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Specification for the Coopers FireMaster Marine Automatic Fire Barrier

Manufacturer:

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Product Reference:

Coopers FireMaster Marine Automatic Fire Barrier

Description:

FireMaster Marine is an electrically operated automatic fire barrier, used to form a virtually continuous barrier against both fire and fire effluent (smoke).

Approved Standards:

IMO Resolution A754(18) Annex 1 Part 3  
Classification A"0"

Product Performance:

Complete product tested to IMO Resolution A754(18) Annex 1 Part 3, Classification A"0"  
(60 minutes)

General Description:

The Coopers FireMaster Marine Automatic Fire Curtain comprises of a fire resistant fabric on a steel roller, powered by an internal 24 volt/DC electric motor including gearbox, electro distance travel/limit controls, linked to an internal 24volt/DC electromagnetic brake which allows the barrier to remain in the retracted position when all power is removed from the motor unit. The system will drive down and up. The controls can be powered by either a dedicated Coopers ERU-CAM mains power supply or can be powered by the vessels own 24 volt/DC supply. The system must show the ability to operate with the barrier retained in side channels to resist fire pressure and impact. The Fire Curtain will remain in its current position if all power is removed.

The assembly is located in a 1.2mm galvanised rectangular casing, which provides protection for the barrier (curtain) and acts as a fixing element to the vessel's structure.

Fabric

The curtain material is a metallised fibreglass stainless steel fabric, nominally weighing 690g/m<sup>2</sup>. The fabric is either one piece or manufactured in the vertical panels. The fabric material shall be tested to BS EN ISO 1182(E):1990.



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Bottom Bar Assembly:

The bottom bar assembly is attached to the lower edge of the fabric, and acts to keep the fabric hanging vertical and taut when the curtain is in the lowered position, minimising deflection due to air currents. Bottom bar assemblies are tested up to <4 k/m.

Control System:

The fire curtains will be capable of operation as an integrated part of the Smoke Control and Fire Management System, using either the Coopers dedicated controls with emergency power units complete with battery back up or the vessels own 24 VDC supply and alarm interface panels and emergency retraction facility

The system shall descend and retract with power available (from ERU-CAM or vessel supply), and in the event of power failure, the system shall either remain retracted using either the vessel's dedicated supply or its own dedicated battery back up power supply for a predetermined period (usually 30 minutes) and/or shall be capable of operating for a specified number of operating cycles under its own dedicated emergency power supply.

If signalled to descend during this period the barrier will move to its fire operational position.

Synchronized velocities within the range of 0.06m/s to 0.30m/s. Fire barriers (curtains) which are located in critical areas of the project, eg. escape routes, entrances/exits to escalators, stairways, etc., shall have site specific adjustable and synchronized velocities within the range of 0.06 m/s to 0.15m/s. All speeds controls must show appropriate testing by a notified body and must be site adjustable without altering bottom bar mass.

Optional Extras:

Voice warning:

Audio and/or spoken multi message facility.

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 (curtain) deployment line.

Visual alert system:

Standard localized flashing light.

Emergency retract:

Push button retract facility for escape and emergency service access.