

**Technical Door Description**  
**EFA-SST® - L/S ECO**  
**Type 263/264**



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This data sheet also describes special designs at extra cost. Therefore, please consult the valid price lists as well.

## 1. Construction data

### Application

Application	Industrial door, hall closing
Area of application	Exterior and interior door
Operational temperatures	- 1 °C to + 0 °C (no permanent temperature)

### Dimensions

<b>SST-L 263 ECO</b>	Door width	1.400 mm - 4.000 mm
	Door height	1.800 mm - 2.000 mm
<b>SST-S 264 ECO</b>	Door width	1.400 mm - 7000 mm
	Door height	1.800 mm - 7000 mm

### Speeds

<b>SST-L 263 ECO</b>	Opening speed	approx. 1,0 m/s
	Closing speed	approx. 0,7 m/s
<b>SST-S 264 ECO</b>	Opening speed	approx. 0,6 m/s
	Closing speed	approx. 0,4 m/s

### Performance parameters according to DIN EN 13241-1

<b>Resistance against wind load according to DIN EN 12424</b>		
SST-L ECO	1.400 mm ≤ W ≤ 2.000 mm	→ class 4
	2.000 mm < W ≤ 3.000 mm	→ class 3
	3.000 mm < W ≤ 4.000 mm	→ class 2
SST-S ECO	1.400 mm ≤ W ≤ 4000 mm	→ class 4
	4000 mm < W ≤ 6.000 mm	→ class 3
	6.000 mm < W ≤ 7000 mm	→ class 2

<b>Resistance against penetrating water according to DIN EN 12425</b>	
SST-L ECO	Class ②
SST-S ECO	Class ②

<b>Air permeability according to DIN EN 12426</b>	
SST-L ECO	Class ②
SST-S ECO	Class ②

<b>Airborne sound insulation according to EN ISO 717-1</b>	
SST-L ECO	R <sub>w</sub> = 44 dB ①
SST-S ECO	R <sub>w</sub> = 42 dB ①

<b>Thermal insulation according to DIN EN 12428</b>	
SST-L ECO	U = 1,1 W/m <sup>2</sup> K at 4.000 mm x 2.000 mm ①
SST-S ECO	U = 0,91 W/m <sup>2</sup> K at 7000 mm x 7000 mm ①

- ① depending on door blade configuration and guidance
- ② class 0 with low header





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**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 motor to the door leaf is effected via a synchronizing shaft 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-L ECO  mm thermally separate, insulated lath  
 SST-S ECO  mm thermally separate, insulated lath  
**Material** Galvanized steel sheet painted resp. aluminium sheet painted / PU foam



**Surfacing** 1 layer paint (primer, topcoat polyurethane / polyamide)  
**Colour** Aluminium (similarly RAL 9007) Standard  
 Painted, colours in accordance with RAL on individual request

**ISO Transparent lath** Option

SST-L ECO  mm thermally separate, double wall  
 SST-S ECO  mm thermally separate, double wall  
**Material** Thermally separated aluminium profiles with two pressed on SAN panes Standard



**Surfacing** Anodized E7VEV1 Standard  
**Colour** Anodized E7VEV1 Standard  
 Painted, colours in accordance with RAL on individual request

**ISO Transparent lath PC-H** Option

SST-L ECO  mm thermally separate, double wall  
 SST-S ECO  mm thermally separate, double wall  
**Material** Thermally separated aluminium profiles with two pressed on surface-coated double-sided polycarbonate panes Standard



**Surfacing** Anodized E7VEV1 Standard  
**Colour** Anodized E7VEV1 Standard  
 Painted, colours in accordance with RAL on individual request

**Transparent lath** Option

SST-L ECO  mm, single wall  
 SST-S ECO  mm, single wall  
**Material** Aluminium sections with pressed on SAN Pan Standard

**Surfacing** Anodized E7VEV1 Standard  
**Colour** Anodized E7VEV1 Standard  
 Painted, colours in accordance with RAL on individual request

**Transparent lath PC-H** Option

SST-L ECO  mm, single wall  
 SST-S ECO  mm, single wall  
**Material** Aluminium sections with pressed on surface-coated double-sided polycarbonate pan Standard

**Surfacing** Anodized E7VEV1 Standard  
**Colour** Anodized E7VEV1 Standard  
 Painted, colours in accordance with RAL on individual request

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<b>Ventilation lath</b>			Option
SST-L ECO	40	mm, single wall	
SST-S ECO	70	mm, single wall	
<b>Material</b>	Aluminium sections with pressed on 2 mm aluminium perforated sheet, perforation 10 mm		
<b>Surfacing</b>	Anodized E7EV1		
<b>Colour</b>	Anodized E7EV1		Standard
	Painted, colours in accordance with RAL		on individual request
<b>Air valve diameter</b> (m <sup>2</sup> , W in m)	LA = (W-0,10) · 0,077 · number of laths		

**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.

**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. 1 0.000 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. Option

**Door safety**

In pursuance with EN 12444 the minimum protection level for the safeguard of the closing edge is achieved through combination of safety edge + light barrier (C-appointment + D- appointment).

<b>Closing-edge safety</b>	Safety edge	Standard
	light barrier	Option
	Door plane light curtain EFA-TLG® in the door closing plane, installed in the door frame.	Option

The closing edge protection fulfils the requirements of the product standards for doors DIN EN 12441-1. In addition, it is necessary to secure the approach area by agreement between operator and manufacturer.

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**Control**

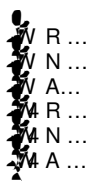
<b>SST-L/S ECO</b>	EFA-CON® with frequency converter, size 0 170 170mm, polycarbonate housing, protection class IP 4 with EMERGENCY OFF switch, window for display and operator controls OPEN-STOP-CLOSE on front of switchgear cabinet. Standard assembly position: fitted at motor side frame at level of sight	Standard
	EFA-CON® separate (e.g. on the wall)	Option
	Control mcp with frequency converter, size 80 80 10mm resp 80 100 10mm, in steel housing (V-A on request), protection class IP 4, with EMERGENCY OFF switch, window for display and operator controls OPEN-STOP-CLOSE on front of switchgear cabinet. Standard assembly position at max. m from door – motor side, at level of sight	Option
	Supply voltage: 0VAC +/- 10 , 0-70 Hz, power supply to be protected with 17A, K characteristics, at site, if necessary with FI – circuit breaker (BCD) 00mA according to DIN VDE 0100- 0 AC/DC sensitive	Standard

**Drive**

<b>SST-L/S ECO</b>	Spur-gear three-phase asynchronous motor	
<b>Performance class</b>	SST-L ECO	0,7 KW
	SST-S ECO	1, 0 kW
<b>Type of protection</b>	IP 4	
<b>Position recording</b>	Contactless sensory technology, integrated into the motor	

**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.

<b>Installation drawing</b>	SST-L ECO	
	SST-S ECO	
<b>Tractive forces</b>	SST-L ECO	max. 4,0 KN per frame
	SST-S ECO	max. 8,0 KN per frame
<b>Installation position</b>	Internal installation	
<b>Installation type</b>	External installation under cantilever roof with restriction Front header	

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### **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 1 41-1 Doors product standard

EFAFLEX Tor- und Sicherheitssysteme GmbH Co. KG  
Technical Department

Bruckberg, 0/07/011