Certificate No:
TAS000040H

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gangway

with type designation(s)
Offshore gangway 14m

Issued to
Tyne Gangway (Structures) Ltd.
Newcastle upon Tyne, Tyne & Wear, **United Kingdom**

is found to comply with
DNV standard DNV-ST-0358 – Offshore gangways

Application :

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

Issued at **Høvik** on **2023-09-28**
This Certificate is valid until **2028-09-27**.
DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Paulo Correia**

for **DNV**

Per Esvall
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.

Product description

Product: 14m gangway.

Application/Limitation

Categorization: TYPE 4 Offshore gangway

Operational *	Supported at both ends connecting two fixed installations, with control flow of people, secured with lashing lugs, with removal handrails installed
Live Load (LL)	120kg (one person)
Operational length**	14m
Max. Wind speed	20m/s (at gangway location)
Operating angles ranging***	±10 from horizontal

*) This gangway requires installation of 'pinned rotation platform' or similar, to act as support for the main hinge; the pinned platform is not covered by this type approval.
This type approval covers only the gangway configuration with special hook (ref doc no. TG-00036158-GA). It is the end user's responsibility to ensure that the gangway is supported as per Tyne gangway instructions.
**) measured from the center of special hook to roller at gangway tip.

Design temperature: -20°C

Self-Weight: 704 kg (ref. TG-00036158-GA)

Special hook reaction forces:
F_z = -15.282 kN (per side)

Roller reaction forces:
F_z = -15.365 kN (per side)

Lashing point reaction forces
F_y = 2.313 kN

Design temperature: -20°C

The operational limitations defined above have been provided by Tyne Gangway Ltd., data and procedures adopted for estimating them were not part of this review. It is the end user's responsibility to ensure that these are never exceeded during service.

It has been confirmed by the designer that the flow of people will be continuously monitored and regulated throughout the period in which the gangway is in operational / working condition, thus preventing the load on the gangway to exceed the above defined LL at any given time.

It is the end user's responsibility to ensure that the removable handrails are installed and locked with all retention pins (R-clip) prior to any personnel transfer operations.

The Type Approval is not covering any mechanical, electrical or hydraulic components which, for certification, shall be provided with certificates as per DNV-ST-0358 tables 2-2 and sec 5.14, 5.15 and 5.17 and DNV-ST-0378 table 2-3.

Approval limitations

The Type Approval is not covering the following:

- The gangway configuration with standard hook, ref doc no TG-00036158-GA
- Slewing/special platform
- Lifting and installation
- Parked/Transit/Survival condition.

Type Approval documentation

Certification

This Type Approval covers design(s) only, i.e. the Type Approval is not valid for the final product, but may be used as basis for obtaining a product certificate.

If a DNV Product Certificate is required, the following shall apply:

- The manufacturing survey shall be followed-up by a DNV Surveyor
- Each gangway shall be tested in accordance with DNV-ST-0358 Section 7
- The gangway enhanced slip resistant features/treads suitability @ min/max gangway operating angles shall be assessed, tested and approved by the attending DNV surveyor.

Marking of product

Each product shall be marked in accordance with DNV-ST-0358 Section 7.4 and DNV-ST-0378 sec 14.5.

Periodical assessment

For retention of the Type Approval, a DNV 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 DNV-CP-0338

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

End of certificate