

## 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 3550 Slangerup Denmark
<b>Product Type</b>	<b>LIFEJACKET LIGHTS</b>
<b>Product Description</b>	Lifejacket Flashing Light – water activated – Type: "Rescue Dan WR"
<b>Specified Standards</b>	IMO Resolution MSC.81(70) Part 1 amended by resolution MSC.226(82) and MSC 200(80) ISO 24408 (2005)

**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 8 April 2010

Expiry date 7 April 2015

Certificate No. SAS S100046

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 8 April 2010	Quote this reference on all future communications LDSS/TA/SFS/LT
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S100046**

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>Rev No.</u>	<u>Title</u>
01	Technical File TF-DK-01
01	Label for Variants doc no. 20100111

**TEST REPORTS**

<u>Report No.</u>	<u>Date</u>	<u>Report Title</u>
99316/m1445-428 Rev. 02	05/10/98	Force Institute Report
DANAK KAP734012-1076/1077	08/12/97	Delta Light and Optics Report
A0016/98 ATJ/aey	08/01/98	Delta Electronics Testing, Short Form Test Reports
117524/m1445-527	09/06/99	Force Institute Report
DANAK-KAP724037-1304	10/05/99	Delta Light & Optics Test Report
F 10719	19/04/99	Danish Institute of Fire Technology Test Report
DELTA-K251078	03/06/99	Delta Electronics Testing Test Report
m1445-175565	06/06/02	Force Technology
141195/m1460-337	29/08/00	Force Technology

**CONDITIONS OF CERTIFICATION**

1. This lifejacket light is for attachment by recessing into buoyancy foam only; lifejackets are to be types specifically designed for this.
2. Replacement of the batteries is not allowed and their removal should not be possible without destroying the container. The date of expiry of the light shall not exceed 50% of the service life of the battery as established by the battery manufacturer. The light unit must be replaced on or before the expiry date marked on its label.
3. Detailed fitting, maintenance and in service test instructions are to be provided to each purchaser of the subject lights.
4. 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.
5. The lifejacket type where the subject design of light is fitted should be tested in accordance with IMO Resolution MSC.81(70), I/10.3.3 to confirm the adequacy of their means of attachment.
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. 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.

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8. 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.
9. 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 Annex A-Production testing and 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 that Administration.
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.

**PLACE OF PRODUCTION**

Daniamant ApS  
Industrivej 24C  
3550 Slangerup  
Denmark

Daniamant Limited  
Unit 3, The Admiral Park  
Airport Service Road  
Hilsea  
Portsmouth  
Hampshire PO3 5RQ  
United Kingdom

  


L. Thomas  
Surveyor  
Statutory Fire & Safety  
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).*