Certificate No:
TAS00002MM

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gangway

with type designation(s)
Aluminium Gangway 7,5m, 8m, 8,5m, 9m, 9,5m, 10m, 10,5m, 11m

Issued to
TUYCALDE, S.L.
Mos, **Spain**

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

Application :

Type 4 Ship-to-shore Aluminium gangways designed for load according to ISO 7061:2015(E), for means of embarkation and disembarkation according to IMO Res. MSC.256 (84) reg. 3-9, SOLAS Reg.II-1/3-9 and MSC.1/Circ.1331

Issued at **Høvik** on **2022-09-20**
This Certificate is valid until **2027-09-19** .
DNV local unit: **NB/CMC Team West**

Approval Engineer: **Mats Asvald Innstø**

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

Gangways designed to withstand a load equal to 4000 N/m2 according to ISO 7061:2015(E), with the maximum inclination degree of 30 degree and the following dimensions:

- Length = 7.5m, 8.0m, 8.5m, 9.0m, 9.5m, 10.0m, 10.5m, 11.0m
- Width = 600 mm

Gangway type definitions:
• Type 4 “Ship-to-shore” according DNVGL-ST-0358
• Type A decking gangway according ISO 7061:2015(E)

Application/Limitation

- 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.
- This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV.
- Connection and support to the ship’s deck structure is not covered by this verification and is to be approved in connection with approval of hull structure where necessary.
- All materials shall be delivered with Material certificates equal to minimum EN-10204:2005 3.1
- All welding to be carried out by qualified welders and according to approved welding procedures acceptable to the surveyor.
- The various components transferring the load like links, shackles, wire etc. shall be made according to recognized standards and be delivered with relevant certificates for grade of material and testing.
- The connection between aluminium and steel has to be properly insulated to prevent galvanic corrosion.
- If a DNV product certificate is required to be obtained, the manufacturer is required to have a DNV surveyor witness all important production and tests as required.

Type Approval documentation

Drawing No.	*Rev.*	*Title*
GW-000100	E	Gangway Arrangement 7,5m
GW-000100	E	Gangway Arrangement 8,0m
GW-000100	E	Gangway Arrangement 8,5m
GW-000100	E	Gangway Arrangement 9,0m
GW-000100	E	Gangway Arrangement 9,5m
GW-000100	E	Gangway Arrangement 10,0m
GW-000100	E	Gangway Arrangement 10,5m
GW-000100	E	Gangway Arrangement 11,0m

Tests carried out

Type tests carried out according to ISO 7061:1993(E), 8 Acceptance tests. Load test carried out 2013-04-11, witnessed by DNV Vigo.

After completion, individual gangways are to be tested according to ISO 7061:2015 (E) 9 Acceptance tests, if requested by the purchaser.

Marking of product

Each gangway shall be marked according to ISO 7061:2015(E) 11 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.

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