

Installation instructions HSW-G

Track rail 72 x 75 mm

1. Ceiling substructure for track rail and installation of the track rail:

The track rail must be bolted over its entire length (including the stacking track area) to a correctly aligned horizontal (longitudinally and transversely) ceiling steel substructure (e.g. DORMA substructure system).

The steel substructure should be designed to accommodate the total weight of all the panels both in the stacking area and in the partition section. The fixing point intervals for the track rail should be approx. 300 mm along the straight sections and approx. 100 mm in the stacking area.

Caution: All the track joints (except the maintenance end piece, Figure 7) must be provided with connection pins (a) in order to ensure a flush transition between the track sections and thus smooth sliding panel operation. (Fig. 1)

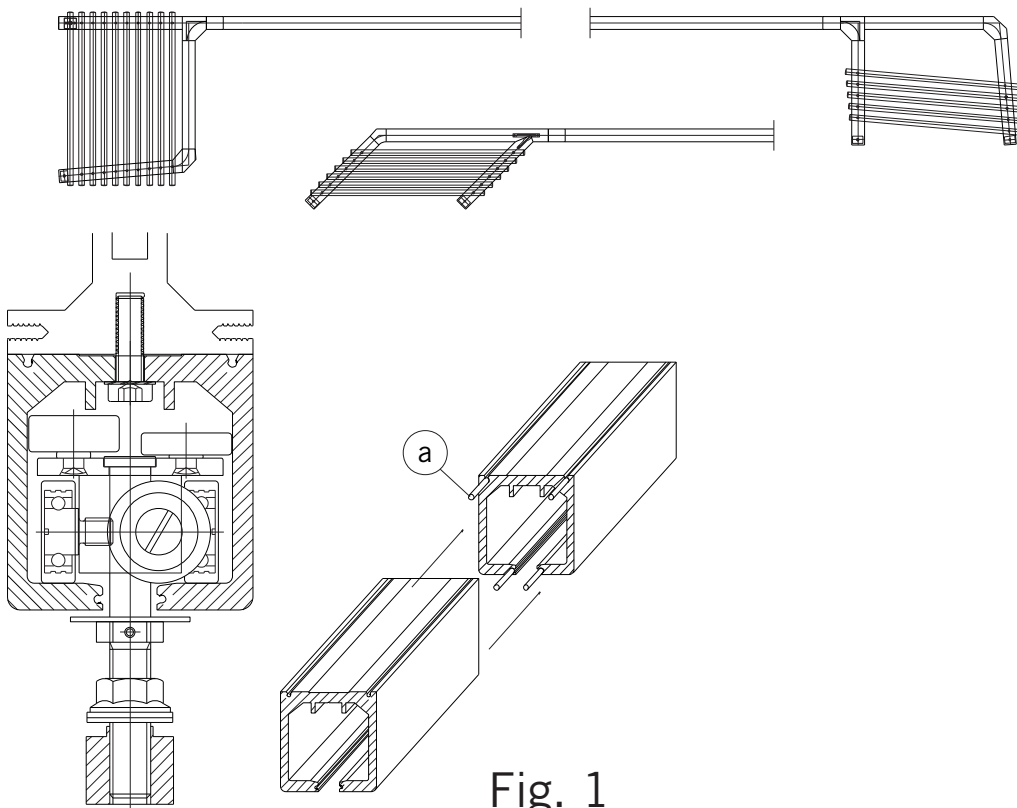


Fig. 1

2. Mounting of floor spring (BTS) (Fig. 2):

For the floor spring (BTS), a recess must be provided (see drawing) which is subsequently covered with a stainless steel plate.

- a) Recess of double action end panel
- b) Recess of double action sliding panel

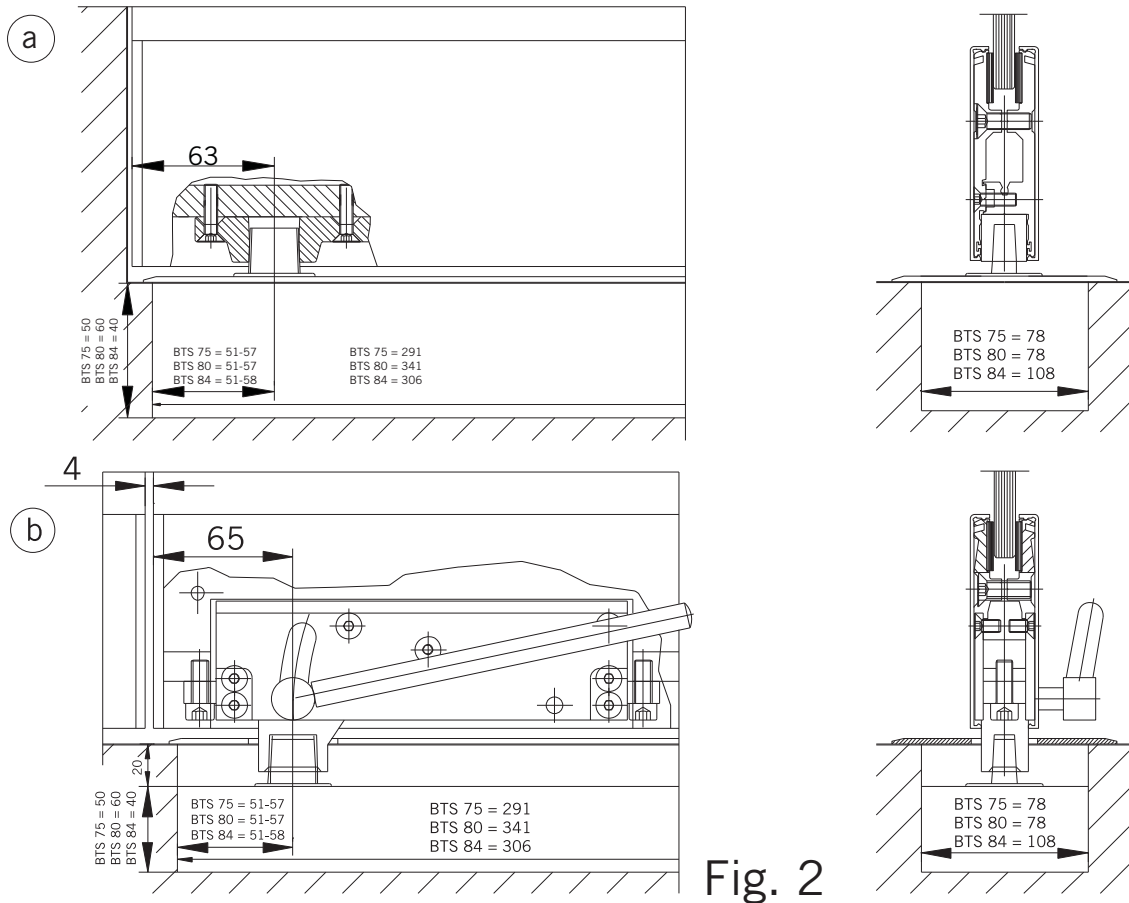


Fig. 2

3. Fitting the door rails to the glass panel (Fig. 3):

The door rail consists of two sections which are bolted together and slid over the glass. After aligning the door rails (taking into consideration that the thickness of the end covers is 4.5 mm on both sides), firmly tighten the M8 hex socket screws on both sides so that the rails clamp the glass securely (5 mm Allan key).

