Certificate no.:
TAS00004T9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Winch - General Application

with type designation(s)
Offshore Gangway Luffing Winch

issued to
Seaonics AS
Ålesund, **Norway**

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

Application:

Issued at **Høvik** on **2025-04-02**
This Certificate is valid until **2030-04-01**.
DNV local unit: **Mid-North Norway FiS**

Approval Engineer: **Paulo Correia**

for **DNV**

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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 USD 300 000.

Product description

Luffing Winch for Offshore Gangway with:

- Safe Working Load, SWL = 72 000 kg (1 layer, 5 wire ropes)
- Safe Working Load per wire rope, SWL/5 = 14 400 kg
- Wire Rope Diameter = 34 mm
- Wire Rope MBL = 1287 kN

Application/Limitation

- The various components transferring the load like wire clamps, wires, shackles etc. are to comply with an international standard or code and are to be delivered with manufacturer's certificates.
- Load carrying bolts are to be pre-stressed according to procedures acceptable to the attending surveyor.
- Installation onboard, support to the structure and connection to the power supply are not included in this approval and shall be evaluated in each case.
- Wire rope is to be spooled on the drum in a satisfying way. Minimum 3 turns of wire rope is always to remain on the drum.
- Materials are to be delivered with 3.1 certificates.

Type Approval documentation

Drawing No.	***Rev.***	***Title***
PD-11100AQ-A-FAT-003	C	FAT Procedure
PD-11100AQ-A-NCA-003	B	Luffing Winch - Calculation Report
PD-11100AQ-A-MXP-003	A	Luffing Winch Drawing bundle

Tests carried out

The prototype test is not required. In order to obtain DNV Product Certificate, the load test shall be carried out in accordance with DNV-ST-0378, Section 14.

Marking of product

Each winch shall be marked according to DNV-ST-0378, Section 14.

Periodical assessment

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

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.