



Certificate No:
TAS00002YV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Emergency Towing Arrangement

with type designation(s)

Strong point SWL = 2000 kN

Issued to

TaiZhou City Zhongyuan Shipping Machinery Manufacturing Co.,Ltd
Jiangyan, China

is found to comply with

IMO/MSC Resolution 35 (63)

DNV GL rules for classification – Ships

Application :

Emergency towing arrangement with a SWL = 2000 kN

Issued at **Høvik** on **2021-07-13**

This Certificate is valid until **2026-07-12**.

DNV local station: **Nantong**

for **DNV**

Approval Engineer: **Antonio Sendin Alvarez**

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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

Revision: 2021-03

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Product description

Aft strongpoint for an Emergency Towing Arrangement with a Safe Working load (SWL) = 2 000 kN

Application/Limitation

- The connection and support of the above components to the ship's structure are to be covered by separate approvals.
- If installed on DNV vessels, a DNV product certificate is to be issued for each product and the following will apply:
 - The manufacturer is required to have a DNV surveyor witnessing all important production and tests as required.
 - Non-destructive testing is to be carried out to the attending surveyor's satisfaction.
 - All welding is to be carried out by approved welders and according to approved welding procedures.
 - Materials for load carrying parts are to be delivered with required material certificates in accordance with Pt.5 Ch.5 Sec.1 [4.2] from the mentioned Rules.
 - Material of welded parts used in the strong point shall be Charpy V-notch tested and impact energy is to be minimum 27J at 0 deg C.

Type Approval documentation

Tests carried out

Marking of product

Each strongpoint is to be marked with the SWL, manufacturers name or trademark and type number identification.

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