The tightening torque should be 20 Nm.

It is particularly important to clamp the upper door rail correctly due to its bearing function. If the system is likely to be subjected to vibration, silicone must be applied to the glass panels at the upper door rail for added adhesion at the clamped connection! When the door rails have to be separated, e.g. for a floor lock, align the door rails with the auxiliary cover profile and clamp securely.

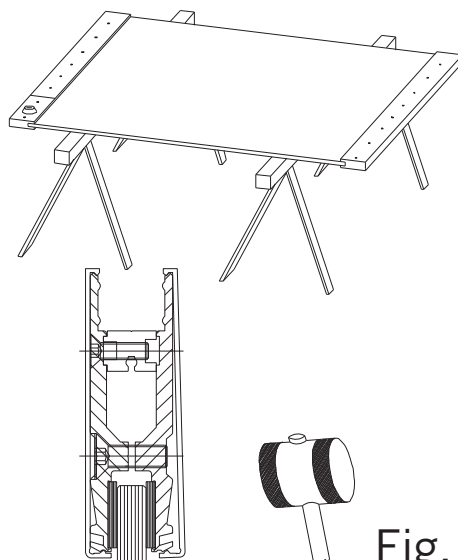


Fig. 3

4. Installing the end panel (Fig. 4):

Slide the upper pivot assembly (a) of the end panel into the end of the track rail.

Securely clamp the pivot assembly in position at a distance of 67 mm (between the pivot point and the wall) using a 6 mm Allan key.

Install the floor pivot (Fig. 5) or floor spring (BTS) at a distance of 67 mm between the pivot point and the wall. In order to be able to suspend the end panel, bolt (b) must first be wound down. Next erect the end panel by first inserting bolt (b) into the upper pivot assembly (Fig. I) and then setting the panel down onto the floor pivot or floor spring (Fig. II).

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

Fix securing plate (e) with bolt (g) onto the upper pivot assembly.

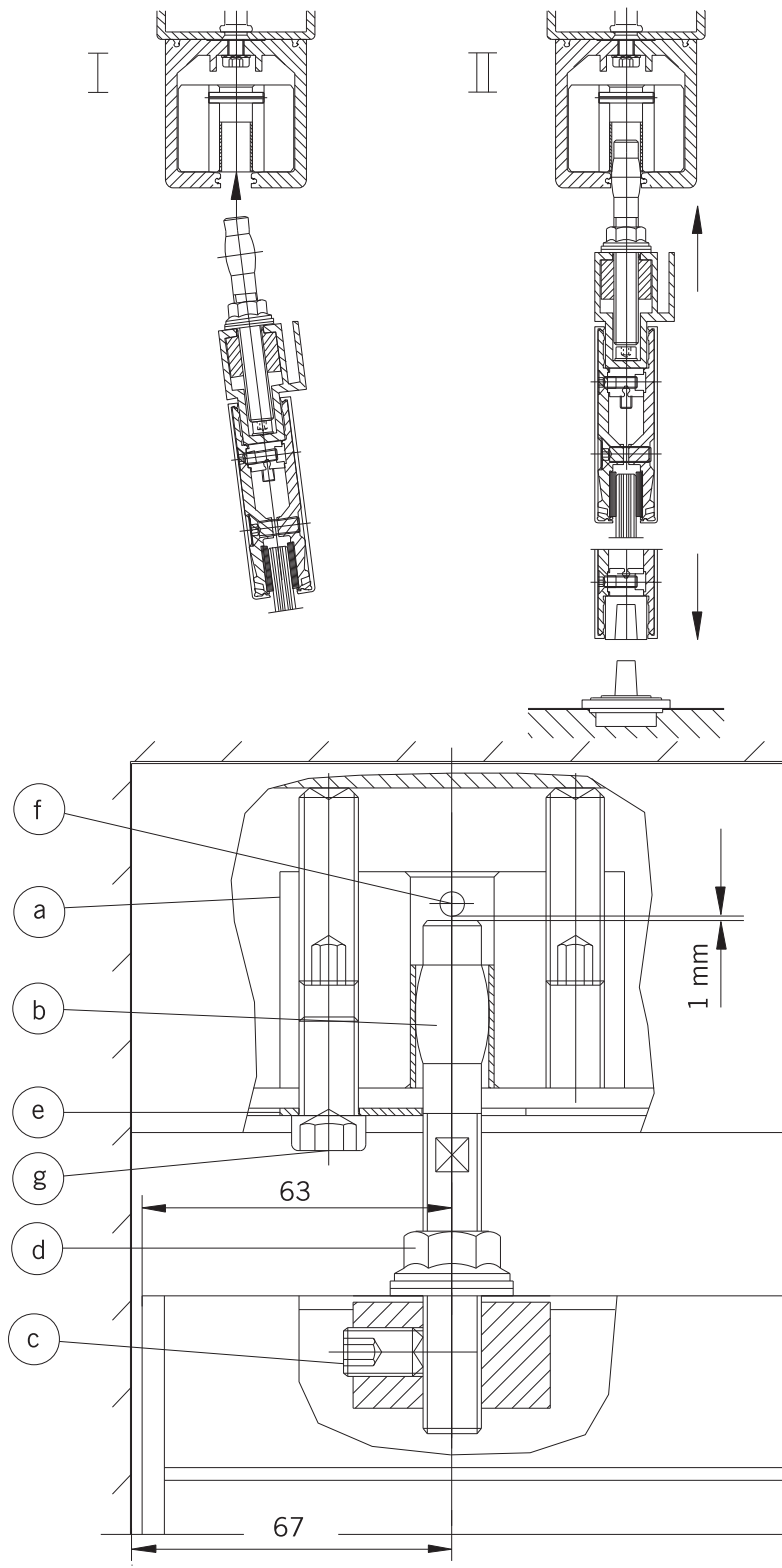


Fig. 4

5. Floor pivot assembly for pivoting end panel (Fig. 5):

The distance of 63 mm can be corrected by adjusting the floor pivot (a). Loosen the 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).

