



National Building Specification FireSafe 240

Product Reference:

Firesafe 240
Automatic Fire Barriers

Approved Standards:

BS EN 1634-1:2008
BS EN 1363-1:1999
BS EN 1363-2:1999
BS EN 12101 Annex B
EN13501-2:2007 + A1:2009

Description:

The FireSafe 240 is an electrically operated automatic Fire Barrier, to be used to form a continuous barrier against fire.

Product Performance:

Complete product tested to (BS) EN1634- 1 and achieved a rating of DH (1000°C, above 240 minutes).

When tested to EN1634- 1 the FireSafe 240 product achieved Integrity performance of 264minutes and irradiance (W) of 30 minutes.

Classifications as detailed within EN 13501 – 2:2007 + A1: 2009 therefore detailed as E240 EW30.

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 240 minutes once only.

The Firesafe 240 can be provided to protect openings widths of upto 30m on an overlapping system and heights upto 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 180mm x 180mm 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 stainless steel reinforced glass fibre. The weight is approx. 640 g/m² in its finished form. Fabric thickness is 0.54mm and the weave is 8 shaft satin and is tested to withstand temperatures of up to 1000°C for a period of 264 minutes.

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

The Firesafe 240 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, this is electronically synchronised on overlapping curtains 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.



Optional Extra's

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 a number 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 Over Ride Switches:

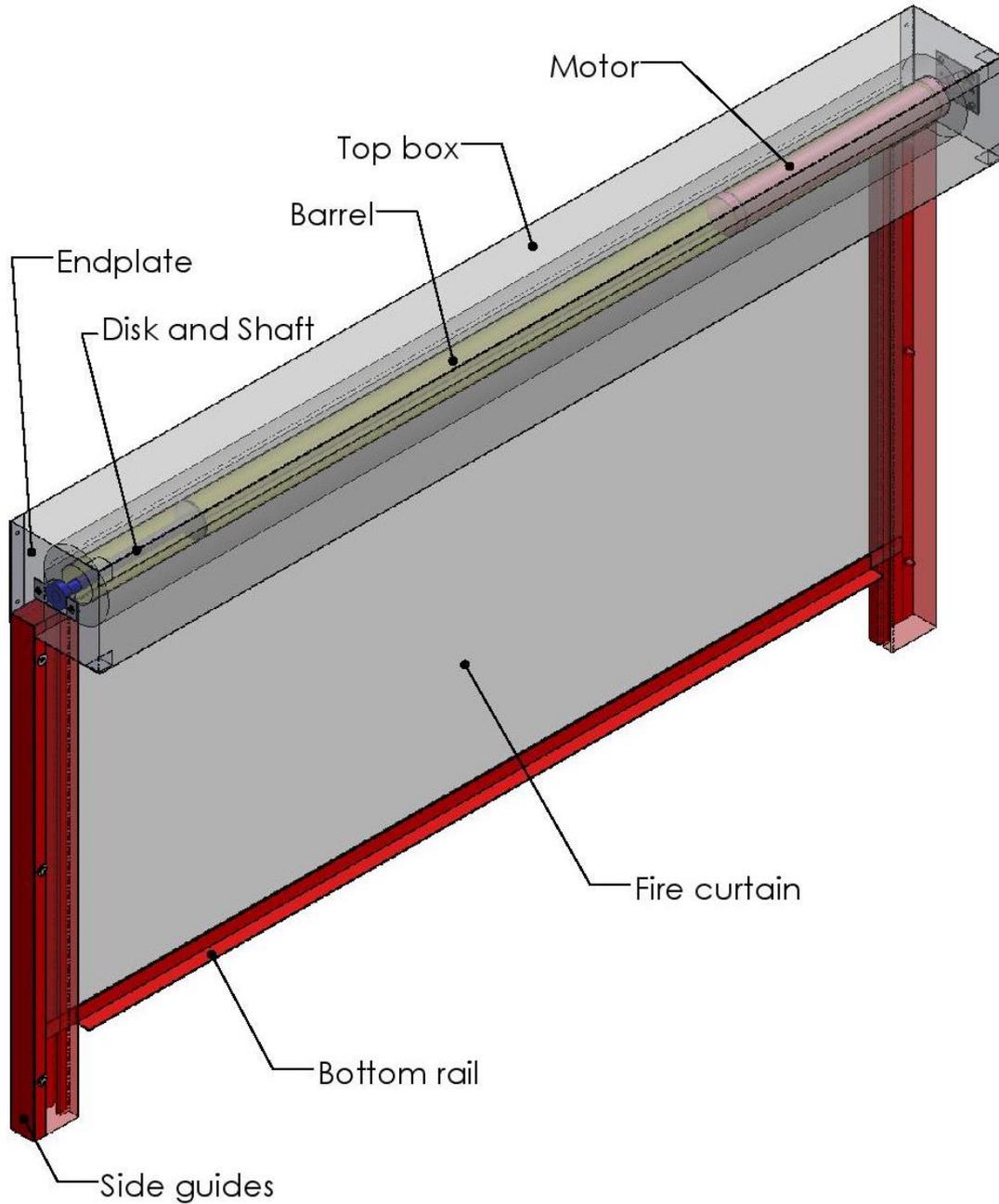
Hold on retract facility for escape and emergency service access.

