

Mounting instruction FSW-C / FSW-Cplus Folding Sliding Wall

1. Ceiling substructure and installation of the track rail

The entire track rail needs to be bolted over its full length to a properly aligned ceiling-mounted steel substructure.

The steel substructure should be dimensioned and designed to bear the total weight of all the panels.

The fixing point intervals for track rail attachment to the substructure should be approx. 100 mm in the stacking area and approx. 300 mm along the remaining track length.

The maintenance end section (a) can be detached for panel installation, removal and servicing.

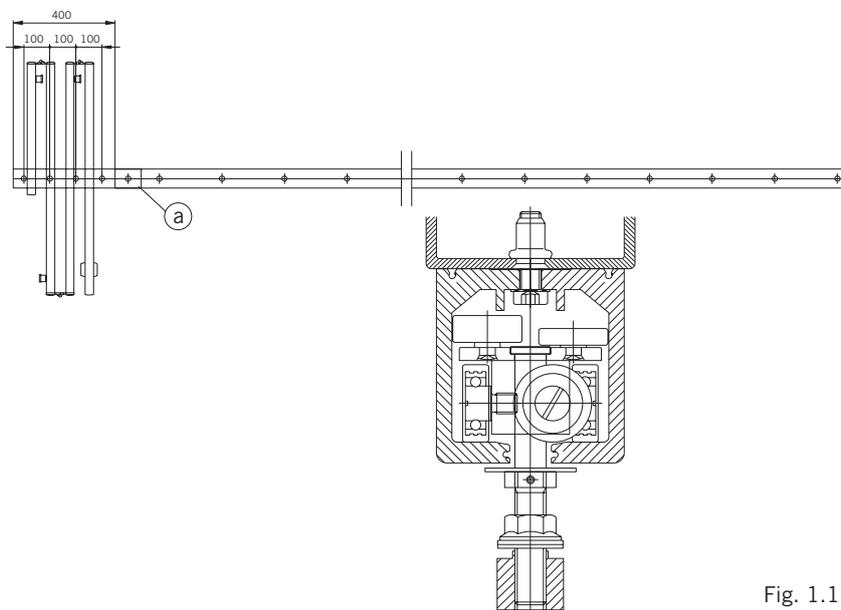


Fig. 1.1

2. Fitting the glazing rails with hinge to the glass panel

The glazing rail with a panel hinge section or frame hinge section consists of two segments that are bolted together. Before sliding the glazing rails onto the glass, slightly loosen the screw fasteners on the hinges and the glazing rails. Slide the top glazing rail with 2 mm padding onto the glass, and clamp tightly on both sides. Glass insertion length: 25 mm.

Slide the bottom glazing rail onto the glass, ensuring compliance with dimension A. Dimension A = total height less 353 mm.

When aligning the glazing rails, ensure that dimension A is the same from panel to panel. After aligning, firmly tighten the M8 hex socket fasteners on both sides so that the rail clamps the glass securely. Use a 5 mm Allen key, applying a tightening torque of 20 Nm. It is particularly important to clamp the top glazing rail correctly owing to its load-bearing function. If the system is likely to be subjected to vibration, silicone must be additionally applied to the glass panels in the area of the top glazing rail to provide adhesion complementary to the clamp action.

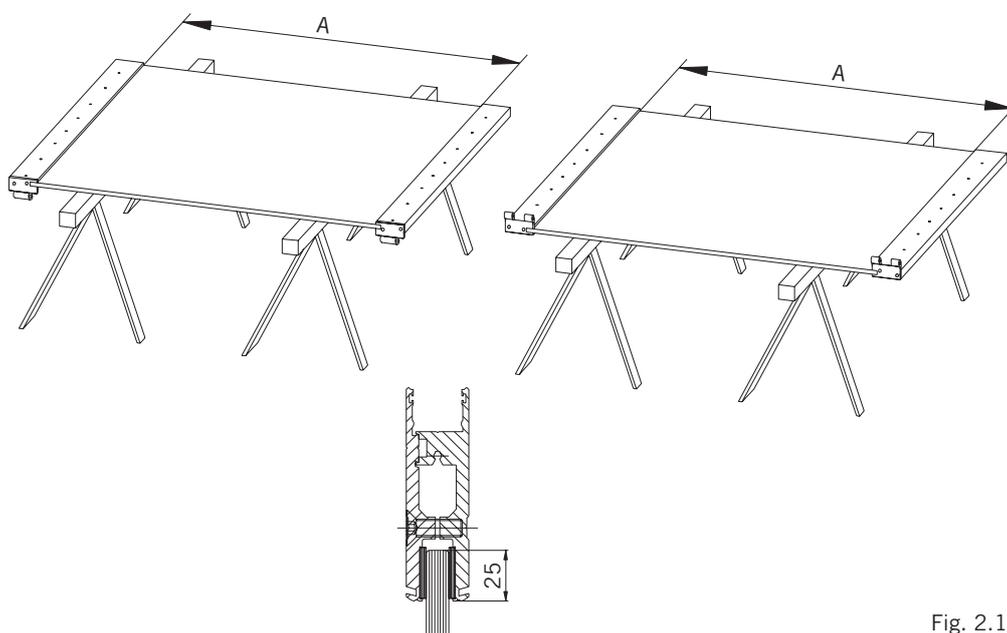


Fig. 2.1

3. Installing the folding end panel

Slide the top pivot assembly (a) of the end panel into the end of the track rail. Securely clamp the pivot assembly to the wall with a pivot offset of 67 mm (6 mm Allan key).

