

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gangway

with type designation(s)
Three Sections Aluminium Telescopic Gangway

Issued to

Undertun Industri AS
SKODJE, Norway

is found to comply with
DNV GL standard DNVGL-ST-0358 – Certification of offshore gangways for personnel transfer

Application :

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

Issued at **Høvik** on **2020-03-16**

This Certificate is valid until .

for **DNV GL**

DNV GL local station: **Norway Fleet in Service, Mid-North**

Approval Engineer: **Paulo Correia**

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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.



Job Id: **262.1-032643-1**
Certificate No: **TAS000029F**

Product description

The drawings for the ship to shore gangway are approved with respect to structural strength and material in accordance with DNVGL ST-0358 Standard for "Offshore gangways" - Edition September 2017.

Type **: Type 4, ship to shore gangway supported at both ends
Configuration: Three sections telescopic gangway
Live Load (LL): 400kg/m²
Gangway length can vary between *: 6000m to 11700m (ref. doc. 14062502_B and 19101405)
Max. working angle (from horizontal): 45 deg
Max. telescopic stroke: 3.59m
Minimum Design Temperature: -20°C
Self-weight of gangway bridge: 982.9kg (ref. doc. 14062502_B and 19101405)
Max, load on one step: 87.5kg (731mm·12N/mm² ref Report 2014-40-00 page 5 and 34)

*) measured from pivoting hinges to outmost part of the gangway tip. Minimum overlap between telescopic parts 710mm.

**) gangway bridge in other supported modes such as suspende or cantilever is not covered by this approval.

Application/Limitation

Doors or any supporting platform and components pertaining luffing system and telescoping system or slewing system are not covered by this approval and must be approved seperatly.

Connection to any support structure is not covered by this approval.

Type Approval documentation

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			For information
			For information
			For information
14032601			
14061301			
14061902			
14061903			
14062001			
14062002			
14062003			
14062502			

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	B		
	C		
17032302	-		
17101704			
18042701			
18042702			
18070501			
18070502			
18070503			
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18070508			
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18070603			
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19021416			
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19101405			
19103101			
19103102			
19103103			
19103104			
19103105			
19103106			
19103107			
19103108			
19103109			
19103110			
19110101			
19110102			
UIN0102			
UIN0103			
UIN0117			

Tests to be carried out

Each gangway shall be tested in accordance with DNVGL-ST-0358 Section 7 in presence of a DNVGL surveyor.

If a DNVGL product certificate is required, telescopic system shall be delivered with DNVGL type approval or product certificate.

Marking of product

Marking in accordance with DNVGL-ST-0358 section 7.4.

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