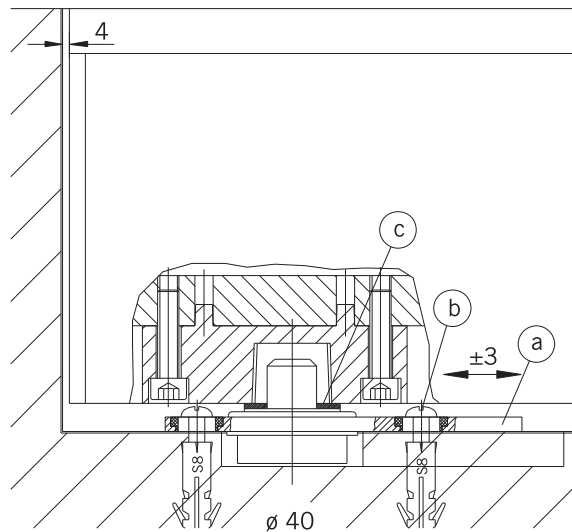


Fig. 5

6. Pivoting end panel with TS 73 top door closer (Fig. 6):

Mount the closer (a) in accordance with the installation instructions provided, taking care to adhere to the distance of 205 mm.

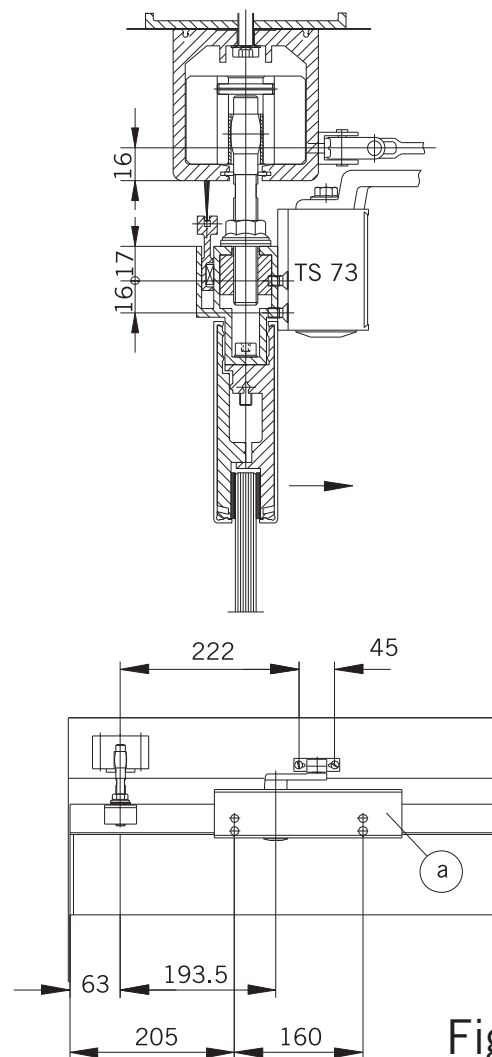


Fig. 6

7. Maintenance end piece (Fig. 7):

The maintenance end piece (b) can be removed for the replacement of defective rollers.
The maintenance end piece must always be re-attached.

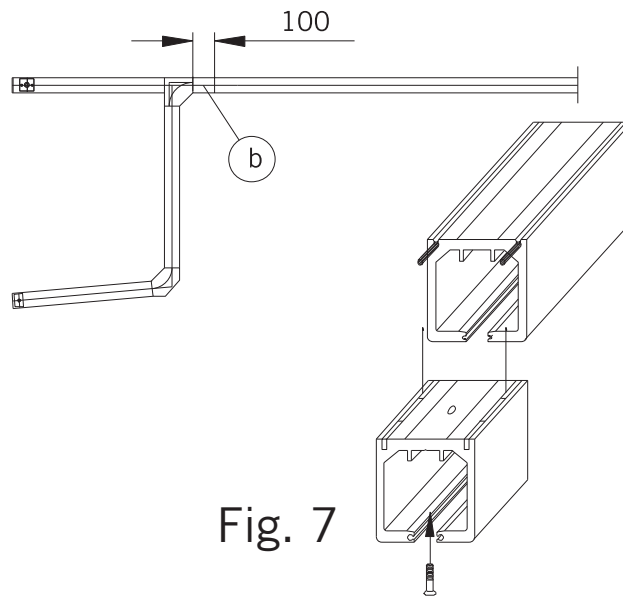


Fig. 7

8. Track roller arrangement (Fig. 8):

Only one roller type is provided for each panel.

The arrangement of the rollers is of decisive importance at the stacking area entry point.

A Roller for straight-through section = high track rollers (a), external

B Roller for diversion to internal stacking area track = high track rollers (a), internal, on the side of the stacking area

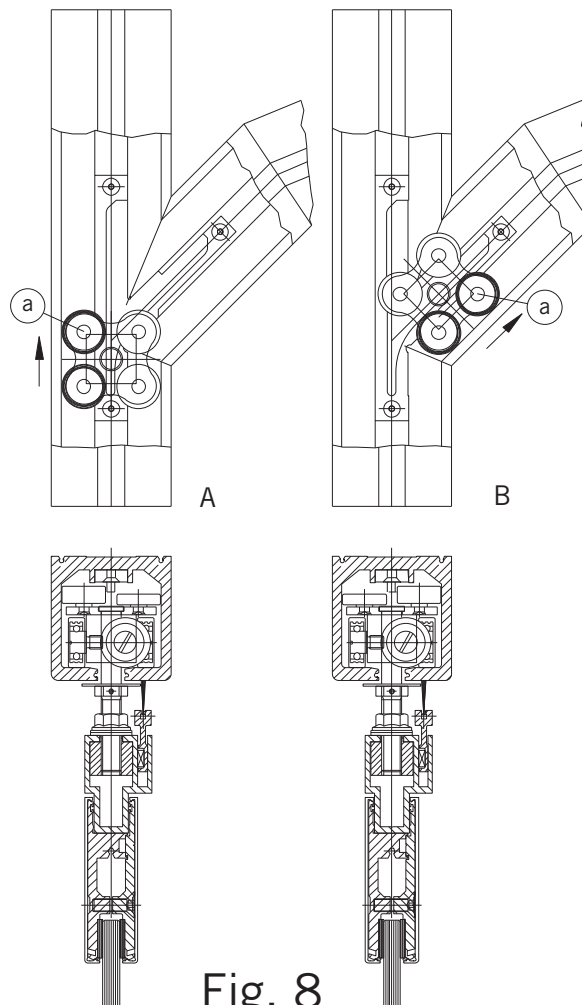


Fig. 8

9. Threading the panels (Fig. 9):

Slide the track rollers with suspension blocks (a) of all the panels into the track rail. Observe the correct track roller arrangement, as described in Section 8!

Next place a panel on an 8 mm spacer block on the floor underneath the track rail and insert suspension blocks (f) into the adapter profile (c). The set screw must point outwards (Fig. 11 – (c)).

Aligning the panel height:

The height of the panels must be aligned to create a 10 mm clearance (without the cover profiles) between the floor and the bottom door rail.

Ensure that the top clearance is 33 ± 5 .

If the clearance is greater than 38 mm, reduce the 20 mm glass insertion length in the bottom door rail (lower the bottom door rail).

To adjust the height of the panels, loosen nut (d) and adjust the height via nut (e) (using a 17 mm open-jaw wrench).

