



Attention! General warnings!

Follow all safety precautions when installing the door set. Review the warnings and instructions below before starting the installation.

-  This manual covers only the installation of the door set. Additional elements must be installed according to their separate instructions.
-  Parts of the set may have sharp edges. Wear protective equipment during installation work.
-  The door components included in the set are heavy.
-  When supporting the door on the floor or ground, use material that protects the paint layer (e.g. rubber, cardboard, wood, or plastic). Do not support the door on a protruding latch rod.
-  The delivery set does not include sealing materials for filling the gap between the frame and the wall, nor support blocks. Other necessary parts for installing the door are included in the delivery set. Adding extra components may affect the safety of the door and the warranty coverage.
-  If the installation is not in accordance with the instructions and if locks, fittings or materials not specified by the manufacturer are used, the door will lose its performance properties. In such cases, the door will no longer meet the certified and declared properties, and the installer is required to remove the certificate marking from the door.
-  This manual is not intended for the installation of fire-resistant doors. The installation of fire-resistant doors must be carried out following the fire-resistant door installation manual!



TABLE OF CONTENTS

1	Tools and fasteners	3
2	Order of installation	7
3	Filling the gap between the frame and the wall. Finishing.....	10
4	Hardware installation.....	10
5	Final check.....	10
	Appendix 1. Door frame assembly on site	11
	Appendix 2. Removal of the temporary threshold profile.....	12



1 TOOLS AND FASTENERS

For fixing the door frame, use the following fasteners:

- For stone or concrete walls use a concrete screw with a minimum size of 7,5×65 (for example ESSVE art. 105267). Pre-drill a $\varnothing 6$ hole.
- For lightweight masonry walls use a lightweight concrete screw with a minimum size of 8,0×120 (for example ESSVE art. 10523). No pre-drilling required.
- For wooden frames use a screw with a minimum size of 6,0×65 (for example ESSVE art. 105294). No pre-drilling required.
- For steel profiles use a screw with a minimum size of 7,0×45 (for example ESSVE art. 105379). No pre-drilling required.

Use a 10 mm hex key to adjust the sleeves.

