

TYPE APPROVAL CERTIFICATE

This is to certify:

That the portable offshore units

with type designation(s)
Skid Base and Spreader Bar

Issued to

VG Offshore Containers International (M) Sdn Bhd
Pelabuhan Klang,, Selangor, Malaysia

is found to comply with

DNV standard DNV-ST-E273 – 2.7-3 Portable offshore units, April 2016 (Amended October 2021)

Application :

Max. gross mass (kg) **5400 (top lift point of assembly)**
Max. payload (kg) **4000 (secured on skid base)**
Max. sling leg angle **(see page 2)**

Issued at **Aberdeen** on **2023-07-21**

This Certificate is valid until **2028-07-20** .

for **DNV**

DNV local unit: **Kuala Lumpur**

Approval Engineer: **Elisabeth Legg**

Brendan Ward
Senior Engineer

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

Skid base maximum external dimensions (LxWxH) : 2800 x 1730 x 275 mm
Tare mass* : 1400 kg (skid base plus spreader bar)
Type : B
Operational Class : R30

*) Tare mass is to be confirmed by weighing. The sum of tare and payload shall never exceed the maximum gross mass stated on the front page of this certificate.

Maximum sling angle from vertical
skid base and spreader bar lower pad eyes : 13°
spreader bar upper pad eyes : 30°

Application/Limitation

Minimum design temperature : -20 °C
Shackle sizes
skid base : 4.75 t
spreader bar : 8.5 t

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

The skid base has been approved for lifting and transportation offshore using dedicated the spreader bar.

The spreader bar is an integral item of the portable offshore unit and shall be included in all prototype and production load tests.

Type Approval documentation

Tests carried out

Prototype tested in accordance with DNV-ST-E273.

Marking of product

Marking shall be carried out in accordance with to DNV-ST-E273 section 6.

The spreader bar and skid base shall be certified as a single portable offshore unit.

The spreader bar information plate shall be marked with the serial and decal numbers of the skid base.

The skid base information plate shall reference the operational procedure.



Job Id: **262.1-040137-1**
Certificate No: **TAS00003Y3**

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

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>