

## HSW-R Installation Instructions

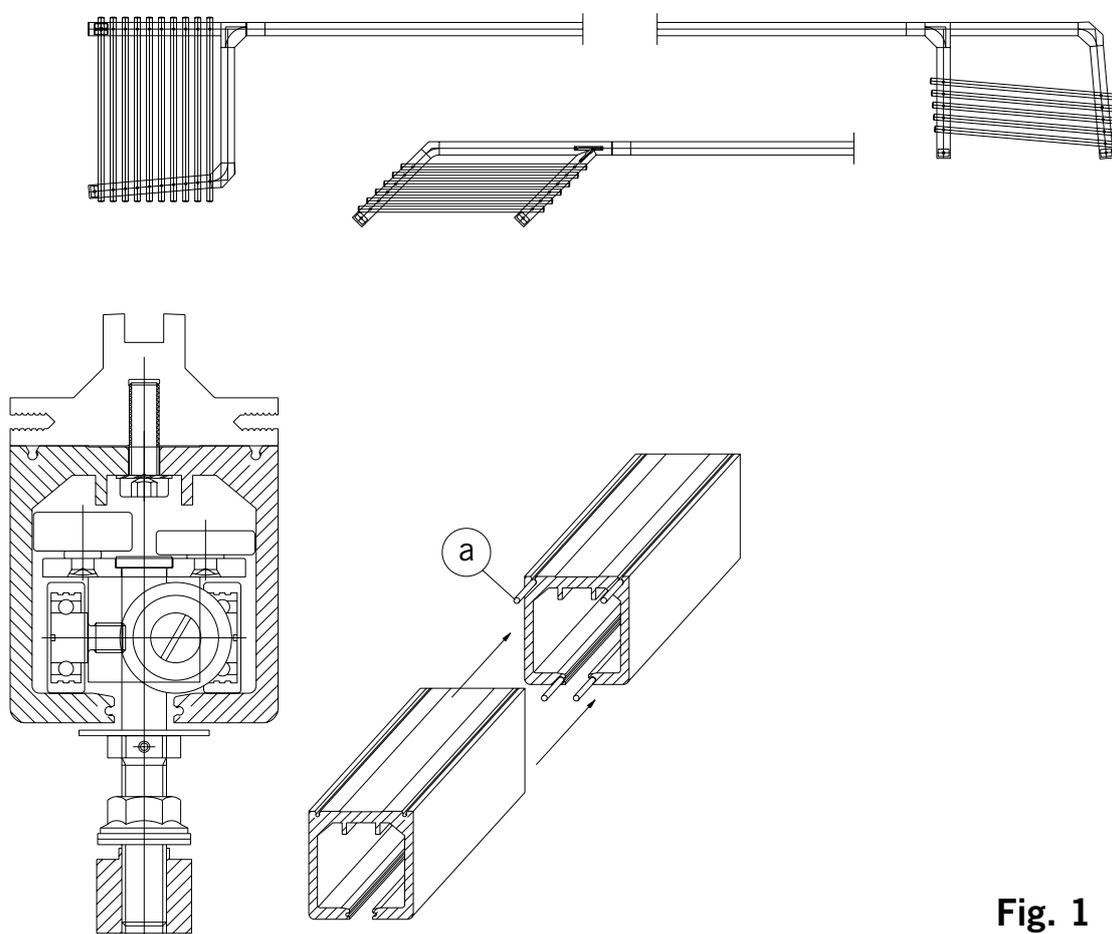
Track rail 72 x 75 mm

### 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, longitudinally and transversely horizontal substructure (e.g. DORMA „UK“ substructure system). The 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 mounting the track rail to the substructure should be approx. 300 mm along the straight sections and approx. 100 mm in the stacking area.

**Caution:** All the track joints 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. Preparing the floor (Fig. 2):

In the standard version, eccentric sockets are recessed into the floor as lock keeps.

**A** Drill hole 25 mm dia. 30 mm deep for eccentric sockets, plus 8 mm dia. hole for anchor plug. Align eccentric socket (double eccentric) and tighten with centre screw.

**B** Insert eccentric socket in recessed channel section

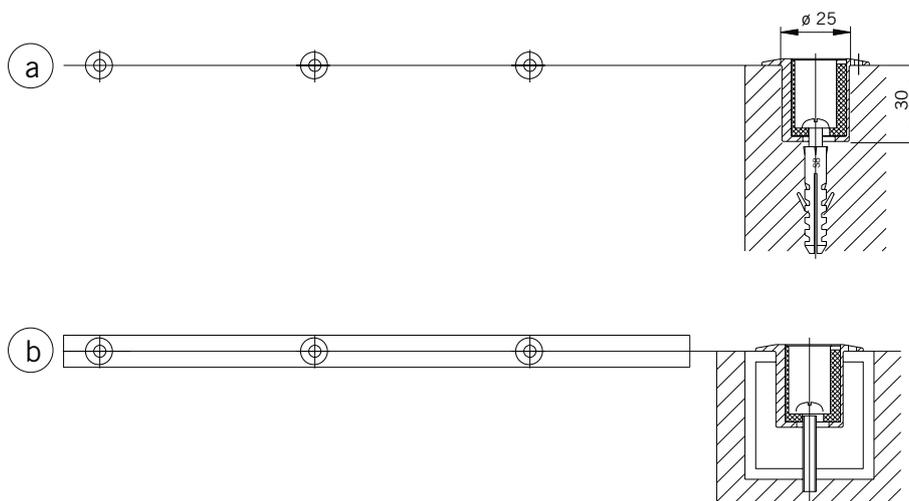
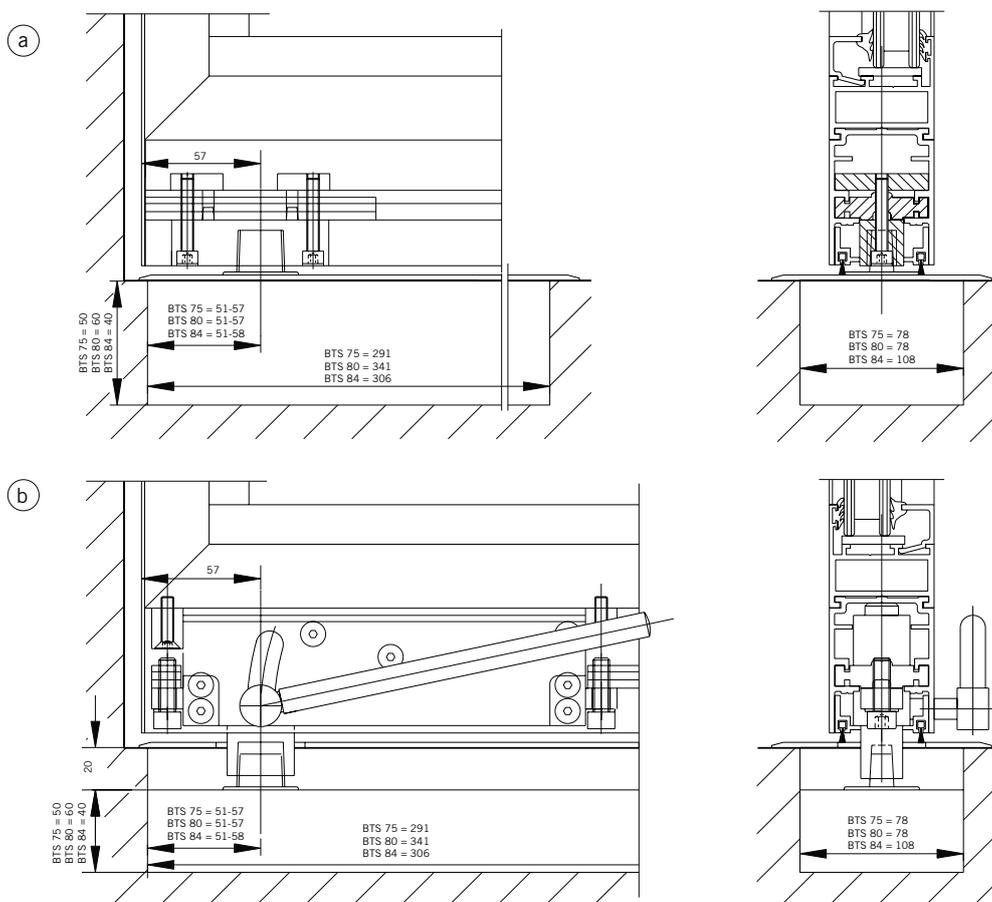


