DNV·GL

Certificate No:
TAE000035X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Low-Location Lighting

with type designation(s)
After-Glow Luminescent Secure Indication System, Fire Safety Signs

Issued to
Dalian Luminglight Co., Ltd
DALIAN, LIAONING, China

is found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards

Application :

Approved for use throughout the accommodation as Low-Location Lighting of low flame spread material, not generating excessive quantities of smoke nor toxic products in fire.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2018-11-22**
This Certificate is valid until **2023-11-21**.
DNV GL local station: **Dalian**

Approval Engineer: **Nanna Martine Jacobsen**

for **DNV GL**

Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-010464-4**
Certificate No: **TAE000035X**

Product description
"After-Glow Luminescent Secure Indication System Fire Safety Signs" type LM-B-O-025, consisting of polyvinylchloride (PVC) and photoluminescent (PL) material.

Total thickness: Approx. 1.3 mm

Application/Limitation
Approved for use as Low-Location Lighting, escape route signs and fire equipment location marking.

Extent of arrangement, placing and luminance of the photoluminescent material based on the ambient light is to be in accordance with IMO Res. A.752(18) or ISO 15370:2010 and is to be approved by the administration or competent authority in each case/project.

Photoluminescent strips having a width less than 75 mm shall only be used if the luminance is increased to compensate for the reduced width in accordance with Ch. 7.1 of IMO Res. A.752 (18) or Ch. 4.2.2 & Annex D of ISO 15370:2010.

Each product is to be supplied with its manual for installation, maintenance and use.

Type Approval documentation
Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Flame-retardant test report No. TJIN1411005408PS-01 dated 9 December 2014 from SGS-CSTC Standards Technical Sevices, Tianjin, China

Flame-retardant test report No. TJIN1810014495PS dated 18 October 2018 from SGS-CSTC Standards Technical Sevices, Tianjin, China

Luminance test report No. W-1077-14CNL dated 11 November 2014 from CQC North Laboratory (Shenyang) CO., Ltd., Liaoning, China

Luminance test report No. 20181101-1 dated 2 November 2018 from Dalian Luminglight CO.,Ltd.

Tests carried out
Tested according to ISO 15370:2010 and IEC 60092-101:2002

Marking of product
The product or packing is to be marked with name of manufacturer and type designation.

Periodical assessment
DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.