Install the floor pivot (Fig. 4, see next page), again with a 67 mm pivot offset.

In order to be able to hang the end panel, bolt (b) must first be wound down. Next fit the end panel by first inserting bolt (b) into the top pivot assembly (Fig. I) and then over the floor pivot (Fig. II).

Following installation, wind bolt (b) up until it comes into contact with the bottom of the rollpin (f), then turn it back one revolution (1 mm clearance); tighten nut (d) using a 17 mm open-jaw wrench. Next firmly tighten the set screw in the suspension block (c) using a 5 mm Allan key.

Fix safety plate (e) with bolt (g) onto the top pivot assembly; this prevents the glazing rails from falling down if the panel glass is broken.

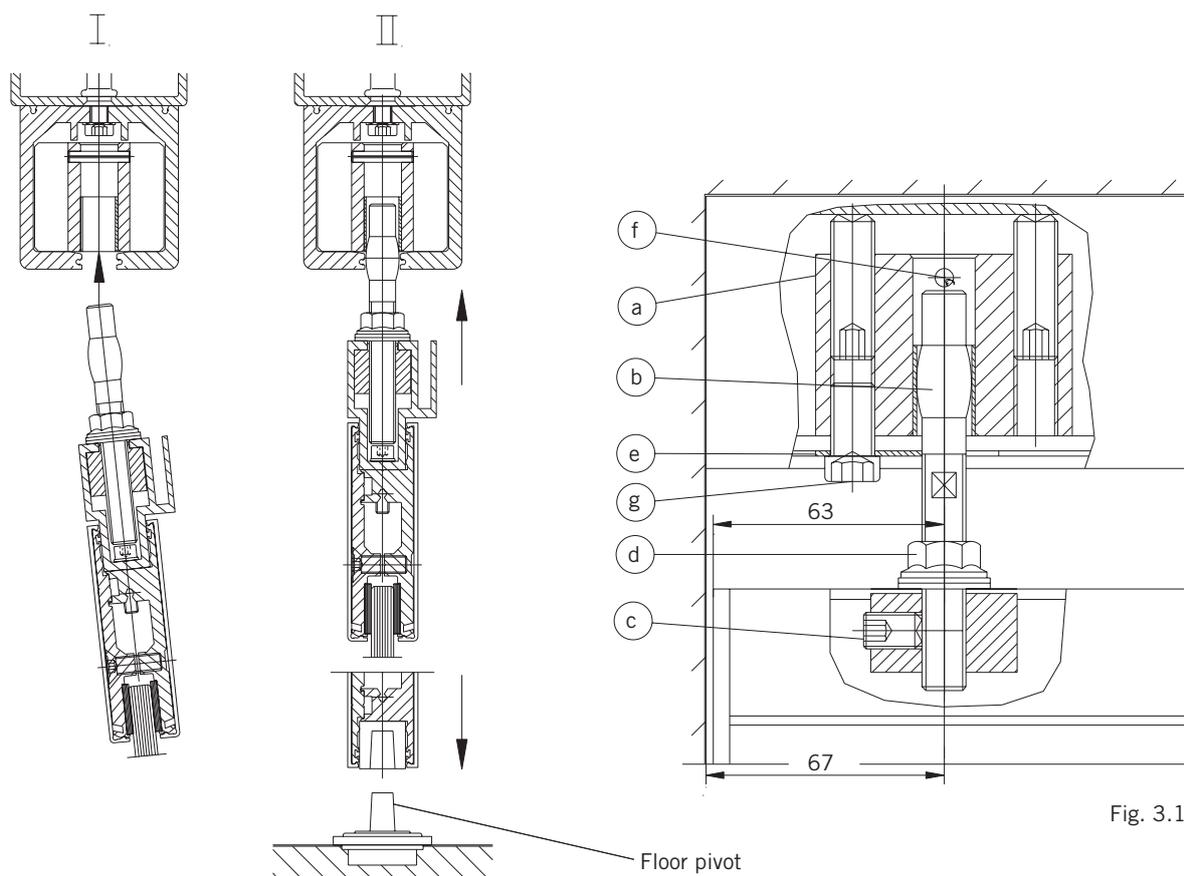


Fig. 3.1

4. Adjusting the floor pivot

Bottom floor pivot assembly for a pivoting end panel

The offset distance of 63 mm from the pivot point to the wall can be corrected by adjusting the floor pivot (a).

