



Certificate No:
TAS00003R6

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gangway

with type designation(s)
12m Docking gangway

Issued to

Undertun Industri AS
SKODJE, Norway

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 **2022-12-13**

This Certificate is valid until **2027-12-12**.

for **DNV**

DNV local unit: **Mid-North Norway FiS**

Approval Engineer: **Sorina Thompson**

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: 12m Docking telescopic offshore gangway

Application/Limitation

Categorization: TYPE 2 offshore gangway

Operational		
Configuration		
Live Load (LL)		120 kg
Maximum operational length*		11.7 m
Minimum operational length*		5.02 m
Wind speed (at gangway location)		20 m/s
Gangway operating angle** (from horizontal)		±20°
Vessel accelerations***	Vertical (in addition to gravity)	±0.6 g
	Longitudinal	0.3 g
	Transverse	0.3 g
Parked/Transit/Survival		
Configuration		
Live Load (Live load)		-
Maximum length*		11.7 m
Wind speed (at gangway location)		44 m/s
Gangway operating angle		-
Vessel accelerations***	Vertical	±0.6 g
	Longitudinal	0.3 g
	Transverse	0.3 g

*) measured from the center of the pedestal to the outmost part of the gangway, tip excluding safety length = 1.2m

**) excluding safety angle = +/-5 deg (from horizontal)

***) relative to the vessel axis

Design temperature: -20°C

Self-Weight: See 0340-REP-001-01 Table 4-7

The operational limitations defined above have been provided by Undertun Industri AS, data and procedures adopted for estimating which have not formed 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.

The control system (electrical, hydraulic and control and monitoring systems) is not covered by this Type approval certificate.

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



Job Id: **262.1-037737-1**
Certificate No: **TAS00003R6**

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 control system (i.e. electrical, hydraulic, and control and monitoring systems) shall be covered by a DNV Type approval or Case-by-case approval
- The manufacturing survey shall be followed-up by a DNV Surveyor.
- Cold formed parts shall comply with DNV-OS-C401 Ch 2 Sec 6. The cold forming process shall follow a procedure be agreed by DNV.
- Each gangway shall be tested in accordance with DNV-ST-0358 Section 7 and DNV approved test procedures in the presence of a DNV Surveyor.
- The gangway enhanced slip resistant features/treads suitability @ min/max gangway operating angles shall be assessed, tested and approved by the attending DNVGL surveyor.

Marking of product

Each gangway shall be marked in accordance with DNV-ST-0358 Section 7.4

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