EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000900

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 Embarkation ladders

with type designation(s)
QHEL

issued to
Shanghai Qiangang Industrial Co., Ltd.
Shanghai, **China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
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 **2029-11-07**.

Issued at **Hamburg** on **2024-11-08**

DNV local unit:
Shanghai

Approval Engineer:
Izabela Misztal

Notified Body
No.: **0098**

for **DNV 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), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2023 dated May 26th, 2023.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.

Product description
Embarkation Ladder with side ropes of 18 mm diameter made of mildew-resistant manila rope meeting ISO 1181:2004, Quality 1 requirements.

Steps are made of hardwood and rubber.

Steps: max. 180
Length: max. 60 metres

Application/Limitation
This examination does only consider 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.

The maximum length of the Embarkation Ladder shall not exceed 60 m (180 steps).

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

Aluminium fasteners are to comply with material requirements of ISO5489.

Type Examination documentation
DNV prototype survey and test report dated QG-20241018 witnessed, stamped and signed by DNV.

Embarkation Ladder drawing no. QHEL-2401 dated 14 October 2024 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