

## 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.

<b>Manufacturer</b>	Daniamant ApS
<b>Address</b>	Industrivej 24C DK-3550 Slangerup Denmark
<b>Product Type</b>	LIFERAFT LIGHTS
<b>Product Description</b>	Manually controlled flashing position indicating lights for liferafts - Type: "R.EXT1"
<b>Specified Standards</b>	IMO Resolution MSC.81 (70), Part 1 amended by Resolution 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 16 March 2011

Expiry date 15 March 2016

Certificate No. SAS S110043

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, 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 16 March 2011	Quote this reference on all future communications LDSO/TA/SFS/LT
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S110043**

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**

<u>Plan/Doc No.</u>	<u>Revision</u>	<u>Title or Description</u>
TF-DK-18	01	Technical File

Installation and maintenance instruction for Rescue Dan REXT1 liferaft light, Document No: C6307, issue 1.

**TEST REPORTS**

<u>Report Title or Report Author</u>	<u>Report No.</u>	<u>Date</u>
Delta test report	1911204. project no A507345	22.12.2010
Mould growth test	15256	22.12.2010
Evaluation and Test Report For Survival raft interior light REXT1	01-2011	31.01.2011
Test report for Rescue Dan R Ext	117524/m1445-527	09.06.1999

**CONDITIONS OF CERTIFICATION**

1. The battery/light unit must be replaced on or before the expiry date marked on its labels. The date of expiry shall not exceed 50% of the service life of the battery as established by the battery manufacturer.
2. Each light is to be marked with the information required by the LSA Code Regulation 1.2.2.9 and ISO 24408 Paragraph 4.3.
3. Detailed fitting, operation and disposal instructions are to be provided to each purchaser of the subject lights.
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. 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.

**DESIGN APPRAISAL DOCUMENT**Date  
16 March 2011Quote this reference on all future communications  
LDSO/TA/SFS/LT**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S110043**

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 are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5.
8. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2, Paragraph 1.2, and ISO 24408:2005 Annexe A - Production testing of inspection procedures. 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 the Administration.

**PLACES OF PRODUCTION**

Daniamant Limited  
Unit 3, Admiral Park  
Airport Service Road  
Portsmouth  
Hampshire, PO3 5RQ  
United Kingdom (UK)

and

Daniamant Aps  
Industrivej 24C  
3550 Slangerup  
Denmark



Lloyd's Register EMEA  
Southampton Office

L. Thomas  
Senior Surveyor  
Statutory Fire & Safety  
London Design Support Office  
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).*