Counter-clockwise rotation = more floor clearance

Clockwise rotation = less floor clearance

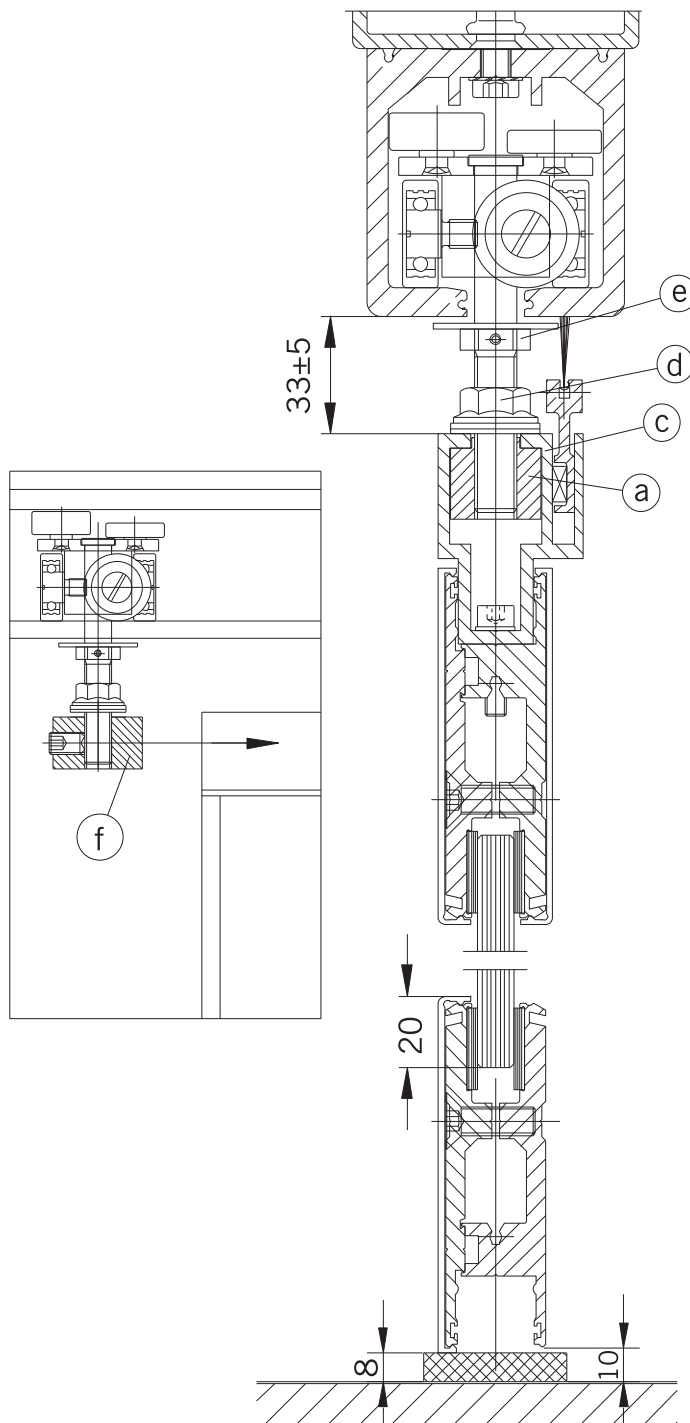


Fig. 9

10. (Fig. 10)

Loosely tighten nut (b), bring the panel into the stacking area, loosen nut (b) and align the panel in the stacking area. Re-tighten the nut and lock with M10 set screw (using 5 mm Allan key). Nut (a) can only be used to adjust the height.

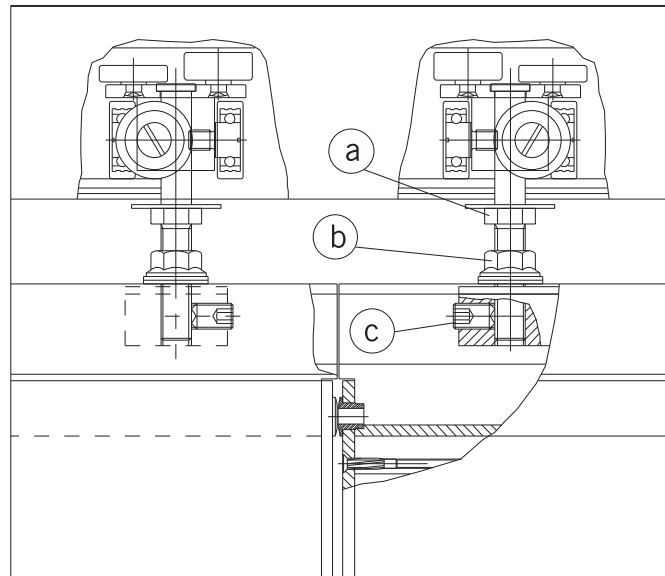


Fig. 10

11. Example installation with 5 panels (Fig. 11):

F1 = Pivoting end panel with TS 73 door closer

F2 = Sliding panel

F3 = Pivoting sliding panel with TS 92 door closer

F4 = Double action sliding panel with floor spring (BTS)

F5 = Double action sliding panel with RTS 85 transom concealed hydraulic door closer

Lateral alignment of the panels:

Align end panel F1 to provide a 4 mm clearance from the wall (as in Section 4, using nut (d)). Slide the last panel F5 to its end position. Measure the gap from panel F1 to panel F5. (As in this example the gap must be $5 \times \text{panel width} + 6 \times 4 \text{ mm clearance}$.) Next screw on end covers and clamp on cover profiles.

