



## 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) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

|  |   |
|--|---|
| <b>Manufacturer (Applicant) Address</b>            | Daniamant Limited<br>Unit 3, The Admiral Park<br>Airport Service Road<br>Hilsea<br>Portsmouth<br>Hampshire<br>PO3 5RQ<br>United Kingdom |
| <b>Reference</b>                                   | Regulation 2018/773   |
| <b>Regulation Item (No &amp; Item designation)</b> | MED/1.2a POSITION-INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES - FOR SURVIVAL CRAFT & RESCUE BOATS                                      |
| <b>Product Type</b>                                | LIFERAFT LIGHTS   |
| <b>Product Description</b>                         | Flashing external light for liferafts - Type: "RB2-RL4, RB2-RL4 (RFD), RB2-RL4 (DSB)"   |
| <b>Specified Standard</b>                          | 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 | 25 June 2018 | Expiry date | 24 June 2023 |
|---------------|--------------|-------------|--------------|

|                 |             |        |  |
|-----------------|-------------|--------|--|
| Certificate No. | MED 1850128 | Signed |  |
|-----------------|-------------|--------|--|

|           |        |      |   |
|-----------|--------|------|---|
| Sheet No. | 1 of 3 | Name | L. Thomas<br>For and on behalf of Lloyd's Register Verification<br>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  
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| Page<br>2 of 3                 |
| Document number<br>MED 1850128 |
| Issue number<br>1              |

**DESIGN APPRAISAL DOCUMENT**

|                      |  |
|----------------------|--|
| Date<br>26 June 2018 | Quote this reference on all future communications<br>SOUTSO/SFS/TA/LT/WP27423868 |
|----------------------|--|

**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850128**

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-010               | 03              | Technical File              |

Installation and Maintenance Instruction, 58-7015-PAT Issue 12 (C6495)

**TEST REPORTS**

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

Vibration test, Mould Growth test, Switch Arrangement test, Solar radiation test, Oil resistance test, Rain and water tightness test, Chromaticity test and Fire test, Test report No TM-17-99, 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 7<sup>th</sup> Jan 1991

Vibration, oil resistance and rain test, Test report No: 009-01, dated 06 Nov 2001 and it's appendices,

Temperature cycling test, Performance test, Light output test, Test Report No TM-2-1998, dated 4<sup>th</sup> June 1998

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

**CONDITIONS OF CERTIFICATION**

- Lights powered by batteries shall be marked with a means of determining their age or the date by which they are to be replaced
- Lights which have reached their date of replacement shall be disposed of safely with due regard to their lithium batteries
- Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3
- For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light
- 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
- 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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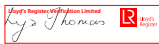
**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850128**

7. 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
8. 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
9. 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
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 A/S  
Industrivej 24C  
3550 Slangerup  
Denmark



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**