



Lloyd's  
Register



Transport  
Canada  
Safety and Security

## CERTIFICATE OF TYPE APPROVAL ISSUED ON BEHALF OF TRANSPORT CANADA

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations with regards to the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by Transport Canada to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	Daniamant Limited
<b>Address</b>	Unit 3, The Admiral Park Airport Service Road Hilsea Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)
<b>Type</b>	<b>LIFEBUOY LIGHTS</b>
<b>Description</b>	Self-activated light for use on lifebuoys - <b>Type: "L90"</b>
<b>Specified Standard</b>	TP 14475E IMO Resolution MSC 81(70) Part 1 as amended

**The attached Design Appraisal Document forms part of this certificate.  
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.**

Date of issue	29 May 2017	Expiry date	28 May 2022
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Certificate No. LRTC 0000148

Signed



Sheet No 1 of 3

Name

L. Thomas  
Surveyor to Lloyd's Register EMEA  
A Member of the Lloyd's Register Group

**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 Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.**

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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## DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
30 May 2017	SOUTSO/SFS/TA/LT/WP27423868

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LRTC 0000148

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

#### EXAMINED DOCUMENTATION

- Technical File No TF006 Revision No 3
- Installation and Maintenance Instruction, L90 Lifebuoy Light, 63-126, Issue 08 (C6553)
- Installation and Maintenance Instruction, L90 Lifebuoy Light, 63-132, Issue 06 (C6553)

#### TEST REPORTS

- Test Report No.14-02 "L90 76 metre drop test" dated March 26<sup>th</sup> 2014, witnessed by TUV product Service Ltd
- Test Report No.14-04 "L90 Life test" dated April 28<sup>th</sup> 2014, witnessed by TUV product Service Ltd
- Test Report No.75917538 report 01, issue 1 "Environmental testing of the Daniamant lifebuoy lights" dated April 2012, 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 15/05/2006 witnessed by See-BG and BAM
- Microbiological test report, report no J-5036, dated 15/10/2013

#### 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 Each light is to be marked with the information required by the LSA Code Regulation 1.2.2.9 and 1.2.3
3. For compliance with SOLAS Regulation III/35 and III/36 fully detailed operations and maintenance manuals shall be supplied with each light
4. The arrangements and installation of the lights on board are not part of this design appraisal or certificate and are to be to the satisfaction of the Surveyors attending on board
5. 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
6. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5
7. Production items are to be manufactured in accordance with a quality control procedure and records kept as required by MSC.81(70) Part 2, Paragraph 1.2. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5. 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



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- 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
- All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian procedures for approval of life-saving appliances and fire safety systems, equipment and products document no. TP 14612E (05/2011) paragraph 2.2.1.3. However independent signage can be accepted in lieu of the instructions or marking required in paragraph 2.2.1.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored

**PLACES OF PRODUCTION**

Daniamant Ltd  
Unit 3, The Admiral Park  
Airport Service Road, Hilsea  
Portsmouth  
Hampshire  
PO3 5RQ, UK

Daniamant ApS  
Industrivej 24 C  
3550 Slangerup  
Denmark



Lijo Thomas  
Senior Specialist  
Statutory Fire & Safety  
Southampton Technical Support Office, Marine & Offshore  
Lloyd's Register EMEA

**Supplementary Type Approval Terms and Conditions**

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).*