

SPECIFICATION
FIREMASTER® PLUS²
ACTIVE FIRE CURTAIN BARRIER ASSEMBLIES

In accordance with:

BS EN 1634-1
BS 5234-2
BS EN 14600
BS EN 13501-2
BS EN 13501-1+A1
BS EN ISO 14184-1
BS EN 12101 10

Period of Fire Resistance:

180 minutes (3 hours) integrity

Period of Radiation:

107 minutes <15kW/m²

Classification:

E180 EW90 C0 (single)

Certification:

FireMaster® Plus² active fire curtain barrier assemblies are certified by an independent accredited certification body operating to ISO/IEC 17065:2012.

FireMaster® Plus² active fire curtain barrier assemblies are certified with an independent accredited certification body operating an accredited UKAS scheme for installation, commissioning and servicing.

Product Name and Model:

FireMaster® Plus² active fire curtain barrier assemblies.

General description:

An electrically operated FireMaster® Plus² active fire curtain barrier assembly used to form a virtually continuous barrier as a fire separating element.

FireMaster® Plus² active fire curtain barrier assemblies comprise a woven steel and glass fabric wound on to a steel roller, powered by an internal 24V dc electric motor, enclosed within a 1.2 mm steel box.

A bottom bar is fitted to the bottom edge of the curtain providing tension to the curtain with sufficient weight for the curtain to 'fail-safe by gravity'.

The 24V motor contains an electromagnetic brake to arrest motion of the curtain when in the open position.

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FireMaster® Plus² active fire curtain barrier assemblies have been tested to the requirements of BS EN 14600:2005 for 'Durability of Self-Closing' (500 cycles on primary power and an additional 50 cycles using back-up power; closing speed of 0.08m/s).

FireMaster® Plus² active fire curtain barrier assemblies have been tested to the requirements of BS EN 1634-1:2014 for 'Fire Resistance' (180 minutes integrity).

FireMaster® Plus² active fire curtain barrier assemblies have been tested to the requirements of BS EN 1634-1:2014 for 'Radiant Heat Flux' (90 minutes).

Operation:

FireMaster® Plus² active fire curtain Barrier assemblies commence movement upon initiation of alarm or power or system failure, and fully deploy to the fire operational position within the range of velocities of 0.06 m/s to 0.15 m/s using the unique VarioSpeed™ function.

Operating speeds are site adjustable without altering the bottom bar mass. Speeds may be dictated by those authorities having jurisdiction for 'safety in use' according to the location, nature or function of each unit.

In the event of a mains supply power failure, the curtain is retained in the open position for a pre-determined period (nominally 30 minutes), using battery back-up power. At the end of the period, the Barrier assembly will deploy.

Curtain Material:

Fabric type is EFP™ 2/1000/DGI a glass fibre, stainless steel wire reinforced, fabric coated with an intumescent graphite silicone elastomer 1900 g/m² -5% +10%.

The fabric has passed testing to BS EN 1634-1, BS EN 1363-1, BS EN 1362-2 and BS EN 1634-3 (Fire/Smoke Resistance)

The fabric material passed testing for fire propagation to BS 476-6+A1, and for surface spread of flame to BS 476-7 to achieve National Class '0'.

The fabric has passed testing to BS EN 14184-1 (Textiles – Determination of Formaldehyde – Part 1: Free and hydrolysed formaldehyde (water extraction method).

Optional Extras:

- Voice warning:
 - Audio or spoken multi message facility when mains or emergency power is available.
- Beam protection and obstruction warning:
 - A beam detector, with delay timer which will sound in the event of any obstruction being placed in the barrier drop line when mains or emergency power is available.
- Visual alert system:
 - Light warning system when mains or emergency power is available.
- Split drop delay:
 - To partially deploy to pre-determined level to permit escape, and initial smoke containment. After delay fully deploys to its fire operational position when mains, or emergency power is available.
- Emergency retract:

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Touch button retract facility for multi-escape and emergency service ingress/egress when mains or emergency power is available.

Manufacturers:

Subject to compliance with all requirements set out in this specification, manufacturers offering products may be incorporated into the work are limited to the following:

Coopers Fire Limited, Ignis House, Houghton Avenue, Waterlooville Hampshire, PO7 3DU, United Kingdom. Tel +44 (0)23 9245 4405

Email: sales@coopersfire.com, Web: <http://www.coopersfire.com>

Warranty:

The manufacturer shall submit a written warranty for a period of one (1) year. If any part of the works of this section, including design, fabrication or installation are sublet to any party, such party shall provide a collateral warranty equivalent to the warranty.

Product certification, performance and/ or testing:

- Complete barrier assemblies are certified by an independent accredited certification body operating to ISO/IEC 17065:2012.
- Complete barrier assemblies have been tested for fire resistance to BS EN 1634-1. The Barrier assembly achieved 180 minutes Integrity and 90 minutes Radiation.
- Complete barrier assemblies have been tested for impact to BS 5234-2
- Complete barrier assemblies have been tested for reliability, durability and self-closing to BS EN 14600
- Complete barrier assemblies have been tested for gravity fail-safe
- Motor(s) used within barrier assemblies the above tests have been tested for operation at temperatures of 400 °C as required by BS 8524-1
- The fabric used within FireMaster® Plus² active fire curtain barrier assemblies have been tested to BS EN 1634-3
- The fabric used within FireMaster® Plus² active fire curtain barrier assemblies have been tested to BS 476 pt6 & pt7

Approving standards:

The following standards apply to this product:

- BS EN 1634-1:2014, Fire resistance and smoke control tests for door, shutter and, openable window assemblies and elements of building hardware. Fire resistance tests for doors, shutters and openable windows
- BS EN 1634-3:2004, Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Smoke control test for door and shutter assemblies
- BS EN 1363-1:1999, Fire resistance tests – Part 1: General requirements
- BS EN 1363-2:1999, Fire resistance tests – Part 2: Alternative and additional procedures

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- BS EN 13501-2:2007+A1, Fire classification of construction products and building elements. Classification using data from fire resistance tests, excluding ventilation services rating
- BS EN 14600:2005, Doorsets and openable windows with fire resisting and/ or smoke control characteristics. Requirements and classification
- BS 476-6:1989+A1:2009. Fire tests on building materials and structures. Method of test for fire propagation for products
- BS 476-7:1997. Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products
- BS EN ISO 14184-1:2011. Textiles. Determination of formaldehyde. Free and hydrolysed formaldehyde (water extraction method)
- BS EN ISO 9001:2008, Quality management system
- BS EN ISO 14001:2004, Environmental management system