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This data sheet also describes special designs at extra cost. Designs at e

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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 265 Basic	Door width	1.200 mm - 4.500 mm
	Door height	1.800 mm - 5.000 mm

Speeds

SST 265 Basic	Dead man's control	Opening speed	approx. 0,3 m/s
		Closing speed	approx. 0,3 m/s
Automatic control		Opening speed	approx. 0,5 m/s
		Closing speed	approx. 0,5 m/s

Performance parameters according to DIN EN 13241-1

Resistance against wind load according to DIN EN 12424			
SST Basic	1200 mm < W	3000 mm	class 4
	3000 mm < W	3500 mm	class 3
	3500 mm < W	4500 mm	class 2
Resistance against penetrating water according to DIN EN 12425			
SST Basic			Class 3
Air permeability according to DIN EN 12426			
SST Basic			Class 3
Airborne sound insulation according to EN ISO 717-1			
SST Basic			R _w = 24 dB
Thermal insulation according to DIN EN 12428			
SST Basic			U = 1,52 W/(m²K) at 4500 mm x 5000 mm
depending on door blade configuration and guidance			
class 0 with low header			

Fire behaviour

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

Door leaf guides	SST Basic	round, oval, low (low header)
Material	Aluminium sections	

Door system, frame, hood

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

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

Hood cover system

The hood is covered with steel panels and/or laths. 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 Basic		
Door leaf guide round	Cover bottom, front and top made of galvanized steel sheet	Option
Door leaf guide oval	Cover bottom and front made of galvanized steel sheet, only possible up to H ≤ 3.000 mm, top cover not possible	
Door leaf guide low (low header)	bottom cover for horizontal door leaf guide made of galvanized steel sheet	
Door leaf guide round and oval	Cover bottom, front and top made of insulated door laths	Option

Surfacing

Steel sheet cover	Galvanized steel	Option
Door laths	2 layer paint (similarly RAL 9006)	

Colours (conforming door system, frame, hood)

Steel sheet cover	Powder coating, colours in accordance with RAL	Option
Insulated door laths	Paint, colours in accordance with RAL	on individual request

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	40*225 mm thermally separate, insulated lath	Standard
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

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ISO Transparent lath		Option
Material	40*225 mm thermally separate, double wall	Standard
Surfacing	Thermally separated aluminium profiles with two pressed on SAN panes	Standard
Colour	Anodized E6/EV1	Standard
	Anodized E6/EV1	Standard
	Painted, colours in accordance with RAL	on individual request
ISO Transparent lath PC-H		Option
Material	40*225 mm thermally separate, double wall	Standard
Surfacing	Thermally separated aluminium profiles with two pressed on surface-coated double-sided polycarbonate panes	Standard
Colour	Anodized E6/EV1	Standard
	Anodized E6/EV1	Standard
	Painted, colours in accordance with RAL	on individual request
Transparent lath		Option
Material	40*225 mm, single wall	Standard
Surfacing	Aluminium sections with pressed on SAN Pan	Standard
Colour	Anodized E6/EV1	Standard
	Anodized E6/EV1	Standard
	Painted, colours in accordance with RAL	on individual request
Transparent lath PC-H		Option
Material	40*225 mm, single wall	Standard
Surfacing	Aluminium sections with pressed on surface-coated double-sided polycarbonate pan	Standard
Colour	Anodized E6/EV1	Standard
	Anodized E6/EV1	Standard
	Painted, colours in accordance with RAL	on individual request
Ventilation lath		Option
Material	40*225 mm, single wall	Standard
Surfacing	Aluminium sections with pressed on 2 mm aluminium perforated sheet, perforation 6*50 mm	Standard
Colour	Anodized E6/EV1	Standard
	Anodized E6/EV1	Standard
	Painted, colours in accordance with RAL	on individual request
Air valve diameter (m², W in m)	LA = ((W-0,105)*0,066)*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.

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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. Option

Door safety

In pursuance with EN 12453 the minimum protection level for the safeguard of the closing edge is achieved through combination of contact bar + light barrier (C-appointment + D- appointment).

Closing-edge safety

Dead man's control	No safety edge and no light barrier, no automatic closing	Standard
Automatic control	safety edge and one light barrier with automatic control	Option

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

Deadman variante	Reversing contactor control with keyboard for manual operation, size 330*180*90mm, polycarbonate housing, protection class IP54, Standard assembly position: fitted at motor side frame at level of sight. Supply voltage: 3*400 V/N/PE +/- 10%, 50-60 Hz, power supply through CEE plugged connection (socket to be provided by the customers), 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
Automatic variante	EFA-CON [®] with frequency converter, size 530*160*160mm, polycarbonate housing, protection class IP54, 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 Supply voltage: 230VAC +/- 10%, 50-60 Hz, 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	Option

Drive

SST Basic	Spur-gear three-phase asynchronous motor	
Performance class	SST Basic	0,18 kW (deadman) / 0,55kW (automatic)
Type of protection	IP 54	
Position recording	Mechanical limit switch in the frame by dead man's control (deadman) Contactless sensory technology, integrated into the motor (automatic)	Standard Option

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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 Basic	265 R ... 265 N ... 265 A ...
Tractive forces	SST Basic	max. 4,0 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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