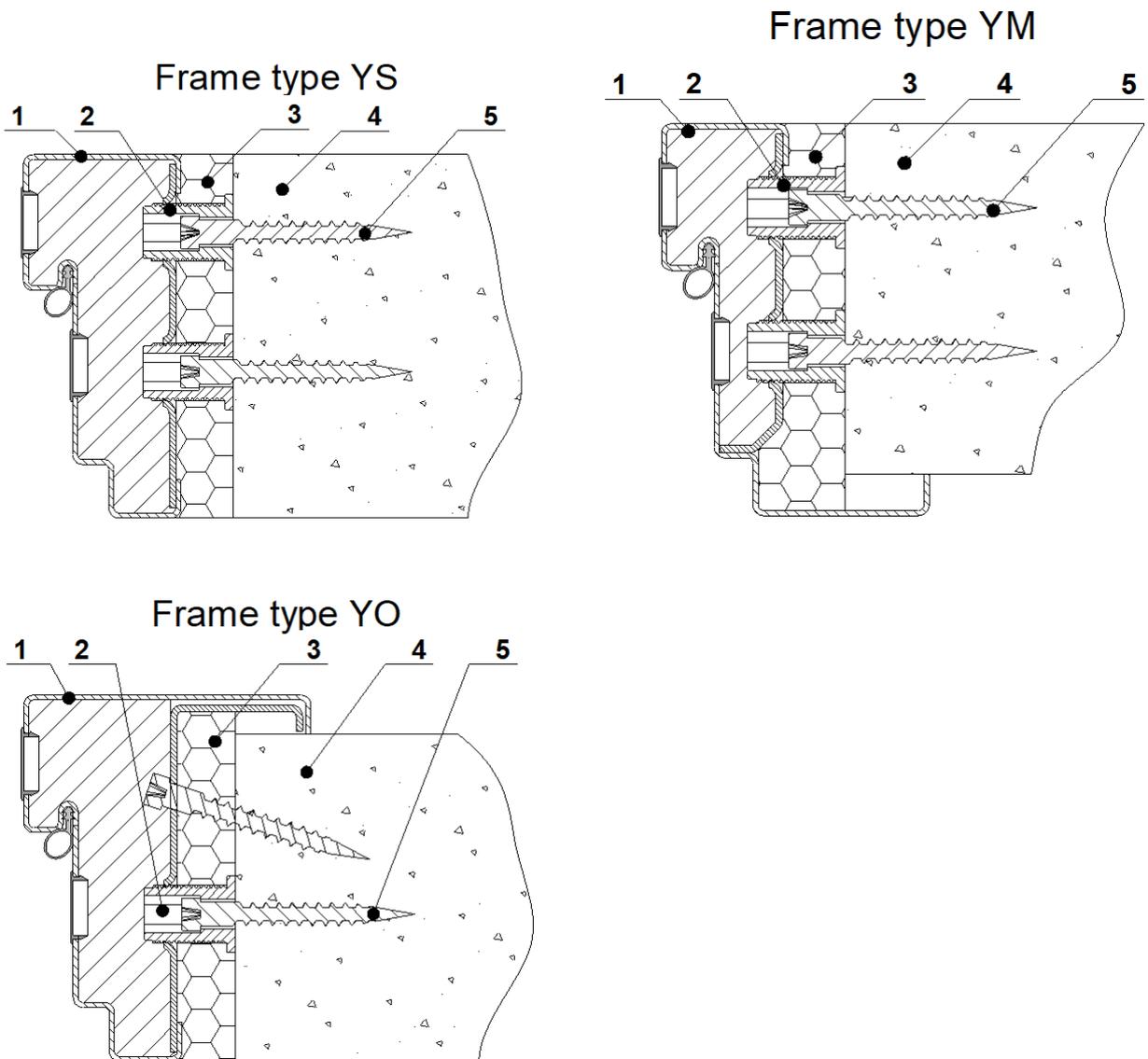


Figure 1. Fixing the door frame into a concrete, lightweight block or stone wall

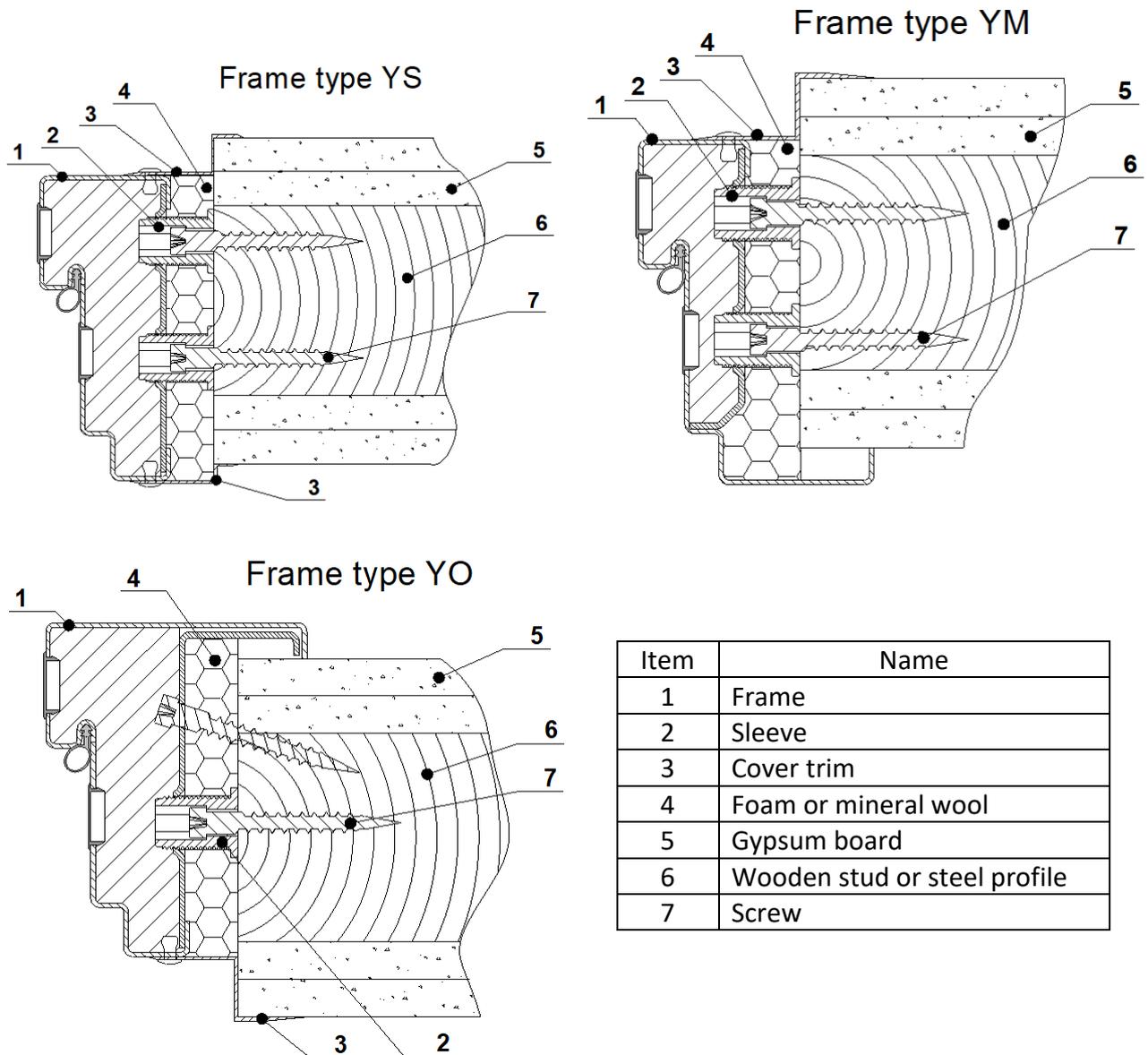


Figure 2. Fixing the door frame into gypsum board wooden frames

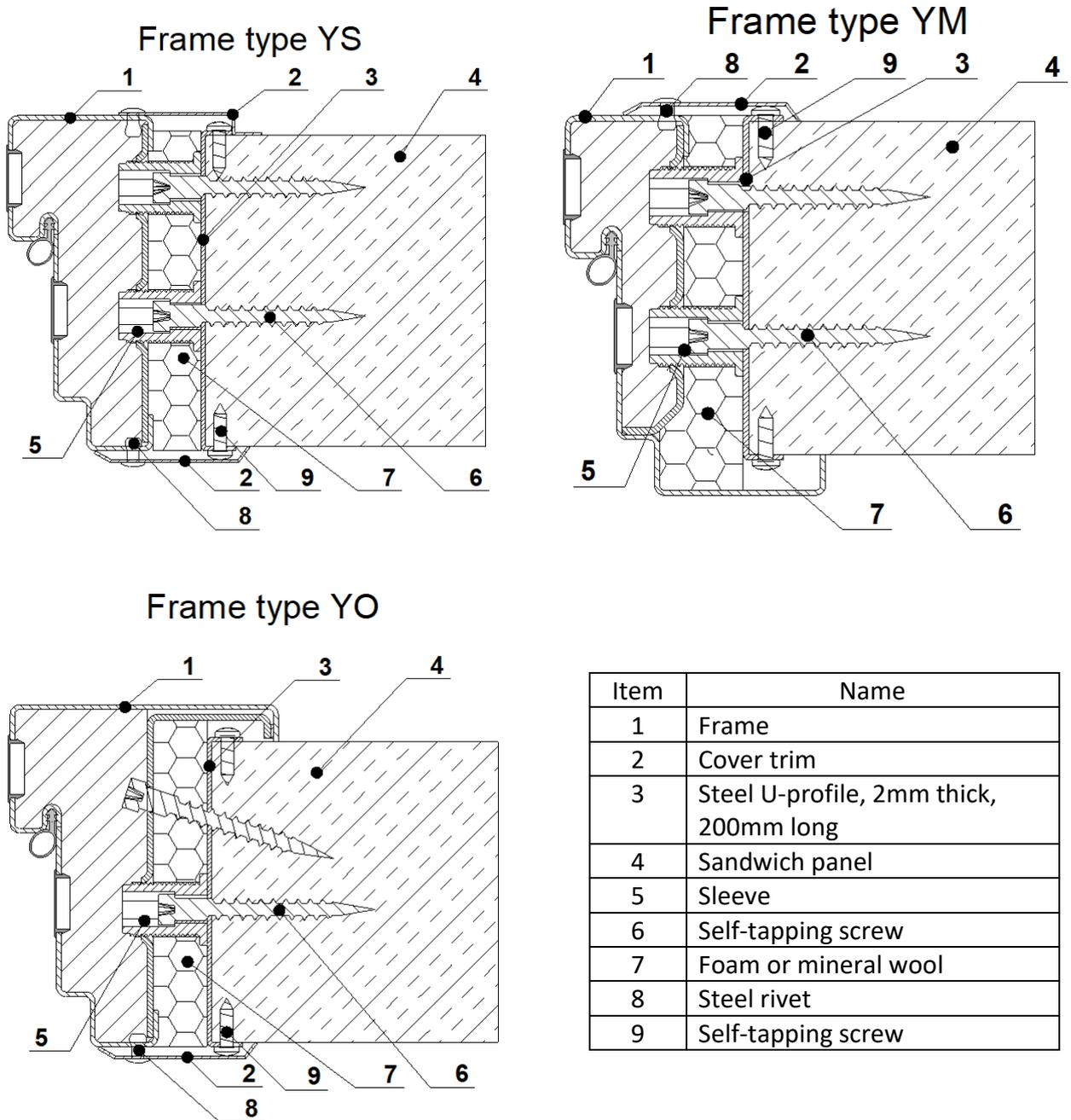


Figure 3. Fixing the door frame into a sandwich panel



2 ORDER OF INSTALLATION

- 2.1 Make sure that all required fasteners, tools and additional materials are available.
- 2.2 Check the preparation of construction aperture.
 - 2.2.1 The construction aperture may not exceed the door frame width by more than 70 mm or the door frame height by more than 35 mm.
 - 2.2.2 If the limits are exceeded, the opening must be adjusted.
- 2.3 Ensure that the door frame and fasteners do not come into contact with any utilities running inside the wall.
