DNV·GL

Certificate No:
TAS00002AH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Container

with type designation(s)
20' x 8' Container

Issued to
Global Energy (Group) Ltd
Aberdeen, United Kingdom

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
International Convention for Safe Containers, 1972 (CSC)
ISO 1496, Part 1: General Cargo Containers for General Purposes

Application :

Max. gross mass (kg)	**12000**
Max. payload (kg)	**0**
Max. sling leg angle	**30**
Enhancement factor	**1.413**

Issued at **Aberdeen** on **2019-11-28**
This Certificate is valid until **2024-11-27**.
DNV GL local station: **Aberdeen**

Approval Engineer: **Ronald Quiballo**

for **DNV GL**

Elisabeth Legg
Principal 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.

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Manufactured by
DNV GL CIM No.: 155744

DNV GL CIM No.: 10575231

Responsibility
Global Energy (Group) Ltd 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
This type approval replaces S-8725.

20' ISO / CSC freight container and offshore container.

ISO designation	: 1CC
Size code	: 24
Type Code	: VJ (typically)
Maximum external dimensions (LxWxH)	: 6058 x 2438 x 2688 mm
Stacking test load per corner	: 54000 kg
Allowable stacking weight for 1.8g	: 120000 kg
Tare mass*	: 12000 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
CSC Approval reference number: **N-NV/533/03/14**

Design temperature	: -20 °C
Minimum shackle pin diameter	: 28.2 mm

The DNV GL 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 DNVGL-ST-E271 certified lifting set.

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV GL.

Type Approval documentation

Tests carried out
Prototypes tested in accordance with DNVGL-ST-E271 and ISO 1496-1.

Marking of product
Each container to be marked in accordance with DNV GL / ISO / CSC requirements, including:
- Data and inspection plates
- Size and Type Codes and relevant parts of ISO 6346
- DNV GL emblem for offshore containers
- VL mark to be hard stamped on the data plate
- 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-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

Appendix

This Type Approval also considers the structural aspects of the unit within the scope of DNVGL-ST-E272 section 3.

In order to be certified as an Offshore Service Module, the design shall be reviewed and shall comply with all the relevant parts of DNVGL-ST-E272.

This container has also been approved in accordance with DNVGL-ST-E272, February 2016, section 3 for the following parameters:

Ship Use	: yes
Floating installation	: yes
Fixed installation	: yes
Maximum operational weight	: 12000 kg
Sea pressure	: 15 kPa
Acceleration (maximum vertical)	: 13 m/s^2
Acceleration (minimum vertical)	: 7 m/s^2
Acceleration (horizontal)	: 4 m/s^2
Other service loads	: Wind – 2.5 kPa
	: Snow – 15 kPa
	: Floor – 2.5 kPa
Seafastening method	: certified twist locks on corner castings
Stacking	: no