DNV·GL

Certificate No:
TAS00001V6

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Container

with type designation(s)
10' offshore container - BCL 4421
10' offshore container - BCL 5841
12' offshore container - BCL 4398
16' offshore container - BCL 4408
20' offshore container - BCL 4414
20' offshore container (Rev. 1) - BCL 4420

Issued to
Bootle Containers Ltd.
Bootle, Merseyside, 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

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type	Max. gross mass (kg)	Max. payload (kg)	Max. sling leg angle	Enhancement factor
10' offshore container - BCL 4421	10000	7000	45	1.501
10' offshore container - BCL 5841	10000	7000	45	1.501
12' offshore container - BCL 4398	10000	6800	45	1.501
16' offshore container - BCL 4408	10000	6300	45	1.501
20' offshore container - BCL 4414	11000	5700	45	1.457
20' offshore container (Rev. 1) - BCL 4420	13000	7300	45	1.368

Issued at **Aberdeen** on **2018-12-20**
This Certificate is valid until **2023-12-19**. for **DNV GL**
DNV GL local station: **Manchester**

Approval Engineer: **Brendan Ward**

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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Product description

This certificate is valid for the full range of lengths between 10’ and 20’ with scantlings identical to the 20’ design (BCL 4414), if not shown.

10' offshore container – BCL 4421	2991 x 2438 x (2591 to 2896) mm	3000 kg
10' offshore container – BCL 5841	2991 x 2438 x 3396 mm	3000 kg
12' offshore container – BCL 4398	3694 x 2438 x (2591 to 2896) mm	3200 kg
16' offshore container – BCL 4408	4875 x 2438 x (2591 to 2896) mm	3700 kg
20' offshore container – BCL 4414	6058 x 2438 x (2591 to 2896) mm	5300 kg
20' offshore container (Rev. 1) – BCL 4420	6058 x 2438 x (2591 to 2896) mm	5700 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 : 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.

Type Approval documentation

Tests carried out

Prototype testing carried out in accordance with DNV GL 2.7-1.

Marking of product

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

- Data and inspection plate
- 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