- 2.4 For an exterior door frame that is assembled on site ([Appendix 1](#). Door frame assembly on site), the joints must be sealed with silicone. Thresholds are fastened with screws or spring pins (figure 8, view B), except 5mm sheet thresholds, which are fastened with flat head bolts M5x10 (figure 8, view C). Spring pins are used when threshold tab height from floor is lower than 10mm, otherwise screws are used. The threshold joint located on the exterior side of the door seal must be silicone-sealed. Allowed silicones are Soudal Soudaflex 40FC, Soudal Silirub 2/S and Penosil General Silicone.
- 2.5 Frame installation
 - 2.5.1 For openings without a threshold, remove the temporary profile ([Appendix 2](#). Removal of the temporary threshold profile).
 - 2.5.2 Place the frame without the door leaf into the construction aperture.
 - 2.5.3 Ensure that the frame is supported under the side profiles to prevent the door from dropping later.
 - 2.5.4 Check the horizontal alignment of the frame base and/or the top profile.
 - 2.5.5 Support the threshold as close to the fastening point as possible to prevent bending when stepped on.
- 2.6 Fixing the frame
 - 2.6.1 Level the hinge-side of the frame and initially fasten the frame through fixing points 1, 2, and 3 ([Figure 4](#)).
 - 2.6.2 Adjust the sleeves against the support surface. When adjusting the sleeves, ensure the vertical alignment of the frame posts. The maximum sleeve extension from the frame surface is 15 mm. If the gap between the frame and the wall is larger, use support blocks.
 - 2.6.3 When adjusting the frame using hexagonal steel sleeves (Adjufix frame screws), avoid overtightening them, as an overtightened steel sleeve may cause frame deformation.
 - 2.6.4 Use specified fasteners for ESSVE sleeves (**Error! Reference source not found.** **Error! Reference source not found.**).
 - 2.6.5 Measure the internal diagonals of the frame ([Figure 5](#)). The diagonal measurements may not differ by more than 1 mm.

