



HIGH SPEED SPIRAL DOOR type “EFAFLEX SST-Premium”

Manufacture, delivery and installation of

High-speed spiral door, type SST-Premium, with electro-mechanical high-performance door drive for heaviest, 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). Double walled vision laths optional.

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 system is equipped with a **LOCKING MECHANISM**. An internal hand lever is used for operation.

The **DOOR** is driven by a geared motor which has to be developed as high-frequency motor. The positions of the door are permanently detected by means of non-wearing, inductive proximity switches, with the limits being determined electronically. Electro-mechanical limit switches are not permissible here.

OPENING SPEED:	up to approx. 2.0 m/s
Max. DOOR LEAF SPEED:	up to approx. 2.5 m/s (depending on the lifting height)
CLOSING SPEED:	up to approx. 1.0 m/s

The **EFA-TRONIC MICROPROCESSOR CONTROL** is installed together with the integrated frequency converter in a separate plastic switch cabinet, protection type IP 54. Connection to 230V and/or 400 V / 50 Hz power supply on-site.

The scope of delivery includes a **DOOR LIGHT-LINE GRID (EFA-TLG®)**, TÜV certified and exactly effective in the door closing line: The safety system is integrated completely protected into the lateral frames and generates a very tight light grid of infrared beams up to a height of 2.5 metres. Obstructions are detected without contact; the automatic closing movement is stopped immediately.

Regulations pursuant to DIN EN 13241-1 are complied with;
Heat insulation according to DIN EN 12428 up to 0.7 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 26 dB(A)

08/18 Subject to technical changes

(values depend on the door size and the equipment)

Rated for 250,000 cycles per annum. Minimum service life 10 years.

Manufacturer:

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG

www.efaflex.com

Supplied by:

GEA

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