

## FLAMESHIELD HORIZONTAL FIRE CURTAIN 24 VOLT TUBE MOTOR (1HR, 2HR)

### APPROVED STANDARDS

BS EN 1634-1  
BS 476: Part 6  
BS 476: Part 7  
BS EN 12605  
BS EN 14600  
BS EN 13501-2  
BS EN 16034  
BS EN 16034

### RADIATION PERFORMANCE

30 minutes Radiation

### INTEGRITY

60 minutes 1 Hour integrity  
120 minutes 2 Hour integrity

**12 meters by 3 meters to a maximum of 32/m<sup>2</sup>**

(PAS 121 is no longer current, it was withdrawn by the British Standards Institute on the 31<sup>st</sup> July 2013, please see above relevant standards).

### HORIZONTAL FIRE CURTAINS

**Product Construction** all our fire / smoke control curtains are manufactured and produced in accordance with the parameters and technical respects indicated within the specification, which was submitted to the Warrington Fire Research Establishment. The curtains constructed to Warrington Fire Research Centre, the test is in accordance with BS EN 1634-1, as required by BS 8524 for Fire Integrity and Radiation (Radiation & tenability replaces the insulation zone). The construction and manufacture is in accordance with Exova Warrington Certificate WF 358994 manufactured in accordance with sections of the European Standard BS EN 16034.

**Basic description** The automatic curtains comprise of a mild steel barrel and motor incorporating an attached fabric curtain, the barrel deflection conforms to the necessary British Standard BS 6323-5, the fabric can withstand temperatures in excess of 1000°C the unique Octagonal tubular bottom rail allows smooth operation of the curtain. The fire barrier shall be powered by an internal 24V DC electric motor that has all the applicable safety standards.

**Fabric** Fire curtains are formed from a fire rated fabric 0.54mm thick stainless-steel wire reinforced, with a specially formulated aluminum pigmented and fire-retardant polymer which provides a heat reflecting surface as well as other properties for fire.

The fabric has been independently tested for fire propagation in accordance with BS 476-6 in addition to this it also conforms to BS 476-7 which relates to surface spread of flame and in accordance with Approved Document B 2006.

As a requirement of BS EN 1634-1, the fabric and curtain are tested as a complete assembly in compliance with BS EN 1363-1 and BS EN 1363-2.

**Sampling** a representative of Warrington Certification Ltd conducted the sampling and selection of the tested specimen, this was to cover a requirement of EN 16034 the new European Standard.

**Barrel** Fire curtain barrels are manufactured from mild steel tube, tube size dependent on the overall size of the unit and deflection calculated to conform to British Standards.

When the barrier is retracted the armature shall be isolated from the supply and the barrier shall be locked in position with the electromagnetic brake. This ensures the motor armature not damaged and the retracted position is maintained without drift.

The barrier shall move to the operational position. In the event of a mains power failure backup power shall be provided by the inbuilt secondary power source, the barrier shall remain in the retracted position and continue to monitor the alarm and system inputs. If signaled to operate during this period, the barrier shall operate as normal.

The secondary supply voltage source is continually monitored. If the voltage becomes critically low the barrier shall be signaled to close to the operational position (normally between 30 and 120 minutes).

## Technical Data

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<b>Integrity (E)</b>	120 minutes to at least 1000°C
<b>Radiation (W)</b>	30 minutes – 15KW/m <sup>2</sup>
<b>Motor</b>	24 Volt DC Electrical Tube Motor
<b>Standard Head Box Section</b>	1.5mm thick Galvanised Steel
<b>Standard Guide Material</b>	2.5mm thick Galvanised Steel
<b>Standard Bottom Tray Material</b>	1.5mm thick Galvanised Steel
<b>Product Performance</b>	To meet the requirements of applicable regulations

**Guarantee**

12 months from A1S Group Installation

**Optional Extras :****Audio / Visual / Spoken Warning Unit**

- The barrier has a volt free c/o contact which indicates an active c/o (change over) contact
- which indicates an active alarm signal. An Audio / Visual / Spoken warning unit can be interfaced with this using power supplied by the primary / secondary source or via an external source.

**BMS Interface**

- The barrier has volt free c/o contacts to indicate whether the barrier is fully open or fully closed.

