

FLAME CURTAIN

Description

The product is an electrically operated, automatic, vertical, fire barrier, consisting of a stainless steel wire reinforced glass fabric curtain and galvanised steel box assembly and guide rails. The box, guide rails and bottom rail can be powder coated as an optional extra.

The product is powered by a 24v DC motor which includes gravity failsafe as standard.

This product is designed to remain open during normal use and only to be closed during a test or an emergency situation. In the event of receiving a fire alarm signal or a power failure the barrier will perform a controlled descent to create a fire resistant barrier.

Approved standards

The fire resistance performance of curtains to BS 476: Part 22: 1987

The fire resistance performance of curtains to BS EN 1634-1: 2008

The product was tested and approved by Exova Warringtonfire, report no.s 1958685, 197830 & 199303.

Product performance

This product is capable of providing 120 minutes integrity performance if subjected to a fire resistance test in accordance with the standards mentioned above.

Size limitations

Minimum width: 800mm

Minimum height: 800mm

Maximum width: 6000mm

Maximum height: 5000mm

Construction

Curtain

A stainless steel wire reinforced glass fabric designed as a curtain material which is intended for applications exposed to high temperatures.

This product is only available in a grey finish.

The curtain includes tabs positioned at regular centres which extend beyond the curtain. These tabs restrain the curtain in the guide rails without significantly increasing the coil size.

The curtain fabric weighs 0.69kg/m².

Bottom rail

The bottom rail consists of two pieces of galvanised steel angle bolted together either side of the curtain.

The bottom rail can be powder coated to any RAL or BS number, within our range, as an optional extra.

Guide rails

100mm wide x 55mm deep two piece galvanised steel guide assembly which can be face or reveal fitted. The guide rails are designed to allow for expansion when acting as a fire barrier.

The guide rail consists of an inner section which is face or reveal fixed in position. The outer section conceals the fixings and is fixed to the inner section with rivet nuts.

The guide rails can be powder coated to any RAL or BS number, within our range, as an optional extra.

End plates

The end plates are manufactured from galvanised steel and are 200mm wide and 220mm tall.

One size of end plate suits all current sizes of fire curtain.

The end plates can be powder coated to any RAL or BS number as an optional extra.

Box

200 x 220mm galvanised steel two piece box assembly. Boxes are supplied in sleeved sections to allow for expansion.

The box can be powder coated to any RAL or BS number, within our range, as an optional extra.

Axles

70mm (1.5mm), 101.6mm (1.6mm) or 101.6mm (3.2mm) round steel barrels are used depending on the products size.

Motors & control options

The fire curtain is powered using a 24V DC tubular motor which is supplied as standard with a 4m 7 core cable.

This product is not designed for frequent use, this product is designed to remain open during normal use and only to be closed during a test or an emergency situation

The motors and control panels feature controlled descent or gravity fail safe in the event of a signal from a fire alarm or a power failure.

The standard FC Control Panel features:

- Alarm test input
- Emergency override input for emergency escape or Fireman's switch
- Audio / visual output

- 24v battery backup

The high specification FC +PLUS Control Panel includes all the features of the FC Control Panel and also:

- Split drop of curtain to allow emergency access
- Low battery automatic close feature
- Group control facility
- Safety device inputs
- Integrated radio receiver