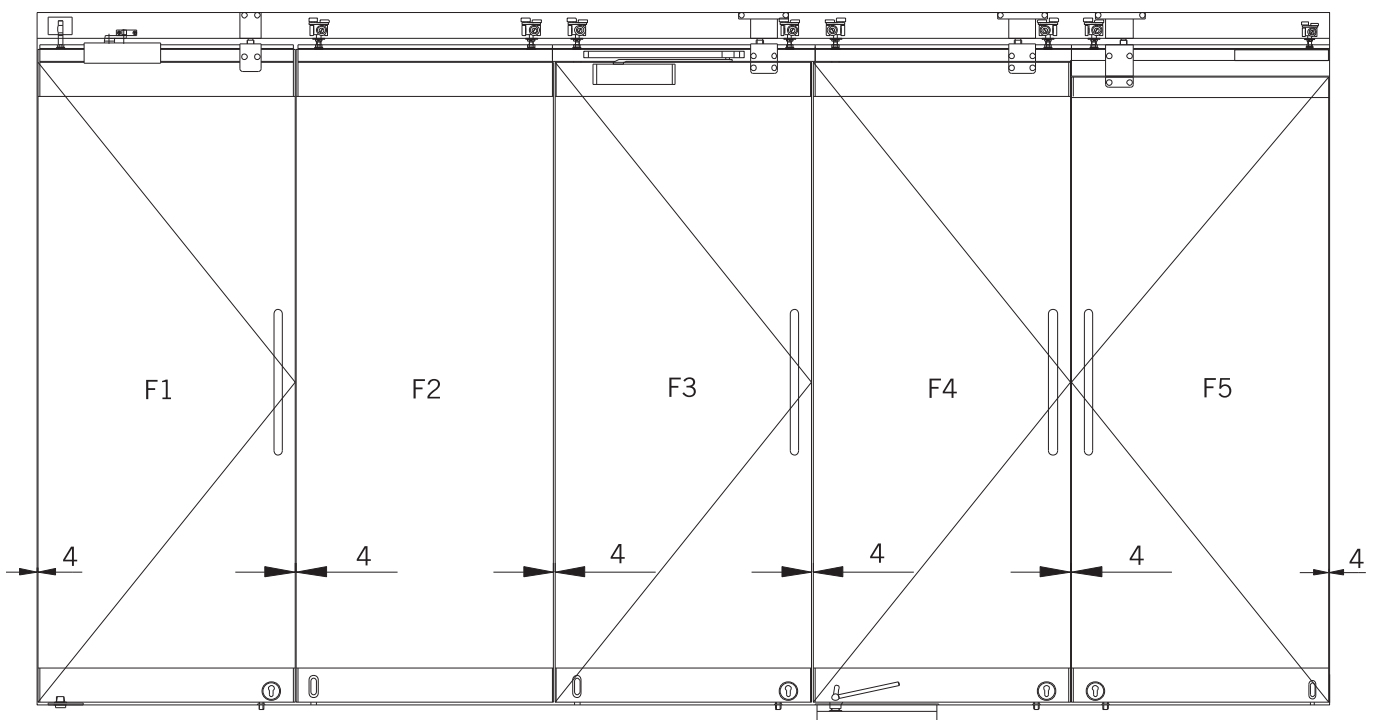


Fig. 11

12. Connection options (Fig. 12):

1. Pivoting end panel with sliding panel
2. Sliding panel with sliding panel
3. Double action sliding panel with double action sliding panel
4. Sliding panel with double action sliding panel

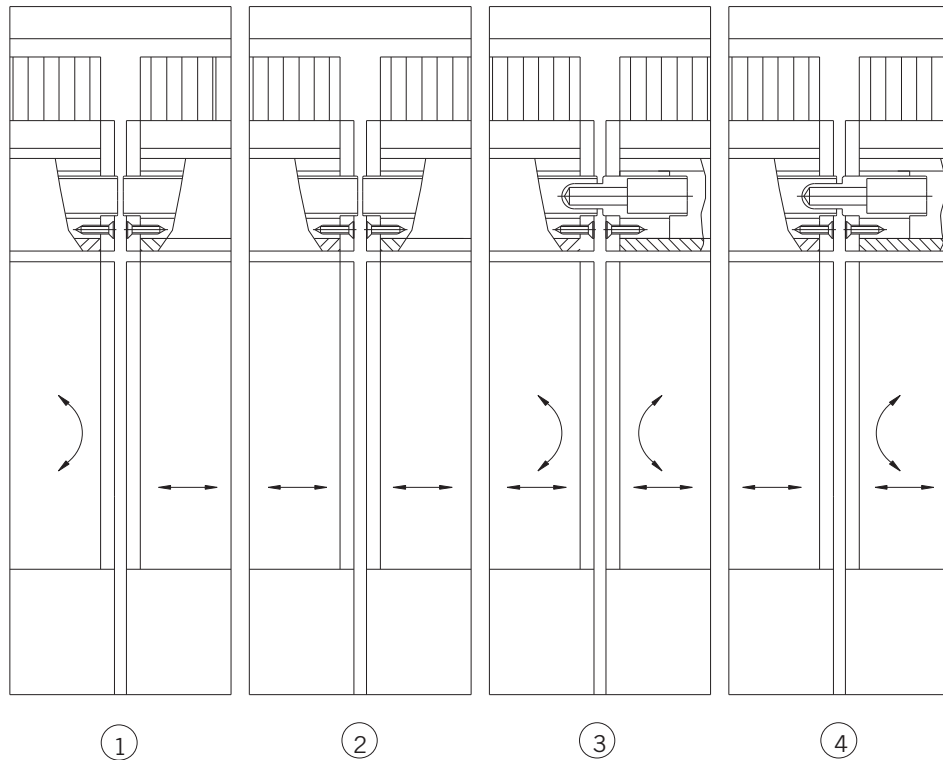


Fig. 12

13. Mounting the lock mechanism (Fig. 13):

The top section (a) is supplied already fixed to the track rail. Similarly, the middle section (b) and the bottom section (c) are pre-mounted on the adapter profile and the top door rail respectively.

Check that locking bolt (d) can be screwed easily into the top section (a). If not, loosen screws (e) and re-align the top section (an adjustment of ± 15 mm is possible). The distance (f) must be 3.5 mm for a pivoting sliding panel and 4.5 mm for a double action sliding panel!

Ensure that the distance between the middle and bottom sections of the lock mechanism is not greater than 2.5 mm! If it is, loosen screws (g) and re-align the bottom section. Then press in the plugs.

If required, e.g. when using a pivoting end panel with a TS 92 door closer, an additional stop can be screwed onto the bottom section of the lock mechanism.

With a pivoting end panel: end cover with a stop.

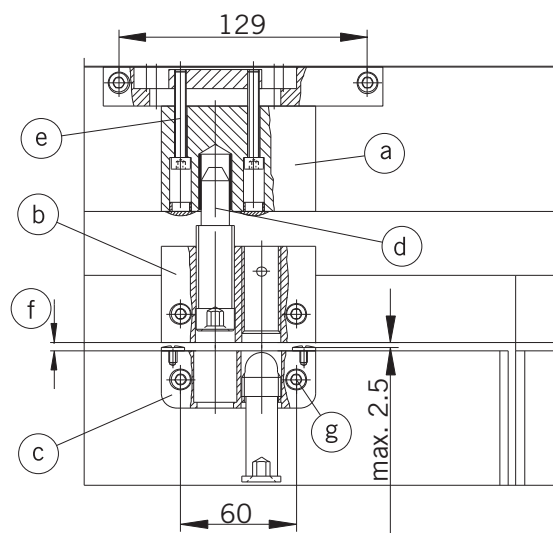


Fig. 13

14. (Fig. 14):

Adjustable strike plate for pivoting sliding panel with TS 92 door closer and double action sliding panel with RTS 85 transom concealed hydraulic door closer with plastic bushing for the bearing assembly. Drill 25 mm dia. hole for strike plate/keep at least 15 mm deep, 65 mm (for door holders) and 98.5 mm (for floor locks) from the outside edge of the panel. In addition, drill 8 mm dia. holes spaced 55 mm apart for anchor plugs.

