



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008TZ

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

This is to certify:

That the Embarkation ladders

with type designation(s)

Embarkation Ladder DMSE-EL

Issued to

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

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

Regulation (EU) 2023/1667,

item No. MED/1.29. SOLAS 74 as amended, Reg. III/4, III/11, III/34 & X/3, LSA code, 2000 HSC code 8 and IMO MSC.1/Circ.1632

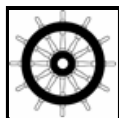
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-03-03**.

Issued at **Hamburg** on **2024-03-04**

DNV local unit:
Shanghai

Approval Engineer:
Izabela Misztal



Notified Body
No.: **0098**

for **DNV GL SE**

Mydlak-Röder, Christine
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

Embarkation ladder with steps made of hardwood (ash, oak or beech) and mildew resistant manila side ropes meeting ISO 1181:2004, Quality 1 requirements.

Steps: 151
Length: max. 50 m

Application/Limitation

This examination considers only the embarkation ladder and not the installation arrangement. Installation to be approved on board.

Handholds shall be provided to ensure a safe passage to and from the ladder.

Maximum length of the ladder shall not exceed 50 metres in total (151 steps).

Each rope shall be continuous, with no joints below the top step.

The side rope seizing is to have minimum breaking strength of 800 N.

Each ferrous metal part shall be coated in accordance with ISO1461 (ISO 5489:2008 Ch.3.3.2).

The design assessment is based on ISO5489:2008(E).

Type Examination documentation

Test report dated 18 December 2023, witnessed, stamped and signed by DNV.

Drawing no. DMSE-EL20180831 dated 11 July 2023 from the manufacturer.

Drawing no. DMSE-EL2018083101 dated 11 July 2023 from the manufacturer.

Tests carried out

Tests are documented in accordance with ISO5489:2008(E), Ch.5/Table 1.

Marking of product

The product is to be indelibly marked with name of manufacturer, type designation, dimensions and date of manufacture according to LSA Code Ch. 1.2.2.9 and ISO5489:2008(E), Ch.7 and USCG approval number, if applicable.

End of Certificate