

TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB000099F

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify: that the Lifebuoys

with type designation(s)
Lifebuoys Type: 4.3-HX5557

issued to

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

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2024/1975,

item No. MED/1.1. SOLAS 74 as amended, Regulation III/4, III/7, III/34 & X/3, LSA Code, 2000 HSC Code 8, IMO Res. MSC.481(102), IMO MSC.1/Circ.1628.

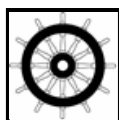
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-02-18**.

Issued at **Hamburg** on **2025-02-19**

DNV local unit:
Shanghai

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Lifebuoys Type: 4.3-HX5557" are lifebuoys with following data:

	4.3-HX5557
Weight	4.3 kg
Diameter, inner / outer	470 / 740 mm
Colour	Orange
Max. drop height	100 m
Buoyancy material	Polyurethane foam
Cover material	HDPE F600

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

Approved for use as a lifebuoy.

The lifebuoy Type: 4.3-HX5557 has sufficient mass to operate the quick-release arrangement provided for self-activated smoke signals and self-igniting lights.

Self-igniting light and retro-reflective material used have to be approved according to the Marine Equipment Directive and bear the MED Mark of Conformity.

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82).

Each lifebuoy shall be marked in block capitals of the Roman alphabet with the name and port of registry of the ship on which it is carried.

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.3.

Type Examination documentation

Evaluation and Test Report No. 2020210 dated 16 January 2021 from Wuhan Marine Lifesaving Equipment Quality Inspection Center, Wuhan, China.

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.200(80) and IMO Res. MSC.226(82).

Marking of product

The product is to be indelibly marked with name and address of manufacturer, boat model and serial number, month and year of manufacturer, number of persons approved for and operational restrictions, if any, according to LSA Code item 4.4.1.2 and the MED Mark of Conformity (see page 1).