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## LEISSPECIFICATIONS – EX DOORS

POS.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
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### 01.01 EX- DOORS

#### 01.01.0010 HIGH-SPEED ROLLING DOOR Reference product: EFAFLEX type "EFA-SRT®-L EX" Dimensions: 0.000 x 0.000 mm

Manufacture, delivery, and installation of:

High-speed rolling door type "EFA-SRT®-L EX," with electro-mechanical high-performance door drive for continuous industrial use indoors.

A special tension spring mechanism must be integrated into the side door frames for weight balancing of the door leaf and for emergency opening of the gate in the event of a power failure (according to DIN EN 12604). This durable and extremely maintenance-friendly counterbalance device is mandatory. Constructions with torsion springs are not permitted.

Standard door leaf made of black, non-transparent, 1.4 mm thick ATEX curtain, guided on the sides and wound onto a horizontally mounted shaft. A maintenance-free door leaf tension system must be provided to keep the door leaf permanently under tension with up to 800 N when closing. Additionally, the side CURTAIN GUIDES must be designed with special guide devices to ensure flawless winding and unwinding even under the influence of drafts.

Fully sealed steel frame construction, standard sendzimir-galvanized.

The gate drive is operated by a high-frequency motor. The gate positions are continuously detected using wear-free, inductive proximity switches (Zone 1) or using absolute encoders (Zone 2), with the end positions being determined electronically. Electromechanical limit switches are not permitted for this purpose.

The MICROPROCESSOR CONTROL is installed together with the integrated frequency inverter in a separate steel control cabinet, protection class IP 65. Connection to 230 V – 50 Hz power supply is to be provided by the client.

The control system MUST be installed outside the EX protection zone.

#### SAFETY FEATURES:

- Safety contact strip according to DIN EN 12453, self-monitoring, in EX protection design. The supply cable must be routed protected in an energy chain within the door frame.
- Safety light curtain in EX protection design, integrated and protected within the door frame.
- Emergency stop pushbutton in EX protection design (surface-mounted industrial version).

#### EX PROTECTION DESIGN:

The door system is ATEX-compliant according to RL 2014/34/EU and suitable for use in:

- EX Zone 1 (II 2G IIB T4 X)
- EX Zone 2 (II 3G IIB T4 X)

(X: operating and ambient temperature -15°C to +50°C)

All electrical components (except the control cabinet) are ATEX-certified.  
Mechanical EX protection is designed according to the respective EX zone requirements.

All regulations according to DIN EN 13241-1 are fulfilled.  
Air permeability according to DIN EN 12426 Class 0  
(values depend on door dimensions and configuration).

**OPERATING SPEEDS:**

- Opening speed: approx. 1.0 m/s
- Closing speed: approx. 0.5 m/s

Connection on site to 230 V / 50–60 Hz. Fusing: 16 A

Includes functional testing and commissioning for clear opening dimensions:

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

Offered Product:

EFAFLEX type "EFA-SRT®-L EX"

(Bidder specification)

1,000 pieces .....

**01.01.0010**      **Alternative Full Coverage:**  
For drive and shaft

1,000 pieces .....

**01.01.0020**      **Powder Coating**  
of all visible steel parts according to RAL  
(excluding pearl and fluorescent colors)

1,000 pieces .....

**01.01.0030**      **Stainless Steel Version**  
All visible sheet metal parts made of stainless steel (V2A),  
including ball bearings of deflection and guide rollers made of V2A.  
(Small parts located within the frame are not made of stainless steel)

1,000 pieces .....

**01.01.0040**      **Pushbuttons**  
in EX protection design  
Various versions:

- DT-EX, surface-mounted
- DT2-EX, OPEN/CLOSE, surface-mounted
- DT3-EX, OPEN/STOP/CLOSE, surface-mounted

1,000 pieces .....

**01.01.0050**      **Pull Switch**  
in EX protection design

1,000 pieces .....

**01.01.0070**      **Induction Evaluator**  
2-channel, in EX protection design  
*\*including installation of 2 loops*

1,000 pieces .....

**01.01**      **EX-GATES**

**Total:** .....