Profile system

- ☐ Folding wall in thermally insulated aluminium profiles with fitted, rear-ventilated solid timber covering of all visible aluminium profiles on the inside.
- ☐ The structural depth of the profile is 95 mm, which corresponds with the structural requirements.
- ☐ The rated value of the heat transfer coefficient of the frame is Uf,BW = 1.8 W/m2k according to DIN V 4108-4:2004-07 (corresponds to RMG 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 UW can be used for a three-panel folding wall: UW = 1.8 W/m2k. When using glass with a better Ug value or thermotechnically improved edge bond (heat border) the Uw 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.
- ☐ The folding door system can be designed to open to the left or to the right or split to open in both directions.
- ☐ The folding wall can be designed to open inward or outwards.
- ☐ There are two choices of floor track; there is a standard track with a weathered upstand for optimum weatherproofing or a flush track option to create a seamless connection; ideal for use in reception areas of business premises; apartment and anywhere required to meet building regulation requirement of a level walkthrough according to DIN 18025.
- ☐ The overall front to back system dimension remains constant at junction between the doors and outer framework, providing a flush uniform appearance.
- ☐ Through design of the systems top guide mechanism, lintel movement of + or – 4mm can be accommodated without effecting the systems operation or weather proofing. Additionally, frame extensions can also be provided.

Fittings

- ☐ The locking system is concealed within the profile.
- ☐ The quality of the folding wall is enhanced by the use of maintenance-free and rustproof components.
- ☐ The locking of the panels is achieved by concealed aluminium rods which project into the top and bottom track by a minimum of 20mm for maximum security and weatherproofing. The ends of the rods are capped off with a polyamide cone to prevent damage to the aluminium tracking caused by metal on metal contact. For additional security and weatherproofing, single lead door panels have an additional lateral locking point by means of a mushroom headed Spag.
- ☐ The operation of the locking system is via a stylish designed handle system. The handle rotates 1800 to lock and unlock the panels with the option to key lock this movement for additional security. There are two handle types (flush and lever) which have matching aesthetic appearance. All handles are designed to be strong and user friendly whilst allowing the maximum opening width of the system to be achieved.
- ☐ Optional integrated multiple locking system can be fitted to single lead door panels providing a conventional latch lock facility without compromising the systems excellent weatherproofing and security.
- ☐ Simple adjustment of the folding wall is achieved by a height-adjustable carriage system.
- ☐ Locking hinge pins are fitted as standard for additional security to prevent pins from being forced out.
- ☐ Patented panel catches allow the opened lead door panel to be securely clamped to its adjacent panel either when opened independently or when the system is fully open.
- ☐ On inward opening balcony situations, special fittings can be used to make cleaning of the glass from the inside easier.

Running assembly

- ☐ The bottom running assemblies are located above the drainage area to ensure running ability is not affected by contamination.
- ☐ The four roller running mechanism comprises of wheels manufactured from tough glass fibre reinforced polyamide set around a maintenance free ball bearings providing a quiet smooth operation unaffected by extreme temperature fluctuations.
- ☐ The running assemblies are designed to be adjustable in height with the use of an Allen key to simplify the installation process.

Sealing

- ☐ Using EPDM seals at two levels ensures effective perimeter sealing.
- ☐ At the bottom two brush seals with flexible plastic fins are fitted horizontally to prevent the entry of dust and draughts (flush track option only).

Glazing

- ☐ The system is internally glazed as standard and can accommodate glazing with a thickness of 26mm to 58mm.
- ☐ The fitting of the glass units within the panels is carried out prior to fitting and in accordance with glazing instructions.
- ☐ Panel design allows the glass units to be changed if required.
- ☐ All glass panes conform to current Building Regulations.