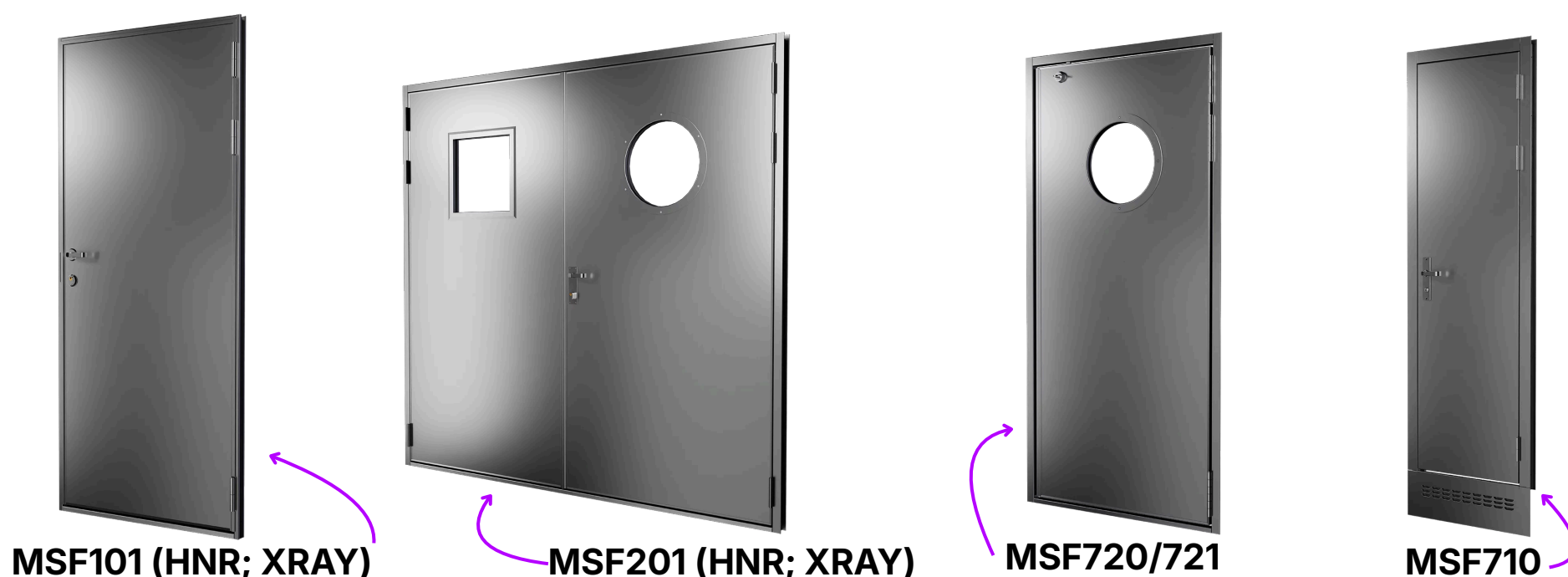


INSTALLATION MANUAL FOR MSF101/MSF201, MSF710, MSF711, MSF720/721 TYPE HINGED DOORS

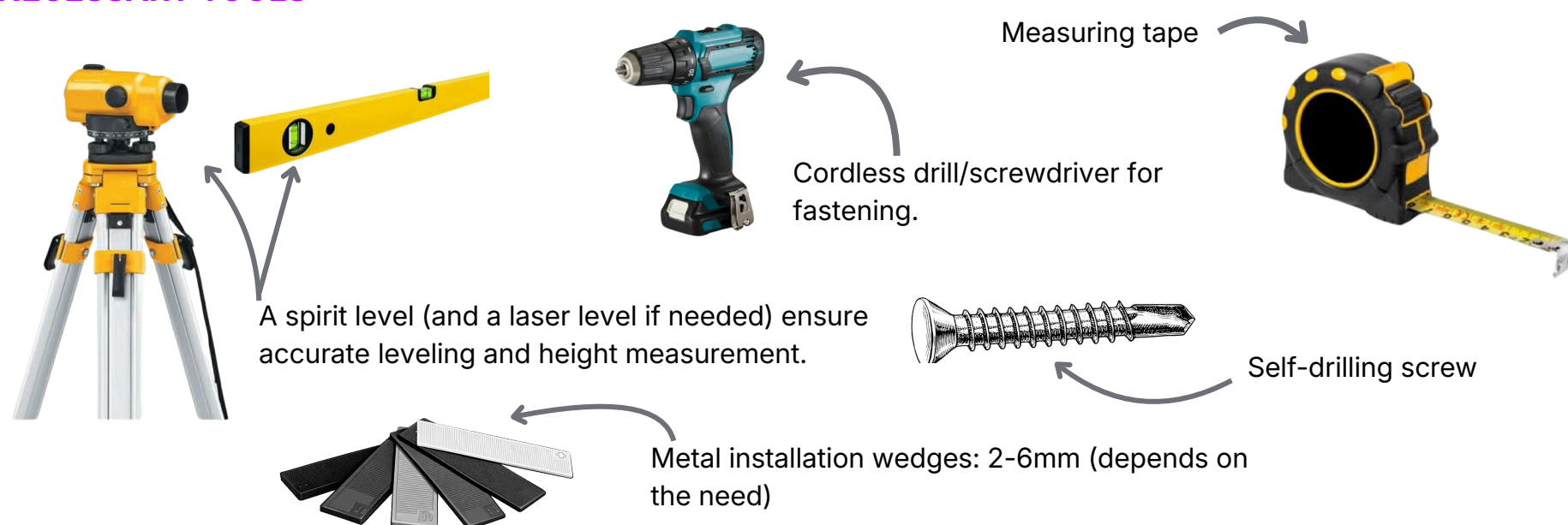


PRODUCTS COVERED BY THIS INSTALLATION MANUAL:



