



Certificate no.:
TAS0000491

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Offshore Container

with type designation(s)
Lifting Frame

issued to

Swire Energy Services AS
Sola, Norway

is found to comply with

DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, March 2023
ISO 10855-1:2018 Offshore containers and associated liftings sets – Part 1: Design, manufacture and marking of offshore containers
IMO/MSC Circular 860

Application:

Max. gross mass (kg)	20000
Max. payload (kg)	16050
Max. sling leg angle	30
Enhancement factor	1.148

Issued at **Aberdeen** on **2024-04-22**

This Certificate is valid until **2029-04-21**.

DNV local unit: **Stavanger**

for **DNV**

Approval Engineer: **Anjana Kodappully**

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.



Form code: TA 281

Revision: 2023-09

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Manufactured by
Manufacturer Name
Location
DNV Local Office
Gdynia

DNV CIM Number
134179

Responsibility

Swire Energy Services AS 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

Type	Maximum external dimensions (LxWxH)	Tare mass**
Lifting Frame	3500 x 2438 x 3794 mm	3950 kg

Application/Limitation

Design temperature	: -20 °C
Minimum shackle pin diameter	: 34.4 mm

The DNV surveyor shall witness all important production and testing events and issue a certificate for each container. The certificate is only valid when the container is fitted with a DNV-ST-E271 certified lifting set.

The connecting items associated with the removable primary items shall be checked for damage prior to transportation and lifting activities. Should any signs of significant wear or damage be evident, these items shall be replaced with equivalent fasteners. The connecting items shall be permanently secured to the structure by means of a chain or equivalent. This shall be transferred to the offshore container certificate.

Type Approval documentation
Tests carried out

Prototype tested in accordance with DNV-ST-E271.

Marking of product

Each container to be marked in accordance with DNV / ISO requirements, including:

- Data and inspection plates
- DNV emblem for offshore containers
- NV mark to be hard stamped on the data plate
- Manufacturer's Serial Number to be welded on frame
- Removable primary items shall be marked with the frame's serial number.
- Marking on frame with words to the effect of "removable items shall be fitted during all lifting and transportation activities"

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>