

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 ApS
Address	Industrivej 24c DK-3550 Slangerup Denmark
Product Type	POSITION-INDICATING LIGHT FOR LIFE SAVING APPLIANCES
Product Description	Survival craft and rescue boat external flashing light – Type: "RESCUE-DAN R. EXT"
Specified Standards	IMO Resolution MSC.81 (70) Part 1 amended by Resolution 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 15 April 2010


Expiry date 20 January 2014


Certificate No. SAS S090022/M1

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 15 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 S090022/M1

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>Dwg No.</u>	<u>Rev.</u>	<u>Date</u>	<u>Drawing Title</u>
Dcelle00	-	07.01.2004	Emergency Rescue Light RESCUE-DAN R.EXT, samlingstegning
Dcelle00	-	07.01.2004	Emergency Rescue Light RESCUE-DAN R.EXT, oversigtstegning
Dcelle00	-	07.01.2004	Emergency Rescue Light RESCUE-DAN R.EXT, stykliste
	-	Jan. 2004	Operation, Maintenance & Service Instructions
StortLa 01	1	07.01.2008	Bund
5121	2	29.01.2008	Spring Contact

TEST REPORTS

Force Institute Test Report No. m1445-221620.b rev 1 dated 30th September 2004
 Force Institute, Test Report No. 117524/m1445-527 dated 9th June 1999
 Force Technology, Test Report No. m1460-175564 dated 8th August 2002
 Delta Danish Electronics Light and Acoustics, Test Report No. DELTA-L100223-1838 dated 18th July 2002,
 Test Report No. M101852-2 dated 8th February 2008 and DANAK-1910066 dated 18th February 2008
 Delta Light and Optics, Test Report No. DANAK-KAP724037-1304 dated 4th May 1999
 Delta Electronics Testing, Test Report No. DANAK-194537 dated 20.04.1999 ~ 26.05.1999
 Danish Institute of Fire Technology, Test Report No. F10719 dated 19th April 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. Detailed operation, installation and necessary maintenance instructions are to be provided with each light.
3. 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.
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.

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7. 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.
8. Should a change of Place of Production from that stated below be required, i.e. where the final stages of manufacture/assembly/testing of this product takes 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 PRODUCTIONDaniamant ApS
Industrivej 24C
3550 Slangerup
DenmarkDaniamant Ltd
Unit 3, The Admiral Park
Airport Service Road
Hilsea
Portsmouth
Hampshire, PO3 5RQ
United Kingdom**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).


L. Thomas
Surveyor
Statutory Fire & Safety
London Design Support Services
Lloyd's Register EMEA