Installation guide

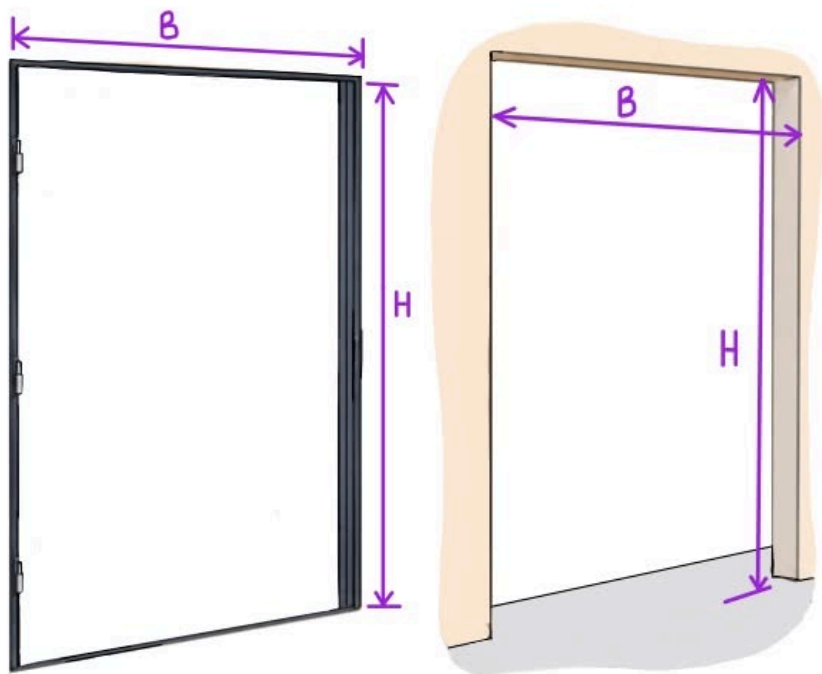
NECESSARY TOOLS



INSTALLATION OVERVIEW

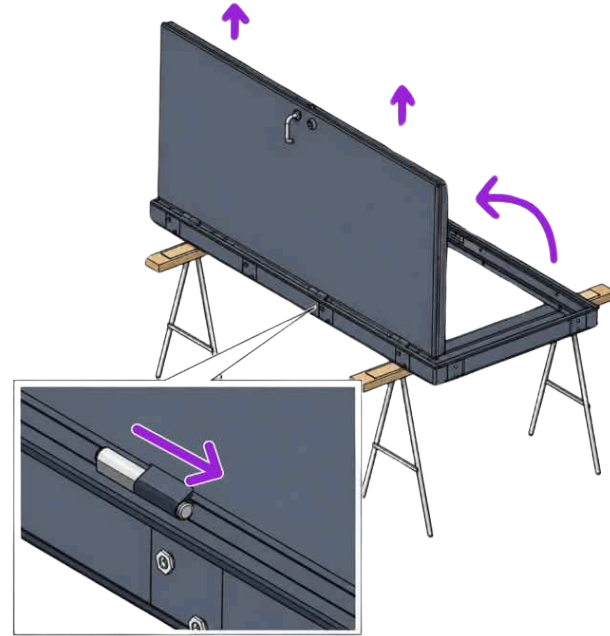
- The door frame must be securely and tightly fixed into the prepared wall opening and onto the finished floor surface. Consider the thickness of the final floor covering when positioning the frame.
- The optimal installation time is after the floor is done.
- Use screw fasteners appropriate for the wall/bulkhead type. Recommended fasteners are self-drilling screws Ø6.3×55 mm.
- **Avoid damage during transport** of the door set. Protect the door set with cardboard, plastic film, or similar material.

INSTALLATION



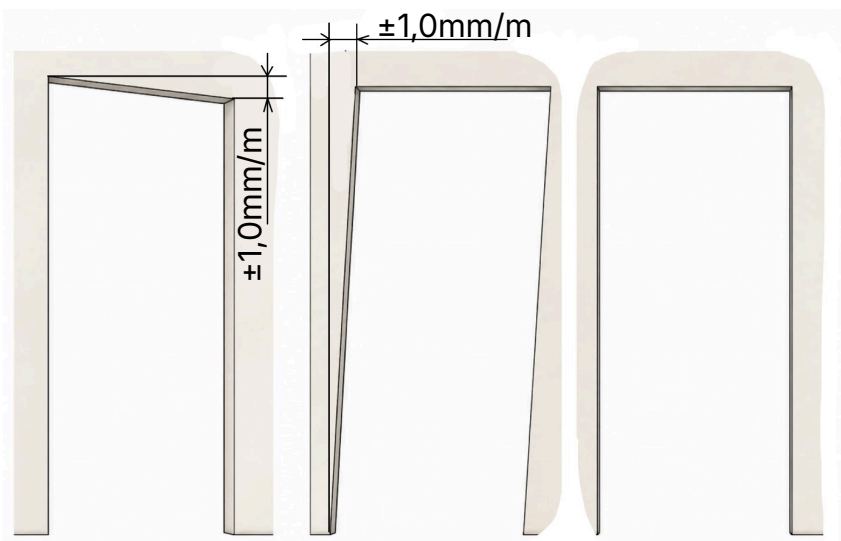
- Check that the size of the bulkhead/panel opening is correct.

