SOLARLUX®

SL 35
Specification
Folding Glass Door

Application*:

- Balcony / Loggia glazing
- Open sitting area / Porch

Profile System

- The SL 35 folding system is an aluminium construction made of non-insulated profiles.
- Contruction depth: 35 mm for the panel profiles and 45 mm for the running track
- 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 panels should be able to either fold inwards and outwards, if required.
- The panel profiles are joined firmly by means of diecast corner pieces with integrated hinges.
- The bottom rail should be provided as a threshold with a rebate or, as an option, as a flush threshold that can be set into the floor. The design with a flush threshold must be available for shop fronts or for "barrier-free dwellings" in compliance with DIN 18 025.
- 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 a stroke of 24 mm horizontal or vertical 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.
- A sliding interlocking system should allow the panels to be held stationary at any partially open position.
- In principle, latching and unlatching of the panels 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 handles both on the inside and outside, lock and PZ must be structurally possible.
- A swing panel which can be opened to 180° must be able to be securely fixed against the neighbouring panel with snap-to guides.
- With inward opening balcony elements, special pins to facilitate cleaning from inside should be provided.

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.

*** 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.)**