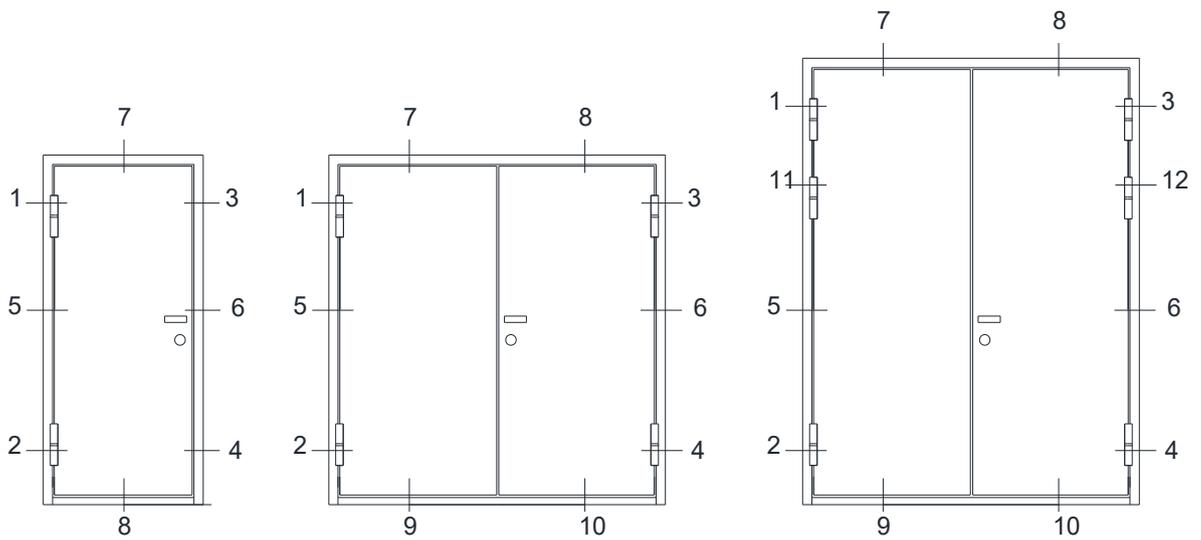


Figure 4. Frame fixing points

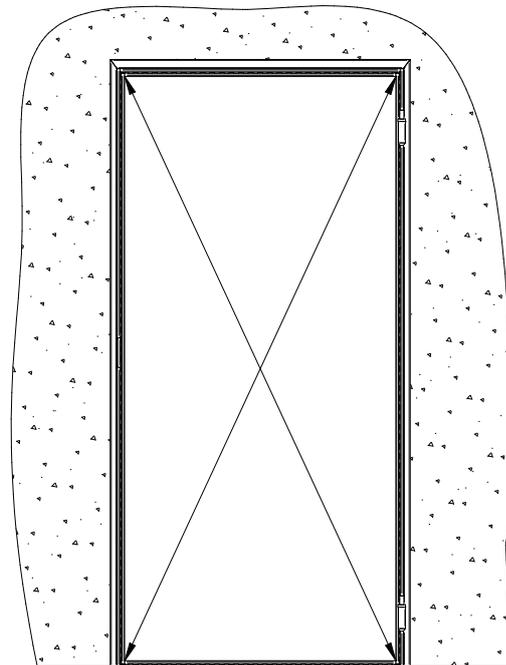


Figure 5. Internal diagonals of the frame



2.7 Door leaf installation

- 2.7.1 Make sure the hinges are lubricated using a solid lubricant. Lubricate if necessary.
- 2.7.2 Lift the door leaf on the hinges.
- 2.7.3 Check that the gap between the door leaf and the frame is the same width all around.
- 2.7.4 Check that the exterior face of the door is flush with the frame.
- 2.7.5 Fasten with a screw through fixing point 4 (Figure 4).
- 2.7.6 Fasten the frame at all remaining fixing points and repeat step 3.6.3.
 - The gap must be at least 3 mm and not greater than 5 mm (Figure 6). If necessary, loosen the fixing screws and adjust the sleeves with a hex key.
- 2.7.7 Tighten the fixing screws.
- 2.7.8 Cover the frame fixing points with plastic caps.

