



Global Fire Control Solutions

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National Building Specification
FireSafe Plus 2

Product Reference:
FireSafe Plus 2
Automatic Fire Barrier

Approved Standards:
BS EN 16034:2014
BS EN 1634-1:2008
BS EN 1363-1:1999
BS EN 1363-2:1999
BS EN 13501-2:2007+A1:2009

Description:
The FireSafe Plus is an electrically operated Automatic Fire Barrier, to be used to form a barrier against fire.

Product Performance:
Complete product tested to BS EN 1634-1:2008 achieving Integrity (E) performance of 60 minutes and Insulation (EI) 45 minutes, and is classified in accordance within BS EN 13501-1:2007+A1:2009 as E60 EW 60 EI260 an EI245.

The FireSafe Plus 2 can be provided to protect openings widths from 3m wide x 3m high.

Classification Periods: 10, 15, 20, 30, 45, and 60

Table with 15 columns: R, E, I, W, t, t, -, M, S, C, IncSlow, sn, EF, r. Values: 60, I1, 60, C0

Table with 15 columns: R, E, I, W, t, t, -, M, S, C, IncSlow, sn, EF, r. Values: 60, I2, 60, C0

General Description:

The Automatic Fire Barrier head box is manufactured from 1.2 mm mild steel with removable cover plates allowing access to the fabric curtain rollers.

Standard head box sizes are 500 mm x 200 mm. A suitably weighted bottom bar is provided to prevent deflection and ensure correct operation under gravity.

The unique design incorporates two side by side systems with a 100 mm gap between each fabric curtain. This creates a thermal insulation in-between the two layers of fabric curtain trapping the heat in-between both elements to reduce the thermal heat and irradiance of heat transference on the non-fire safe side.

This provides an Insulation (EI) Automatic Fire Barrier so that occupants can pass by safety, on protected means of escape routes.

The system requires Promat 9 mm Supalux fire board to cover any exposed steel surfaces.

The system is designed so that either side of the Automatic Fire Barrier can be the safe or fire side.

Control System:

The control panel [model CSV- 01 GFS] meets the following EU Directives: Low Voltage Directive 2006/95/EC and Electromagnetic Compatibility Directive 2004/108/EC.

Under normal operating conditions the Automatic Fire Barrier would be held in the retracted position via the motor brake operating at low voltage. Upon activation of the fire alarm the control panel will remove the power from the brake and the Automatic Fire Barrier will descend, under gravity and in a controlled manner. A dynamic braking system housed in the motor control circuit will control the speed of descent.

To retract the Automatic Fire Barrier, a 24Vdc supply powers the motor, which drives the Automatic Fire Barrier to the upper position. As the bottom bar interfaces with the head box, the limit setting holds the bottom bar in the retracted position.

Should the mains power fail to the control panel the supply is automatically switched to the integral standby battery. The Automatic Fire Barrier remains in the retracted position for up to 12 -24 hrs, depending on the size and weight of the curtain. The Automatic Fire Barrier will remain fully operational until the battery low voltage cut off facility reads a voltage of 21V, the Automatic Fire Barrier will then safely descend under gravity to its fire operational position.

Optional Extra's

Split Drop:

An optional braking system is available to allow a stage descent during deployment. Partial descent to a predetermined level to permit preliminary escape and initial smoke containment at high level, after the delay the Automatic Fire Barrier descends to its fire operational position.

Smoke Seals

Located in the steel side guides and the head box, the smoke seals will limit the smoke leakage as the Automatic Fire Barrier fire curtain descends.

Delay on Alarm:

The control panel can be programmed to allow a timer delay on the alarm for a number of minutes before the Automatic Fire Barrier descends to its fire operational position.

Beam Sensor

A beam sensor can be used as either a block sensor or an override; when the fire alarm is activated and someone passes under the Automatic Fire Barrier then the beam sensor can be wired to either stop or to retract the Automatic Fire Barrier. Please note that when used in isolation the beam sensor does not trigger a sound.

Emergency Retract Switches:

Hold on retract facility for escape and emergency service access.

Visual Alert System:

Flashing beacon and sounder can be connected via the control panel and can provide a warning, when the Automatic Fire Barrier is about to descend. When the fire alarm has been set off, with the Automatic Fire Barrier deploying, the beacon will flash and with a sounder alert, until the signal from the alarm is reset. Please note that when used in isolation the audio-visual unit does not stop the Automatic Fire Barrier descending or retract the Automatic Fire Barrier.

Smoke & Fire Curtains Ltd. has a policy of continuous product improvement. As such we reserve the right to change design and specifications without prior notice. Please check our website for the latest information.