1



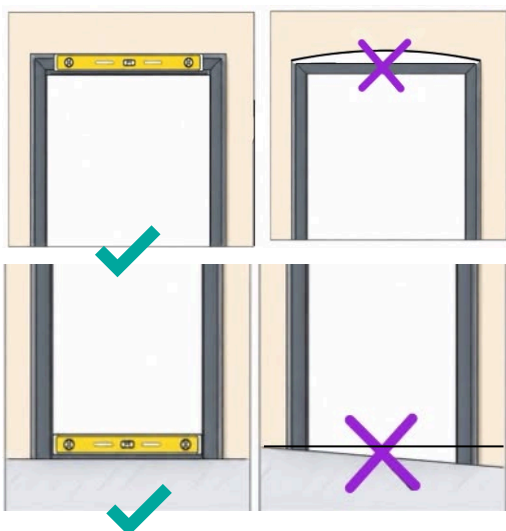
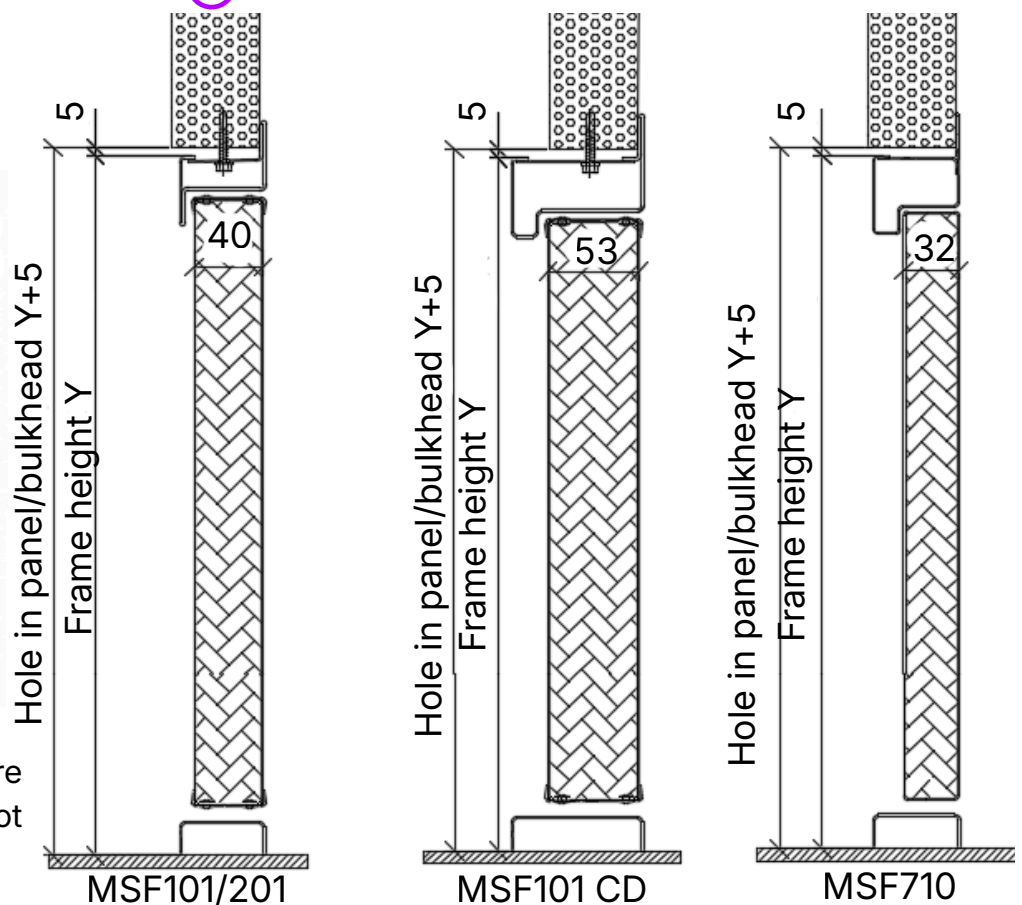
- Remove the door leaf/leaves from the frame by lifting them off the hinges. **For swing door** remove the door leaf/leaves from the frame by unscrewing the hinge plates from the frame.

2



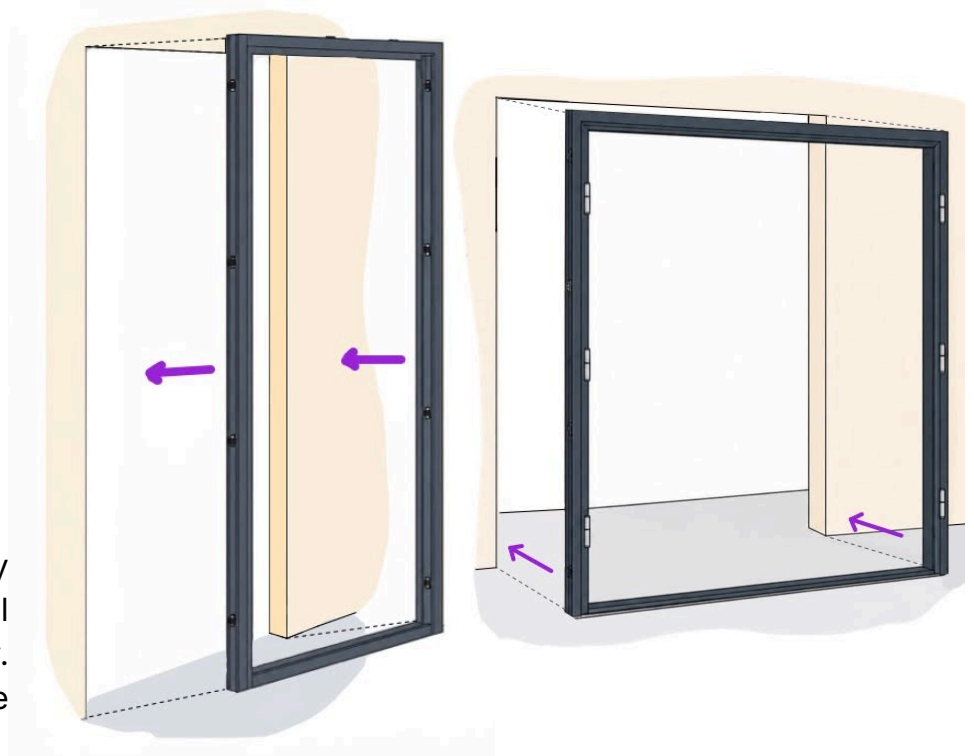
- Check that the bulkhead/panel is straight and square (90°). Verify that the frame is properly aligned and not twisted or distorted.

3



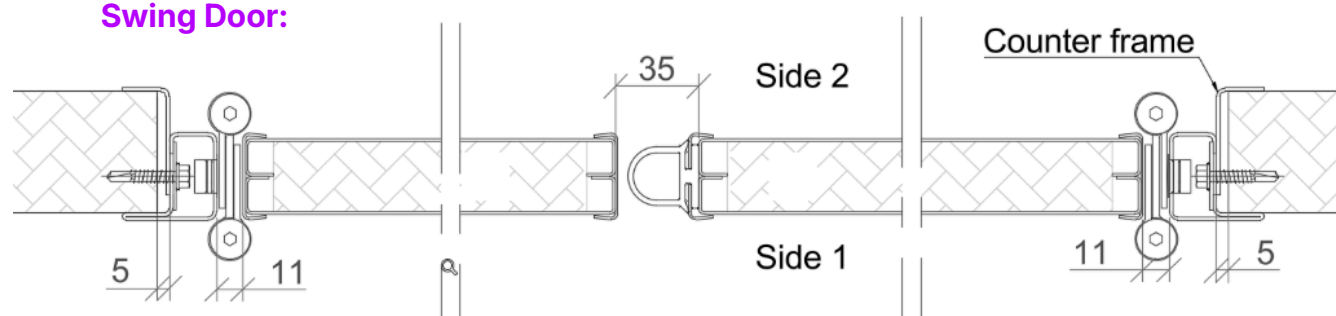
- Lift the frame upright into the structural opening, directly onto the finished level floor and check with a spirit level that it is correctly aligned both vertically and horizontally. If the floor is not level, install wedges under the threshold.

