



Certificate No:
TAS0000330

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Accommodation Ladder/Winch

with type designation(s)
Aluminium accomodation ladder

Issued to

Jiangsu Lisheng Marine Equipment Manufacturing Co.,Ltd.
Jiangyan, 100, China

is found to comply with
ISO 5488 Shipbuilding - Accommodation ladders

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2021-10-22**

This Certificate is valid until **2026-10-21**.

for **DNV**

DNV local station: **Nantong**

Approval Engineer: **Mats Asvald Innstø**

Aldo Matteucci
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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.



Form code: TA 251

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Product description

Revolving-platform Accommodation Ladder in multiple variations.
 Designed for 735 N/step-load and 4000 N/m² platform load.

Steps	Step distance
12-60*	300mm
52-86*	350mm

*in 2-steps increments

Details of variations described in Type Documentation.

Application/Limitation

- This certificate (design assessment) is a verification of the design towards the listed rules/requirements. The assessment does not waive requirements for certification of the equipment when necessary.
- Winch, chain, ropes, hoisting/stowing related parts, turning device, close bracket and support/connections to the deck structure are not covered by this approval.
- Connection and support to the ship's deck structure is assumed covered by separate approval.
- If a DNV product certificate is required to be obtained, the following will apply:
 - All materials shall be delivered with material certificates equal to minimum EN-10204:2005 3.1.
 - All welding is to be carried out by qualified welders. Reference is given to DNVGL-ST-0378.
 - Individual test is to be performed according to ISO 5488:2015 (E) 9 Inspection, witnessed by a DNV surveyor.
- Corrosion treatment:
 - The surface of steel parts of the ladder shall be provided with effective anti-corrosion measures.
 - Anodic oxidation treatment shall be made for the surface of aluminium parts of the ladder.
 - Appropriate methods shall be provided for contact of different metallic materials to prevent corrosion.

Type Approval documentation

Tests carried out

Prototype test acc. ISO 5488:2015E performed and witnessed by DNV. Report signed on 2021-07-07

Marking of product

Each ladder shall be marked according to ISO 5488:2015(E) 10 Marking and MSC.1/Circ.1331 §3.5 Marking.

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.

END OF CERTIFICATE