

HIGH-SPEED ROLL-UP DOOR, type „EFA-SRT® CR Efficient“

Manufacture, delivery and installation of

Roll-up door with flexible curtain with low air loss for permanent industrial application in hygienic and clean rooms for application with limited installation spaces and low to medium GMP requirements.

The door system „EFA-SRT® CR Efficient“ is approved for usage in classified rooms up to ISO class 6 (DIN ISO 14644) acc. to TÜV SÜD for particle sizes $\geq 0.1 \mu\text{m}$. With an air pressure difference of up to 30 Pa there is only an air loss of up to 40m³/h (depending on the size and installation side).

All visible steel parts of the self-supporting construction are powder coated according to RAL. Especially slim columns (75x100 mm) and the small head box (min. 380 mm) enable a very space-saving installation.

The drive (electric motor with integrated gear, brake and absolute encoder IP55) is connected in an axial way to the winding shaft; the control is a microprocessor-controlled control with frequency converter. All controller components incl. membrane keypad (Open-Stop-Close) and info display are integrated in the polycarbonate box with sizes 220 x 565 x 200 mm and protection type IP 65 next to the door.

By means of the absolute encoder a manual respectively automated synchronisation after first switch-on the door or after power failure is not required any more.

The curtain is made of 2 mm thick PVC coated, flexible polyester fabric (FDA approved, antistatic, silicon-free) which is rolled up onto a horizontally running, galvanised shaft.
Colours: papyrus-white similar to RAL 9018, light-grey similar to RAL 7035, signal-grey similar to RAL 7004.

The door curtain is held within the guidance (columns) by means of laterally fixed wind buttons onto the left and the right hand side of the door curtain.

Accident protection:

The scope of supply includes a photo cell fitted into the door frame as well as a self-monitoring safety contact bar according to DIN EN12453. Signal of the contact bar is sent by wireless radio transmission; an EMERGENCY STOP shock switch is attached to the frame as standard.

Emergency opening of the door e.g. in the case of power failure is possible on installation side of the opening via manual hand crank.

All regulations pursuant to DIN EN 13241-1 are complied with.

OPENING SPEED:	approx. 0.8 m/s
Max. DOOR LEAF SPEED (Depending on door size)	up to 1.0m/s
CLOSING SPEED:	approx. 0.5 m/s

On-site connection to 230 V / 50-60 Hz. Fuse 16 A

With function test and commissioning for clear opening (max. W x H = 3,000 x 3,500 mm)

Width = mm x Height = mm

Manufacturer:

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

Options for the HIGH-SPEED ROLL-UP DOOR, type „EFA-SRT® CR Efficient“

Curtain types:

2 mm PVC-coated polyester fibre according to the FDA Regulations 175.300, 178.2010 and 178.3740 on the transport of dry food, in colours

- blue, similar to RAL 5002, antistatic, silicone-free
- orange, similar to RAL 2008, non-antistatic, silicone-free
- red, similar to RAL 3002, non-antistatic, silicone-free
- yellow, similar to RAL 1021, non-antistatic, silicone-free

Window:

Window made of soft PVC, not approved in accordance with FDA Regulations. Due to the high tightness of the door, this window is subject to more wear and tear. The antistatic behaviour of the door leaf is reduced by a PVC window.

Complete coverings:

- 45° bevelled
- 90° vertical up to ceiling (only possible between H + 370 mm and H + 1100 mm)

Surface

- Stainless steel version (V2A) of all visible steel parts

Safety:

- Electrical emergency opening with UPS via separate button
- Max. 2 photo cells in door frame, radars and active infrared sensor element for safety

Activator and displays:

- clean room-compatible pressure switch (AP or UP), pull switch, radars
- contact-less proximity switch
- red/green LED traffic light, clean room version

GMP clean room air lock

Delivery and assembly of 2 high-speed roll-up doors to the prepared substructure in a clean room air lock with interlocking.