Fig. 2

### 3. Installing the floor springs (Fig. 3):

A recess (see drawing) must be provided for the floor springs (DORMA BTS). This is eventually covered with a stainless steel floor plate.

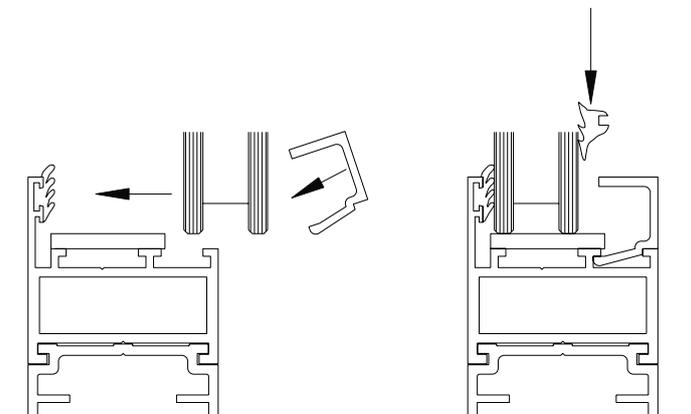
- a) Recess for the double action end panel floor spring
- b) Recess for the double action sliding panel floor spring



#### 4. Glazing (Fig.4):

The aluminium frame is supplied ready assembled and surface treated.

In performing the glazing work, ensure compliance with the instructions and guidelines of the double glazing manufacturer.



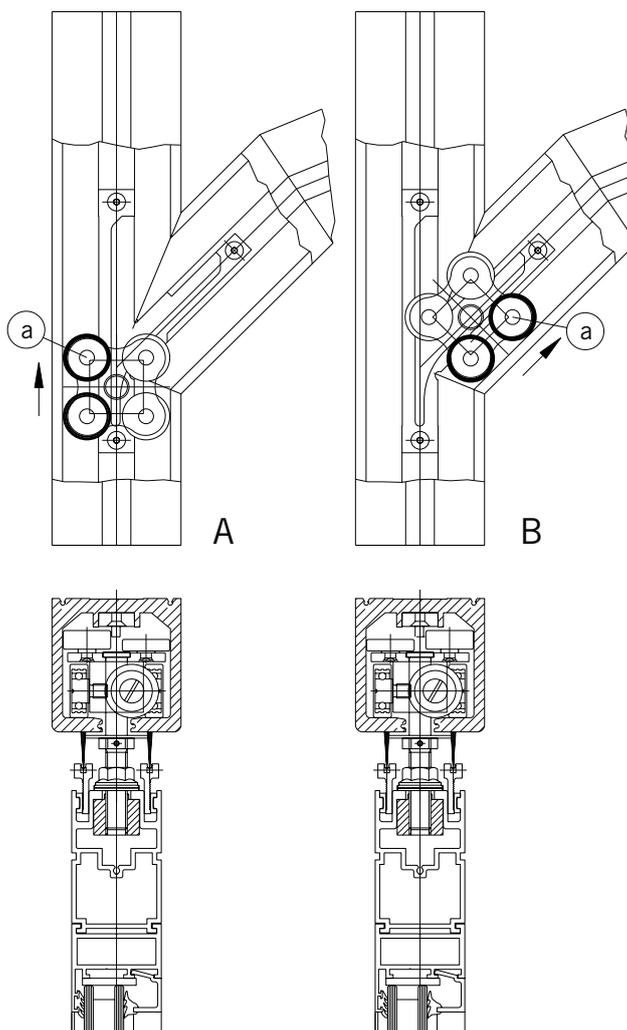
**Fig. 4**

#### 5. Track roller arrangement (Fig. 5):

Only one roller type is provided for all the panels. The arrangement of the guide rollers in the stacking area inlet section is of critical importance.

