

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer ACTIONAIR
Address South Street
 Whitstable
 Kent, CT5 3DU
 United Kingdom (UK)
Annex A1 Item A.1/3.22 - FIRE DAMPERS
USCG Category Number 164.139 - FIRE DAMPERS
Product Type FIRE DAMPER (STANDARD FIRE TEST)
Product Description Single/Multi Blade Fire Damper - Type: "A-60 Marine"
Specified Standard IMO Fire Test Procedures Code, Annex 1, Part 3

The attached Design Appraisal Document (schedule) forms part of this certificate.
 This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 13 June 2007 Expiry date 12 June 2012

Certificate No. MED 0750118

Signed



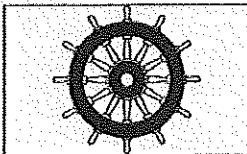

Sheet No 1 of 3

Name

M. Farrier
 For and on behalf of Lloyd's Register Verification
 LRV EC Distinguishing No. 0038

Note:

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 the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy = Last two digits of year mark affixed.

This product has been assigned a U.S. Coast Guard Module B number:

USCG Module B number: 164.139/EC0038/MED 0750118

USCG-EU MRA

to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

This certificate is issued under the authority of the MCA.

Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group. Registration number 4929226. Registered office 71 Fenchurch Street, London EC3M 4BS, England.

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group 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 Group 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."

DESIGN APPRAISAL DOCUMENT

Date 13 June 2007	Quote this reference on all future communications LDSS/PAS/FITA/PG/MF/1-10826302
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0750118

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL DOCUMENTATION

BRE Fire Research Station, Hertfordshire, United Kingdom, Fire Test Report Nos. TE201588, TE202091 and 208147A, dated 2 January 2001, 28 February 2001 and 17 May 2002 respectively. Fire Protection and Research Laboratory (RINA), Genoa, Italy, Test Report No. 2005CS013898, dated 13 October 2005 and No. 2006CS013874, dated 11 October 2006.

CONDITIONS OF CERTIFICATION

- For use in 'A-0', 'A-15', 'A-30' and 'A-60' divisions with ducting suitably insulated. The table below shows minimum total duct insulation lengths which may be interpolated for intermediate sizes based on the internal cross-sectional area of duct.

	100mm x 100mm	750mm x 750mm	1000mm x 1000mm
Bulkhead	625mm	725mm	1100mm
Deck	625mm	725mm	1100mm

- Minimum clear opening size of damper: 100mm x 100mm.
- Maximum clear opening size of damper: 1000mm x 1000mm.
- Maximum clear opening size of multiple damper: 1580mm x 750mm.
- For use in decks and bulkheads with Actionair ETR72 thermal link, PTR Pneumatic Thermal Release or Fire Safe Thermal Link with appropriate actuator.
- Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E), a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
- This product has been assigned a U.S. Coast Guard Module B number USCG Approval Category 164.139/EC0038/MED 0750118 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment".

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Ltd., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly.

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements.

- Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.



Lloyd's Register Verification Limited

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Document number MED 0750118
Issue number 1

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PLACE OF PRODUCTION

ACTIONAIR
South Street
Whitstable
Kent, CT5 3DU
United Kingdom (UK)



Martin Farrier
Lead Specialist
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038