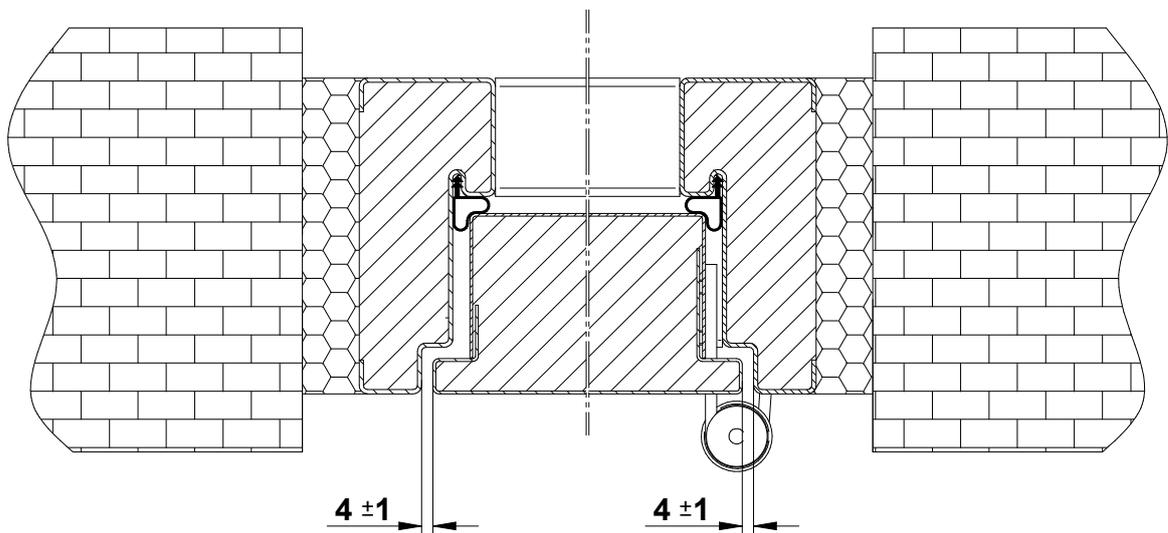


Figure 6. Gap tolerances between the door leaf and the frame



3 FILLING THE GAP BETWEEN THE FRAME AND THE WALL. FINISHING.

- 3.1 Fill the gap between the frame and the wall using mineral wool or foam
- 3.2 When using foam make sure that the gaps are equally filled and if possible, fill the gap below the threshold. Follow the instructions provided by the manufacturer of the foam. Cover the frame with masking tape to avoid foam getting on the external side of the frame.
- 3.3 After sealing the gaps, ensure the door opens and closes freely.
- 3.4 Cover the filled gaps with a construction board, plaster, or a metal trim fixed with rivets.
- 3.5 Sealing of exterior doors
 - 3.5.1 Seal the gaps between the threshold and the floor with sealant (Soudal Soudaflex 40FC, Soudal Silirub 2/S, or Penosil General Silicone). Seal both the interior and exterior edges.
 - 3.5.2 For YM frame type with a wall-covering trim, seal the gaps between the wall and the frame on the exterior side.
- 3.6 On construction sites, it is mandatory to cover door leaves with protective film. Remove any excess film or fold it onto the door and secure it with tape. For exterior doors, cut the film flush with the bottom edge of the door leaf, leaving the bottom open so that rainwater and moisture can drain out.
- 3.7 After completing the work, clean the product of dust, fingerprints, and excess grease, and remove any debris.

4 HARDWARE INSTALLATION

- 4.1 Install the lock hardware following the manufacturer's installation instructions. Do not remove the mineral wool blocks located at the sides of the lock mortise.

5 FINAL CHECK

- 5.1 Verify the door set and ensure all accessories operate correctly.
- 5.2 Check the operation of the door closer and adjust it if necessary, following the closer manufacturer's instructions.



