



Certificate No:
TAS000035G

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gangway

with type designation(s)
Brude Gangway System

Issued to

MacGregor Sweden AB
Västra Frölunda, Västra Götalands Län, Sweden

is found to comply with

DNV standard DNV-ST-0378 – Standard for offshore and platform lifting appliances

Application :

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

Issued at **Høvik** on **2021-11-18**

This Certificate is valid until **2026-11-17**.

for **DNV**

DNV local station: **Sweden CMC**

Approval Engineer: **Mats Asvald Innstø**

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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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Page 1 of 2

Product description

The Brude Gangway System is designed to withstand a load equal to 4000 N/m² according to ISO 7061:2015(E)

Application/Limitation

- The hydraulic cylinders are understood to be used only to lift and lower the gangway without load and is assumed to be delivered with manufacturers certificate.
- If a DNV product certificate is required, all materials shall be delivered with material certificates equal to minimum EN-10204:2005 3.1.
- If a DNV product certificate is required, all welding to be carried out by qualified welders. Reference is given to DNV's "Standard for Certification of Lifting Appliances.
- If a DNV product certificate is required, the gangway is subject to testing according to ISO 7061:2015(E) 8.3.2., a uniform load equivalent to 5000 N/m².
- Connection and support to the ship's structure is assumed covered by separate approval.
- The gangway is assumed to be function and load tested after installation onboard.

Type Approval documentation

Tests carried out

The gangway was tested according to ISO 7061:2015(E) 8.3.2. and 8.3.3. The acceptance load test was carried out on 2013-09-16 by DNV Esti OU.

Marking of product

The aluminium gangways are to be marked with manufacturer's name or trademark, type number identification and reference to TA-certificate number.

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