

SPECIFICATION
FIREMASTER® CONCERTINA™ EGRESS UL
FIRE PROTECTIVE CURTAIN ASSEMBLIES

In accordance with:

UL 10D (2nd Ed)

Period of Fire Resistance:

With or without ResQ window – 120 minutes endurance – for use in gypsum and masonry wall constructions

Classification:

GSSN (Fire Protective Curtains)

File number:

R38679

Certification:

Complete barrier assemblies are certified by UL, which is an accredited certification body operating to ISO/IEC 17065:2012.

Product Name and Model:

FireMaster® Concertina™ Egress active fire curtain barrier assemblies

General description:

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

FireMaster® Concertina™ Egress Fire Protective Curtains comprise a metallic fabric, fan-folded and retained in a metal tray, powered by an internal 24V dc electric motor, enclosed within a 1.2 mm (0.047 in) Stainless Steel box.

The FireMaster® Concertina™ 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 tray is fitted to the bottom 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 edges of the curtain are retained inside side guides, providing pressure resistance of 20Pa.

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

Motors used within FireMaster® Concertina™ Egress Fire Protective Curtains have been approved to UL 864 (10th Ed).

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

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Operation:

FireMaster® Concertina™ Egress Fire Protective Curtains commence 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 tray 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 – higher on request), using battery back-up power. At the end of the period, the FireMaster® Concertina™ Egress Fire Protective Curtain will deploy.

Curtain Material:

The curtain material type is EFP™ A1, which is a stainless-steel wire reinforced glass fabric. The material is fire retardant, halogen-free. 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.
- 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.

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, Hants. PO7 3DU, United Kingdom. Tel +44 (0)23 9245 4405, Email: sales@coopersfire.com, Web: <http://www.coopersfire.com>

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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® Concertina™ Egress Fire Protective Curtains are certified by an independent accredited certification body operating to ISO/IEC 17065:2012.
- Complete FireMaster® Concertina™ Egress Fire Protective Curtains have been tested for fire resistance to UL 10D.
- Complete FireMaster® Concertina™ Egress Fire Protective Curtains have been tested for self-closing to UL10D.
- Motor(s) used within FireMaster® Concertina™ Egress Fire Protective Curtains have been tested to UL 864 (10th Ed).
- The fabric used within the FireMaster® Concertina™ Egress Fire Protective Curtains have been tested using Qualitative Infrared Analysis

Approving standards:

The following standards apply to this product:

- UL 10D (2nd Ed), Fire Tests of Fire Protective Curtain Assemblies
- UL 864 (10th Ed), Control Units and Accessories for Fire Alarm systems
- BS EN ISO 9001:2015, Quality management system
- BS EN ISO 14001:2015, Environmental management system