Loosen all three fixing screws (b), adjust the position of the floor pivot and re-tighten the screws.

Adjust the height using the shims (c) provided (3 shims of 1 mm thick each).

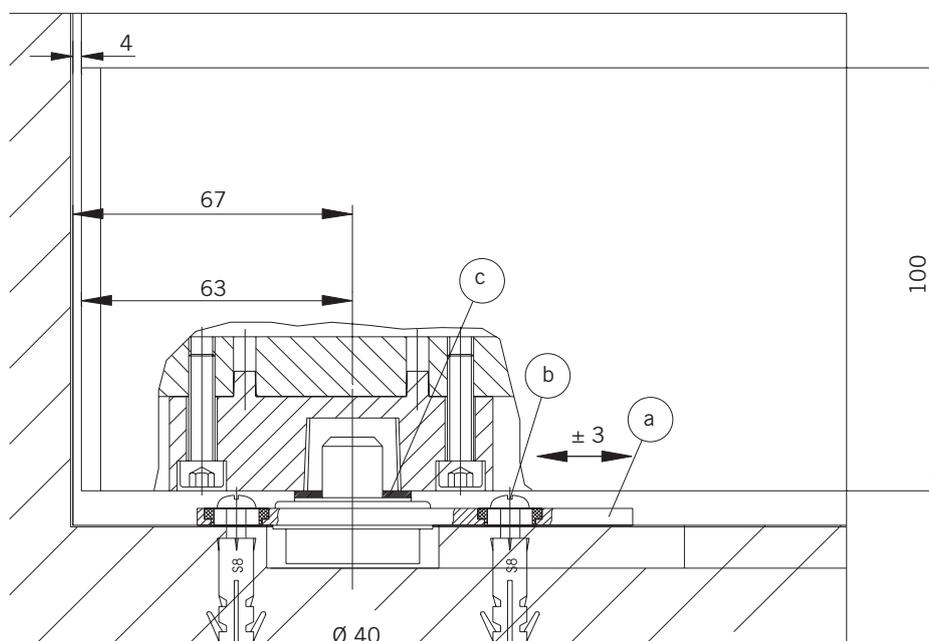


Fig. 4.1

5. Aligning the folding panels

Each panel, apart from the half end panel (a) and the access panel (b) if installed, is provided with a roller (c).

Slide the track rollers into the track. Loosen the M5 set screw (d) from the hinge and remove bolt (e).

Attach the next folding panel as follows:

Insert a 10 mm spacer block (f) underneath the bottom glazing rail and slide the suspension block (h) of the track roller

into the middle of the adapter profile. Lightly tighten the M12 nut (g) (17 mm A/F). Connect the top and bottom hinges

from one panel to another by inserting the bolt (e) through the frame hinge section (k) and the panel hinge section (l).

Ensure that the folding panels are positioned at the same height and secure bolt (e) with set screw (d).

Before mounting the next folding panel, support the system from below, e.g. using wooden wedges and then continue as described above.

Aligning the panel height:

The height of the panels must be aligned in such a way that underneath there is 10 mm clearance (without the cover profiles)

between the floor and the bottom glazing rail. Do not exceed the maximum dimension of 33 mm. If the clearance is greater

than 38 mm, reduce the 20 mm glass insertion length in the bottom rail (i.e. reduce the height of the bottom glazing rail).

To adjust the height of the panels, loosen nut (g) (17 mm open-jaw wrench) and adjust the height via nut (i).

Counter-clockwise rotation = more floor clearance

Clockwise rotation = less floor clearance

Connect the access panel to the final folding panel using hinges.

Then unfold the FSW-C/Plus and align by adjusting the roller position so that all the panels are at 90° and the folding panels are centered in relation to the track rail axis. Following completion of this adjustment work, secure the track rollers to the carrier profile by tightening nut (g).

Now the system can be closed again, the cover profiles clipped into position and the operating buttons of the bottom face-mounted slide bolts mounted.