4

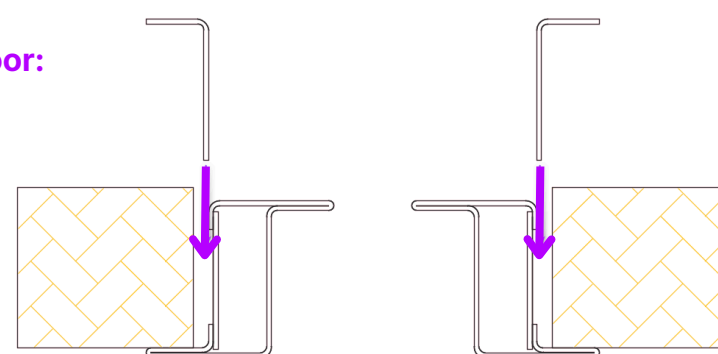




Swing Door:

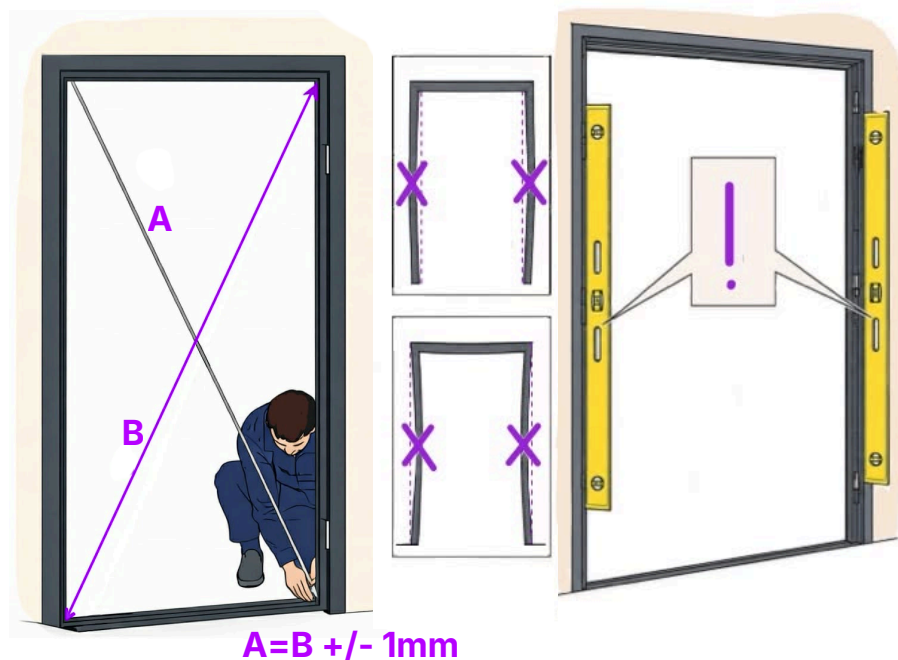


Regular door:



⚙ If needed then fit the counter frames between frame and bulkhead/panel.

5



$A=B \pm 1\text{mm}$

⚙ Check with a spirit level that the frame is correctly aligned.

