Certificate no.:
TAS000046C

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Crane Pedestal

with type designation(s)
Tower Upper Part

issued to
Ampelmann Operations B.V.
Delft, Zuid-Holland, **Netherlands**

is found to comply with
DNV standard DNV-ST-0358 – Offshore gangways
DNV standard DNV-ST-0378 – Offshore and platform lifting appliances

Application:

Support structure for offshore gangway

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

Issued at **Høvik** on **2024-06-13**
This Certificate is valid until **2029-06-12**.
DNV local unit: **Netherlands CMC**

for **DNV**

Approval Engineer: **Florian Teica**

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

Equipment type: Tower upper part
Equipment use: Upper part of gangway pedestal (tower) providing support to an offshore gangway and designed to be used together with height adjustable equipment (cursor covered by Type Approval TAS000045V)

Application/Limitation

Self-weight: as per PZEAF432EHE6-599815050-3337 Rev J *Mass and CoG list*

- Fixed cursor, including transfer deck and elevator door: 25.7 tonnes
- Upper Tower: 36.65 tonnes
- Offshore gangway: 39.0 tonnes (offshore gangway above the pedestal slewing bearing)

Operational limitations at gangway slewing bearing: as per TAS000045V.

Service life: 20 years
Utilization: as per PZEAF432EHE6-599815050-38895 Rev B

Design temperature: -20°C

The operational limitations defined above have been provided by Ampelmann BV, 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.

The Type Approval is not covering the following components:

- The height adjustment winch
- The unwelded metallic sheaves

For certification requirements for components see DNV-ST-0358 Section 2 and below:

- The height adjustment winch shall be delivered with DNV PC
- The unwelded metallic sheaves shall be delivered with Manufacturer PC

Approval conditions

1. Height adjustment shall be performed with the gangway at minimum length (telescoping segment fully retracted), with the gangway aligned at +/-17 deg in horizontal direction, relative to the cursor centre line. Personnel is not allowed on the gangway during these operations.

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 Upper tower shall be tested as per DNV-ST-0358 Sec 7 and DNV approved test procedures in the presence of a DNV Surveyor.

Marking of product

Marking shall be 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