



Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Coopers Fire Limited
Address	Ignis House, Houghton Avenue, Waterlooville, Hampshire, PO7 3DU, United Kingdom (UK)
Type	Roller Shutter
Description	A-0 Equivalent Fire Resisting Roller Shutter – Type: “FireMaster Marine A-0 Roller Shutter”
Trade Name	“FireMaster Marine A-0 Roller Shutter”
Specified Standard	IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 3. IMO MSC/Circ.1120.

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

1330 Enclave Parkway, Houston, Texas, 77077,
United States

Bruce McDonald

Technical Authority - Statutory to Lloyd's
Register North America, Inc.
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2394361SF

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Certificate Supersedes and is a Renewal of Certificate Number: SAS F180278-M1-03

APPROVAL DOCUMENTATION

1. Exova Warringtonfire; Holmesfield Road, Warrington, WA1 2DS, United Kingdom, Fire Test Report No: 400156 dated 14th September 2018.

CONDITIONS OF CERTIFICATION

1. Shall be installed in an approved steel or insulated aluminium bulkhead for A-0 applications.
2. Maximum roller shutter clear opening size: 2692mm high x 2400mm wide.
3. Roller shall be fitted within a head box of 1.2mm stainless steel bolted to the bulkhead with M10 bolts.
4. Roller shutter assembly shall be fitted with 2mm thick stainless steel rail guides tack welded to 3mm thick stainless steel backing plate which shall be bolted to the bulkhead with M10 bolts.
5. Roller shall be of a blind fabric type material consisting of : 'EFP A0' stainless steel wire reinforced glass fabric with aluminium coating (0.55mm thick, weight 66.5g/m²).
6. Roller shutter shall be fitted with a stainless-steel bottom bar fitted with M5 bolts.
7. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
8. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations and Lloyd's Register Class Rules as applicable and designed, manufactured, and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.



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Places of Production

Coopers Fire Limited
Ignis House
Houghton Avenue
Waterlooville
Hampshire
PO7 3DU
United Kingdom (UK)

Bruce McDonald
Technical Authority-Statutory
Lloyd's Register Americas

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)