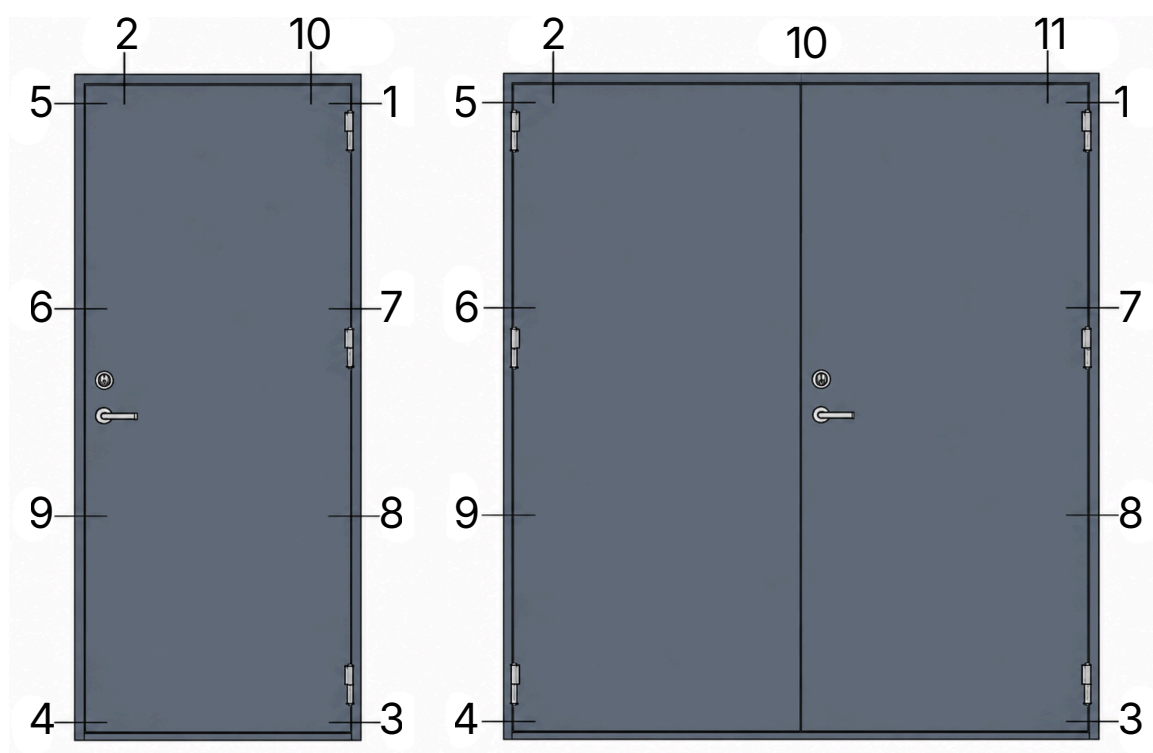
6



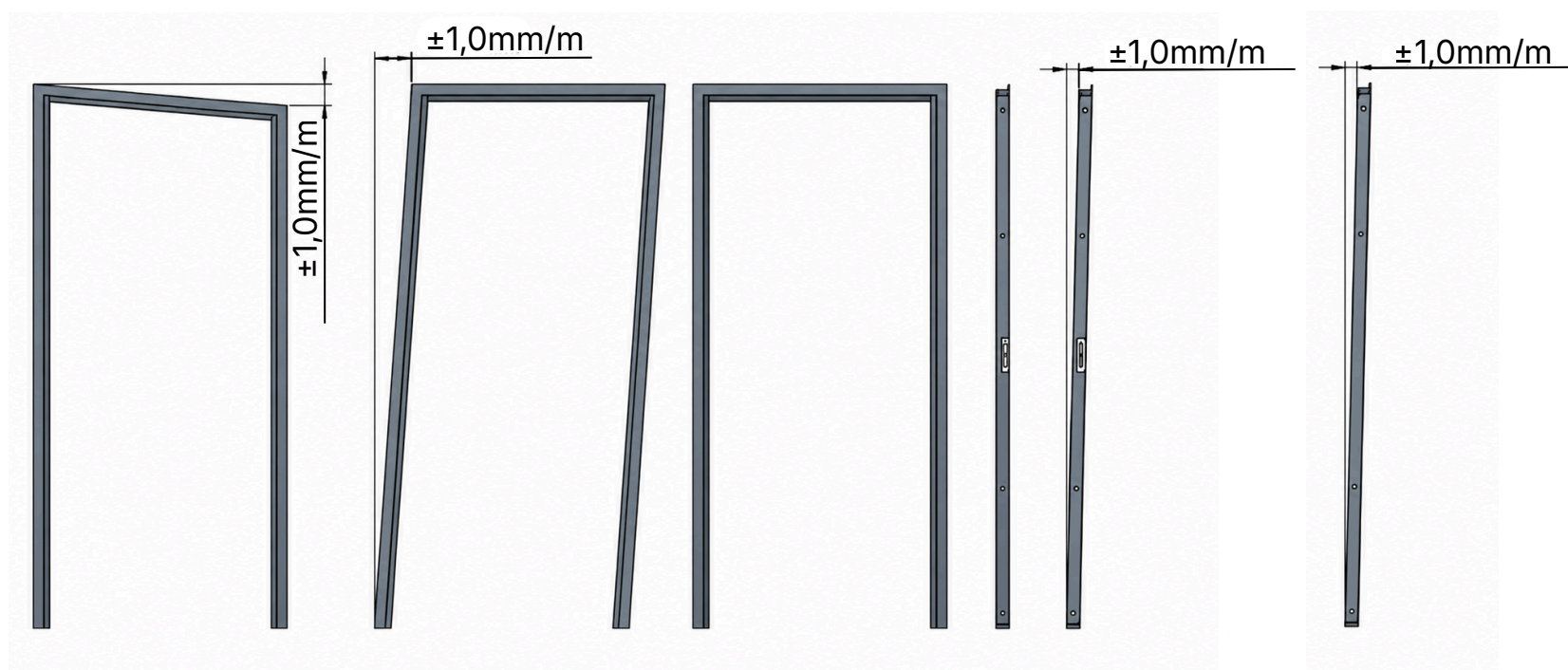
⚙ Drill the fixing holes and install $\varnothing 5\text{mm}$ screws first into hinge (one) side of the frame.

7

⚙ Secure the frame at the initial fixing points (in order 1, 2, 3) according to the drawing. After fixing fasteners 1 and 2, check the frame level and adjust if necessary. After fixing fastener 3, check the frame plumb and adjust if necessary.



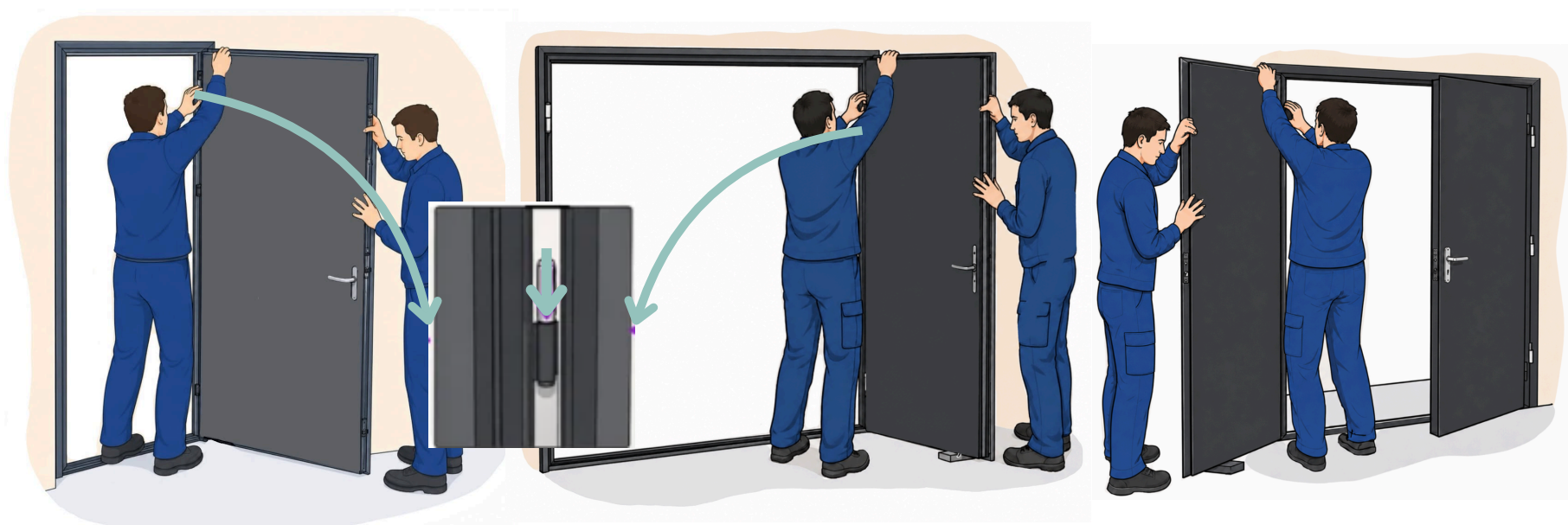
8



⚙ Make sure the threshold (if present) and the hinge-side jamb are level/plumb. Check the frame installation tolerances.