APPENDIX 1. DOOR FRAME ASSEMBLY ON SITE

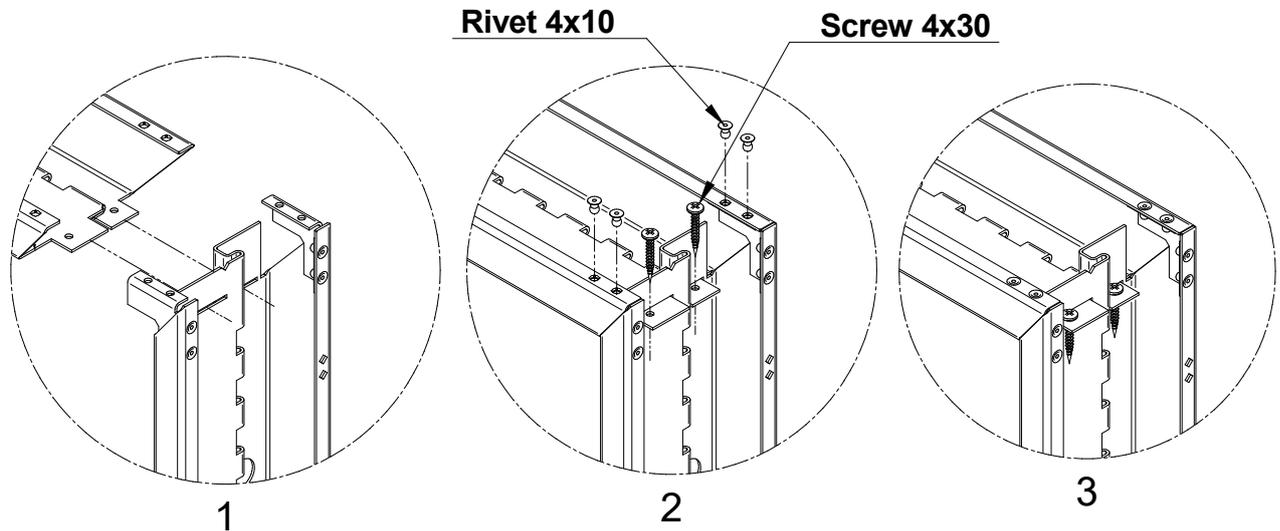


Figure 7. Door frame corner connections

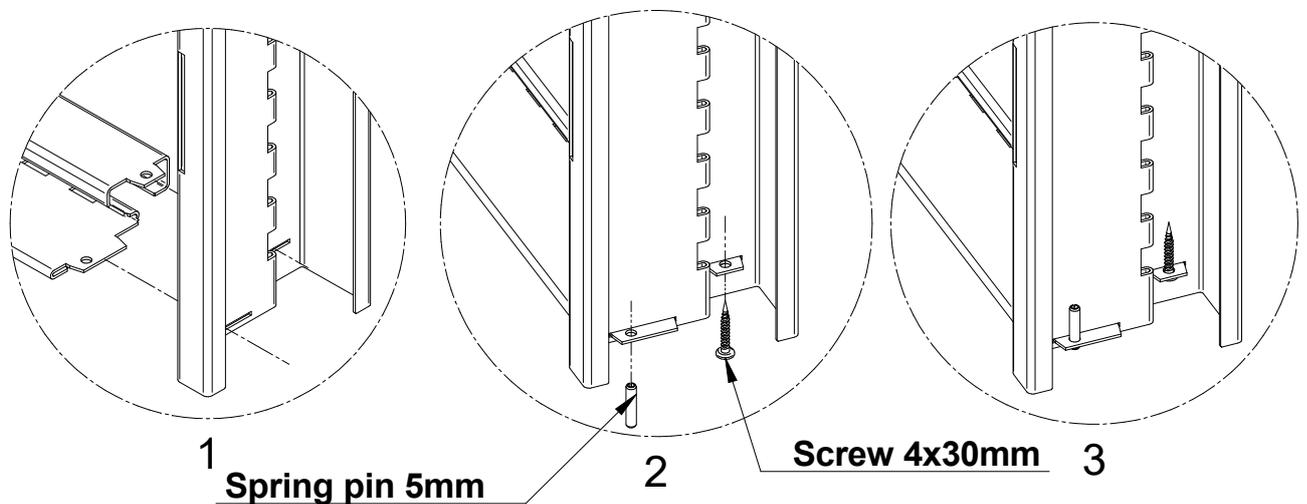


Figure 8. Threshold with dowel joints. Use spring pins for threshold tab heights under 10 mm; otherwise use screws