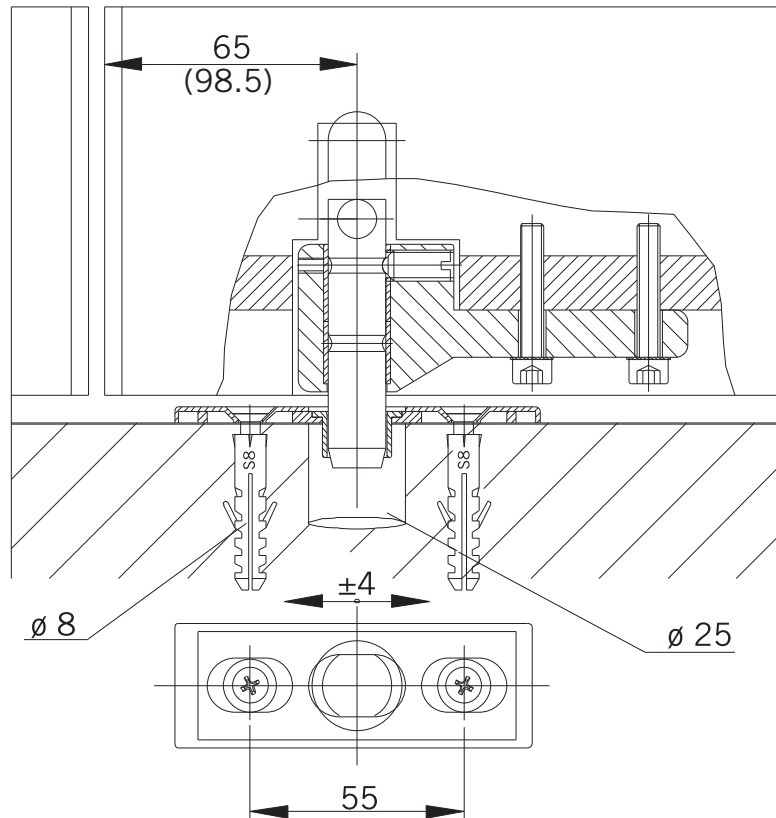


Fig. 14

15. (Fig. 15):

Adjustable eccentric sockets (standard system) with plastic inner sleeve for all door holders, floor locks and bearing assemblies. Drill hole 25 mm dia., at least 30 mm deep for eccentric sockets, 65 mm (for door holders) and 98.5 mm (for floor locks) from the outside edge of the panel. In addition, drill 8 mm dia. holes at the centre for anchor plugs.

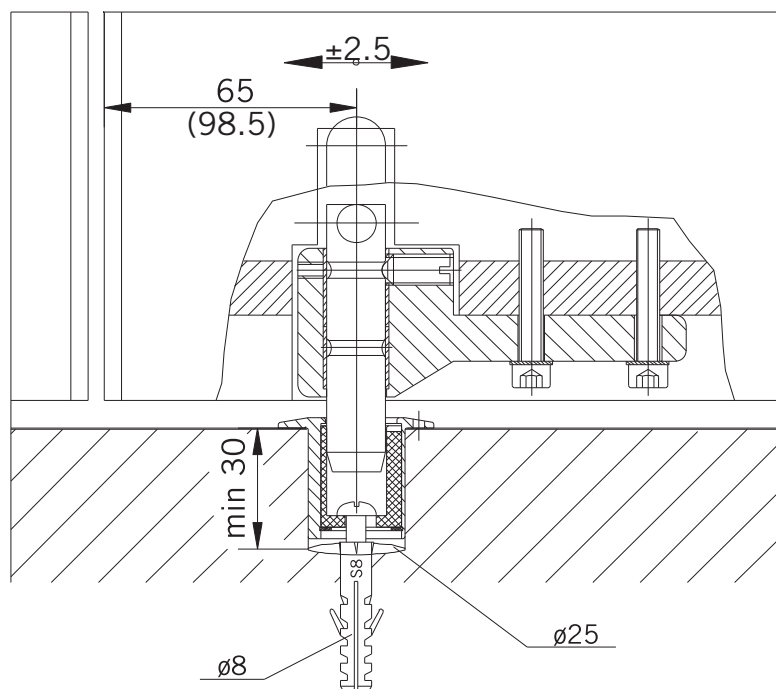


Fig. 15

16. Floor preparation

The standard system uses eccentric sockets (keeps) for bottom locking.

- A** Drill holes 25 mm dia., 30 mm deep for eccentric sockets, and 8 mm dia. for anchor plugs. Insert eccentric sockets (double eccentric), align and fix with central screw in anchor plug.
- B** Mount eccentric sockets in continuous recessed channel.

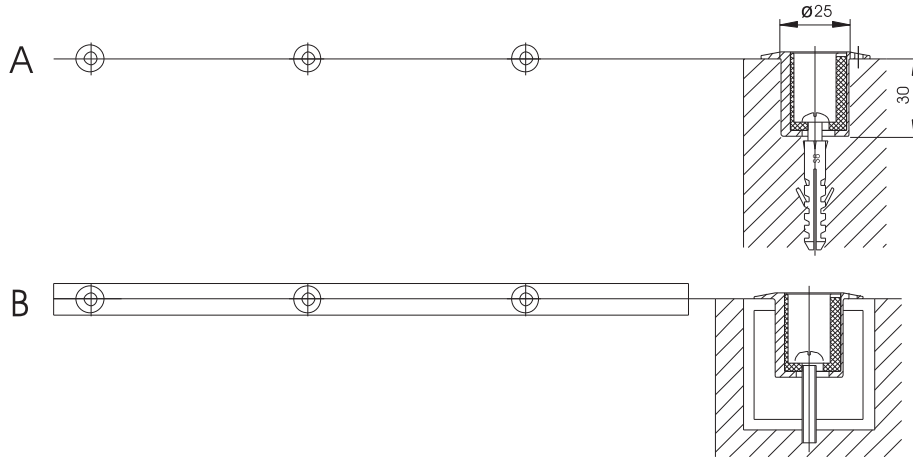


Fig. 16

17. Mounting the double action sliding panel with RTS 85 transom concealed hydraulic door closer (Fig. 17):

Insert the RTS 85 (bolted on the RTS profile) into the RTS spindle recess (a) of the 56 mm door rail (b) and clamp securely using clamping plate (c).

Gradual alternate tightening of the clamping plate will ensure that the cylindrical pin does not become bent or jammed in the plate.

Next clip on cover profile (d).

