



Bolton Gate Company

FIRE SHUTTER - FIREROLL A0

Electrically Operated A0 Fire Resisting Roller Shutter
(Internal (Tube) Motor)

Data Sheet ref. Marine 2

January 23

FIRE SHUTTER - FIREROLL A0 SPECIFICATION SUMMARY

Bolton Gate Company's range of 60 minute rated, A0 fire shutters have been specifically developed to provide a compact and highly effective solution for the closure of numerous types of opening in fire rated bulkheads.

Tested to the latest IMO Resolutions and in accordance with the 2010 FTP Code, the Fireroll A0 has been approved and certified by most of the leading marine authorities including RINA, USCG, Lloyds, DNV & ABS.

Exported around world, the shutters are manufactured at our factory in the UK in accordance with the Company's ISO 9001:2015 Quality System. Accordingly, we are also authorised to use the wheelmark standard alongside our MED approval and Module D Certification.

In keeping with SOLAS II-2, the Bolton Gate A0 rated shutter is often used (in conjunction with a third-party sprinkler system) as an entirely legitimate and more cost effective alternative when there is a requirement for an A60 door or rating on a servery type opening.

Key Attributes:

- 60 minute (A0) fire rating.
- Marine approval body certification including MED.
- Compact design.
- Bespoke construction offering range of opening sizes.
- High quality aesthetic appearance.
- Range of finishes including G304 & G316L stainless steel.
- Electrical drives to suit a range of power supplies.
- Supplied in modular form for ease of transit into position on board the vessel.



Applications Include:-

The Fireroll A0 has been supplied on countless marine projects around the world. Primarily used on internal and external servery type applications, the A0 fire shutter has also been installed in front of catering equipment, walkways, shop or concession entrances, lift doors, stairwell atriums, 'toy cupboards', ROV and lifeboat hangars.

The list of vessels using the A0 shutter to provide fire safety is extensive, ranging from cruise ships, super yachts, ferries and riverboats to naval aircraft carriers, destroyers, frigates, submarines and patrol boats. The fire shutter is also utilised on container ships, reefer vessels, tankers and carrier ships, PSV's, Support vessels, drill ships, offshore platforms and wind turbine laying and cable laying vessels.

Performance Characteristics:

A0 Fire Rating according to IMO FTP Code Part 3 Res. A.754.





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Operation

The shutter is electrically operated via a 230-volt nominal single-phase AC tubular motor mounted inside the roller and is operated from a high-level control panel mounted above the ceiling and an open/close/stop push button station at low level.

A pair of terminals is provided to accept a normally closed volt-free contact from the Client's fire detection system.

When the mains supply is removed or the control panel receives a fire signal, the motor brake is released and the shutter closes under gravity with a controlled descent.

The standard system is pre-wired in our factory and merely requires plugging in onboard.

If the supply voltage is less than 230 volt or the shutter is fitted over an escape route, a 24 volt DC motor is provided instead (with an emergency crank handle at both sides of the bulkhead in the case of escape route).

Curtain

Shutter curtains are constructed from continuously interlocking 51mm flat section galvanised steel laths which are securely held in place by steel endlocks.

Bottom Rail

The bottom rail is also formed from a reinforced lath to give uniformity of appearance. A stainless steel nameplate is fitted stating the relevant approval body and the unique door reference for traceability purposes.

Side Guides

The shutter curtain runs in vertical guides fabricated from cold rolled galvanised steel channels each with continuous steel angles. These angles are pre punched to ensure fixing to the bulkhead at the correct centres.

Roller

The roller is made from a seamless steel tube of adequate diameter and wall thickness to avoid deflection and its solid steel shaft is supported in bearings mounted on each endplate.

Endplates

Fabricated from steel plate and prepared to accept the coil casing. Securely bolted to steel angles which are drilled for attachment to the bulkhead at the correct centres.

Coil Casing

The coil casing is constructed from galvanised steel and attached to the structure by setscrews.

Finish

The shutter is supplied in a white polyester powder coat finish (RAL 9010) as standard.

Maximum Sizes

3750mm wide x 2500mm high
(subject to 9.4m² maximum).

Weight

Varies with opening size dependent on lath/barrel/casing requirements but approximately 50kgs/m².

Options

- Polyester powder coat finish to a standard range of RAL colours.
- Grade 304 or 316L stainless steel finish option.
- Espagnolette locking.
- 24v DC tubular motor.
- Fully closed status indication via proximity switch.
- Audible and / or visual alarms.
- Safety photocells.

To specify this product please state:

Fire shutter—Fireroll A0 (Internal (Tube) Motor) shall be by Bolton Gate Company Ltd, Waterloo Street, Bolton BL1 2SP, UK.

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