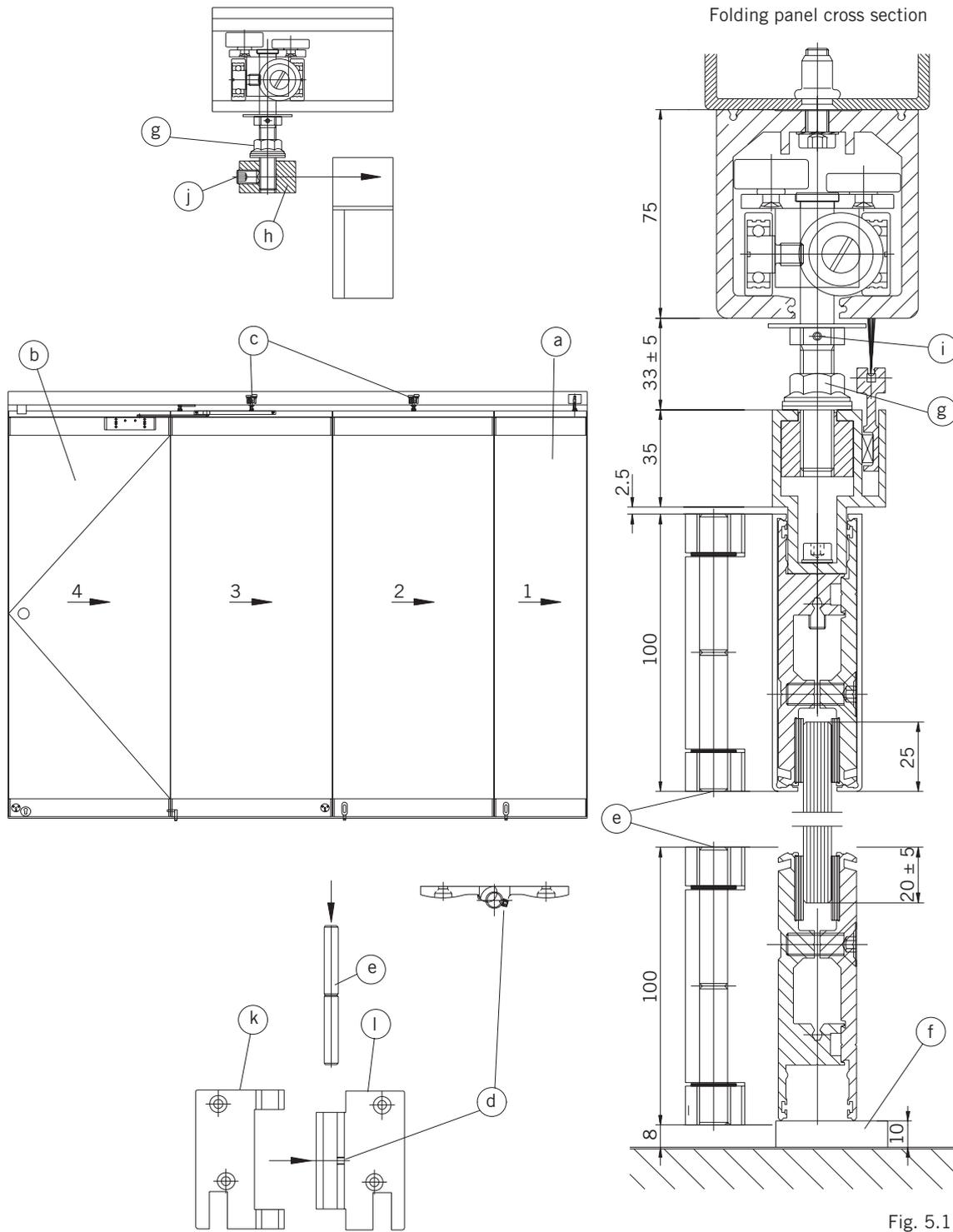


Fig. 5.1

6. Attachment of clamped stop (a) and stop plate (b)

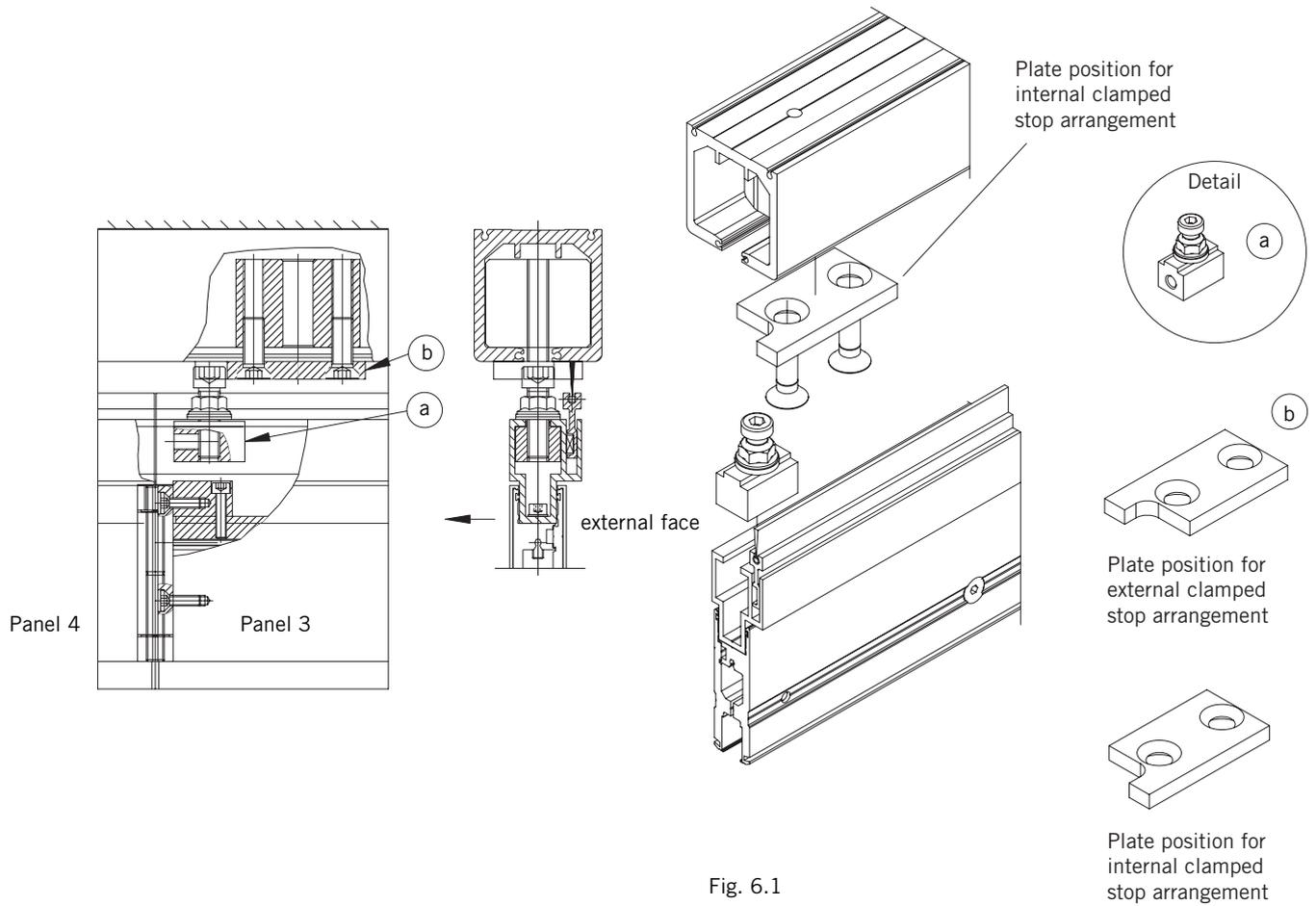


Fig. 6.1

7. Installing the TS 93 – G (FSW-Cplus)

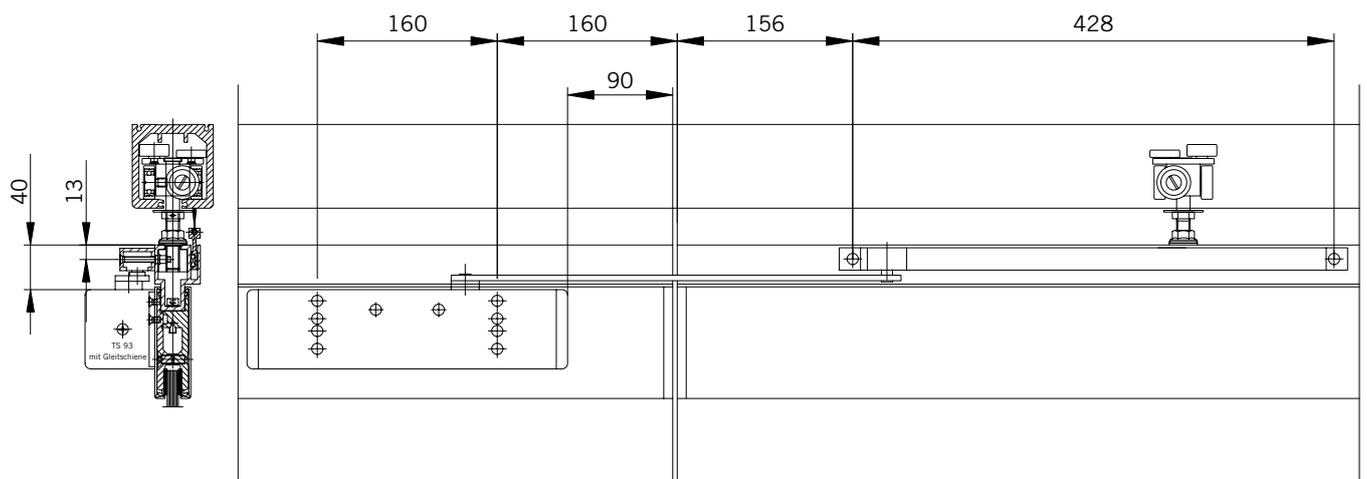


Fig. 7.1

8. Installation of the bottom magnetic holder

The TS 93-G and the magnetic holder are pre-drilled by DORMA-Glas. Following installation of the glazing rails and the cover plate, the two items merely have to be screwed-fixed into position.

The folding panels of the FSW system are held in their folded arrangement by the magnetic holder on each facing panel. The strength of the magnet's attraction can be modified by adjusting the countersunk screw (1), a quarter turn in the clockwise direction usually being sufficient to achieve an appreciable decrease in strength.

