

## **HIGH-SPEED SPIRAL DOOR, type "EFA-SST® L-ISO/60"**

Manufacture, delivery and installation of:

High-speed spiral door type "EFA-SST® L-ISO/60", with electro-mechanical high-performance door drive for the heaviest, industrial continuous use and for preferred use in frost-free cold rooms.

The door system essentially consists of:

Self-supporting, thermally broken frames with double seals to the door leaf; Steel parts generally galvanised, spiral door leaf mount

The force is introduced on both sides: A synchronous shaft is installed for this purpose. Precision roller hangers with ball bearings must be used for precise, smooth-running and low-noise guidance of the hinge straps. An adequately dimensioned tension spring mechanism is also installed in the door frame, which, in accordance with DIN EN 12604, ensures the weight of the door leaf is balanced and allows the door to be opened manually (e.g. in the event of a power failure).

Door leaf made of double-walled, thermally broken and insulated EFA-THERM® laths (60 mm), which are fastened in hinge strips and moved in the vertical direction (i.e. up or down), surface finish as a 2-layer paint finish similar to RAL 9006 (white aluminium).

The SPIRAL BODY is designed in such a way that the laths of the door leaf are guided past each other completely without contact and therefore without wear and tear.

Possible spiral shapes: round spiral or space-saving oval spiral (please specify)

The door system is equipped with a locking mechanism. Used for actuation an internal hand lever

The DOOR DRIVE is carried out by means of a geared brake motor, which is to be designed as a high-frequency motor. The door positions are permanently recorded using non-wearing, inductive proximity switches, with the end positions being determined electronically. Electromechanical limit switches are not permitted for this.

<b>OPENING SPEED:</b>	<b>Up to approx. 2.0 m/sec.</b>
<b>Max. DOOR LEAF SPEED:</b>	<b>Up to approx. 2.5 m/sec.</b> (depending on door size)
<b>CLOSING SPEED:</b>	<b>Up to approx. 1.0 m/sec.</b>

The **MICROPROCESSOR CONTROL** is installed together with the integrated frequency converter in a separate plastic switch cabinet, protection Class IP 65. Connection to electricity 230V - 50 Hz on site.

The scope of delivery includes a DOOR LIGHT GRID (EFA-TLG®), TÜV-tested and working precisely at the closing level of the door: The safety system is fully protected and integrated into the side frames and generates an extremely tight light grid up to a height of 2.5 m from infrared rays. Obstacles are detected without contact, the automatic closing movement stops immediately.

Regulations according to DIN EN 13241-1 are fulfilled;  
Thermal insulation according to DIN EN 12428 up to 0.93 W/m²K  
Resistance to wind load according to DIN EN 12424 up to Class 4  
Airborne sound insulation according to DIN EN 7171 up to 25 dB(A)  
(Values depend on the door size and equipment)

for clear passage opening

Width = ..... mm x Height = ..... mm

### **OPTIONS for High-Speed Spiral Door "EFA-SST® L-ISO/60" :**

#### **Surface**

Powder coating of all visible galvanised steel parts in a colour according to RAL \_\_\_\_\_ (metallic colours are not available)

**or**

Stainless steel version (V2A) of all visible steel parts, visible surface ground, grit 220, incl. control cabinet made of V2A, incl. guide rollers with V2A bearings

Special painting of the laths in a colour according to RAL \_\_\_\_\_

If both steel parts and laths parts are coated in the same RAL colour, slight colour differences can occur which cannot be completely ruled out due to the different surface structures. However, due to the possibilities of influencing the degree of gloss, the supplier must take the greatest possible precautions to keep the color deviations as small as possible.

#### **Transparency / Door Leaf Design:**

Supplement for aluminium viewing laths EFA-CLEAR® with fully transparent, double-walled and thermally separated viewing fields made of acrylic glass.

#### **Heating:**

Allowance for a heater in the horizontal lintel seal

Supplement for heating in the vertical frame sealing profiles

The heaters prevent condensation and are primarily recommended for temperature ranges between +2°C and 0°C.