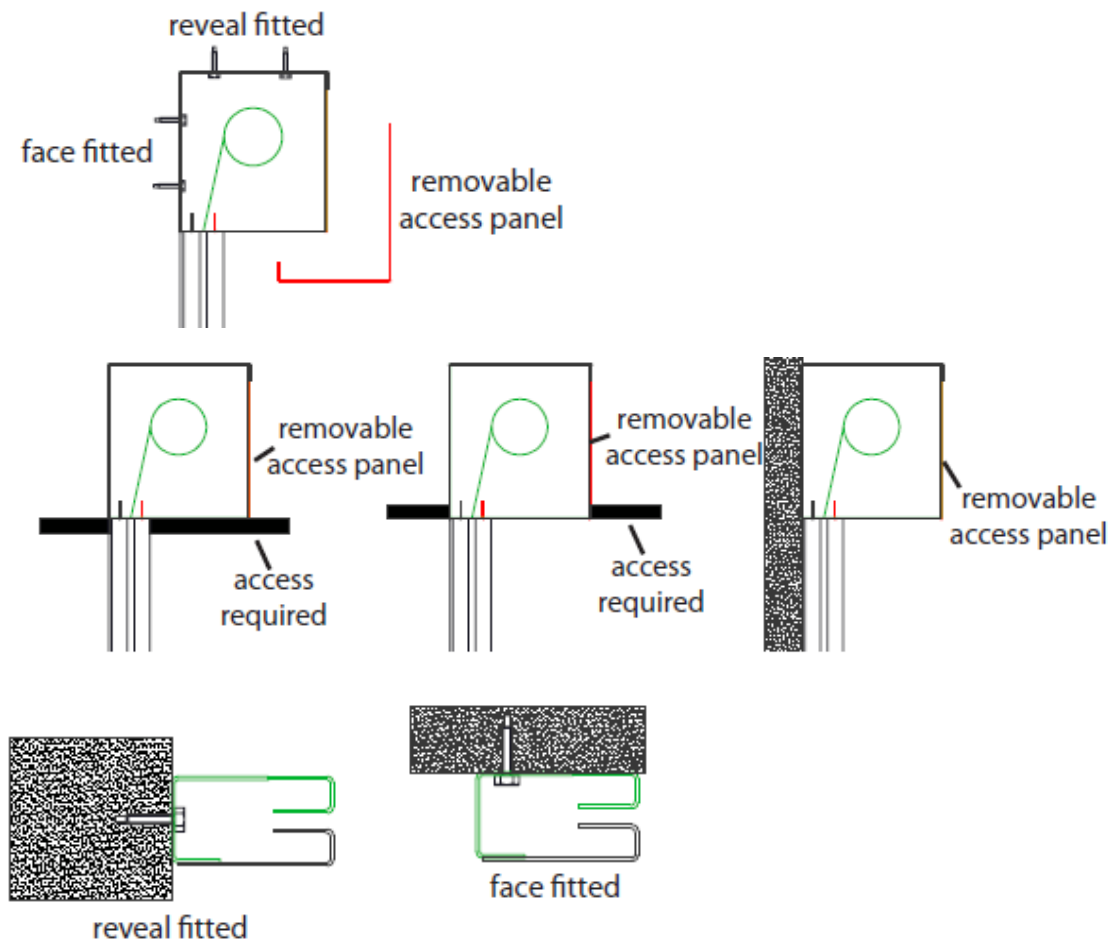
Optional extras:

Localised sensors such as smoke and heat detectors, a range of audio visual devices and emergency retract switches can be connected to both panels using a 24v DC supply from the panel.

Installation options

The curtains must be fixed to appropriate masonry/concrete or steel supporting constructions that have a fire resistance of at least that specified for the fire curtain and are capable of maintaining adequate support for the required periods of up to 120 minutes.

The box and the guide rails can be face and or reveal fitted. The box design features a removable access panel, access will be required to allow the product to be maintained.



Warranty

The operation of the fire curtain along with the finish of the curtain, guide rails and box is guaranteed for a period of 12 months. The tubular motor is guaranteed for a period of 2 years against faulty materials and workmanship.

Maintenance

There is a requirement under The Regulatory Reform (Fire Safety) Order 2005 for the buildings responsible person to ensure all fire safety equipment is maintained.

Maintenance and testing of the product

The period between checks is at the discretion of the customer however we recommend the following:

Weekly	Check all the system for correct operation. Test operation of systems, self contained detectors and check the integrity of the curtain.
3 – 6 months	Inspection and test of the system by a competent engineer.
Annually	Full inspection and test of the system by a competent engineer, clean self contained detectors. Replace the two 12v lead acid batteries in the control panel*.

*The control panel incorporates two 12v lead acid batteries which are maintenance free. However it is recommended that the battery condition is monitored on a regular basis and that they are exchanged as necessary and at least every 12 months.