

Application*:

- Balcony / Loggia glazing
- Wintergarden unit
- Pool glazing
- Living space / Fixed unit

Profile System

- ▮ The SL 60e is a heat insulated aluminium profile system with a thickness of 59 mm which complies with the Stability Check Guideline for Metal / Plastic Composite Profiles, issued issued by the German Institute for Construction Technology (DIBt).
- ▮ According to DIN EN ISO 10077-1 an U_w value of $U_w = 1.6 \text{ W/m}^2\text{k}$ must be achieved for a folding glass door with three panels (W x H 2700 x 2300 mm), inward opening, a floor track with rebate and doubleglazing with an $U_g = 1.1 \text{ W/m}^2\text{K}$ value and thermally improved outer edge.
- ▮ Air permeability Class 3 according to EN 12 207, impermeability to rain Class 7A according to EN 12 208, resistance to wind loads Class B4 according to EN 12 210 (test group C according to DIN 18 055) must be achieved.
- ▮ The hinges shall form an intergral part of thermal broken diecast corner pieces, which held the panel profiles firmly together.
- ▮ The panels shall be inward or outward folding.
- ▮ The floor track shall optionally be provided with or without upstand. As a further option it shall be possible to have the floor track flush with the floor. The version without upstand shall be suitable for business entrance areas or "barrier-free" living spaces according to DIN 18 025.
- ▮ The runner and guide tracks shall be on the same vertical plane as the system and must not protrude.
- ▮ The system shall be designed such that height tolerances and expansion can be absorbed without causing malfunction and leaks.

Door hardware

- ▮ All furniture shall be concealed in the profiles.
- ▮ Lasting quality shall be ensured by design features such as safe operation, rustproof furniture and anti-rattle features.
- ▮ Panel locking shall be provided by means of aluminium locking bars (espagnolette) engaging into the runner and guide tracks. The locking bars shall be provided with plastic end caps to prevent metal on metal contact. For maximum sealing effect and for security purposes the entry / exit panel (swing panel) shall also provided with a horizontal locking mechanism which engages with the frame or the adjoining panel.
- ▮ Locking and unlocking of the panels shall be in principle from the inside by the operation of user-friendly single stainless steel flat handle by 180° with security locking facility. In addition it must be possible to lock the

system with a key.

- ▮ An integrated separately usable entry / exit panel with handle-operated multi-point locking system, with profile cylinder type lock must be allowed in the design.
- ▮ In the case of inwards opening and top hung balcony elements provision shall be made for ease of cleaning.

Runner Assembly

- ▮ The folding glass door SL 60e is fitted with floor mounted (SL 60e / u) or top hung (SL 60e / O) running gear.
- ▮ SL 60e / u (standard):
The bottom fitted runner assemblies run on low noise ball bearings, a combination of stainless-steel rollers with stainless-steel bearing surfaces which give a long service life.
- ▮ SL 60e / o:
The top fitted runner assemblies also run on ball bearings with low noise plastic bearing surfaces.

Sealing

- ▮ A dual wraparound ethylene propylene rubber seal protects from rain and wind. In addition the surrounding frame is provided with a brush seal with flexible plastic base.

Glazing

- ▮ Glass is positioned into sills with a continues snap-in bead so that trouble-free pane replacement at a later date is 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.)**

