Certificate No:
TAS0000332

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Container

with type designation(s)
Offshore frame for 550 gal. tote tank

Issued to
KKB Engineering Berhad
Kuching, Sarawak, Malaysia

is found to comply with
DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, January 2021
IMO/MSC Circular 860

Application :

Max. gross mass (kg)	**5070**
Max. payload (kg)	**4330**
Max. sling leg angle	**30°**
Enhancement factor	**1.948**

Issued at **Høvik** on **2021-06-16**
This Certificate is valid until **2026-06-15** .
DNV local unit: **Kuala Lumpur Verification**

Approval Engineer: **Igor Antonijevic**

for **DNV**

Zeinab Sharifi
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.

Product description

Offshore frame for transport of 550 gal tote tank.

Max. external dimensions (LxWxH): 1500 x 1160 x 2265 mm
Tare mass[1)]: 740 kg

[1)]tare mass has to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the max. gross mass as stated on the front page of this certificate.

Application/Limitation

Design temperature : 0 °C
Min. shackle bolt diameter : 21.6 mm

This offshore frame is designed, and type approved to transport IBCs with liquid or solid cargoes that are classified as dangerous goods according to IMDG Code. The Type approval covers only the frame, and the IBC is assumed to be delivered with separate adequate certification.

This Offshore Container design is only for use in temperate climate and shall follow the restrictions and marking requirements according to DNVGL-ST-E271 Section 10. Area restriction, “Only to be used between 36º North and 36º South and in Australian Waters”, is to be included in the product certificate

DNV surveyor has to witness important production and test events and issue Form no. 71.08a “Certificate for Offshore Container” for each container, and any additional certificate as required by the competent authority.

Production strength tests (All point lifting) to be carried out according to DNV 2.7-1 and after agreement with the DNV surveyor.

The container product certificates are only valid when the containers are fitted with a lifting set approved by DNV according to DNV 2.7-1

Type Approval documentation

Tests carried out

Prototype with serial number KKB-LF-02 tested according to the requirements.

Marking of product

Each container has to be marked with:

- Data plates and inspection plate according to DNV 2.7-1 Section 10 requirements
- External marking according to DNV 2.7-1 Section 10 requirements
- DNV decal for offshore containers
- NV mark to be hard stamped on frame
- Manufacturer’s Serial Number is to be welded on the frame

Periodical assessment

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

END OF CERTIFICATE