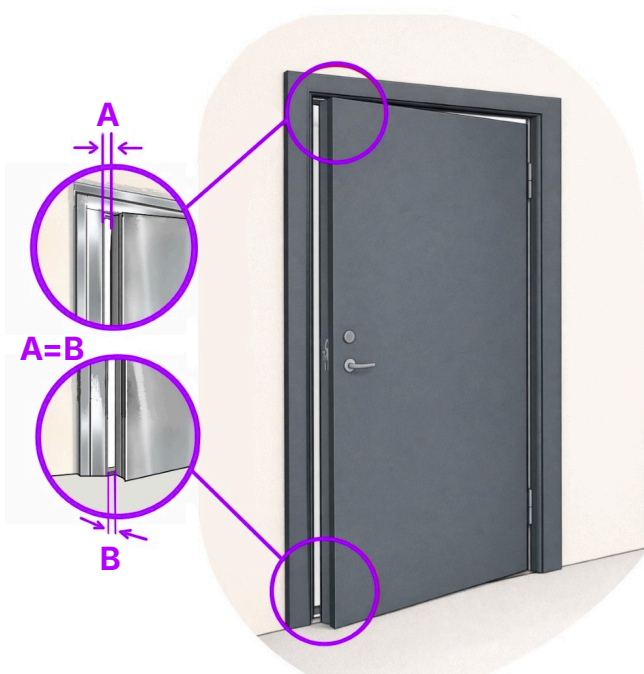
9

⚙ For double-leaf doors, install the active door leaf first, followed by the passive door leaf.



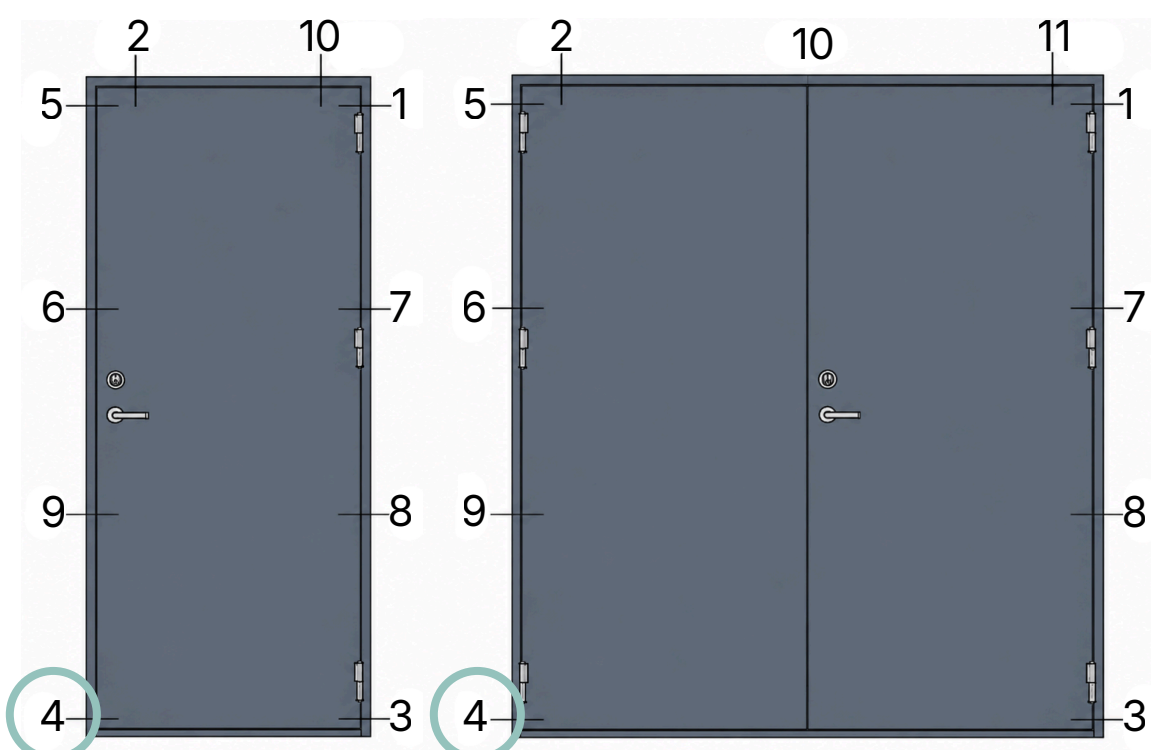
⚙ Install the door leaf/leaves in the frame. Check alignment at the bottom, hinge side, and top. Adjust if necessary.
For swing door install the door leaf/door leaves into the frame by reattaching the hinges to the frame, starting with the top hinge.

10



⚙ Inspect the gaps between the door leaf and the frame. Gaps must be even along the entire perimeter. Adjust the door or hinges if required.

11



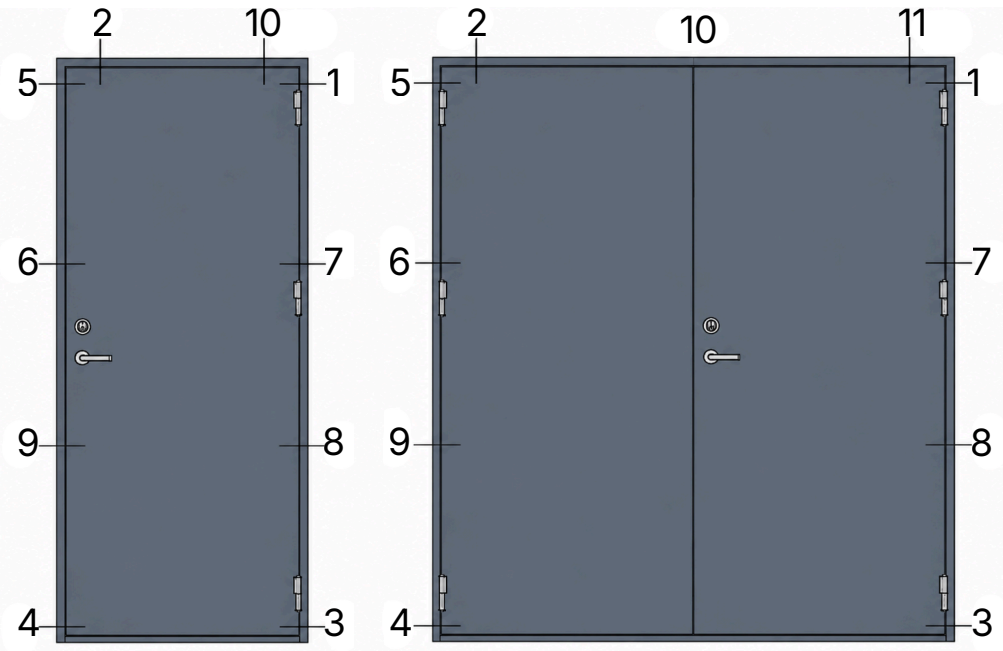
⚙ Secure fastener No. 4. At this stage, adjust the frame according to the door leaf.

