

**Application\*:**

- Balcony / Loggia glazing
- Commercial façade
- Open sitting area / Porch
- Wintergarden unit
- Partition / Internal partition / Room divider
- Standard window

**Profile System**

- ▮ The folding system SL 45 is an aluminium construction made of non-thermally broken aluminium profiles with 45 mm construction depth.
- ▮ Air permeability class 2 in accordance with DIN EN 12 207 impermeability to rain class 7A according to EN 12 208 (stress group "B" in accordance with DIN 18 055) must be achieved.
- ▮ The panel profiles are mitred and are firmly joined with internal bonded and pressed corner pieces.
- ▮ Within a panel unit it should be possible for one panel to fold inwards and the other to fold outwards.
- ▮ The bottom rail should be provided with a flush threshold which can, as an option, for shop fronts or for "barrier-free dwellings" in compliance with DIN 18 025, be set into the floor.
- ▮ Segmented layouts available upon request.
- ▮ The running and guide rails are to be integrated flush into the system and should not protrude.
- ▮ The system must be constructed so that height tolerances and expansion are allowed for without leading to a fault in function or impermeability.

**Hardware**

- ▮ All fittings must lie concealed in the profiles.
- ▮ To ensure stability of the folding system, low-maintenance, low-rattle, rustproof and foolproof fittings are to be provided.
- ▮ The interlocking mechanism rods should be made of aluminium and provide at least a stroke of 24 mm movement in the upper and lower running and guide rails. The rods must have polyamide caps so as not to operate "metal on metal". For optimum impermeability and break-in protection, the entry door panel (swinging panel) should be laterally engaged with the frame or with the neighbouring panel by means of an additional bolting device.
- ▮ In principle, latching and unlatching of the doors should be effected by a user-friendly, one-handed 180° turn of sturdy flat handles (with a blocking element for break-in protection) from the inside. In addition, it must be possible for these handles to be lockable.

- ▮ An integrated, separately operated entry/exit door panel with the standard handle, lock and PZ must be structurally possible.
- ▮ A design with an integrated tilt or tilt-turn panel within a door unit should be made available as an option.
- ▮ Adjustable hinges should make it easy to position the folding system.
- ▮ In addition it should not be possible for the hinge pins to be knocked out (break-in prevention).

**Running Gear**

- ▮ The top-hung rollers are ball-bearing and have a low-noise track made of fibreglass-strengthened polyamide.

**Sealing**

- ▮ Double brush seals with flexible plastic edging must be fitted horizontally at the top and bottom.
- ▮ A double layer of EPDM weather stripping must be provided to seal the door jambs against rain and wind.

**Glazing**

- ▮ The glass must be positioned into sills with a continuous snap-in bead.
- ▮ Trouble-free pane replacement at a later date should be possible.

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**\* The possible applications referred to and schematic diagrams shown are examples only. This does not discharge the customer of his duty to examine in detail the applicability of a system (i.e. use, heating, country-specific regulations etc.)**

