

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 type MHF-G100P

Issued to

ZHEJIANG MINHUI LUMINOUS TECHNOLOGY CO., LTD.
Lanxi, China

is found to comply with

DNV GL rules for classification – Ships**DNV GL offshore standards****IMO Resolution A.752 (18)****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 **Gdynia** on **2020-03-24**This Certificate is valid until **2025-03-23**.for **DNV GL**DNV GL local station: **Ningbo**Approval Engineer: **Karolina Kusmider****Jowita Permoda**
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.



Job Id: **262.1-032586-1**
Certificate No: **TAE00003WG**

Product description

"After-Glow Luminescent Secure Indication System Fire Safety Signs" type MHF-G100P, consisting of polyvinylchloride (PVC) and photoluminescent (PL) material.
Total thickness: Approx. 0.3 mm

Application/Limitation

Approved for use as low-location lighting system, escape route signs and fire equipment location marking.

Extent of arrangement, placing, width and luminance of the photoluminescent strips based on the ambient light are 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/system is to be supplied with its manual for installation, use and maintenance.

Type Approval documentation

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

Flame-retardant test report No. AJFS191213146FF dated 03rd January 2020 from SGS-CSTC Co., Ltd. Anji branch, Zhejiang, China.

Luminance test report No. 2020012001 dated 20th January 2020 from Zhejiang Minhui Luminous Technology Co. Ltd., Zhejiang, China.

Tests carried out

Tested according to ISO 15370:2010 and IMO 2010 FTP Code Part 5.

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.