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.



FireSafe 240 – Single Curtain Drawing



Headbox Dimensions:

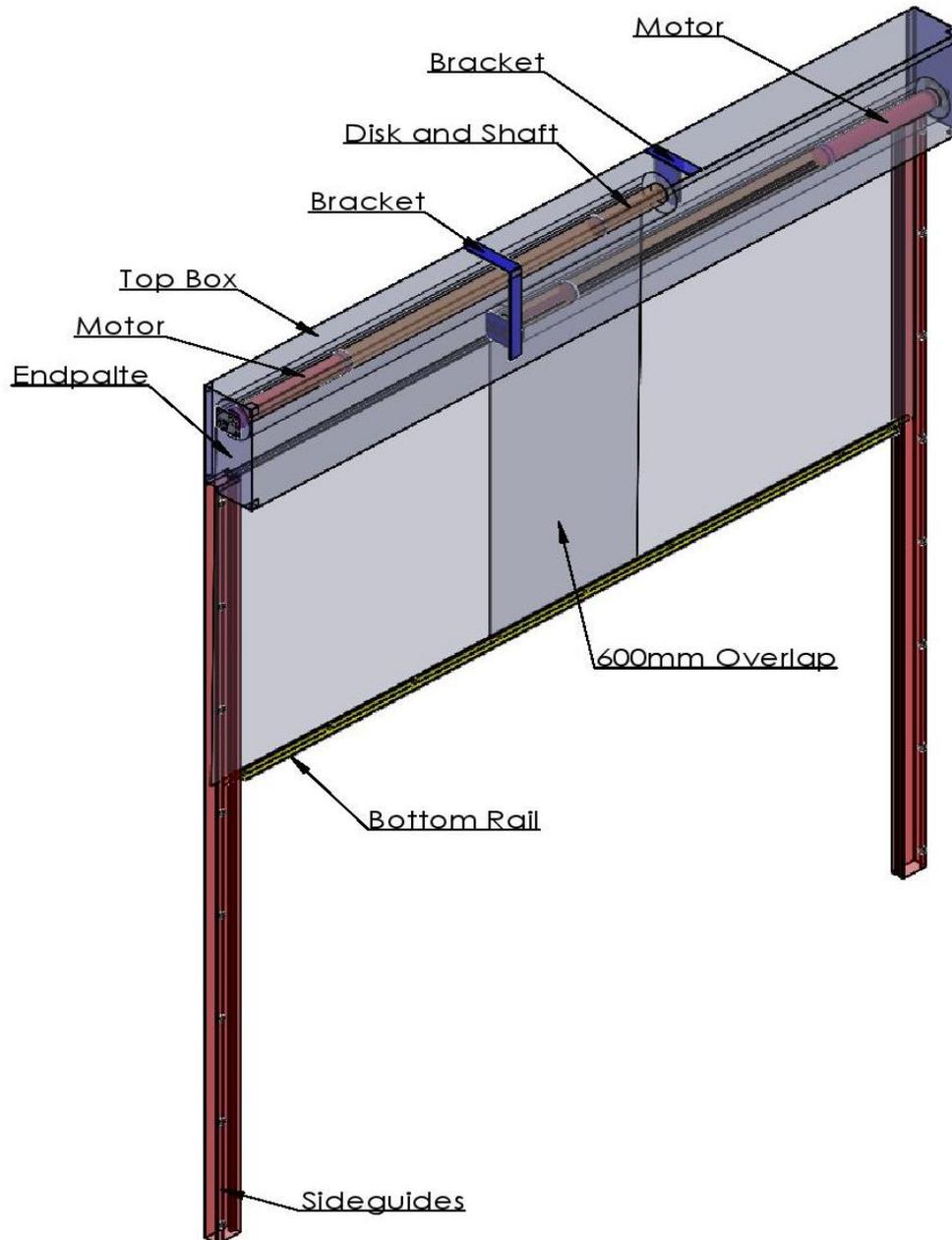
160mm x 160mm

180mm x 180mm

200mm x 200mm



FireSafe 240 – Overlapping Curtain Drawing



Headbox Dimensions:

160mm x 320mm 180mm x 360mm 200mm x 400mm