12

Door type	Thickness of the door leaf	Gap tolerance for all measures is $\pm 1,0\text{mm}$				
		Lower*	Upper	Hinge side	Lock side	Double leaf middle
MSF101/201	40 mm	6-20 mm**	4 mm	3 mm	5 mm	6 mm
MSF101-CD	53 mm	6-7 mm**	4 mm	3 mm	5 mm	-
MSF710/711	32 mm	6-30 mm	4 mm	2,5 mm	4 mm	-

⚙ Check for the gaps based on table.
 *Lower gap depends on the of the sill and bottom gasket.
 **For the E-seal: 6 mm; for the automatic threshold: 7 mm.

13



⚙ Secure all remaining frame fasteners.



⚙ Attach and cover to the threshold (if present).

14

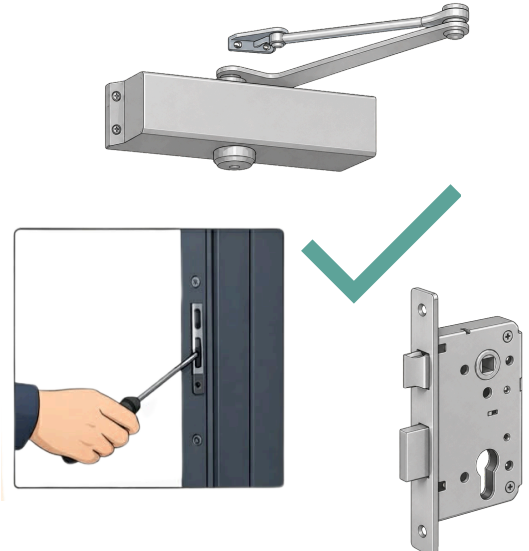


⚙ Make a final check by closing and opening the door. There should be no obstacles.



⚙ Install accessories onto the door if needed

15



⚙ Make sure that all the hardware works properly.

16

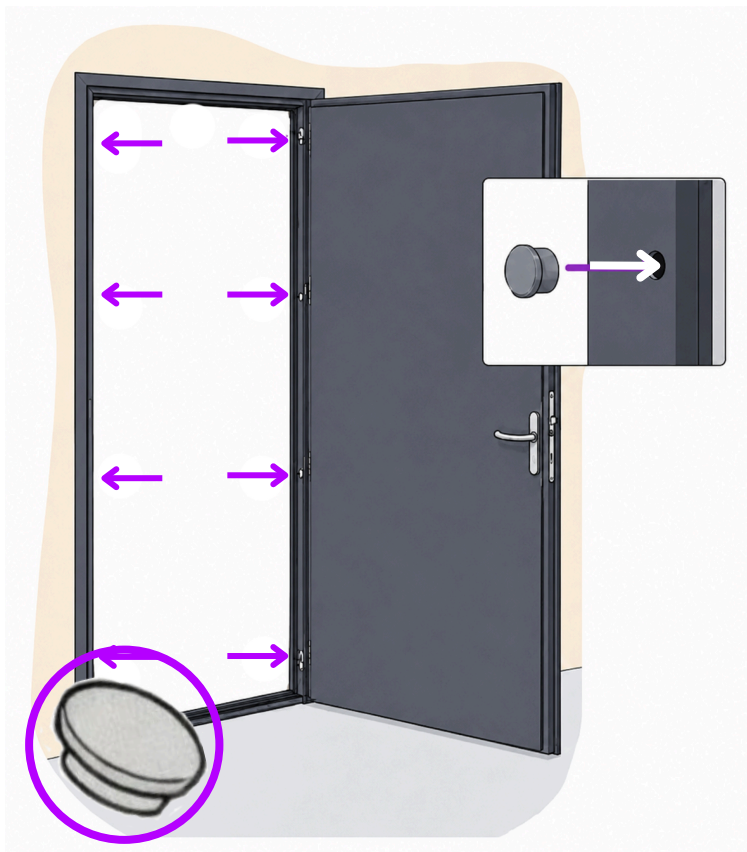
17

18



⚙ For doors with PVC finish only: Remove the protective film within 2 months of our EXW delivery. The recommended surface temperature for film removal is 0-20 °C.

19



- ⚙ Install plastic cover caps on the frame fixing holes and secure trim moldings if needed (max spacing 500 mm).

