



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/1.2b POSITION-INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES - FOR LIFEBOUYS
Product Type	Position-indicating lights for life-saving appliances: (b) for lifebuoys
Product Description	Self-activated light for use on lifebuoys – Type: "L160, Hansson L160 and A160 Apollo"
Specified Standard	IMO Resolution MSC 81(70) Part 1 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 23 October 2017 Expiry date 22 October 2022

Certificate No. MED 1750186 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
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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 23 October 2017	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 1750186

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

Technical File No TF012 Revision No 6, September 2017
Installation and Maintenance Instruction, Daniament Version, 62-127-001N, Issue 05 (C6495)
Installation and Maintenance Instruction, Hansson Version, 62-139, Issue 02 (C6327)
Installation and Maintenance Instruction, Apollo Version, 62-146, Issue 03 (C6395)

TEST REPORTS

Test Report No.14-05 "L160, L161, L162 and L163 Life test" dated April 24th 2014, witnessed by TUV product Service Ltd.
Test Report No.75925967 report 01, issue 1 "Temperature cycling test, Luminous intensity test, Chromaticity test, vibration test" dated June 2014, witnessed by TUV product Service Ltd.
Evaluation and test report as per MSC 81(70), dated 09-03A, dated 06/08/2009.
Microbiological test report, report no J-5036, dated 15/10/2013
Alternative cell Able CR123A cell and Able CR17505 test report No 09-10, dated 20/10/2009

CONDITIONS OF CERTIFICATION

1. Maximum installation height: 76 m
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
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**



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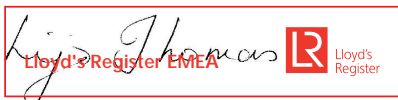
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8. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5 and recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D), or Product Quality Assurance (Module 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	and	Daniamant A/S 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