SIMON RWA®
Begeisterung trifft Technik

Fire PROtec® - Fire Curtain

The legal regulations in Europe demands that buildings are to be located, built, modified or maintained in a way that prevents fires from starting or fire and smoke from spreading while making it possible to rescue people and animals as well as enabling effective firefighting.

Fire curtains are an important component in current fire protection plans to prevent fires from spreading in buildings as well as for securing escape and rescue routes. By using these mobile systems new standards are set for creative freedom in building design. Automatic fire curtains are used especially in strongly frequented buildings such as shopping malls, underground parking and public facilities.

We use the latest manufacturing technology in the area of sheet metal forming to guarantee top quality and complete stability. The building structure is not affected, because head boxes and side guides can be integrated in the building. Even where steel plating remains visible for civil engineering reasons, high quality powder coating is available in all RAL-colours for a first-class surface.

Fire PROtec® fire curtains are made from high-quality, tear-resistant glass fabrics. Fabrics reinforced with stainless steel are vertically sewn with tear-resistant stainless steel thread. Fabrics are smoke-proof according to DIN EN 1634-3 and heat resistant according to STC (see graph) for up to 120 minutes. Rooms are closed off for 90 minutes. Additionally in the first 20 minutes of a blazing fire the system takes care of a reduced thermal radiation (< 15 kW/m²). Thus a safed passing of the ways along the Fire Curtain system is ensured. The complete Fire PROtec® system is classified by DIN EN 13501-2 E90 EW20 C2.

When the Fire Curtain is installed on the inside of buildings, one-side coated glass fabric according to DIN 4102-1, A2.

Simon Fire PROtec systems are tested according to EN 1634-1, classification E 90 EW 20 C2*, DIN EN13501-2 requirements.

Further tests:

- Fabric is fire-proof according to DIN 4102-1, A2, and smoke-proof according to DIN EN 1634-3
- Long-term function tested according to DIN EN 1191, 10,000 cycles
- Weatherproof for outdoor use

* E90: Closes off rooms for 90 minutes | EW20: Limitation of thermal radiation for 20 minutes | C2: Self-closing, tested in 10,000 cycles

Technical Data:

Fire PROtec® Fire Curtain Item number:

Fabric:	One-side fluorocarbon-coated glass fabric, about 680 g/m2, A2 according to DIN 4102-1, colour: grey
Unwind:	descending by gravity (fail safe)
Wind up:	planet drive, 24 V DC, 3 A with electric load breaking; maximum turning moment 4 Nm, roll shaft-integrated.
Installation:	Ceiling / wall with appropriate approved mounting material
Maximum size:	Width = 6 m, drop length = 6 m
Head box (W x H):	Steel plate 1.2 mm powder-coated, RAL 7035 (standard colours), 150 x 180 mm or 180 x 210 mm for drop over 3 m
Side guides (W x H):	Steel plate 1.2 mm powder-coated, RAL 7035 (50 x 100 mm)
Bottom Bar:	Steel plate powder-coated, RAL 7035 with integrated round steel in fabric bag
Classification:	E 90 EW 20 C2 according to DIN EN 13501-2
Fire resistance duration:	90 minutes

Article

Typ	Item number
Fire PROtec® Fire Curtain	FSV 53011

Additional parts for curtain systems

The control unit of smoke and fire curtains can be combined with many components.

Accessories	Item number
Motor control module AM-830 Controls the roller unit directly at the headbox: ▪ Current Limit in case of turning ▪ DIP-switches for settings ▪ Stroke limit programming ▪ Tandem mode in synchron run ▪ Low voltage realization in tandem mode ▪ Turn-switch for hold current ▪ Soft-start ▪ Dry contact ▪ Programming connection ▪ Service button ▪ Counter ▪ Speed sensor failure monitoring	M2 3330

■ Provide hold current in battery mode	
SHEV® 3 RSV Known SHEV® 3 compact control unit updated to functionality for fire and smoke curtains. Without retriggering and longer power supply in battery mode. For one roller unit. **Productdetails: SHEV 3**	ST4 3170
SHEV® 6 RSV Known SHEV® 6 compact control unit updated to functionality for fire and smoke curtains. Without retriggering and longer power supply in battery mode. For two curtains. **Productdetails: SHEV 6**	ST4 3171
Modular control unit ESM RSV Known ESM modular control unit updated to functionality for fire and smoke curtains. Without retriggering and longer power supply in battery mode. For each 3 A you can control one roller. **Productdetails: ESM**	ST4 3421
RSV/FSV-ST Service button with unwind position generator	SD1 8550