

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000B2F
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Position-indicating lights for life-saving appliances:- for survival craft and rescue boats**

with type designation(s)
HXFD-II and HXFD-II

issued to

Shanghai Martian Ship Equipment Co., Ltd.
Shanghai, China

is found to comply with the Implementing Regulation (EU) 2024/1975 for
Item no. **MED/1.2a (Row 1 of 1)**

according to the following requirements:

SOLAS 74 Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.48(66)-(LSA Code) IV, IMO Res. MSC.97(73)-(2000 HSC Code) 8, IMO MSC.1/Circ.1628, SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3

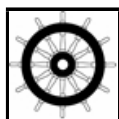
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-06-02**

Expiry date: **2030-06-01**

DNV local unit:
Shanghai

Approval Engineer:
Marcin Tobiasz



for **DNV AS**

Notified Body
no.: **0575**

Christine Mydlak-Röder
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

"HXFD-II and HXFD-II"

Position indication lights for inflatable liferaft, with flashing exterior and interior lights.

The unit consists of an external light , an internal light and a battery (2-socket connection for HXFD-II, 4-socket connection for HXFD-I).

Output power: 0.2W(exterior)/1.0W (interior)

Voltage: 3.6 V

Size: Ø86mm x45mm

Flash Frequency: 50-70 times/minute

Application/Limitation

Approved as a position indicating position-indicating lights for life-saving appliances: for survival craft and rescue boat

Lights powered by batteries shall be marked with means of determining their age or the date by which they are to be replaced.

For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light.

Type Examination documentation

Tests carried out

Tested in accordance with the requirements of:

- IMO Res. MSC.81(70), as amended by IMO Res. MSC.200 (80), IMO Res. MSC.226(82) & IMO Res. MSC.323(89),
- EN 60945:2002 incl. IEC 60945 Corr. 1:2008,
- ISO 24408: 2005.

Marking of product

The product is to be marked with manufacturers name, type designation, serial or lot number, date of expire, Mark of Conformity and USCG number if applicable (see first page). The marking shall comply with the LSA Code items 1.2.2.9 and 1.2.3. and ISO 24408:2005 item 4.3.