

SPECIFICATION
FIREMASTER® EGRESS UL
FIRE PROTECTIVE CURTAIN ASSEMBLIES

In accordance with:

UL 10D

Period of Fire Resistance:

180 minutes (3 hours) endurance – for use in gypsum wall type constructions

240 minutes (4 hours) endurance – for use in masonry wall type constructions

With ResQ window: 120 minutes (2 hours) endurance – for use in gypsum or masonry wall type constructions

Classification:

GSSN (Fire Protective Curtains)

File number:

R38679

Certification:

FireMaster® UL Egress Fire Protective Curtains are certified by UL, which is an independent accredited certification body operating to ISO/IEC 17065:2012.

Product Name and Model:

FireMaster® UL Egress Fire Protective Curtain

General description:

An electrically operated FireMaster® UL Egress Fire Protective Curtain used to form a virtually continuous barrier as a fire separating element.

The FireMaster® UL Egress Fire Protective Curtain comprises a metallic fabric wound on to a steel roller, powered by an internal 24V dc electric motor, enclosed within a 1.2 mm (0.047 in) Stainless Steel box.

The FireMaster® UL Egress Fire Protective Curtain has an integral fabric door allowing an escape route for evacuees or access for emergency services through the barrier when the curtain is deployed. The maximum size of the egress door is 1m (width), 2.4m (height).

A special 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', and also allow opening of the egress portion of the curtain.

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

The edges of the curtain are retained inside side guides, providing pressure resistance of 20Pa.

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Motors used within the FireMaster® UL Egress Fire Protective Curtain are compliant to UL 864 10th Ed.

Control systems used for FireMaster® UL Egress Fire Protective Curtain are compliant to UL 864 10th Ed.

Operation:

The FireMaster® UL Egress Fire Protective Curtain commences movement upon initiation of BMS alarm or power or system failure, and fully deploy to the fire operational position within the range of velocities of 0.152 m/s to 0.609 m/s (6 in/s to 24 in/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, longer upon request), using battery back-up power. During this period, the curtain will deploy on receipt of a signal. At the end of the period, the curtain will deploy.

Fabric:

The curtain material type is EFP™ A1, which is a stainless steel wire reinforced glass fabric. It has an area weight of 665g/m² ± 10%.

The curtain material offers dimensional stability and is classified as non-combustible.

The optional ResQ-Window fabric is a transparent material, manufactured from a High Silica fabric with a diluted Silicone coating.

ResQ-Window™:

ResQ-Window™ is a patented translucent fire proof flexible material that can be installed into a Coopers Fire fire curtain allowing building occupants and first responders to see through the curtain after it has been deployed.

Patent pending GB2575746.

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.

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- Emergency retract:
 - 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, Fax: +44 (0)23 9249 2732, 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 FireMaster® UL Egress Fire Protective Curtains are certified by UL
- Complete FireMaster® UL Egress Fire Protective Curtains have been tested for fire resistance to UL 10D. The curtain assembly achieved the following endurance ratings:
 - 3 hours – for Fire Resistance rated Gypsum Wall locations
 - 4 hours – Fire Resistance rated Masonry Wall locations
- Motors within the FireMaster® UL Egress Fire Protective Curtains have been tested to UL 864 10th Ed., are certified by UL.
- Control systems used with the FireMaster® UL Egress Fire Protective Curtains have been tested to UL 864 10th Ed., and are certified by UL.
- FireMaster® UL Egress Fire Protective Curtain has been approved for use with or without ResQ window

Approving standards:

The following standards apply to this product:

- UL 10D, Fire Tests of Fire-Protective Curtain Assemblies
- UL 864 10th Ed., Standard for Control Units and Accessories for Fire Alarm Systems
- BS EN ISO 9001:2015, Quality management system
- BS EN ISO 14001:2015, Environmental management system