

CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with 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 contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Daniamant Limited
Address	Unit 3, Admiral Park Airport Service Road Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)
Product Type	LIFERAFT LIGHTS
Product Description	Mechanically activated location light for use on liferafts – Type: "Daniamant RL5" and variant "RL5 (RFD)"
Specified Standards	IMO Resolution MSC.81(70) Part 1 as amended by MSC.226(82)

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 2 April 2008

Expiry date 28 June 2011

Certificate No. SAS S060066/M4

Signed



Sheet No 1 of 3

Name

K. Gupta
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, 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 Group'. The Lloyd's Register Group 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 Group 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.

DESIGN APPRAISAL DOCUMENT

Date 5 May 2009	Quote this reference on all future communications LDSS/PAS/LSA/PG
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S060066/M4

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

- Daniamant Technical Manual TF011, RL5 Liferaft Light – Version 01.

TEST REPORTS

<u>Report No.</u>	<u>Report Title or Test Description</u>	<u>Date</u>
No. 010-06	RL5 Complete Evaluation and Test Report	15.06.2006
No. 08-10	RL5 Tested to meet the requirements of MSC.226(82), witnessed by LR Surveyor	26.03.2008

CONDITIONS OF CERTIFICATION

- For use in SOLAS approved liferafts:
 - Certified for use with the battery described in the drawing no. 90-1000D listed above.
 - Certified for use with the battery "Type CR17505 Daniamant ApS Control Number 5024"
- Lights powered by batteries shall be marked with a means of determining their age or the date by which they are to be replaced. Permanent marking with a date of expiry is the preferred method of establishing the period of acceptability. Any batteries not marked with an expiration date shall be replaced annually.
 - A copy of instructions for use and fitting shall be provided with each light. As prescribed by SOLAS Regulation III/35 one or more additional copies shall be provided for inclusion in the vessel's Training Manual.
 - 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.
 - 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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6. 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 Ltd.
Unit 3, The Admiral Park
Airport Service Road
Hilsea
Portsmouth
Hants, PO3 5RQ
United Kingdom

Daniamant ApS
Industrivej 24 C
3550 Slangerup
Denmark



P. Galbraith
Senior Surveyor
Product Approval Services
London Design Support Services
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).