

1. Construction data

Application

Application	Industrial door, hall closing
Area of application	Exterior and interior door
Operational temperatures	- 15 °C to + 50 °C (no permanent temperature)

Dimensions

SST-XL 268 Premium	Door width	8.000 mm - 10.000 mm
	Door height	1.950 mm - 6.600 mm

Speeds

SST-XL 268 Premium	Opening speed	approx. 0,8 m/s
	Closing speed	approx. 0,4 m/s

Performance parameters according to DIN EN 13241-1

Resistance against wind load according to DIN EN 12424		
SST-XL Premium	W = 8.000mm	→ class 2
	W > 8.000mm	→ class 0 (50miles/h)

Resistance against penetrating water according to DIN EN 12425		
SST-XL Premium		Class 3

Air permeability according to DIN EN 12426		
SST-XL Premium		Class 3

Airborne sound insulation according to EN ISO 717-1		
SST-XL Premium		R _w = 26 dB [Ⓢ]

Thermal insulation according to DIN EN 12428		
SST-XL Premium		U = 0,66 W/(m ² K) at 10.000 mm x 6.600mm [Ⓢ]

[Ⓢ] only with EFA-THERM[®] lath

Fire behaviour

Fire behaviour accord. to DIN 4102 Construction material class B2, normally inflammable

Door leaf guides

Door leaf guides	SST-XL Premium	round
Material	Aluminium sections	

DATE 02

Door system, frame, hood

It is based on a self-supporting design and modular construction. The prefabricated elements are assembled through screwed connections.

Material		
SST-XL Premium	Galvanized steel	Standard
Surfacing		
SST-XL Premium	Powder coating, colours in accordance with RAL	on individual request

Hood cover system

The hood is covered with steel panels. The covering does not fulfil the requirements of a weather protection cover. The cover reduces the clear door height, see quotation drawing.
 Cover bottom and front for H < 2.500mm required as finger protection.

Design types:		
SST-XL Premium	Cover bottom, front and top made of galvanized steel sheet	Option
Surfacing		
Steel sheet cover	Galvanized steel	Option
Colours (conforming door system, frame, hood)		
Steel sheet cover	Powder coating, colours in accordance with RAL	Option

Door Panel

The door panel consists of insulated laths which are vertically connected through laterally attached hinge chains. Horizontally, the laths are connected with hinge rubber sections and parallel-running rubber sealing strips to form a joint resistant to wind and the elements. The door leaf travel is effected using ball bearing guide rollers which run vertically and horizontally in rails made of aluminium. Transmission of force from the centrally lain motor to the door leaf is effected via two synchronizing shafts and two toothed belts integrated and circulating in the side frames and which are connected to the lower bottom lath by door leaf attachments.

EFA-THERM® lath		Standard
SST-XL Premium	80*225 mm thermally separate, insulated lath	
Material	Galvanized steel sheet painted resp. aluminium sheet painted / PU foam	
Surfacing	2 layer paint (primer, topcoat polyurethane / polyamide)	
Colour	Aluminium (similarly RAL 9006) Painted, colours in accordance with RAL	Standard on individual request
ISO Transparent lath		Option
SST-XL Premium	80*225 mm thermally separate, insulated lath with window 545*83 mm Number of window per lath: 8 windows → door width 8000 mm – 10.000 mm	
Material	Galvanized steel sheet painted resp. aluminium sheet painted / PU foam, window: black plastic frame and SAN panes	Standard
Surfacing	2 layer paint (primer, topcoat polyurethane / polyamide)	Standard
Colour	Aluminium (similarly RAL 9006) Painted, colours in accordance with RAL	Standard on individual request

Door sealing

Vertically, a low wear door leaf sealing ensures an effective hand and finger protection. The room is closed between wall and door leaf, directly at the clear door height through an active door head sealing.

Technical Door Description
EFA-SST® XL Premium
Type 268



DATE 02

Weight counter-balance

Counter acting system: Tension springs are installed in the side frames and connected to the drive shaft by heavy load belts. With the door closed, the springs are tensioned and with the door opened, tension is low. The calculation of the spring tension is based on the respective order.

Material	Spring steel wire class C polished and oiled
Function	Crash-down safety
theor. life	approx. 100.000 load changes

Motor brake

By activation of the lever attached to the frame, the brake of the drive is released. The tension spring's mechanical action of the weight balance opens the door partially automatically. The entire door opening can be attained by manually moving the door leaf upwards. The controller is in an EMERGENCY OFF state during activation.

Door locking

The mechanical lock is installed in a lateral frame. The door latch keeps the door leaf closed in a burglar-proof manner. The door locking is operated by a lever attached to the door frame.

Door safety

Closing-edge safety	Door plane light curtain EFA-TLG® in the door closing plane, installed in the door frame.	Standard
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The closing edge protection fulfils the requirements of the product standards for doors DIN EN 13241-1. In addition, it is necessary to secure the approach area by agreement between operator and manufacturer.

Control

SST-XL Premium	Control mcp2 with frequency converter, size 380*380*210mm resp 380*600*210mm, in steel housing (V2A on request), protection class IP65, with EMERGENCY OFF switch, window for display and operator controls OPEN-STOP-CLOSE on front of switchgear cabinet. Standard assembly position at max. 3m from the door frame	Standard
	Supply voltage: 400VAC +/- 10%, 50-60 Hz (3Ph/N/PE), power supply to be protected with 16A, K characteristics, at site, if necessary with FI - circuit breaker (RCD) 300mA according to DIN VDE 0100-530 AC/DC sensitive	Standard

Drive

SST-XL Premium	Bevel-gear three-phase asynchronous motor
Performance class	SST-XL Premium 2,2 kW
Type of protection	IP 54
Position recording	Contactless sensory technology, integrated into the motor

DATE 02

2. Assembly

The design of a high-speed door requires a stable foundation (concrete or steel structure). Light masonry, e.g. hollow block masonry, expanded concrete or ISO walls are to be supported by auxiliary structural elements. In the case of technically difficult installation conditions, please contact EFAFLEX - Bruckberg. Method of installation "pegs", "bolts in steel", "welding to steel" or bolt and nut installation must be specified.

Installation drawing	SST-XL Premium	268 R...
Tractive forces	SST-XL Premium	max. 10,0 kN per frame
Installation position	Internal installation External installation under cantilever roof with restriction	
Installation type	Front header	

3. Special Design

Special designs / Special orders are such types of designs which are not covered mechanically or electrically by standard variants in accordance with the price list in sales or by design variant table technology. A special request must be made for them. For special designs, extra charges and an extended period of delivery will be specified depending on the construction.

4. Applied safety standards

During planning, design and production the following standard was taken into consideration:
DIN EN 13241-1 Doors product standard

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG
Technical Department

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