



Technical Specification / Data Sheet

Product: LBS FireSafe 60 Fire Curtain

Supplier

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Approved Standards

Automatic Fire Barriers

Approved Standards:

BS 476: Part 22: 1987

BS 476: Part 20: 1987

BS EN 12101 Annex B

EN13501-2:2007 + A1:2009

Description

The LBS FireSafe 60 is an electrically operated automatic Fire Barrier, to be used to form a continuous barrier against fire

Product Performance

Complete product tested to BS 476: Part 22: 1987 Clause 8 and achieved a rating of 1000°C, above 60 minutes

When tested to BS 476 Part 22: 1987 the LBS FireSafe 60 product achieved Integrity performance of 60minutes

Classifications as detailed within EN 13501 – 2:2007 + A1: 2009 therefore detailed as E60 Integrity

Designed to operate for 2000 cycles at normal ambient temperatures in the range of 0°C to 60°C and to withstand hot air and smoke at temperatures up to 1000°C for over 60 minutes once only

The LBS FireSafe 60 can be provided to protect openings widths of up to 7m and heights up to 6.6m

General Description

The curtain head box is manufactured from 1.2mm zintec steel, the enclosure is rated at the same temperature as the curtain fabric
Removable cover plates are incorporated to allow access to the curtain rollers. Standard head box sizes are 160mm x 160mm larger head boxes may be required where the curtain drop is in excess of 3m. A suitably weighted bottom bar is provided to prevent deflection and ensure correct operation under gravity.

The roller is constructed from tube, each of which incorporates a 24volt D.C motor. The fabric curtain is manufactured from stainless steel reinforced glass fibre fabric. The curtain fabric is made from filament glass fibre, treated with proprietary Finish to enhance temperatures resistance. Both sides of the fabric are coated with a flame-retardant silver-grey aluminium filled polymer. The weight is approx. 450 g/m² in its finished form.

Side guides with a fabric retaining system shall be installed either side to provide a seal between the curtain fabric and the surroundings.

The LBS FireSafe 60 curtain has fixing options to suit all types of ceiling configurations and can be integrated into either a suspended or a solid ceiling. It remains hidden until required. Upon receiving a signal from the fire detection system or on loss of power with the gravity fail safe system, the curtain automatically unwinds to its operational position

Control System

The panel model number is FC– 01 GFS and is classified within the following EU Directives: Low Voltage Directive 2006/95/EC and Electromagnetic Compatibility Directive 2004/108/EC.

Under normal operating conditions the curtains would be held in the retracted position via the motors operating at low voltage. Upon activation of the fire alarm the control panel will remove the supply voltage and the curtain will descend under the power of gravity in a controlled manner. A dynamic braking system housed in the motor control circuit controls the speed of descent of the curtain, with a common bottom bar.

To retract the curtain the control panel supplies 24v to the motor and the motors drive the curtains to the upper position. As the bottom bar hits the curtain head box the limits setting holds the bottom bar in the retracted position.

Should the mains power fail to the group control panel the supply is automatically switched to the integral standby battery.

The curtain remains in the retracted position for 24hrs. The curtain will remain fully operational until the battery low voltage cut off facility reads a voltage of 21v, the curtains will then safely descend under the power of gravity to the operational position

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Optional Extras

- **Split Drop**
An optional braking system is available to allow a stage descent during gravity deployment. Partial descent to a predetermined level to permit preliminary escape and initial smoke containment, after delay the barrier descends to full operational position
- **Delay on Alarm**
The system control can be programmed to allow a timer delay on the alarm for several minutes before the barrier descends to its fire operations position
- **Beam Sensor**
A beam sensor by itself can be used as either a block sensor or an override; when the fire alarm goes off and someone passes through the curtain the beam sensor can be wired to either stop the curtain in its tracks or to retract the curtain. Please note that when used in isolation the beam sensor does not trigger a sound
- **Emergency Override Switches**
Hold on retract facility for escape and emergency service access
- **Visual Alert System**
Flashing light and sirens are connected to the control panel and provide a warning when the curtain is about to descend. When the fire alarm is triggered, and the fire curtain deploys the beacon will flash and a sounder alert until the signal from the alarm is lost. Please note that when used in isolation the audio-visual unit does not stop the fire curtain descending or retract the curtain
- **Decal Stencil / Label**
Giving occupants clear indication confirming the location of the push-through overlap

SITE INSTALLATION

LPS 1056: Issue 5 (Requirements and tests for fire doors, lift landing doors and shutters.)
Test closing and reset leaving in working order
Provide Certificate of Conformity

WARRANTY

The manufacturer will provide a 12-month warranty excluding damage caused by impact, vandalism or misuse
(Exclusions may apply if any element is sublet to an unauthorised party)

MAINTENANCE

It is a legal requirement to regularly maintain all fire rated equipment. Under the Regulatory Reform (Fire Safety) BS9999:2008 Code of practice for fire safety in the design, construction and use of buildings
Work to certified in accordance with Loss Prevention Certification Board (LPCB) in respect to LPS 1197: Issue2 (Requirements for LPCB certification of firms undertaking the maintenance and repair of doors, shutters, smoke /fire barriers) providing confirmation that the product has passed inspection and compliant with current statutory requirements
The frequency of this maintenance is determined by the use and occupancy of the building.

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