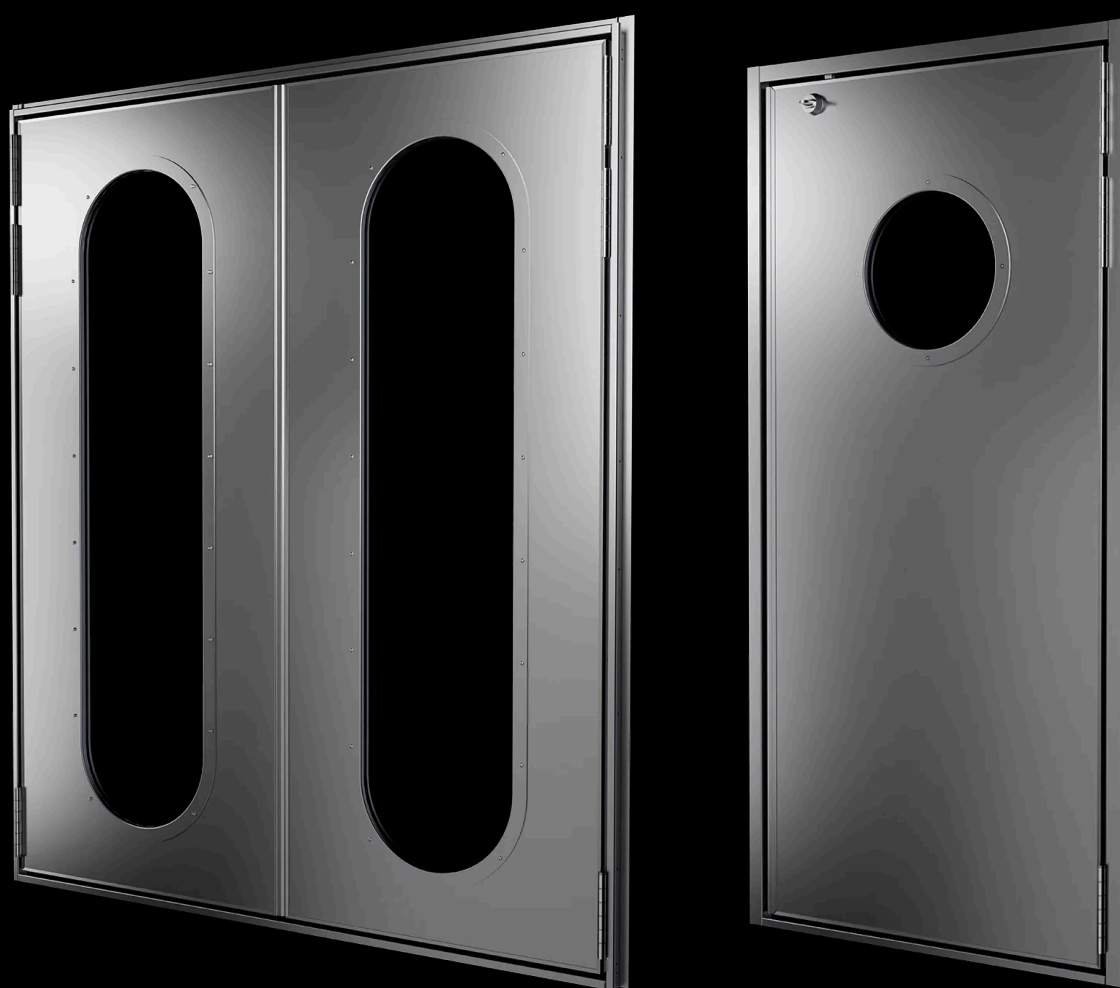
20



- ⚙ For swing doors requiring adjustment, see Appendix 1. Swing doors must be adjusted as soon as functional or alignment issues are detected.

21

APPENDIX 1. SWING DOOR HINGE ADJUSTMENT



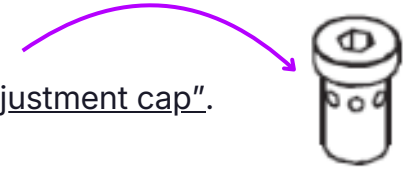
ADJUSTMENT

1. Place the door in the closed position

The door must be in its correct resting position. Do not adjust the hinge when the door is opened too far and the spring is under tension.

2. Locate the upper adjustment cap of the hinge

This is the upper part of the hinge cylinder with a hex socket inside. It is called the "3-point adjustment cap".



3. Insert the hex key into the adjustment cap

Insert the hex key into the opening at the top of the hinge.

4. Hold the hex key under tension and remove the locking pin

There is a small locking pin on the side of the hinge. It keeps the adjustment cap locked in the selected position. To remove the pin, move the cap from position 1 to position 0. The pin can then be removed. Before removing the pin, hold the hex key firmly to prevent the spring tension from releasing suddenly.

4.1. Select tension setting 3

The "3-point adjustment cap" means that the cap has several locking holes / tension settings. Always adjust one step at a time.

Setting logic:

- 0 = free position
- 1 = low tension
- 2 = medium tension
- 3 = high tension

5. Reinstall the locking pin

When the required hole is aligned, insert the locking pin back into place. The pin must be fully inserted, as it locks the spring tension. Only then remove the hex key.

6. Repeat the same procedure for the upper hinge.

7. Check the door movement in both directions and make sure that the door gaps are even on all sides.

Open the door in one direction and release it. The door must return to the centre position. The gaps around the door must also be even on all sides.

VIDEO GUIDE FOR ADJUSTING SWING DOOR HINGES

LINK:

To search: Look up "video guide for adjusting swing door hinges" by Tammer from YouTube.

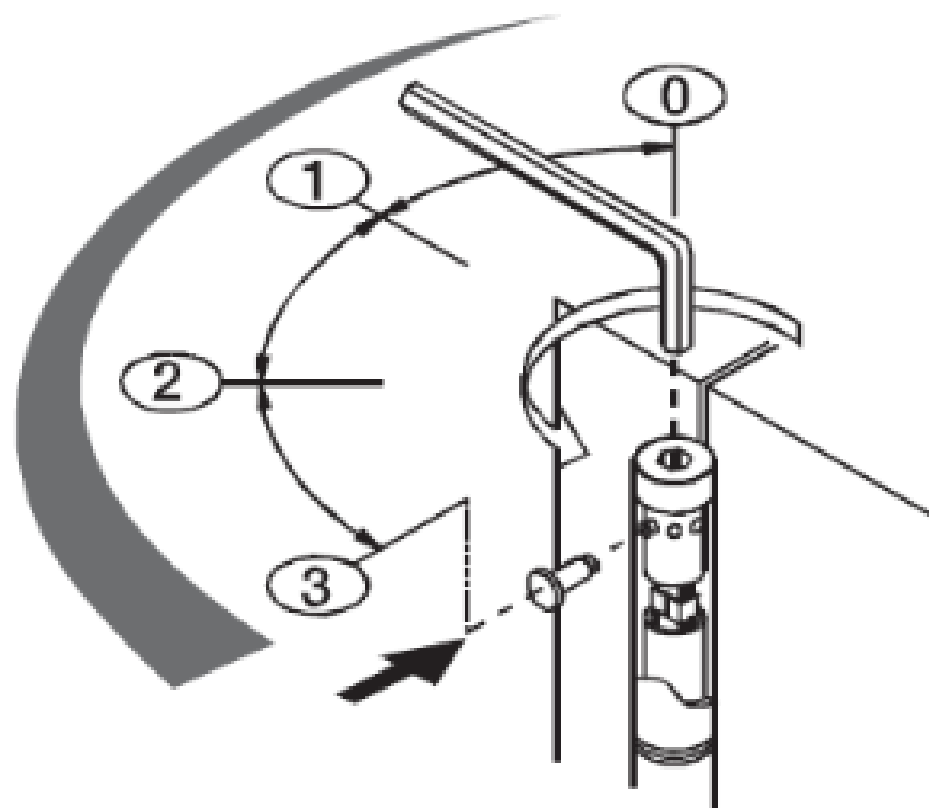


Figure 1. Hinge adjustment and components