SPECIFICATION

FIREMASTER® MARINE A-0

ACTIVE FIRE CURTAIN BARRIER ASSEMBLIES

In accordance with:

IMO Resolution MSC 307(88) Annex 1 part 3
ISO 1182:1990

Certification:

Certified by Lloyd's Register.

Product Name and Model:

FireMaster® Marine A-0 active fire curtain barrier assemblies

General description:

An electrically operated FireMaster® Marine A-0 active fire curtain barrier assembly used to form a virtually continuous barrier as a fire separating element.

NOTE For ease of reference the FireMaster® Marine A-0 active fire curtain barrier assembly has been referred to as "barrier assemblies" throughout the remainder of this specification.

The barrier assemblies comprise 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.

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.

The barrier assemblies have been tested to the requirements of MSC 307(88) Annex 1 part 3 for 'Fire Resistance'.

Operation:

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 (2.362 in/s to 5.905 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), using battery back-up power. During this period, the Barrier assembly will deploy on receipt of a signal. At the end of the period, the Barrier assembly will deploy.

Curtain Material:

The curtain material type is EFP™ Marine A0, which is a stainless steel wire reinforced glass fabric fire barrier. It has an area weight of 660g/m^2 ± 10%.

The curtain material offers dimensional stability and is non-combustible to MSC 307(88) Annex 1 part 1 Test for Moisture Content, Organic Content and Non-Combustibility.

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:

  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, Edward House, Penner Road, Havant Hampshire, PO9 1QZ, 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 barrier assemblies are certified by Lloyd's Register.
- Complete barrier assemblies have been tested for fire resistance to MSC 307(88). The Barrier assembly achieved A0 rating.

Approving standards:

The following standards apply to this product:

- IMO Resolution MSC 307(88), International Code for Application of Fire test Procedures, 2010.
- ISO 1182 – Reaction to fire tests for building products – Non combustibility test
- BS EN ISO 9001:2015, Quality management system
- BS EN ISO 14001:2015, Environmental management system