




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, 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) 2014/90/EU 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
Reference/Regulation Item (No & Item designation)	A.1/1.2 Position-indicating lights for life saving appliances: (a) For survival craft and rescue boats
Product Type	LIFERAFT LIGHTS
Product Description	Manually controlled flashing position indicating lights for survival craft - Type "Rescue-Master 2B, Rescue-Master 3B and Rescue-Master 12V"
Specified Standard	IMO Resolution MSC.81(70), Part 1, as amended by Resolution MSC.226(82), MSC.200(80) and MSC.323(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	22 November 2016	Expiry date	21 November 2021
Certificate No.	MED 1650282	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

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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 22 November 2016	Quote this reference on all future communications SOUTSO/SFS/TA/MM/LT/WP27423868
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1650282

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

<u>Plan/Doc No.:</u>	<u>Revision</u>	<u>Title or Description</u>
TF-DK-07	02	Technical File

Installation and Maintenance Instructions, Rescue Master 2B/Rescue Master 3B Liferaft Light, 23-712, Issue 04 (C6495)

Installation and Maintenance Instructions, Rescue-Master 12V, 23-714, Issue 05 (C6468)

TEST REPORTS

Force Institute, test report No. 117524/m1445-527, dated 06-09-1999.

Temperature cycling and light output test, Force Institute, File No. 110984/m1445-481.b, dated 18-03-1999.

Temperature cycling and light output test, Force Institute, File No. 123175/m1445-575 rev.1, dated 29-09-1999 (5.3V battery).

Light output test, Force Institute, File No. 1445-184090, dated 15-08-2002 (12V).

Fire test report, Danish Institute of Fire Technology, File No. F101719, dated 19-04-1999.

Measurement of Chromaticity, test report No. DANAK-KAP724037-1304, dated 04-05-1999.

Vibration test, test report No. K251078, dated 03-06-1999.

CONDITIONS OF CERTIFICATION

1. The "Rescue Master 12V" position indicating lamp is to be connected to the crafts 12V electrical system. The survival craft is to have a fuel tank capacity for 12 hours operation
2. Lights powered by batteries shall be marked with a means of determining their age or the date by which they are to be replaced
3. Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3.
4. For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light
5. 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
6. 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



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7. 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
8. 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 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
9. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity"
10. 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

PLACES OF PRODUCTION

Daniamant Limited Unit 3, The Admiral Park Airport Service Road Hilsea Portsmouth Hampshire PO3 5RQ United Kingdom	Daniamant ApS Industrivej 24C 3550 Slangerup Denmark
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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