Caution: If this adjustment operation is performed too frequently, the screw adhesive lacquer loses its effect (screw can be turned too easily). If necessary, renew the screw adhesive lacquer.

During installation, the magnetic disc (2) must be centrally aligned to its counterpart in order to ensure maximum magnetic attraction. If the magnetic disc needs to be re-aligned, simply loosen the cheesehead screw a little, re-position the magnetic disc, and re-tighten the cheesehead screw.

Without lock:

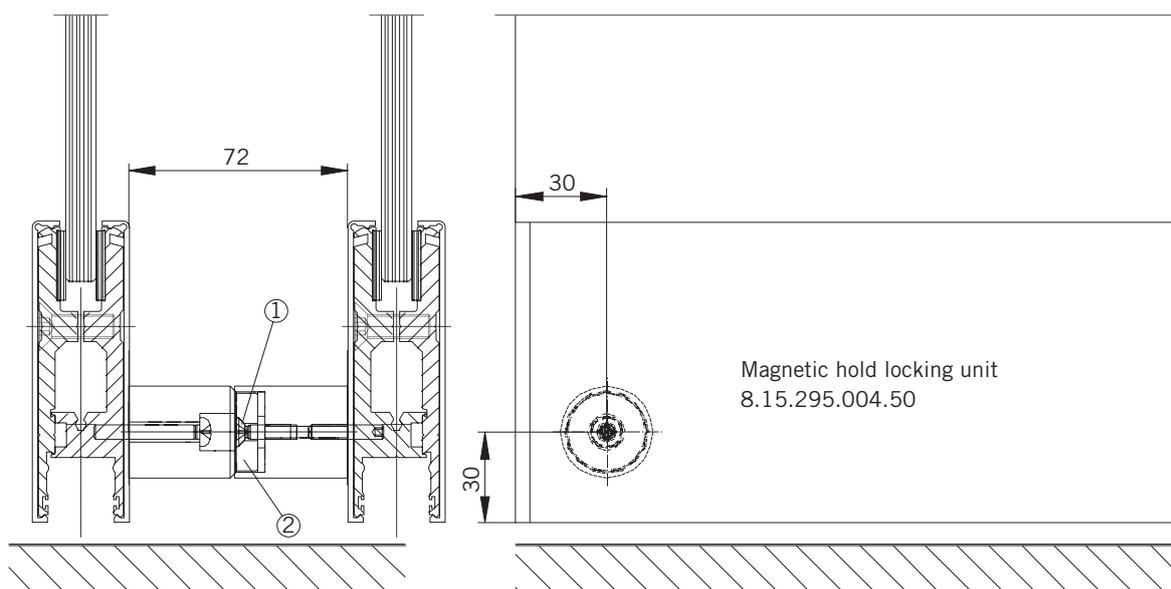


Fig. 8.1

With lock:

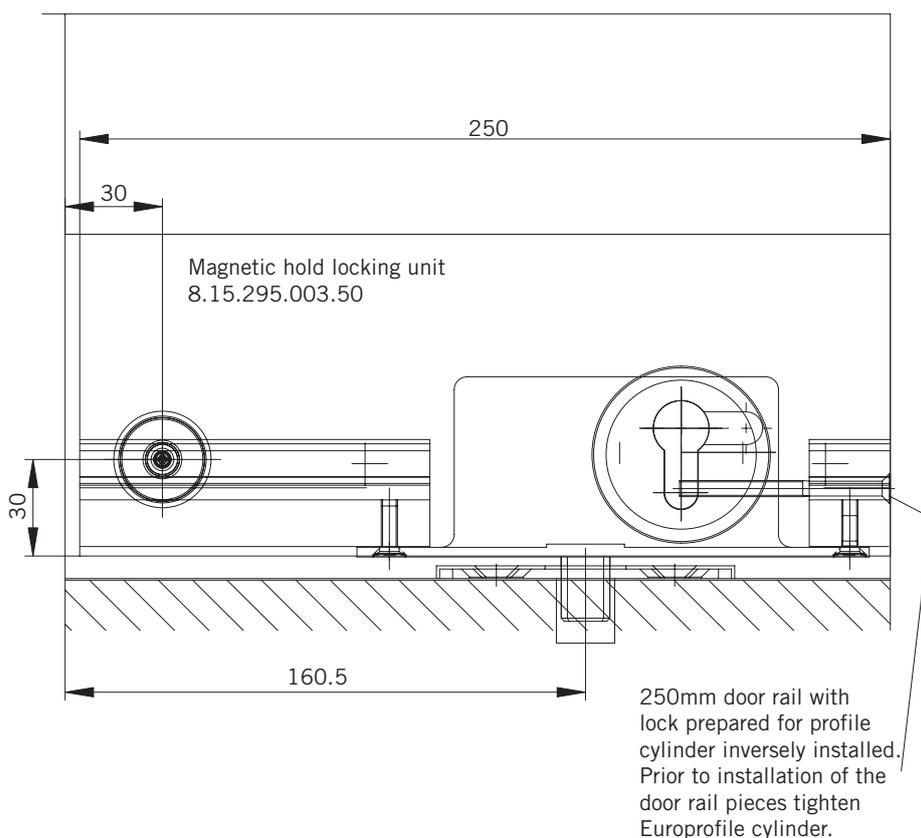


Fig. 8.2

9. Mounting the FSW lock mechanism (if required)

The top section (a) of the lock mechanism is supplied already screwed onto the track rail.
Wind the lock bolt (b) into the bottom section (c) to the maximum extent of travel and fix the bottom section to the adapter profile, leaving a gap of 22 mm from the top edge.

