

High turbo speed roll-up door, Type „EFA-STR® Flex Eco“

Manufacturing, delivery and installation of:

EFAFLEX offers the high turbo-speed roll-up door type “**EFA-STR® Flex Eco**”, designed for demanding industrial continuous operation. This door combines top-notch performance with outstanding durability.

The **door system** consists of galvanized, self-supporting steel frames with a spiral door leaf reception. A dual-sided synchronous shaft ensures even force distribution. Precision ball-bearing rollers provide exact, smooth and quiet guidance of the hinge bands. A spring mechanism certified according to DIN EN 12064 balances the weight of the door leaf, allowing manual opening in case of a power failure.

The flexible **door leaf** consists of wear-free, single-layer PVC fabric and is positively driven in a vertical direction. Four standardized segment fields are connected into individual modules that can be easily and quickly replaced. Available curtain colours are blue, red, yellow, and gray. On request, a transparent viewing field with a nominal height of approximately 900 mm is available at no extra cost. The curtain is guided precisely on the sides, eliminating longitudinal stretching. Anodized aluminum rods reinforce the door leaf, and the modular design allows for quick and cost-effective replacement of individual sections.

The innovative **spiral body** of the door is designed so that the laths of the door leaf pass each other completely contact-free. This guarantees wear-free and quiet operation.

The **door drive** is powered by a high-performance high-frequency geared brake motor. Inductive proximity switches continuously and precisely detect the door positions, with the end positions determined electronically. Electromechanical limit switches are not permitted.

Opening speed:	up to approx. 1,9 m/sec.
Max. door leaf speed:	up to approx. 2,0 m/sec. (depending on door size)
Closing speed:	up to approx. 1,0 m/sec.

The **EFA-TRONIC®** control system with integrated frequency converter is housed in a plastic control cabinet (protection class IP 65). Connection to the power supply is made with 230V or 400V at 50 Hz (provided by the customer).

The integrated TÜV-approved door line light grid (**EFA-TLG®**) ensures maximum safety. It is integrated into the side frames and creates a dense infrared light grid up to a height of 2,5 m. Obstacles are detected without contact, and the automatic closing movement is immediately stopped.

Regulations according to DIN EN 13241-1 are fulfilled;
Resistance to wind load according to DIN EN 12424 up to class 4
Air permeability according to DIN EN 12426 class 1
Airborne sound insulation according to DIN EN ISO 7171 up to 12 dB(A)
Thermal insulation according to DIN EN 12428 up to 6,0 W/m²K
(Values depend on door size and equipment)

for clear height

Width = mm x Height = mm

Manufacturer's certificate:

EFAFLEX Tor- und Sicherheitssysteme GmbH & Co. KG
www.efaflex.com

05/2024 Technical changes reserved