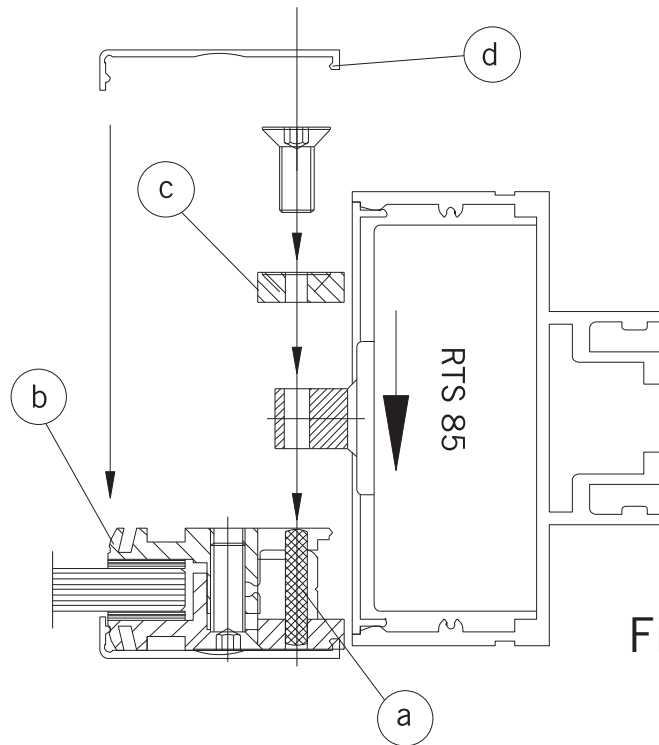


Fig. 17

18. (Fig. 18):

Insert the upper brush profile (a) into the upper adapter profile (b), align so that the brush is in contact with the track rail profile (c) and secure the brush profile on the left and right with a plastic wedge (d).

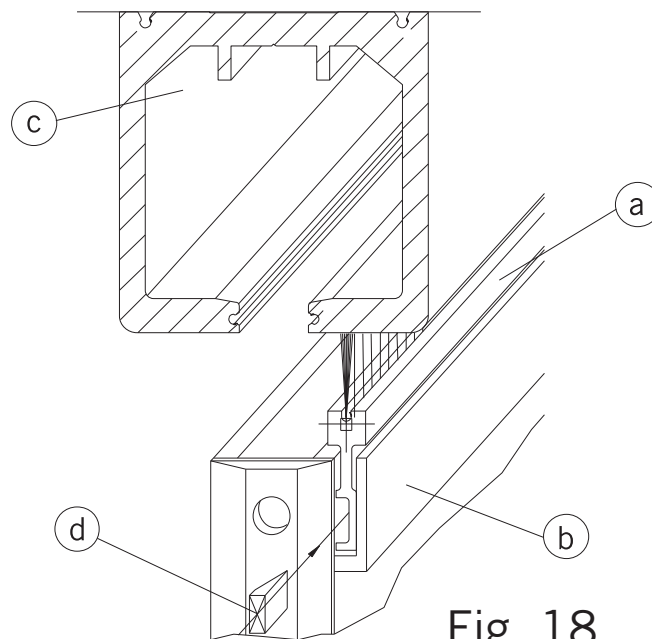


Fig. 18

19. Change-over sequence (Fig. 19):

- for pivoting sliding panel with TS 92 overhead door closer and
- for double action sliding panel with RTS 85 transom concealed hydraulic door closer

I. Switching from sliding/double action motion to pivoting motion:

- A Screw locking bolt A fully into the middle section
- B Slide the front door holder button B upwards to disengage
- C. Unscrew in locking bolt C from the top section

II. Switching from sliding motion to pivoting motion:

- C. Screw locking bolt C fully into the top section
- B. Secure the front door holder B in the strike plate
- A. Unscrew the locking bolt A from the middle section

During switch operation II, if step A is carried out first inadvertently, the panel will sink down and must be raised up again. Then proceed as above.

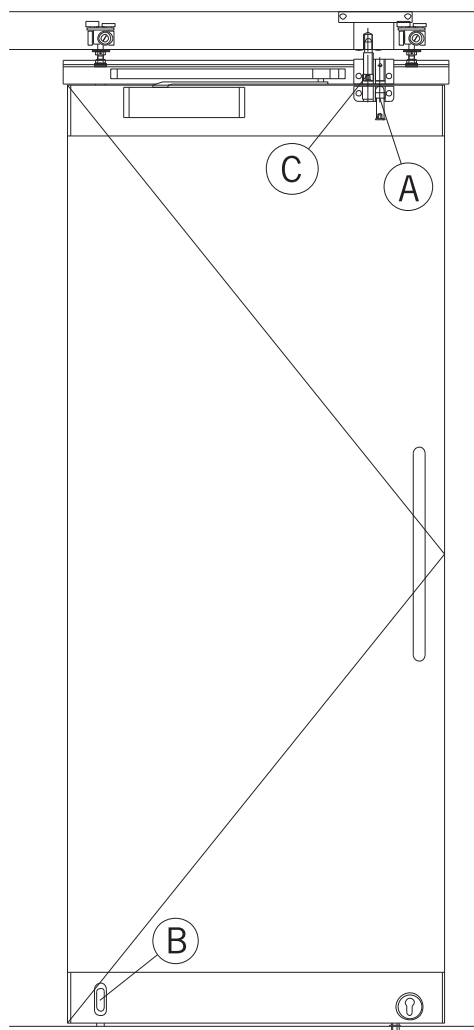
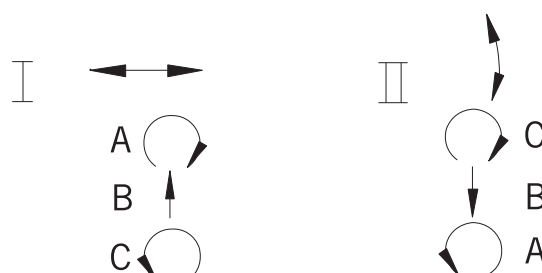


Fig. 19



20. Change-over sequence (Fig. 20):

- for double action sliding panel with floor spring (BTS) connector

- I. Switching from double action motion to sliding:
 - A. Screw locking bolt A fully into the middle section
 - B. Detach the panel from the floor spring B
 - C. Unscrew locking bolt C from the top section
- II. Switching from sliding to double action motion:
 - C. Screw locking bolt C fully into the top section
 - B. Connect the panel to floor spring B
 - A. Unscrew locking bolt A from middle section

Fig. (a): Detach from floor spring (BTS) (for sliding motion)

Fig. (b): Connect to floor spring (BTS) (for double action motion)

During switch operation II, if step A is carried out first inadvertently, the panel will sink down and must be raised up again. Then proceed as above.