Then push in the caps (d).
(A centre lock with a panic/emergency escape function can also be used in conjunction with the top lock mechanism if required.)

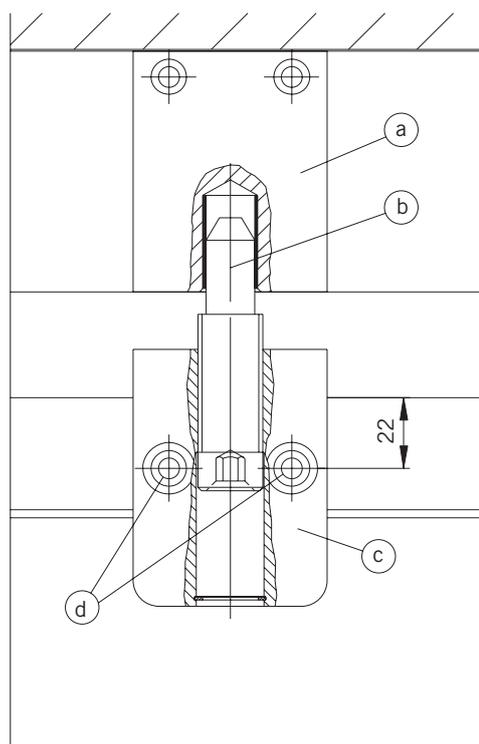


Fig. 9.1

10. Floor preparation

Eccentric sockets (floor keeps for lock bolts) are used as standard for the lock mechanisms.

a. Drill a hole 25 mm dia., 30 mm deep for eccentric socket, and 8 mm dia. for anchor plugs.

Align eccentric sockets (double eccentric) and fix with central screw.

b. Eccentric socket mounted in continuous recessed square-section tube.

