



EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No.1025), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life-saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2017/306 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer (Applicant)	Daniamant Limited
Address	Unit 3, The Admiral Park Airport Service Road Hilsea Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)
Reference	Regulation 2017/306
Regulation Item (No & Item designation)	MED/1.2a POSITION-INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES - FOR SURVIVAL CRAFT & RESCUE BOATS
Product Type	SURVIVAL CRAFT INTERNAL LIGHTS
Product Description	Liferaft internal light – Type: "RB2-RL1, RB2-RL1 (RFD), RB2-RL1 (DSB)"
Specified Standard	IMO Res. MSC. 81(70) Part1, as amended

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 19 March 2018 Expiry date 18 March 2023

Certificate No. MED 1850051 Signed 

Sheet No. 1 of 3 Name L. Thomas
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

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.

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Lloyd's
Register

Lloyd's Register Verification Limited

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Document number MED 1850051
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 19 March 2018	Quote this reference on all future communications SOUTSO/SFS/TA/LT/WP27423868
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850051

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.

EXAMINED DOCUMENTATION

<u>Plan/Doc No.:</u>	<u>Revision</u>	<u>Title or Description</u>
TF-009	03	Technical File

Installation and Maintenance Instruction, 58-7010-PAT Issue 11 (C6495)

TEST REPORTS

Life Test, Light output test, test report No. 08-09, dated March 26 2008.

Life Test, test report No. 14-09b, dated June 17, 2014

Environmental Testing of Liferaft Lights, test report No 75917538, report 01, Issue 1, April 2012

Temperature cycling, Lifetest, Luminous Intensity. Chromaticity, Rain and Water tightness and Vibration, test report No 75925967, report 01, Issue 1, June 2014

Mould growth test, Report No Env/18262, dated 11th September 2002.

Temperature cycling test and light output test, TM-2-1998, 4th June 1998

Chromaticity test, Rain and water tightness test, Switch Arrangement test, Solar radiation test, Oil resistance test and Fire test, Test report No TM-16-99, dated 22/06/99

Temperature cycling test, Performance test, Light output test, Two meter drop test, Vibration test and Water tightness test, Test Report No TM-47-90, dated 7th Jan 1991

CONDITIONS OF CERTIFICATION

1. Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3
2. For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light
3. The arrangements and installation of the lights on survival crafts are not part of this design appraisal or certificate and are to be to the satisfaction of the Surveyors attending on board
4. 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
5. 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) or a Product Verification Process (Module F). **The wheelmark cannot be affixed to the product until a conformity assessment module is in place**



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6. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5 and 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
7. 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
8. 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

Daniamant Limited
Unit 3, The Admiral Park
Airport Service Road
Hilsea
Portsmouth
Hampshire
PO3 5RQ
United Kingdom



Lijo Thomas
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038