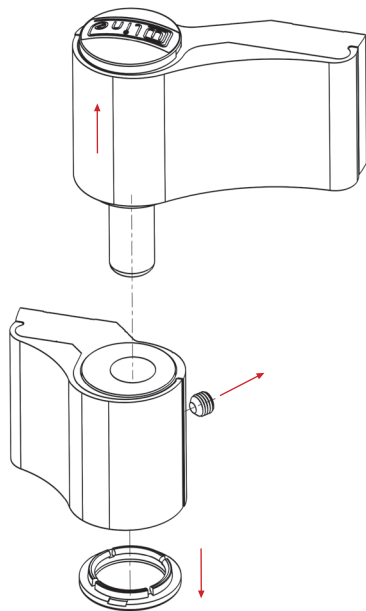
Horizontal adjustment



Vertical adjustment



Regulation of pressure



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