



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 Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU, 2013/52/EU and 2014/93/EU subject to any conditions in the Design Appraisal Document attached hereto.(* Delete as necessary)

Lalizas Hellas Manufacturer

Address 3 Gounari Street

> Piraeus Greece

Annex A1 Item A.1/1.7 - THERMAL PROTECTIVE AIDS

Product Type Thermal Protective Aids

Thermal Protective Aids suitable for use in survival craft only – Type: "Alusafe -T" **Product**

Description

Specified IMO Resolution MSC.81 (70), Part 1 as amended by MSC.200 (80), MSC.226 (82) and MSC.323

Standard (89)

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 25 August 2015 Expiry date 24 August 2020

Certificate No. MED 1550153/M1 Signed

Sheet No Name

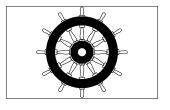
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For and on behalf of Lloyd's Register Verification

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.

Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

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Issue number			
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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
25 August 2015	MTES/SFS/TA/NR/WP22202761

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1550153/M1

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.

TEST REPORTS

Report No	Report Title or Test Description	<u>Date</u>
0755	Lalizas Test Report for Thermal Protective Aids "Alusafe-T"	26 Jun 06
80461	Lalizas Xiamen Marine Industries Co., Ltd Technical Specification of the Thermal Protective Aids Type "Alusafe-T"	04 Jul 06
70461	Lalizas Xiamen Marine Industries Co., Ltd - Prototype Test Report	26 Dec 06

This Certificate is an amendment of Certificate No MED 1050209.

CONDITIONS OF CERTIFICATION

- 1. The Alusafe-T Thermal Protective Aids is only approved for use by persons within a height range of 1.45-2.00 m and weight range of 40-150 kg and shall be marked accordingly.
- 2. The Thermal Protective Aid is only approved for minimize the effects of hypothermia. It is not intended to be worn in water.
- 3. Each Thermal Protective Aids shall be marked with additional data required by the applicable regulations.
- 4. Instructions for use shall be provided with each Thermal Protective Aids as prescribed by SOLAS Regulation III/35 one or more additional copes shall be provided for inclusion in the vessel's Training Manual.
- 5. As prescribed by SOLAS Regulation III/36 and where applicable, Thermal Protective Aids shall be maintained as prescribed by the manufacturer's instructions.
- 6. When supplied to survival craft manufacturers or direct to users or their suppliers, separate copies of the instructions for use and maintenance are to be included in each delivery for inclusion in a ships training manual.
- 7. The on board arrangements and installation of this product are not part of this Design Appraisal or Certificate. All such arrangements are to be to the satisfaction of the Surveyors attending on board.
- 8. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
- 9. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive.



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- 10. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.
- 11. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".
- 12. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.

PLACE OF PRODUCTION

Xiamen Marine Industries Co., Ltd. No 100, Jinguan Road Jimei Northern Industrial Area, Xiamen, Fujian 361021 People's Republic of China



N. Ramos Specialist Fire & Safety Marine Technology and Engineering Services For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038