**A** Roller block for straight-through section = high guide rollers (a) outside

**B** Roller block for entry into branch section = high guide rollers (a) inside

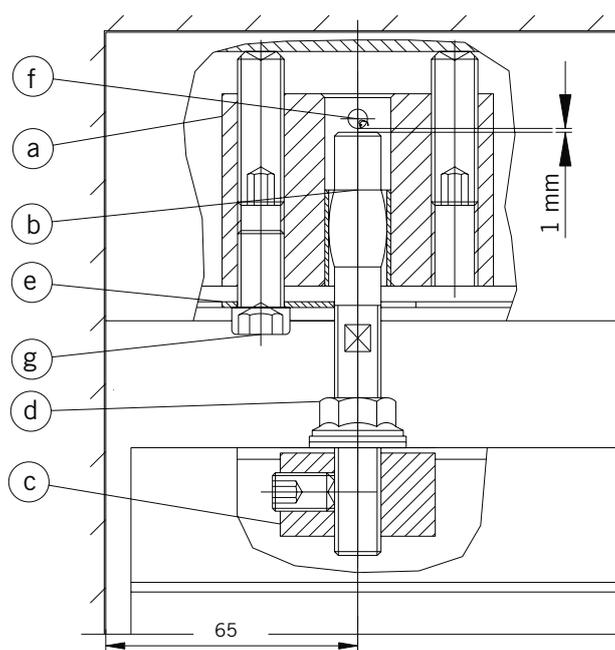


**Fig. 5**

## 6. Installing the double action end panel (Fig. 6):

Slide the top double action bearing (a) of the end panel into the end of the track rail. Install floor pivot or floor spring (pivot offset 65 mm from wall). Insert pin (b) in the double action bearing, place the end panel on the floor pivot or BTS floor spring spindle and slide the top suspension block (c) into the panel. Secure the double action bearing at a position corresponding to a pivot offset of 65 mm from the wall (tighten clamping fastener with 6 mm Allan key).

Once installed, wind pin (b) to bottom edge of roller pin (f) and then one turn back = 1 mm clearance. Then tighten nut (d) with a 17 mm open-jaw wrench. Tighten set screw in suspension block (c) with 5 mm Allan key. Fix safety plate (e) with screw (g) to top double action bearing.



**Fig. 6**

## 7. Installing the sliding panels (Fig. 7):

Slide the track rollers with suspension blocks (a) of all the panels into the track. Ensure compliance with the required panel sequence and guide roller arrangement as described in Section 5!

Now place panels on 8 mm spacer block on the floor below the track rail and insert the suspension blocks into the frame profile (b) from the left and right (e). Ensure that the set screw heads are point towards the outer edge of the panels (**Fig. 8-c**).

### Aligning the panel height:

The height of the panels must be aligned to create an 8 mm to 10 mm clearance between the floor and the bottom glazing rail with the partition closed.

Ensure that the top clearance is  $33 \text{ mm} \pm 5$ .

