

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00000N5
Revision No:
4

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 **Embarkation ladders**

with type designation(s)
Embarkation ladder, ARD ELP 001

issued to
ARDUINO S.r.l.
Genova, GE, Italy

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

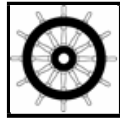
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-03-15**.

Issued at **Høvik** on **2024-03-16**

DNV local unit:
Italy/Malta CMC

Approval Engineer:
Izabela Misztal



Notified Body
No.: **0575**

for **DNV AS**

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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

Embarkation ladders with:

- seizing system solution 1
- seizing system solution 2
- mechanical clamp system / ferrules

Side ropes of ≥ 20 mm diameter are made of mildew-resistant manila or sisal rope meeting ISO 1181:2004, Quality 1 requirements.

Steps are made of hardwood (beech) and rubber.

Steps: max. 120

Length: max. 42 metres

Application/Limitation

This examination considers the embarkation ladder only 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 42 metres in total (120 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

Prototype survey and test report GEN-12-1173-2 dated 7 February 2014 witnessed, stamped and signed by DNV GL.

Embarkation ladder unrolling test report dated 23 May 2023 witnessed, stamped and signed by DNV.

Embarkation ladder step attachment strength report dated 15 May 2023 witnessed, stamped and signed by DNV.

Drawing no. ARD ELP 001/6 dated 07 April 2023 from the manufacturer.

Technical data sheet no. ARD ELP001 dated 02 April 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