

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Portable Offshore Units**

with type designation(s)
NorMar 10' Offshore Frame

Issued to

Noren Bergen AS
Mathopen, Norway

is found to comply with
DNV GL standard DNVGL-ST-E273 – 2.7-3 Portable offshore units, December 2016

Application :

DNV 2.7-3 Type B R30
Max significant wave height during offshore lift: 3.0 m
Only certified lifting equipment shall be used.
Max. gross mass (kg) 5500
Max. payload (kg) 4850
Max. sling leg angle 30

Issued at **Høvik** on **2019-05-21**

This Certificate is valid until **2024-05-20**.

DNV GL local station: **Tallinn**

for **DNV GL**

Approval Engineer: **Steinar Hernes**

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Stig Johannes Johannesen
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: **262.1-031141-1**
Certificate No: **TAS0000215**

Holder of certificate

Noren Bergen AS, Hillerenveien 82 – 5174 Mathopen, Norway.

Manufactured by

VMT Tehased AS, Reinu tee 27, 71010 Viljandi, Estonia

Responsability

The Holder of the Certificate takes responsibility that both design and production are in compliance with the Rules, Standards and/or Regulations listed on page 1 of this Type Approval Certificate.

Product description

POU TYPE / CLASS : DNVGL 2.7-3 Type B R30
TARE WEIGHT : 650 kg
POU external dimensions (LxWxH) : 2991 x 2438 x 2650 [mm]

Application/Limitation

Maximum Gross Weight (MGW) : 5 500 kg
Max Hs during offshore lift : 3.0 m
Min. temperature : -20 °C
Sling angle from vertical (max) : 30°
Shackles (WLL) : 8.5 mT (Øpin=28 mm)

Lifting:

Lifting of these units shall be carried out as planned operations. Specific lifting procedure is required and shall be available prior to and during operation. The procedure shall include all relevant information required to ensure safe handling of the unit, - including user instructions for MODULIFT 12 spreader beam.

Reference to the procedure (doc.no. 302-060, Rev. 01) shall be clearly stated on the information plate.

The certificates are valid only when the units are fitted with certified lifting set.

Sea transport:

Requirements for seafastening shall be assessed by the transport contractor for each transport taking into consideration vessel particulars, position of POU, transport route and expected weather conditions.

DNV GL surveyor to witness important production and test events and issue Form no. MOP 201 "Certificate for Portable Offshore Unit" for each unit.

Production strength tests to be carried out according to DNVGL-ST-E273 (December 2016) and after agreement with the DNV GL Surveyor.

Type Approval documentation

Tests carried out

Prototype testing according to DNVGL-ST-E273, Sec. 5.

All point lift test according sec. 5.2.3, minimum required test load: **13 800 kg**.

Marking of product

Each unit to be marked with:

- Safety marking according to DNVGL-ST-E273 (December 2016), sec. 6 including
 - o Operational Class Identification
 - o "OPERATIONAL RESTRICTIONS"
- Data plates according to DNVGL-ST-E273 (December 2016), sec. 6
- Reference to operational procedure shall be clearly stated on information plate
- The general DNV GL hard stamp "VL" shall be hard stamped on frame
- Manufacturer's serial number to be welded on frame
- DNV GL emblem for Portable Offshore Units

Periodical assessment



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In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNVGL-CP-0338 at 2 and 3.5 year intervals (+/- 90 days). Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.