SIMON RWA®
Begeisterung trifft Technik

# Smoke PROtec® - smoke curtain / smoke barrier

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. It's not fire that kills – it's smoke! This is why smoke curtains are an important component of current fire protection plans to control smoke gasses, prevent them from spreading and therefore keeping escape and rescue routes clear of smoke. These systems set new standards for creative freedom in building design. Automatic smoke curtains are used especially in strongly frequented buildings.

We use the latest manufacturing technology in the area of sheet metal forming to guarantee top quality and complete stability. Any visible steel plating is powder-coated and therefore given a perfect surface for visible use. The box's parts are connected invisibly by spot welding respectively welding studs on the inside of the box.

Smoke PROtec® smoke curtains are exclusively made from high-quality, tear-resistant glass fabrics. Fabric panels are stitched together vertically with tear-resistant stainless steel thread. Fabrics are smoke-proof according to DIN EN 1634-3 and heat-resistant according to DIN EN 12101-1 at 600 degrees Celsius for up to 120 minutes. Mass per unit area for the one-side PU-coated glass fabric is 590 g/m2. It is non-inflammable according to DIN 4102-1, building material class A2.

The smoke curtain Smoke PROtec®'s system features reach ASB 3 D120 classification and can therefore also be used for personal security (securing escape and rescue routes).

Simon Smoke PROtec systems are tested according to DIN EN 12101-1. Optional use of special side guides helps to avoid small openings and smoke curtain displacement. Fabric is smoke-proof tested according to the test procedures in accordance with DIN EN 1634-3. Long-term function > 1,000 cycles proven successfully.

## Technical Data:

| Smoke PROtec® smoke curtain Item number: | |
|---|---|
| **Fabric:** | One-side PU-coated glass fabric 590 g/m2, colour: grey, non-inflammable according to DIN 4102-1, A2, smoke-proof tested according to the test procedures in accordance with DIN EN 1634-3. |
| **Unwind:** | descending by gravity (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 or wall mounted with appropriate approved mounting material |
| **Maximum size:** | width = 30 m, drop length = 6 m |
| **Head Box (W x H):** | Steel plate 1.2 mm powder-coated, RAL 7035 **Single curtain (up to 6 m width)** 150 x 180 mm or 180 x 210 mm for drop length > 3 m **Multiple curtains (over about 6 m width)** 150 x 300 mm or 180 x 360 mm for drop length > 3 m / shafts next to each other 280 x 180 mm or 340 x 210 mm for drop length > 3 m / shafts next to each other |

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|---|---|
| **Bottom Bar:** | Steel plate powder-coated, RAL 7035 with integrated round steel in fabric bag for energy free dropping |
| **Classification:** | EN 12101-1, ASB 3, D120 (fail-safe) |
| **Fire resistance duration:** | 2 hours at 600°C (according to DIN EN 12101-1) |

## Article

| Typ | Item number |
|---|---|
| Smoke PROtec® smoke curtain | RSV 52010 |
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## 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**<br>Controls the roller unit directly at the headbox:<br>■ Current Limit in case of turning<br>■ DIP-switches for settings<br>■ Stroke limit programming<br>■ Tandem mode in synchron run<br>■ Low voltage realization in tandem mode<br>■ Turn-switch for hold current<br>■ Soft-start<br>■ Dry contact<br>■ Programming connection<br>■ Service button<br>■ Counter<br>■ Speed sensor failure monitoring<br>■ Provide hold current in battery mode | M2 3330 |
| **SHEV® 3 RSV**<br>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.<br>**Productdetails: SHEV 3** | ST4 3170 |
| **SHEV® 6 RSV**<br>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. | ST4 3171 |

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| **Productdetails: SHEV 6** | |
| **Modular control unit ESM RSV** <br> 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. <br> **Productdetails: ESM** | ST4 3421 |
| **RSV/FSV-ST** <br> Service button with unwind position generator | SD1 8550 |