

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Offshore Container**with type designation(s)
Winch Frame

Issued to

MacArtney A/S
Esbjerg V, Denmark

is found to comply with

DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017
ISO 10855:2018 Offshore containers and associated liftings sets – Design, manufacture, testing, inspection and marking
IMO/MSC Circular 860**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Max. gross mass (kg)	8000
Max. payload (kg)	0
Max. sling leg angle	45
Enhancement factor	1.633

Issued at **Aberdeen** on **2018-07-04**This Certificate is valid until **2023-07-03**.for **DNV GL**DNV GL local station: **Esbjerg**Approval Engineer: **Brendan Ward**.....
Alex Doig
Team Lead

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: **262.1-029145-1**
Certificate No: **TAS00001HM**

Product description

Maximum external dimensions (LxWxH) : 2800 x 1760 x 2312 mm
Tare mass* : 8000 kg

*) Tare mass is to be confirmed by weighing and it shall never exceed the maximum gross mass stated on the front pages of this certificate.

Application/Limitation

Design temperature : -20 °C
Minimum shackle bolt diameter : 24.5 mm

DNV GL surveyor to witness important production and test events and issue a "Certificate for Offshore Container" for each container. The certificates are only valid when the containers are fitted with a lifting set certified according to DNVGL-ST-E271.

Type Approval documentation

Tests carried out

Prototype number 2016-0150 tested according to DNVGL-ST-E271.

Marking of product

Each container to be marked with DNVGL / EN requirements, including:

- Data plates according to DNV GL/EN requirements
- DNV GL emblem for offshore containers
- VL mark to be hard stamped on frame
- Manufacturer's Serial Number to be welded on frame.

Periodical assessment

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. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

END OF CERTIFICATE