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

Counter-clockwise rotation = more floor clearance

Clockwise rotation = less floor clearance

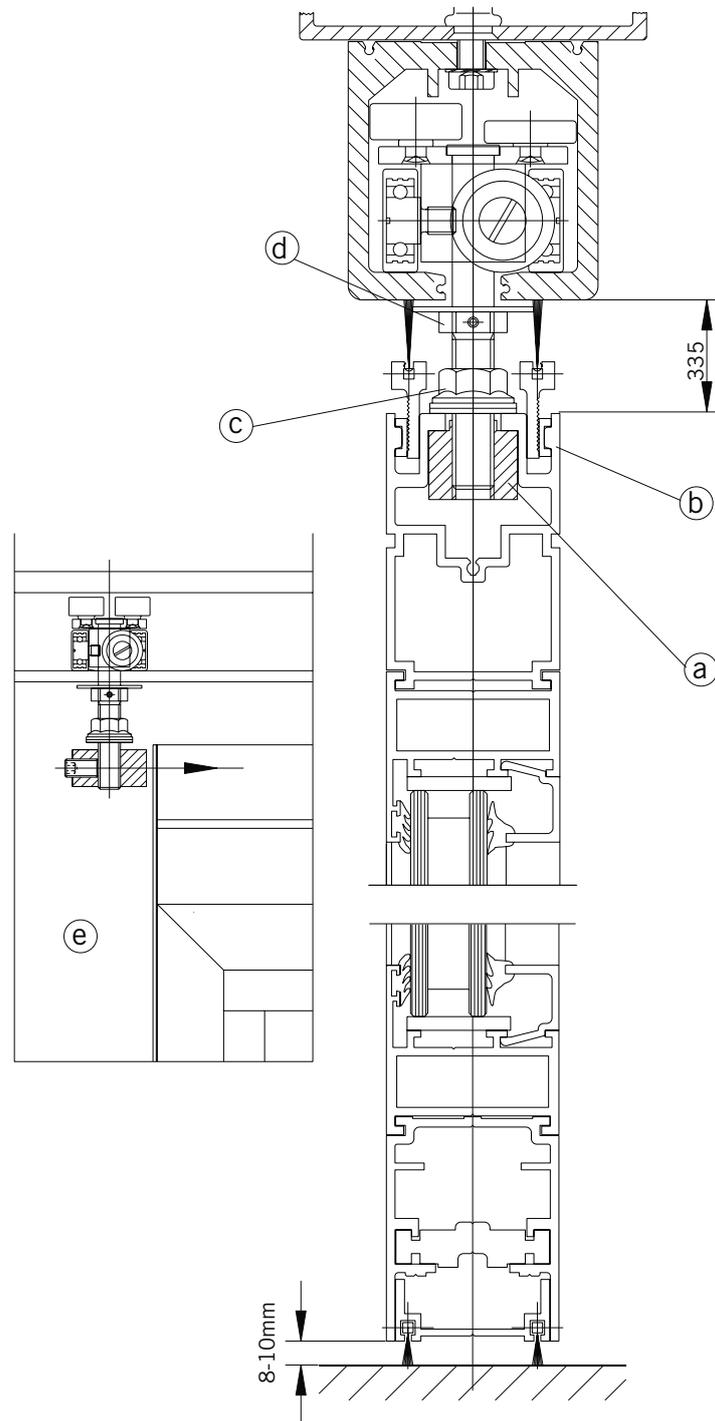


Fig. 7

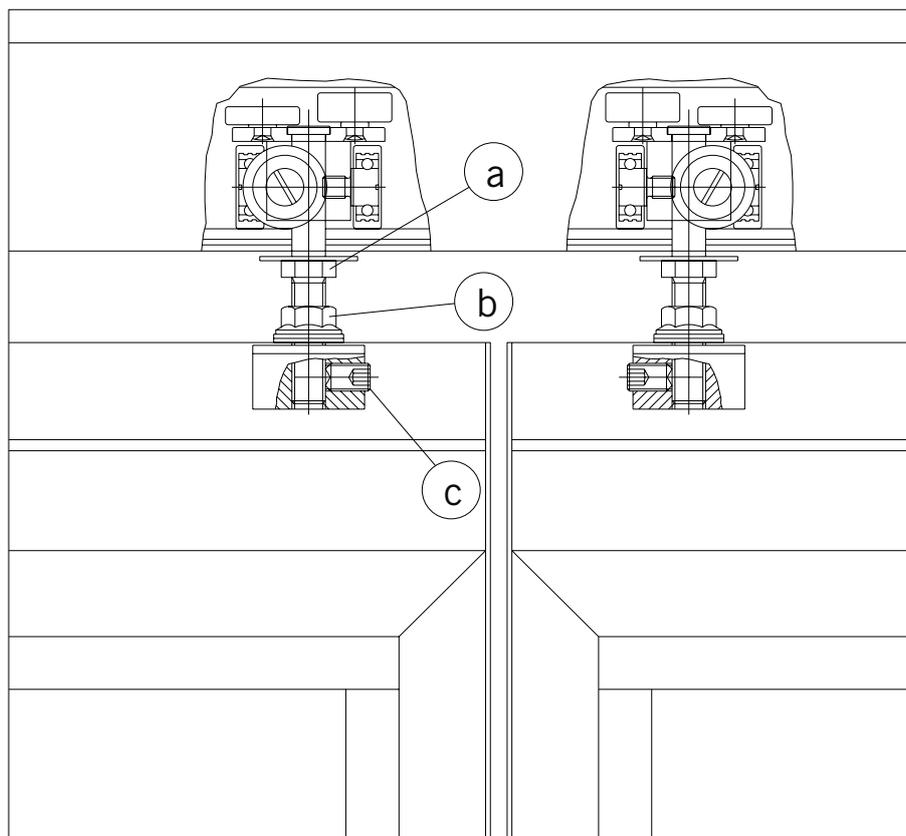
### 8. (Fig. 8):

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

If additional height or lateral alignment is necessary, proceed as follows:

Loosen M5 set screws at top brush profile (use 2.5 mm Allan key) and then remove profile with brush seal.

Loosen M10 set screw (c) with 5 mm Allan key through the bore in the lateral seal profile. Adjust nuts (a) and (b) and then retighten. Tighten M10 set screw and insert top brush profile. Align profile and secure with M5 set screws. Once height correction has been completed, adjust the outer brush seal by pushing up or down with a wooden wedge.



**Fig. 8**

## 9. Example installation with 5 panels (Fig. 9)

- F1 = Last sliding panel (double action sliding panel with RTS 85 transom concealed door closer) away from the stacking area
- F2 = End panel in the stacking area (non-sliding) - with double swing action to an angle of 90° with floor spring or floor pivot in combination with a TS 73 overhead door closer (inward opening)
- F3 = Double action sliding panel with floor spring
- F4 = Single action panel with TS 92 overhead door closer
- F5 = Sliding panel

### Lateral alignment of the panels and fitting the strike plates:

Align end panel F2 to provide an 8 mm clearance from the wall (as described in Section 6, using nut (d)). Slide the last panel F1 to its end position. Measure the gap from panel F1 to panel F2. (As in this example the gap must be  $5 \times \text{panel width} + (2 \times 8 \text{ mm}) + (6 \times 4 \text{ mm})$  clearance.) Now insert top brush profiles, with plastic wedges on the outside inserted from the end face, and with M5 set screws on the inside (tightened with a 2.5 mm Allan key). Screw-fix lateral seal profiles (with brush for single action panels and with rubber seal for sliding panels)

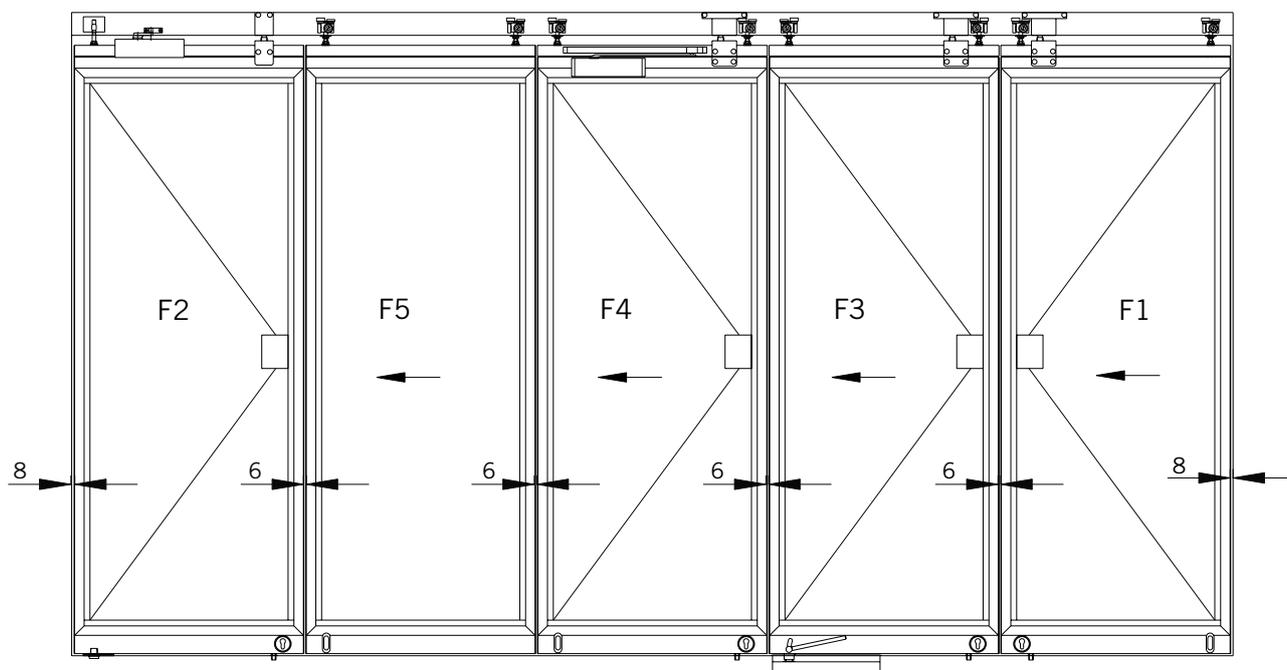
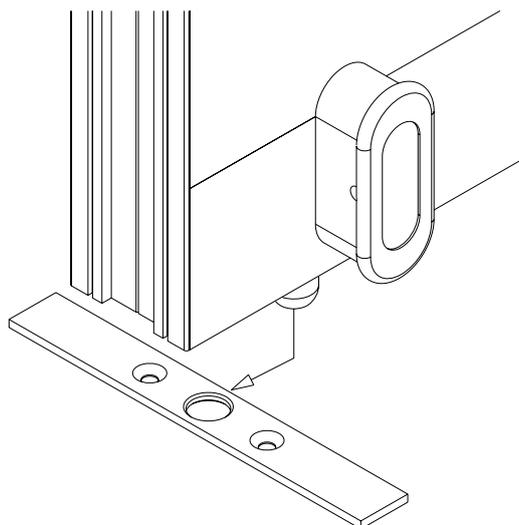