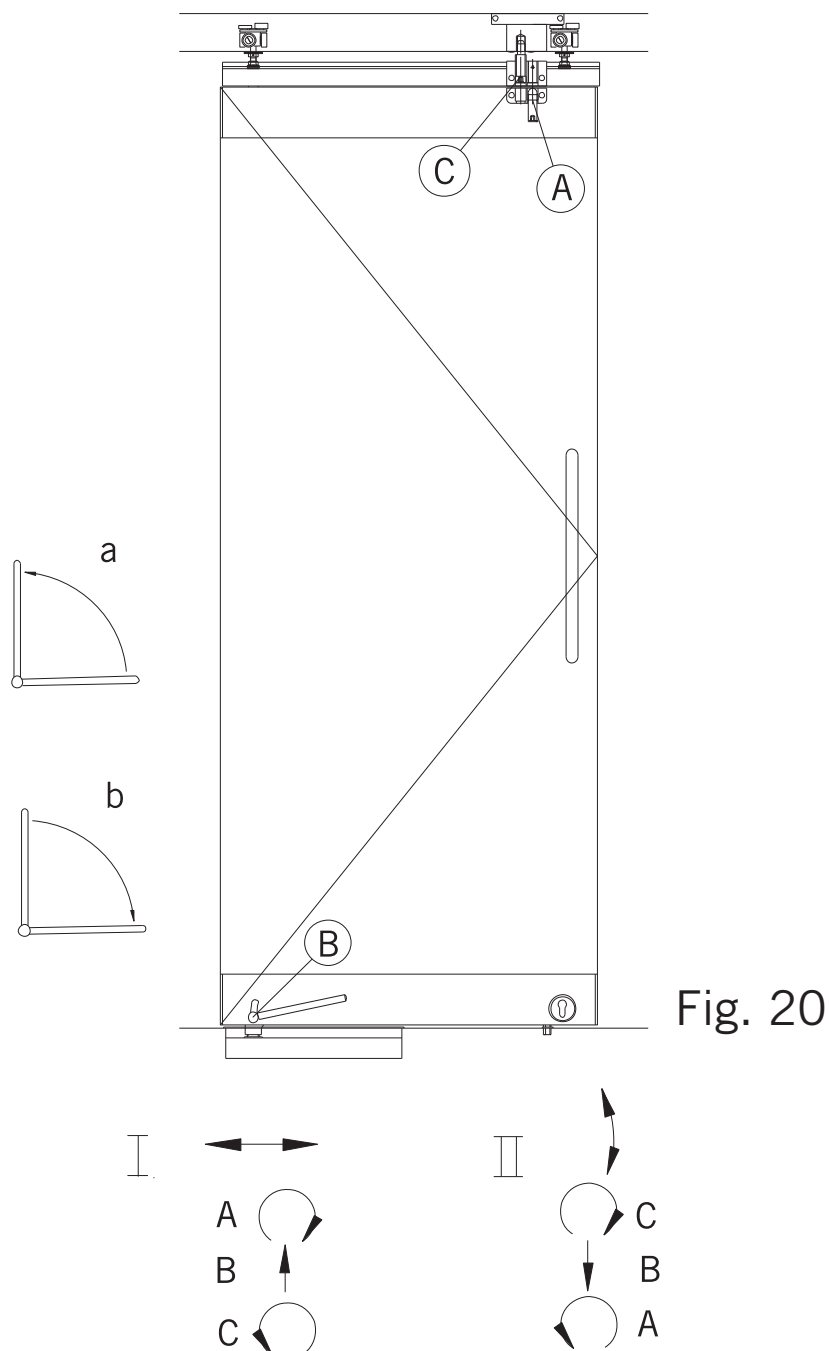


Fig. 20

21. System maintenance and panel operation (Fig. 21):

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

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

Sliding the panels

When closing the sliding partition, always lock each panel in position before moving the next one along. The panels are very easy to move and should not require any force. Always slide the panel along with one hand to ensure ease of movement. Either slide or pull – see drawing.

In the stacking area bring the panel into position at a slight angle.

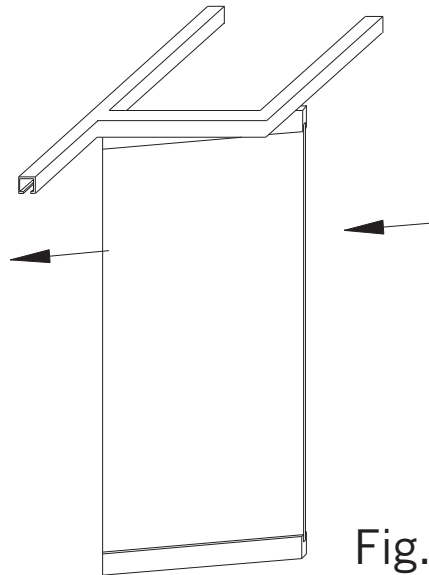


Fig. 21

22. Switching over the floor spring connector (Fig. 22):

(Only if repairs are needed. The system is supplied with a connector of correct handing already installed.)

1. Bring the lever (a) into the horizontal position (as illustrated), remove the grub screw (b) (hidden in fork (c)) through spyhole (d) using a 3 mm Allan key (2-3 turns) and remove the lever.
2. Replace the lever in the horizontal position in the spindle hole on the opposite side. Bring the spindle end (e) out flush with wall surface (f) and retighten the grub screw through the spyhole. (g) = right, (h) = left, (i) = 3 mm Allan key

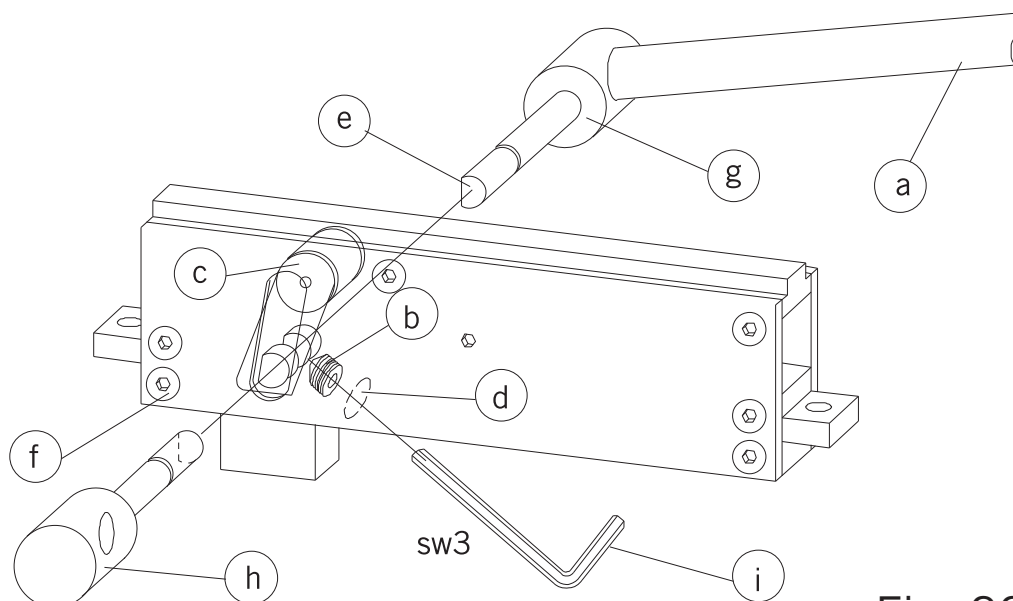


Fig. 22