

## Profile system

- Folding door in thermally insulated aluminium profiles.
- The structural depth of the profile is 55 mm, which corresponds with the structural requirements.
- The rated value of the heat transfer coefficient of the frame is  $U_{f,BW} = 2.6 \text{ W/m}^2\text{k}$  according to DIN V 4108-4:2004-07 (corresponds to RMG 2.1 according to DIN V 4108-4:1998-10).
- According to DIN EN ISO 10077-1:2000-11 the following rated value of the heat transfer coefficient  $U_W$  can be used for a three-panel folding wall:  $U_W = 1.8 \text{ W/m}^2\text{k}$ . When using glass with a better  $U_g$  value or thermotechnically improved edge bond (heat border) the  $U_W$  value of the folding wall improves correspondingly.
- Air permeability Class 4 according to EN 12207, rain tightness class E900 according to EN 12208 and resistance to wind load class B4 according to EN 12210.
- Sound insulation residual value = 30 dB according to DIN EN ISO 140-3.
- Within a folding wall it is possible to fold one part of the panel to the left and another part to the right.
- The folding wall can be opened optionally inwards or outwards.
- The floor rail can be fitted with a stop if required and can be optionally embedded in the floor. Implementation without a stop is used for the reception areas of business premises or "barrier-free apartments" according to DIN 18025.
- The slide rails and guide rails are integrated flush into the system and not projecting.
- Height tolerance and extensions can be incorporated without causing sealing and functional disturbance.

## Fittings

- All fittings are hidden in the profiles.
- The quality of the folding wall is ensured by the use of maintenance-free and rustproof components, as well as fault-free fittings.
- The locking of the panels is achieved by locking bars in aluminium with at least 22 mm lift in the upper and lower slide and guide rails. The ends of the locking bars are fitted with polyamide caps, so that locking does not consist of 'metal on metal'. For optimum sealing and to prevent break-in the door panel (turning panel) locks laterally with the frame or with the adjacent panel by means of an additional mushroom headed lug.
- Locking and unlocking of the panels from the inside is achieved by user-friendly, single-handed operation via 180° rotation of sturdy flat handles with latches to prevent break-in. In addition it is possible for these to be made lockable.
- An integrated, separately-operated door panel with latch-operated multiple locking system, lock and latch lock can be provided.
- Simple adjustment of the folding wall is achieved by a height-adjustable carriage system.
- The bands have additional protection so that the pivot pin cannot be knocked out (break-in prevention).
- An opened turning panel can be securely clamped in each open position of the complete folding wall to the adjacent panel using latches.
- For inward opening balcony elements special cleaning fittings can be used to make cleaning from the inside easier.

## Running assembly

- The running assemblies with four rollers can be fitted optionally below or above.
- The running assemblies are located above the water flow area and their running ability is not affected by contamination.
- The rollers incorporate ball bearings and have low-noise, wear-proof, heat and cold resistant rollers and a stainless steel contact surface.
- The maximum load bearing capacity of the running assemblies is approx. 200 kg.
- The running assemblies are adjustable for height.

### **Sealing**

- In the vertical panel joint rain and windproofing is ensured by EPDM seals at two seal levels.
- At the bottom, two brush seals with flexible plastic bars are fitted horizontally to prevent the entry of dust and draughts (only for floor rail without stop).

### **Glazing**

- The glazing is installed as continuous glass strips, which ensures a panel structure of 6 mm to 38 mm - in accordance with the general glazing directive.
- The fitting of the glass and the glazing rebate drainage is implemented according to the general glazing directives.
- Subsequent changing of the panels is possible without problem.
- All glass panes conform to the Building Rules List.