

SPIRAL DOOR, type „EFA-SST®-BASIC“

Manufacture, delivery and installation of

Spiral door, type „EFA-SST®-Basic“, with electro-mechanical door drive unit for permanent industrial application

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. For the exact, smooth and low-noise guidance of the hinge straps, ball-bearing precision rolling units have to be used. A sufficiently dimensioned tension spring mechanism, ensuring the weight balancing of the door leaf according to the standard DIN EN 12604 and a manual opening of the door (e.g. in the case of a power failure) is installed in the door frames.

Door leaf made of double-walled, thermally separated and insulated EFA-THERM® laths, which are fixed onto hinge straps and moved vertically (i.e. up or down), surface as 2-layer coating similar to RAL 9006 (white aluminium).

This SPIRAL BODY is designed to guide the laths of the door leaf completely without contact and thus without wear and with best possible noise reduction.

The DOOR is driven by a geared motor. The door positions are registered by electro-mechanic limit switches positioned in the frame.

The **MICROPROCESSOR CONTROL** is installed in a separate plastic switch cabinet, protection type IP 54. The SWITCH CABINET is to be equipped as follows: Foil keypad “OPEN”, “STOP”, “CLOSE” for “dead man’s operation”. Info display with function display and remote diagnosis, power connection 400V / 50 Hz on-site via CEE plugged connection

OPENING SPEED: approx. 0.3 m/s

CLOSING SPEED: approx. 0.3 m/s

Regulations pursuant to DIN EN 13241-1 are complied with;
Heat insulation according to DIN EN 12428 up to 1.4 W/m²K
Resistance to wind load pursuant to DIN EN 12424 up to class 4
Airborne sound insulation according to DIN EN 7171 up to 24 dB(A)
(values depend on the door size and the equipment)

for clear opening dimensions

Width = mm x Height = mm

Manufacturer:

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG

www.efaflex.com

OPTIONS for spiral door “EFA-SST®-Basic” /

Surface

Powder coating of all galvanised steel parts in a colour according to RAL _____
(pearl, luminous and metallic colours not possible)

Special coating of the lath in a colour according to RAL _____

If steel parts as well as lath parts be coated in the same RAL colour, minor deviations in colour may occur which can not be fully avoided due to the different surface structures.
The supplier, however, will make the best possible efforts to keep deviations in colour as small as possible through influencing the degree of gloss.

Transparency

Surcharge for sight lath EFA CLEAR with fully transparent, double-walled and thermally separated windows made of acrylic glass.

Option:

Surcharge for sight lath EFA CLEAR with fully transparent, single-walled windows made of acrylic glass.

For both options available:

Surcharge for sight lath made of impact resistant polycarbonate with scratch-resistant coating

Expansion of the control / automatic operation

Surcharge for AUTOMATIC CONTROL consisting of **MICROPROCESSOR CONTROL** with integrated FREQUENCY CONVERTER. The door leaves are continually positioned via non-wearing inductive 24 VDC proximity switches (INITIATORS) whereby the limits are determined electronically. Electro-mechanical limit switches are not permissible here. Connection to 230V / 50 Hz power supply on-site.

OPENING SPEED: approx. 0.5 m/s

CLOSING SPEED: approx. 0.5 m/s

The scope of delivery includes an electric Safety contact edge, self-monitoring according to DIN EN 12453: Its connection cable must be guided in a protective energy chain within the door frame.

Fixed side element:

Surcharge for fixed lateral element consisting of:

Integrated pedestrian door, DIN (to the left and to the right of the door) with lock and set of door handles (on-site closing cylinder)

Clear passage max. B = 1,500 mm, H = 2,500 mm

Above-fixed cover element incl. required frame structure, similar to door leaf with a total size of ca. B = mm, H = mm

OPTIONS:

- Panic lock for pedestrian door
- Overhead door closer
- Closing cylinder with 3 keys

Burglar protection:

Surcharge for a mechanical LOCKING MECHANISM. Operated by an inside hand lever.

If necessary:

Version with space-saving low lintel guidance

Or

Version with space-saving oval spiral

Automatic interim stop at a height of H = _____ mm