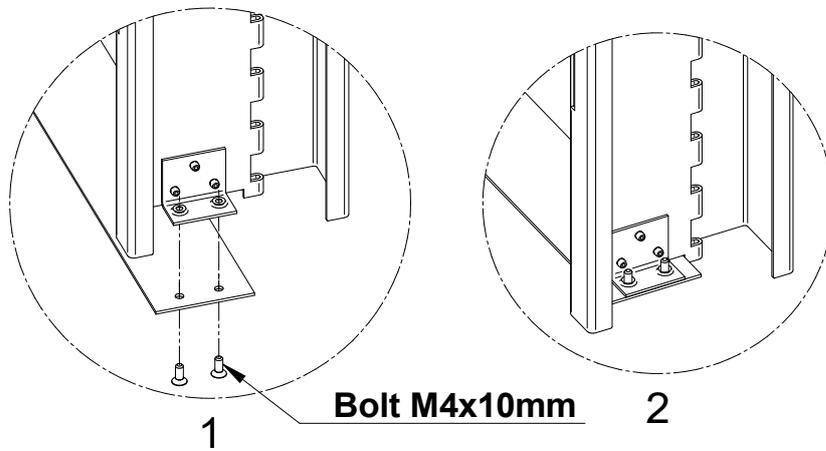


Figure 9. Fixing the threshold with bolts

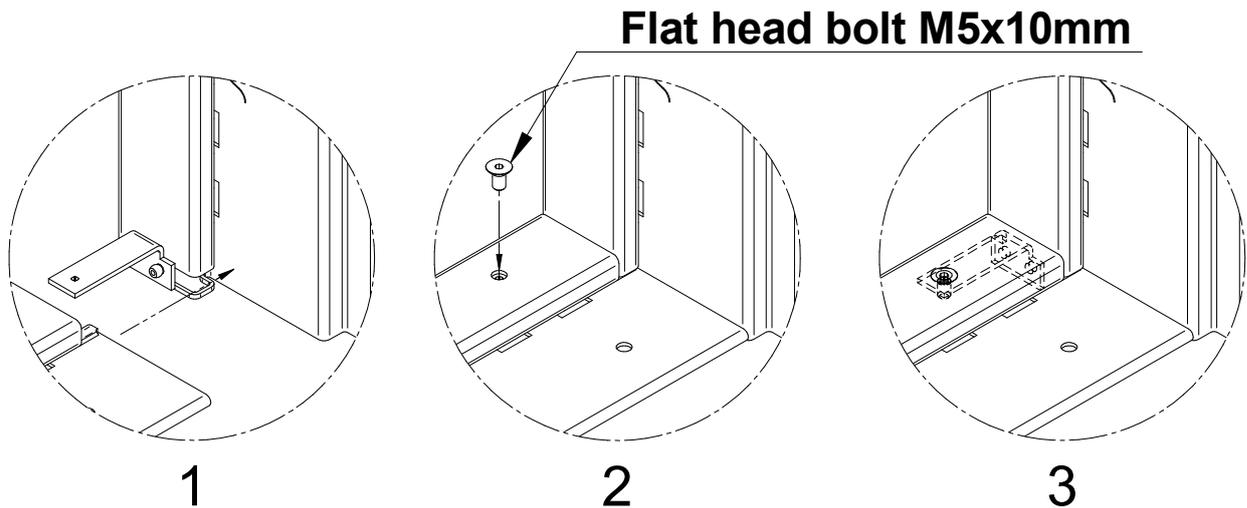


Figure 10. Removal of the removable threshold

APPENDIX 2. REMOVAL OF THE TEMPORARY THRESHOLD PROFILE

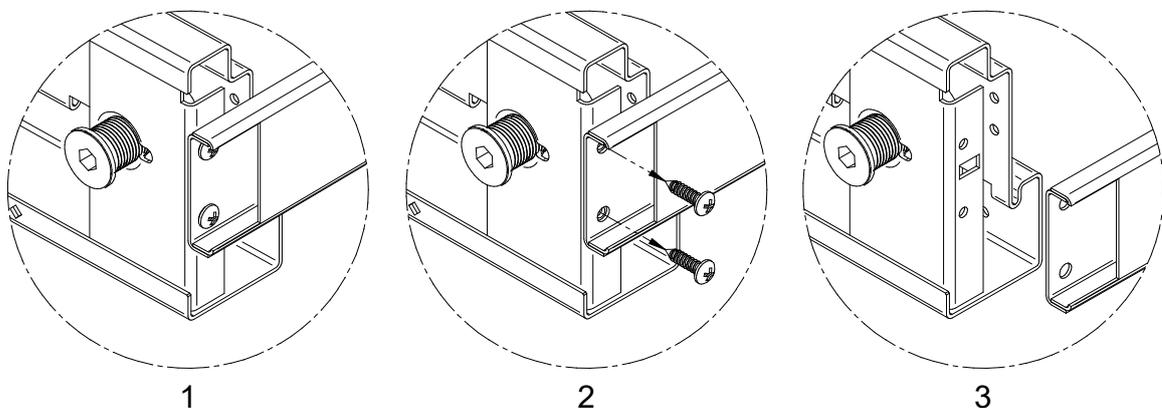


Figure 11. Removal of the temporary threshold profile