Fig. 9

### 10. Bottom lock (Fig. 10):

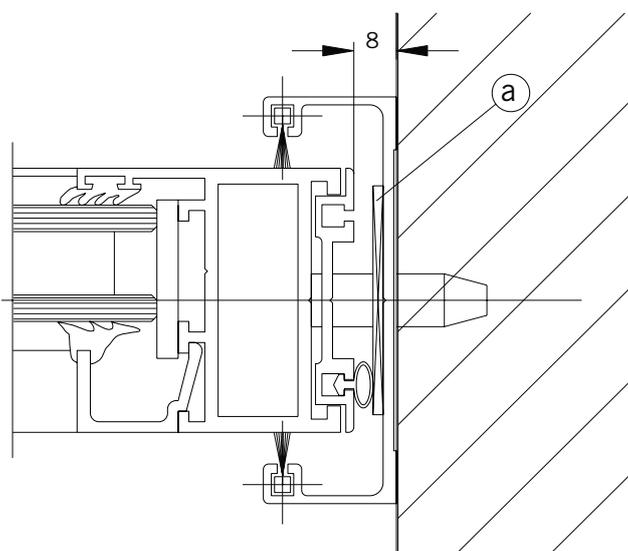
Position the panel by moving it into its end position and then ensuring that it is properly aligned. Slide the drilling template provided under the lock module and extend the locking pin so that the centre bore can be aligned to its location. Check the position once again and then secure the drilling template (e.g. by holding firmly in position by hand or foot). Retract the locking pin and move the panel away. The position of the eccentric bushing or strike plate can then be properly marked through the drilling template and then the holes can be drilled. Mount the strike plate / keep (eccentric socket) as appropriate. For exact positioning, strike plate and keep can be adjusted  $\pm 4$  mm and  $\pm 2.5$  mm respectively. Then bring the panel into position and lock. Now bring the next panel into position (F3 and F4, leaving a clearance of 4 mm) (Fig. 9).



**Fig. 10**

### 11. (Fig. 11):

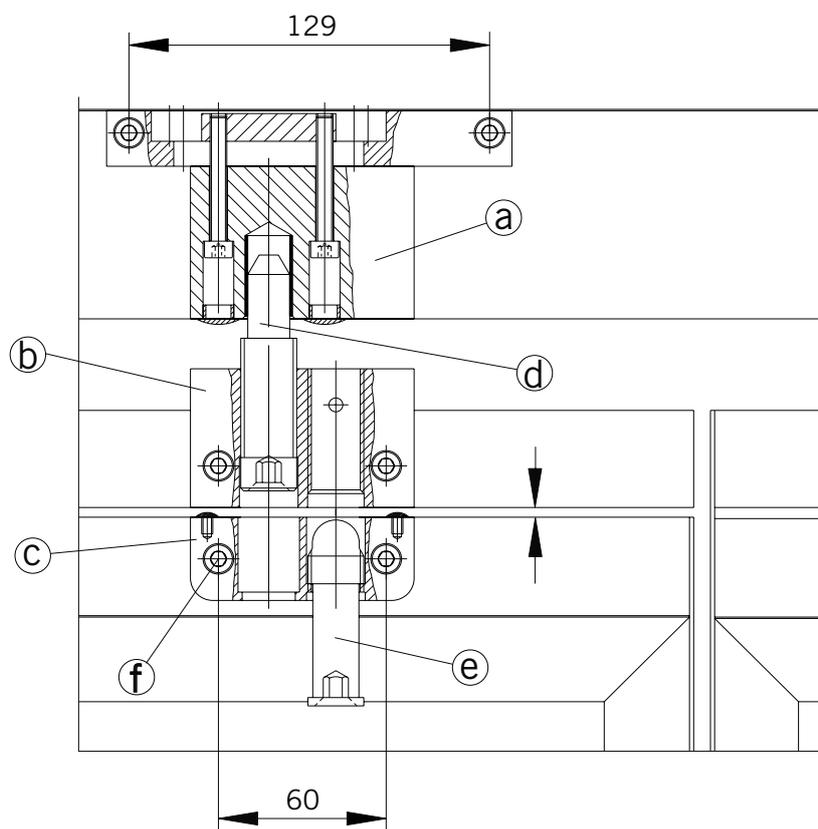
In the case of the last panel (Panel F1 in Fig. 9) attach filler piece (a) by others (approx. 100 mm long) to the wall connecting profile if required. This ensures that the seal is compressed while maintaining the clearance of 8 mm for the installed system with the lock engaged.



**Fig. 11**

## 12. Mounting the lock mechanism (Fig. 12):

The top section (a) is supplied already fixed to the track rail. Position the centre section (b) and the bottom section (c), engage pins (d) and (e) and place parts against edges (see arrows). Mark four drill holes and drill to 10 mm dia. for M6 screws so as to enable adjustment for any inaccuracies. Both parts are fixed to the 10x129 mm bracket plate. Press in the plugs (f) (6x). Apply same procedure when fixing the top lock on end panels.



