

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 Limited
Address	Unit 3, Admiral Park Airport Service Road Portsmouth Hampshire, PO3 5RQ United Kingdom (UK)
Product Type	POSITION INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES : FOR LIFEBOOYS
Product Description	Self-activated light for use on lifebuoys – Type: "L90"
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 6 July 2010

Expiry date 31 May 2012

Certificate No. SAS S070025/M2

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.

CERTIFIED COPY**DESIGN APPRAISAL DOCUMENT**

Date 6 July 2010	Quote this reference on all future communications LDSS/TA/SFS/LT
---------------------	---

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S070025/M2

The undemoted 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>Issue</u>	<u>Date</u>	<u>Drawing Title</u>
63-001F	1	16.12.2007	L90 Family Tree
63-B300A	1	21.02.2007	L90 Lifebuoy Light General Assembly
63-129B	1	21.02.2007	L90 Insert Sub-Assembly
63-101D	4	15.01.2008	L90 Approval Label
63-124D	1	16.02.2007	Artwork Printing Detail
63-4000D	1	22.02.2007	Body Float
63-4001D	1	27.02.2007	Dome
63-126	1	-	Installation and Maintenance Instructions
63-SPN-0001(C6060)	1	19.02.2007	Specification for Lifebuoy Light Model L90
63-1001D	1	16.02.2007	Battery, LR20 Alkaline

TEST REPORTS

'Comet' Lifebuoy self-igniting lights Evaluation and Test Reports, Article no 9120500, dated 02.11.2005 to 11.01.2006.

CONDITIONS OF CERTIFICATION

- For Lifebuoys
 - Approved for use with the battery described in the drawing no. 63-1001D above
 - Maximum installation height not to exceed 60m
- 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.
 - 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.
 - A copy of instructions for use and fitting shall be provided with each light. As prescribed by SOLAS Regulation III/35 one or more additional copies shall be provided for inclusion in the vessel's Training Manual.
 - 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.

DESIGN APPRAISAL DOCUMENT **CERTIFIED COPY**

Date 6 July 2010	Quote this reference on all future communications LDSS/TA/SFS/LT
---------------------	---

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S070025/M2

- 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.
- 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.

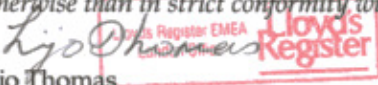
PLACE OF PRODUCTION

Daniamant Ltd
Unit 3, The Admiral Park
Airport Service Road, Hilsea
Portsmouth
Hampshire
PO3 5RQ, UK

Daniamant ApS
Industrivej 24 C
3550 Slangerup
Denmark

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).


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