



# Fire Curtain **Fire PROtec**<sup>®</sup>

ATELIER UNDFREUNDS

## TECHNICAL DATA

<b>Fabric for outdoor use</b>	Glass fabric with silicone coating on both sides, about 800 g/m <sup>2</sup> , Toxicologically tested, B1 according to DIN 4102-1, colour: grey
<b>Fabric for indoor use</b>	One-side fluorocarbon-coated glass fabric, about 680 g/m <sup>2</sup> , A2 according to DIN 4102-1, colour: grey
<b>Unwind</b>	descending by gravity (fail safe)
<b>Wind up</b>	planet drive, 24 V DC, 3 A with electric load breaking; maximum turning moment 4 Nm, roll shaft-integrated.
<b>RSV-500 motor control panel</b>	Plastic housing (w x h x d) 200 x 145 x 55 mm integrated emergency power supply optional
<b>Installation</b>	Ceiling / wall with appropriate approved mounting material
<b>Maximum size</b>	Width = 6 m, drop length = 6 m
<b>Head box (w x h)</b>	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
<b>Side guides (w x h)</b>	Steel plate 1.2 mm powder-coated, RAL 7035 (50 x 100 mm)
<b>Bottom bar</b>	Steel plate powder-coated, RAL 7035 with integrated round steel in fabric bag
<b>Classification / Standardisation</b>	E 90 EW 20 C2 according to DIN EN 13501-2 *
<b>Fire resistance duration</b>	90 minutes

## Approvals and Tests



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



Latest references: We will be happy to send you the latest references from all around the world. You can also download them at [www.simon-rwa.de](http://www.simon-rwa.de).



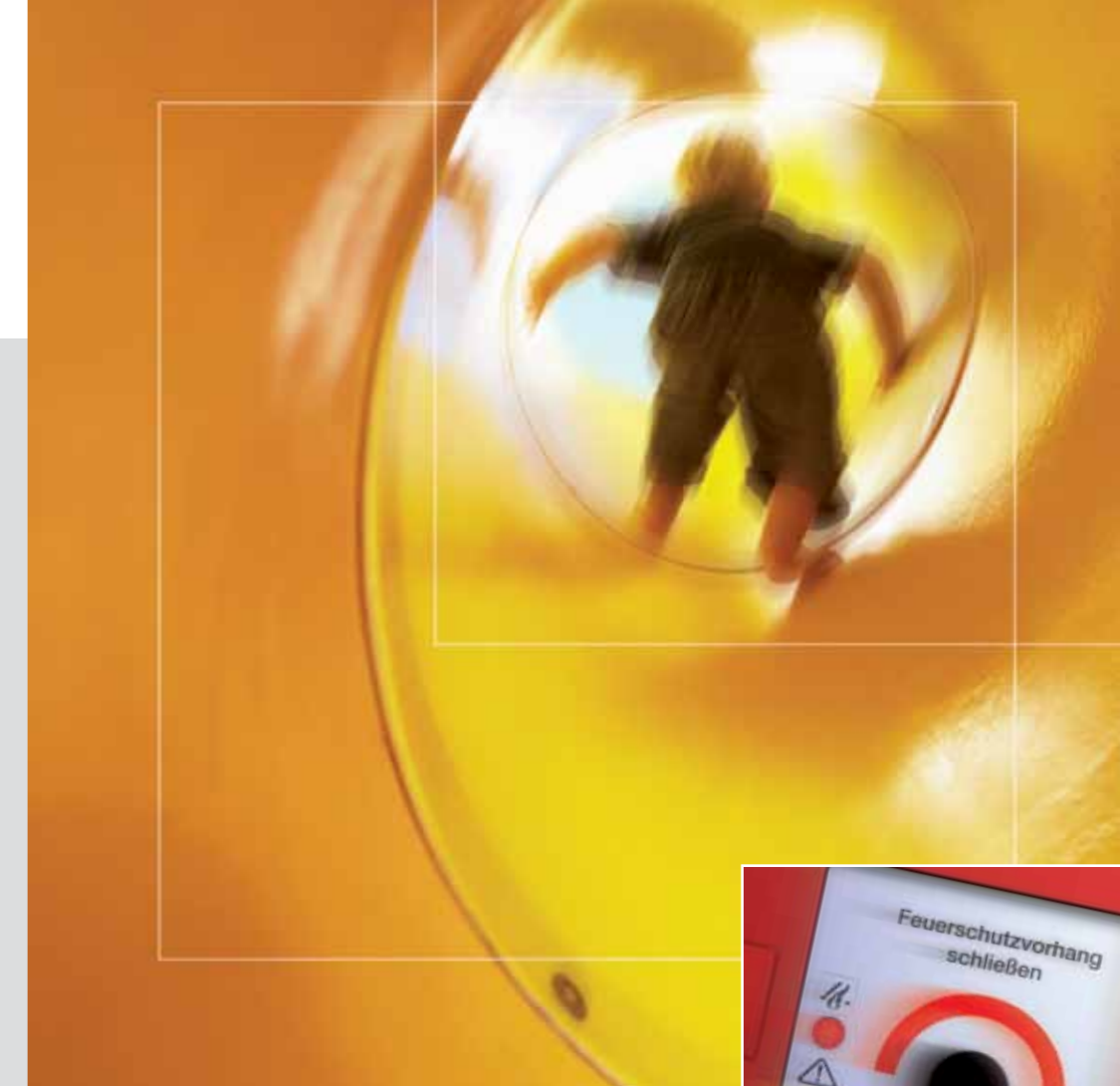
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# Safely Prevent Fires from Spreading

Fire PROtec<sup>®</sup> - Fire Curtains





# Fire PROtec® – Automatic Fire Curtain

## Getting out safely

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.



