

## **HIGH-SPEED SPIRAL DOOR, type "EFA-SST®-L PS"**

Manufacture, delivery and installation of:

High-speed spiral door type "EFA-SST®-L PS", with electro-mechanical high-performance door drive for continuous industrial use

The door system mainly consists of:

Self-supporting lateral steel frames; steel parts generally galvanized, spiral-shaped door guidance

The load is transmitted on both sides: For achieving this, a synchronised shaft will be installed. 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 special aluminium laths (pitch 108 mm), which are attached to hinges and moved in the vertical direction (i.e. up or down), surface finish naturally anodised (E6-EV1)

The SPIRAL BODY is designed in such a way that the laths of the door leaf are guided past each other in a very small space without making contact and are therefore wear-free and quiet. Spiral shape: round spiral

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.

**OPENING SPEED:** Up to approx. 1.8m / sec.  
**Max. DOOR LEAF SPEED:** Up to approx. 2.0m / sec.  
(depending on door size)

**CLOSING SPEED:** Up to approx. 1.0 m / sec.

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 an electrical safety contact edge according to DIN EN12453, self-monitoring: the supply cable must be routed in a protected energy chain within the door frame.

Regulations according to DIN EN 13241-1 are fulfilled;  
Resistance to wind load according to DIN EN 12424 up to Class 4  
Airborne sound insulation according to DIN EN 7171 up to 23 dB(A)  
(Values depend on the size of the door and the equipment)

for clear opening dimensions

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

### **Manufacturer Proof:**

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG  
[www.efaflex.com](http://www.efaflex.com)

## **OPTIONS for High-Speed Spiral Door "EFA-SST®-L PS"**

### **Surface:**

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

Powder coating of the laths in RAL colour \_\_\_\_\_

If both steel parts and slat 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 colour deviations as small as possible.

### **Transparency:**

Supplement for aluminium laths with single-shell, fully transparent viewing areas made of acrylic glass.

### **Ventilation:**

Allowance for aluminium laths with single-leaf ventilation cut-outs.

### **Burglary Protection:**

ALLOWANCE FOR A MECHANICAL LOCKING MECHANISM. An internal hand lever is used for actuation.

### **Limit Switch:**

Inductive limit switch, tamper-proof housed in the frame,  
for the additional "DOOR CLOSE" message to the higher-level control system  
\*Connection and evaluation of the signal on site

### **ALTERNATIVE:**

Inductive safety limit switch (Cat. IV), tamper-proof in the frame  
brought, for the additional message "DOOR CLOSED" to the higher-level control system  
\*Connection and evaluation of the signal on site