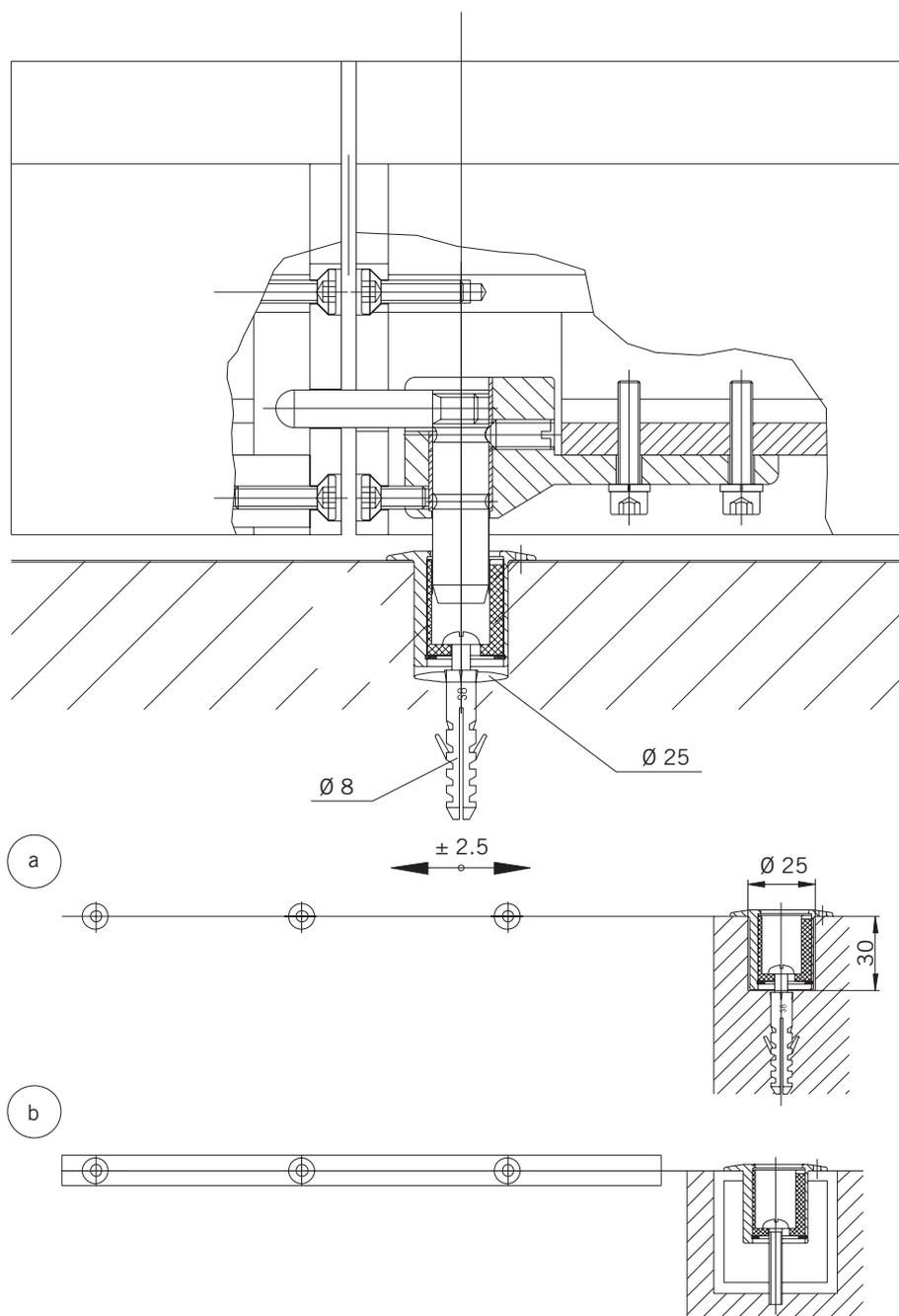


Fig. 10.1

11. Mounting the adjustable strike plate

Mark out the drilled holes as above and drill 25 mm dia. holes, at least 15 mm deep.
 In addition, drill 8 mm dia. holes spaced 55 mm apart for anchor plugs.
 Mount the strike plate. Bring the panel into position and lock.

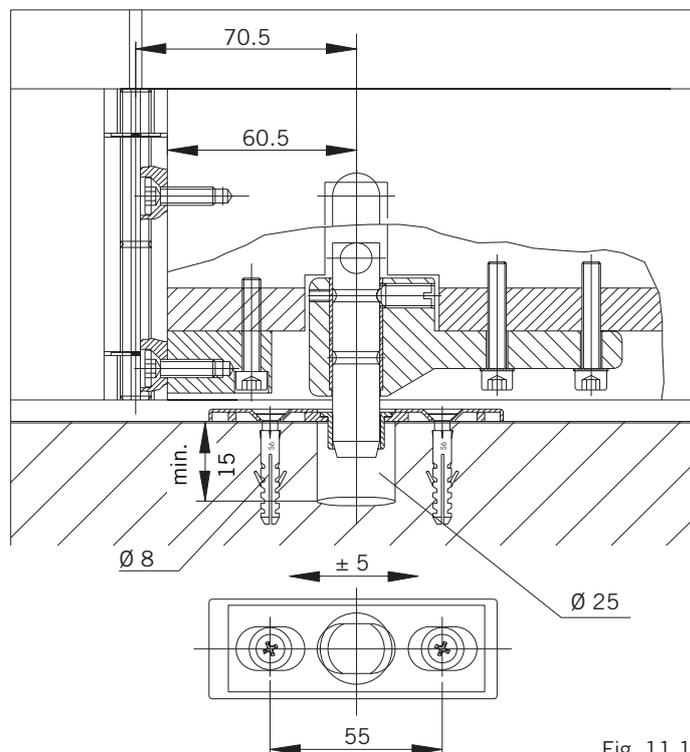


Fig. 11.1

12. Mounting the top brush

Insert the top brush profile (a) into the top adapter profile (b), align so that the brush lies flat against the track rail profile (c), and secure the brush profile left and right with a plastic wedge (d).

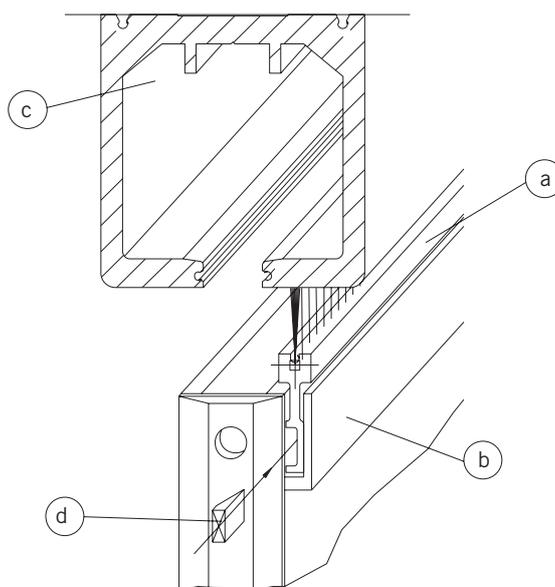


Fig. 12.1

13. System maintenance

In order to ensure functional reliability over the long term, please comply with the following instructions:

1. Ensure that locks and slide bolts are kept in good working order.
2. Regularly clean keeps for locks and bolts located in the floor.