



## 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>	LIFEJACKET LIGHTS
<b>Product Description</b>	Lifejacket flashing light; automatically activated by water – Type: "DAN W2"
<b>Specified Standard</b>	IMO Resolution MSC.81(70), Part 1 as amended by MSC 226.(82) 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 18 May 2010

Expiry date 17 May 2015

Certificate No. SAS S100063

Signed

The signature is handwritten in black ink. To its right is a red circular stamp containing the text "LLOYD'S REGISTER EMEA" at the top, "Lloyd's Register" in the center, and "COPENHAGEN DESIGN SUPPORT CENTRE" at the bottom.

Sheet No 1 of 3

Name

P. Galbraith  
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 18 May 2010	Quote this reference on all future communications LDSS/TA/SFS/PG
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S100063**

This Design Appraisal Document forms part of the Certificate.

**EXAMINED DOCUMENTATION**

<u>Rev No.</u>	<u>Title</u>
01	Technical File TF-DK-12

**TEST REPORTS**

<u>Report No.</u>	<u>Date</u>	<u>Report Title</u>
04-2010	28.04.10	Evaluation and test report for lifejackets lights DAN M2, MR2, W2 and WR2 Witnessed and supervised by TUV Product Services and part witnessed by Lloyds Register surveyor.

**CONDITIONS OF CERTIFICATION**

1. This lifejacket light is for attachment by clip to the surface of the lifejacket, 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. 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 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.
7. 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.

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8. 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.
9. Should a change of Place of Production from that stated below be required, i.e. where 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  
DK-3550 Slangerup  
Denmark



Paul Galbraith  
Lead Specialist  
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).*