### << Grafenau Primary School

Snack bar can be closed off in case of fire. Fires cannot spread into escape routes.

### < Administrative Building Berlin

Fire curtain in front of elevator doors. Prevents fires from spreading to other levels.

### ∨ Greifswald University Hospital

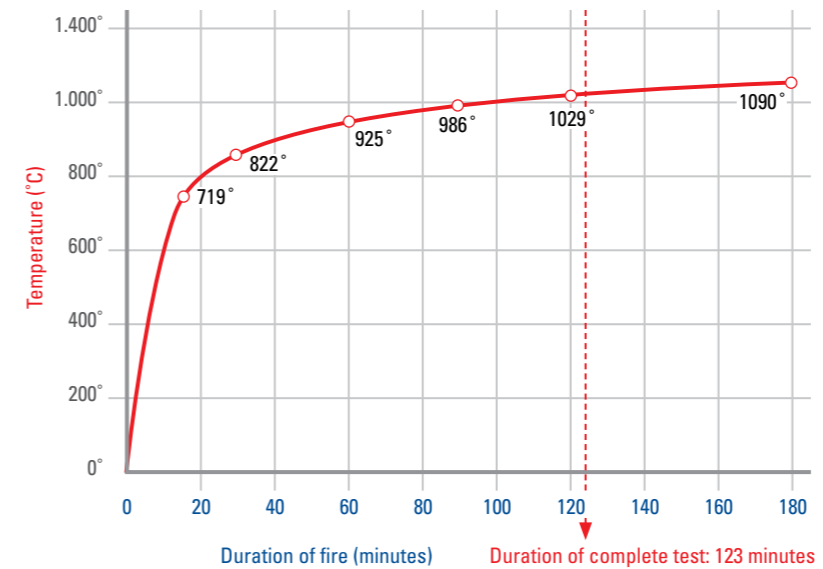
Fire curtain on outer side of windows. Prevents fires from spreading in corner areas. Fire-protective glazing is not necessary.



## Fire PROtec® with glass fabric

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/m<sup>2</sup>). 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,



### ^ MPA Stuttgart

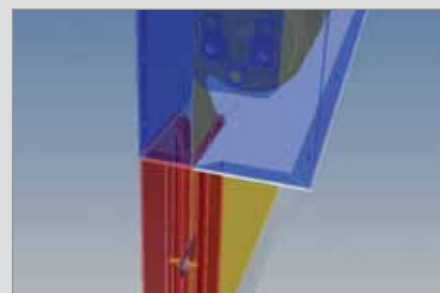
Fire test according to DIN EN 1634-1

### < Standard Temperature Curve (STC)

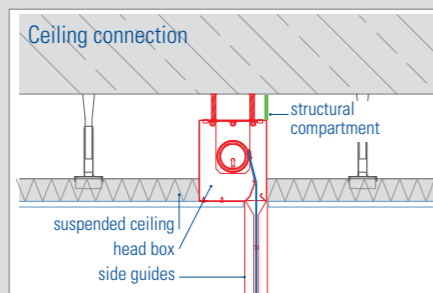
Temperature development during a fire according to a standard temperature curve (STC); in compliance with DIN 4102.

## System Structure: Head box and Side Guides

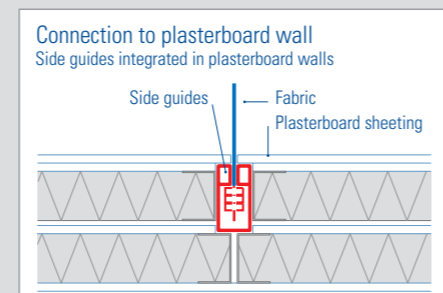
We use the latest manufacturing technology in the area of sheet metal forming to guarantee top quality and complete stability. The building structure is not affected, because head boxes and side guides can be integrated in the building. Even where steel plating remains visible for civil engineering reasons,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



Side guides with restraint system ^



Vertical section, suspended plasterboard ceiling ^



Horizontal section of side guides ^

## Control system: Control panel RSV-500



Compact design, including optional emergency power supply ^

The RSV-500 control panel with its compact and high-performance technology is based on a peripheral design. Each motor has its own control panel installed directly at the fire curtain. Connection with a 230 V power supply is made directly at the smoke or fire curtain to avoid large-diameter 24 volt lines. The control panel includes a switching power supply to provide the 24 volt dc-roller shutter drive with power for rolling up the curtain and a compact battery to keep the curtain at a pre-defined "stand-by position" in case of power failure. An integrated microprocessor controls all relevant processes and states. A programming mode is used to control the device. The smoke or fire curtain can be controlled either by the fire alarm system, a smoke detector integrated into the system or activated manually. No power is needed to let the curtain down!