**Fig. 12**

### 13. Sequence of operations (Fig. 13)

(double action sliding panel with floor spring adapter):

#### I Switching from pivoting to sliding action

- A Screw locking bolt A fully into the centre section of the lock mechanism
- B Disconnect panel from floor spring
- C Unscrew top locking bolt C from the top section of the lock mechanism

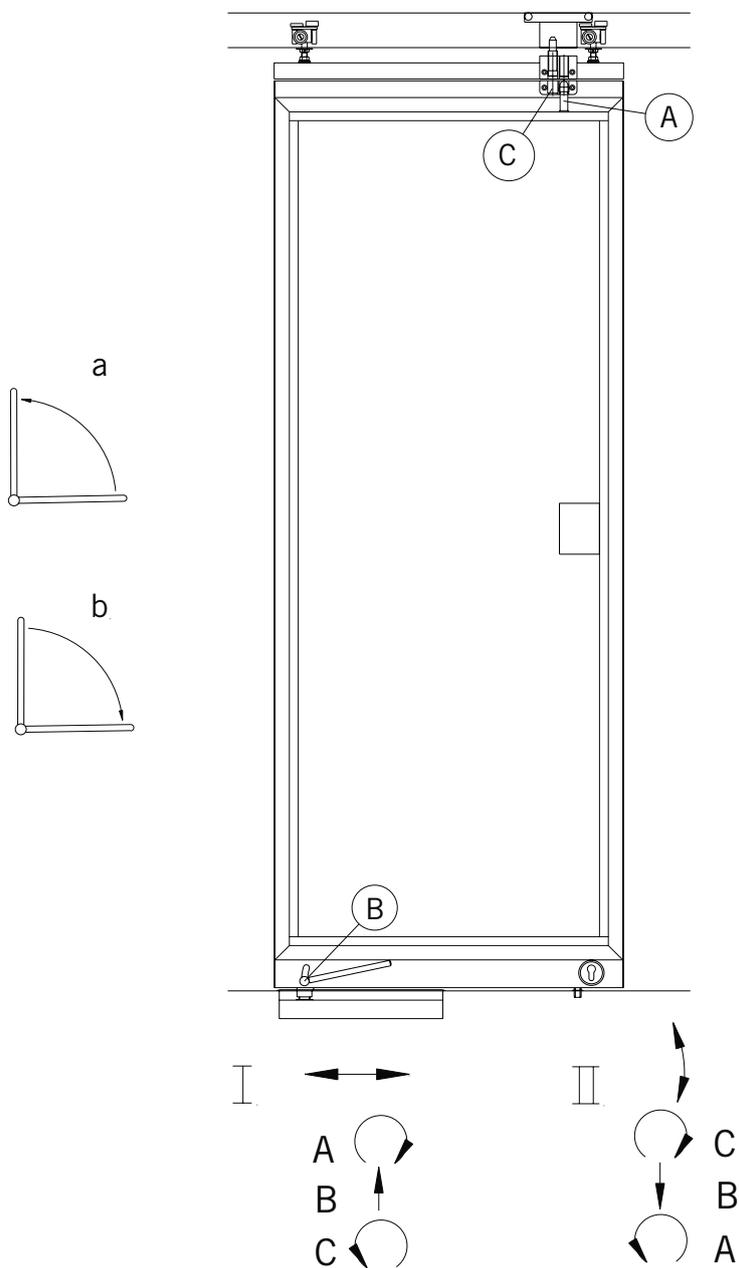
#### II Switching from sliding to pivoting

- C Screw top locking bolt fully into the upper section of the lock mechanism
- B Connect panel to floor spring
- A Undo locking bolt A

Fig. (a): Lever operation to detach panel from the floor spring to allow sliding

Fig. (b): Lever operation to connect panel to floor spring for pivot operation (double action)

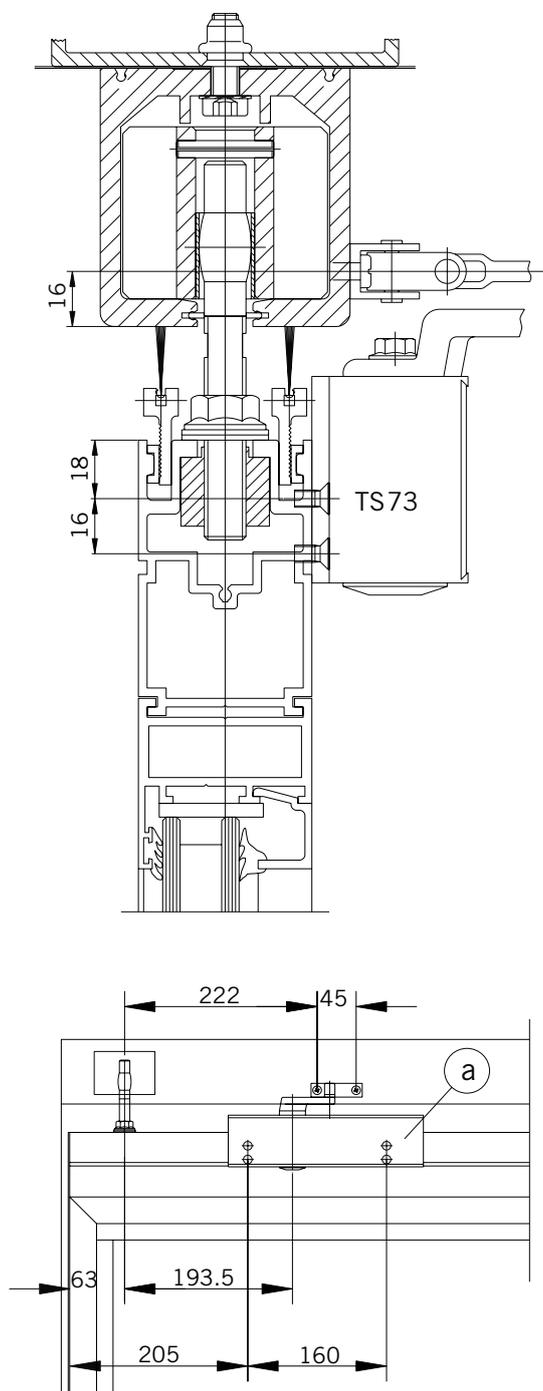
During change-over operation II, if step A is carried out first inadvertently, the panel will sink down and must be raised up again. Then proceed as above.



