



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	LIFEJACKET LIGHTS
Product Description	Lifejacket water activated flashing light – Type: "RESCUE-DAN W1"
Specified Standards	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 17 February 2010

Expiry date 14 January 2013

Certificate No. SAS S080003/M1

Signed

The signature of L. Thomas is written over a red circular stamp. The stamp contains 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

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 17 February 2010	Quote this reference on all future communications LDSS/TA/SFS/LT
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S080003/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 No.</u>	<u>Date</u>	<u>Drawing Title</u>
13XX	1	10/09/10	Rescue Dan W1
5002-5003-5004	1	10/09/10	LID Water Activated
5014-5015-5016	1	10/09/10	Base
-	Version 1	2009	Labels W1
-	-	02/03	Operation, Maintenance & Service Instruction
-	-	20/11/07	Hermetically Sealed lithium Battery Type CR17505

TEST REPORTS

<u>Report Title or Report Author</u>	<u>Report No.</u>	<u>Date</u>
Force Institute Report	99316/m1445-428 Rev.1	06/07/98
Delta Light and Optics Report	DANAK KAP734012-1076/1077	08/12/97
Delta Electronics Testing, Short Form Test Reports	A0016/98 ATJ/aey	08/01/98
Force Institute Report	117524/m1445-527	09/06/99
Delta Light & Optics Test Report	DANAK-KAP724037-1304	10/05/99
Danish Institute of Fire Technology Test Report	F 10719	19/04/99
Delta Electronics Testing Test Report	DELTA-K251078	03/06/99
Force Technology	m1445-175565	06/06/02
Force Technology	141195/m1460-337	29/08/00
Force Technology	m1445-193989	04/02/03

CONDITIONS OF CERTIFICATION

1. The date of expiry of the light shall not exceed 50% of the service life of the battery as established by the battery manufacturer.
2. Each light is to be marked in accordance with the LSA Code Regulations I/1.2.2.9, 1.2.3 and ISO 24408 Paragraph 4.3.
3. 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.
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. Detailed operation / installation / fitting and necessary maintenance instructions are to be provided with each light.
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.

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Document number
SAS S080003/M1
Issue number
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7. 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.
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). 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.

PLACE OF PRODUCTION

Daniamant ApS
Industrivej 24C
3550 Slangerup
Denmark

Daniamant Ltd.
Unit 3, The Admiral Park
Airport Service Road
Hilsea
Portsmouth
Hants, PO3 5RQ
United Kingdom

L. Thomas

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).