

## 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 Limited   |
| <b>Address</b>             | Unit 3, Admiral Park<br>Airport Service Road<br>Portsmouth<br>Hampshire, PO3 5RQ<br>United Kingdom (UK) |
| <b>Product Type</b>        | <b>POSITION INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES : FOR LIFEBOUYS</b>                            |
| <b>Product Description</b> | Self-activated light for use on lifebuoys – Type: "L90"   |
| <b>Specified Standards</b> | IMO Resolution MSC 81(70) Part 1, as amended  |

The attached Design Appraisal Document forms part of this certificate.

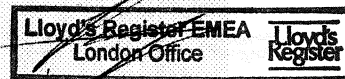
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 4 June 2007

Expiry date 31 May 2012

Certificate No. SAS S070025/M1

Signed



Sheet No 1 of 3

Name

Tio Devaney  
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<br>13 June 2008 | Quote this reference on all future communications<br>LDSS/PAS/LSA/PG/1-19960213 |
|----------------------|---|

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S070025/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>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**
- Lights powered by batteries shall be marked with a means of determining their age or the date by which they are to be replaced. Permanent marking with a date of expiry is the preferred method of establishing the period of acceptability. All batteries shall be replaced annually.
  - 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.

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|-----------------|----------------|
| Page            | 3 of 3         |
| Document number | SAS S070025/M1 |
| Issue number    | 2              |

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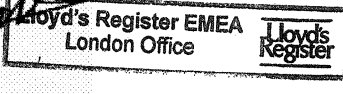

#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S070025/M1

- 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 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. 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.
- Production items are to be manufactured in accordance with a quality control procedure and records kept as required by MSC.81(70) Part 2, Paragraph 1.2. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5. 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



Kapil Gupta  
Surveyor  
Product Approval Services  
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).*