**Fig. 13**

**14. Single action end panel with TS 73 overhead door closer (Fig. 14):**

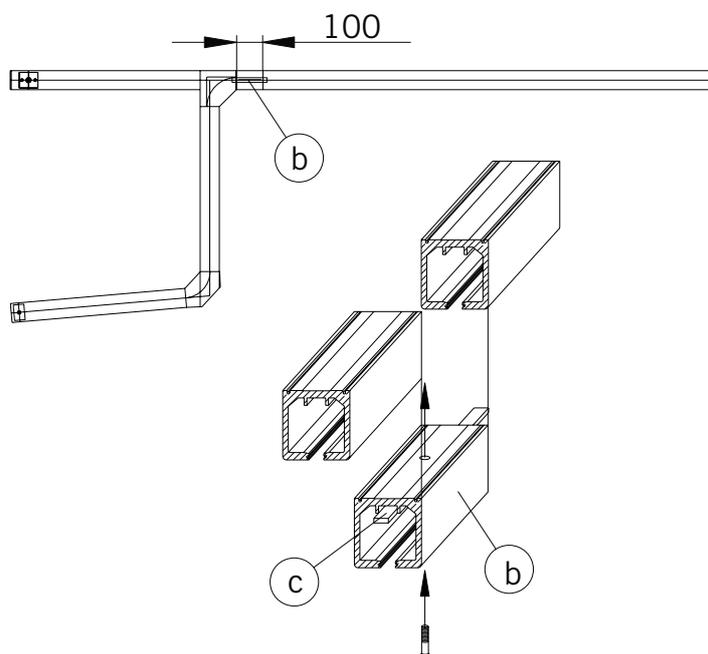
Mount the closer (a) in accordance with the installation instructions provided, taking care to comply with the clearance of 193.5 mm (centre of swing panel pivot to closer spindle).



**Fig. 14**

**15. Removable (maintenance) track section (Fig. 15):**

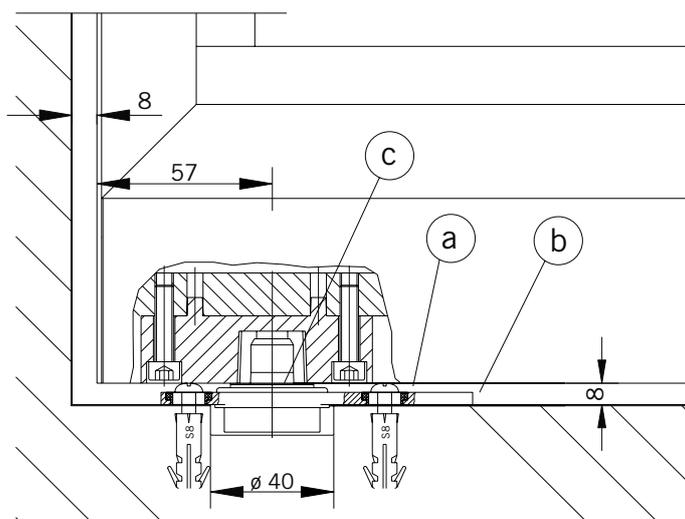
The maintenance track section (b) can be removed for the replacement of defective rollers. The location plate (c) must always remain attached.



**Fig. 15**

**16. Floor pivot for single action end panel (Fig. 16):**

The dimension of 57 mm can be achieved by adjusting the floor pivot (a). Undo the fixing screws (b), slide the floor pivot to the required position and then retighten screws. Height adjustment is performed by shimming with spacer washers (c) provided (3 washers, each 1 mm thick).



**Fig. 16**

### 17. Sequence of operations (Fig. 17):

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

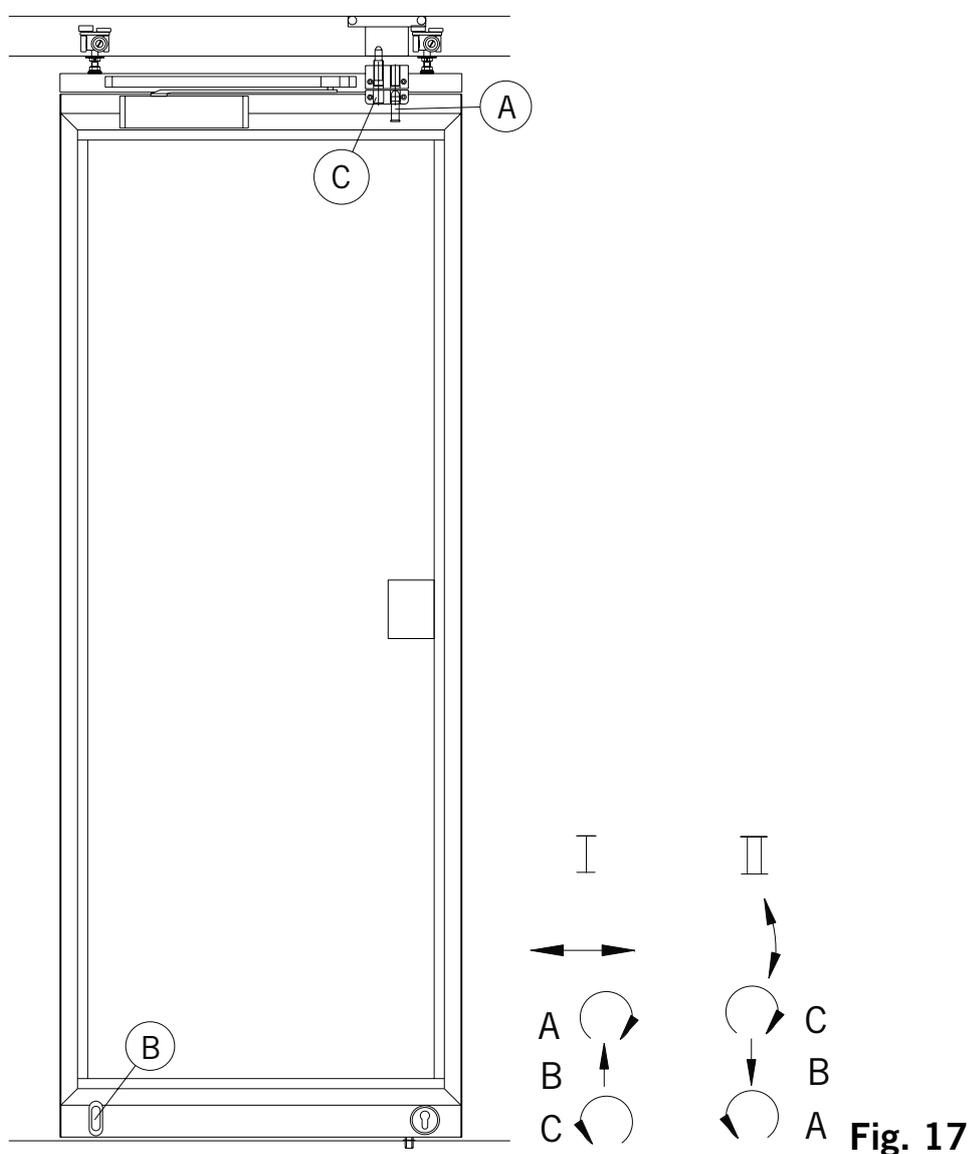
#### I Switching from pivoting to sliding action

- A Screw locking bolt (A) fully into the centre section of the lock mechanism
- B Disengage floor lock (B)
- C Unscrew top locking bolt C from the top section of the lock mechanism

#### II Switching from sliding to pivoting

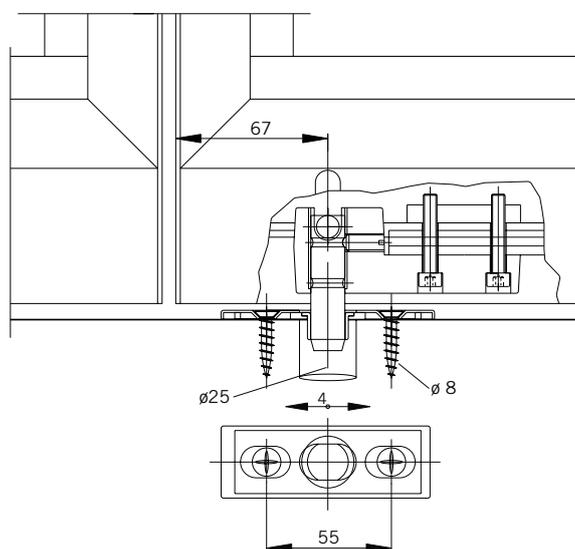
- C Screw top locking bolt fully into the upper section of the lock mechanism
- B Engage floor lock (B)
- A Undo locking bolt (A)

During change-over 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.



**18. (Fig. 18):**

Adjustable locking plate for single action panel with TS 92 and double action panel with RTS 85:  
 Drill hole for floor socket (keep) 25 mm dia., at least 15 mm deep and 67 mm from the door outer edge. Also drill holes for 8 mm dia. anchor plugs 55 mm apart (centres).

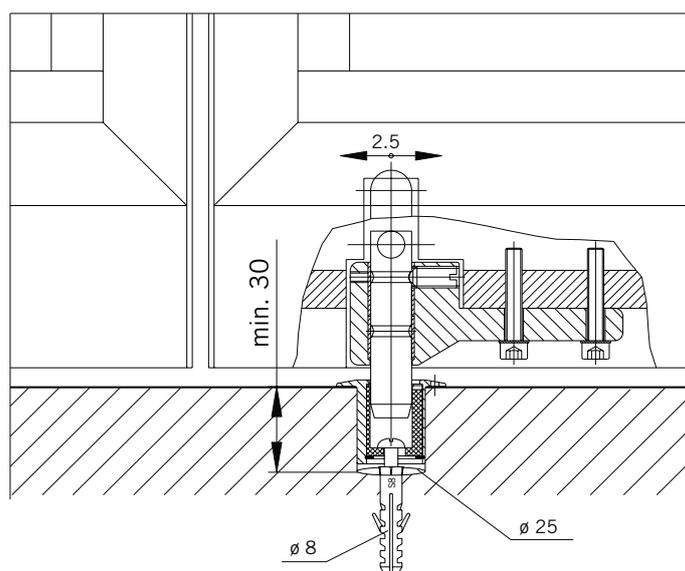


**Fig. 18**

**19. (Fig. 19):**

Adjustable eccentric sockets with plastic inner sleeve for all door holders, floor locks and bearing assemblies:

Drill hole 25 mm dia., at least 30 mm deep, and 67 mm from the outside edge of the panel. Also drill 8 mm dia. hole at the centre for anchor plug.



**Fig. 19**

## 20. System maintenance and panel operation (Fig. 20):

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.
3. Attach nameplate.

### 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.

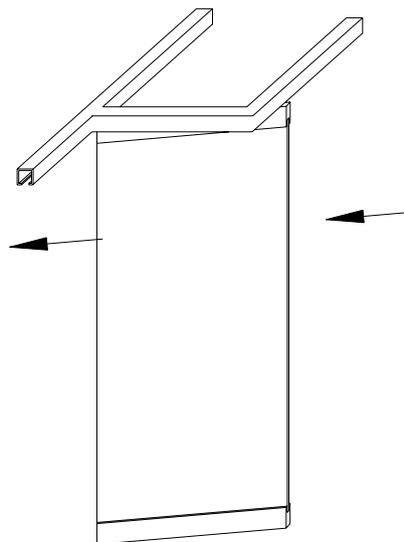


Fig. 20

## 21. Switching over the floor spring adapter (Fig. 21):

(Only if repairs are needed. The system is supplied with the correct handing.)

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

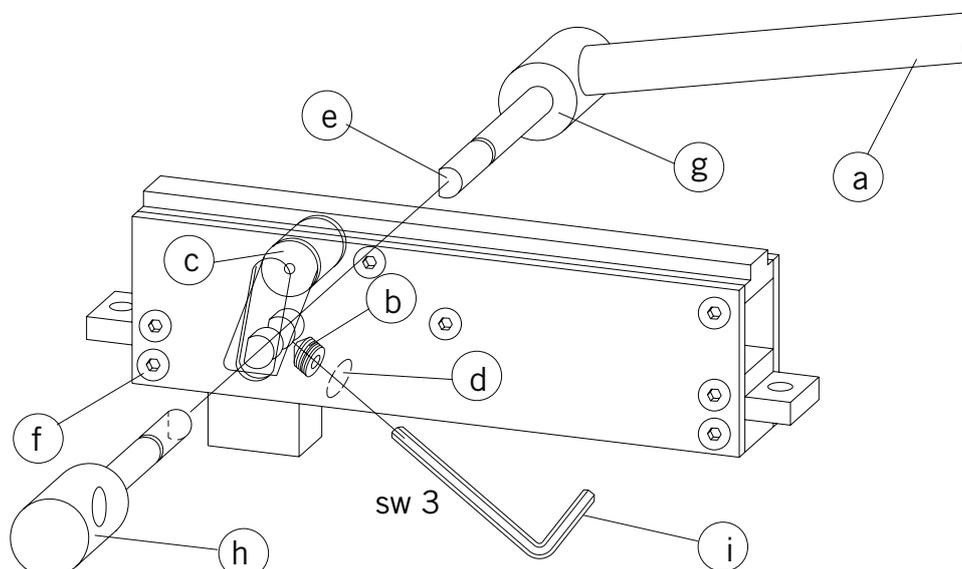


Fig. 21