

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Offshore Container**with type designation(s)
CB484 & CB485 Open Top Container

Issued to

D.F. Barnes Fabrication Limited
St. John's NL, Canada

is found to comply with

DNV 2.7-1 Offshore Containers (2013)**EN 12079 Offshore containers-Design, construction, 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.**CB484:

Max. gross mass	19500 kg	42990 lbs
Max. payload	14900 kg	32849 lbs
Max. sling leg angle	30	-
Enhancement factor	1.161	-

CB485:

Max. gross mass	16000 kg	35274 lbs
Max. payload	11500 kg	25353 lbs
Max. sling leg angle	30	-
Enhancement factor	1.254	-

Issued at **Houston** on **2017-09-08**This Certificate is valid until **2022-09-07**.for **DNV GL**DNV GL local station: **St. John's, NL**Approval Engineer: **Aaron Grierson**

Nick Prokopuk
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.



Product description

CB484:

Max. external dimensions (LxWxH)	: 14635 x 1600 x 1470 mm	
Tare	: 4600 kg	: 10141 lbs

CB485:

Max. external dimensions (LxWxH)	: 14835 x 1725 x 1165 mm	
Tare	: 4500 kg	: 9921 lbs

Application/Limitation

CB484 :

Lifting Set Minimum WLL	: 22.64 t	: 24.96 tons
Shackle WLL	: 9.5 t	: 10.47 tons
Min Design Temperature	: -20 °C	: -4 °F
Minimum Pin Diameter	: 32 mm	: 1.25 in.

CB485 :

Lifting Set Minimum WLL	: 20.06 t	: 22.11 tons
Shackle WLL	: 9.5 t	: 10.47 tons
Min Design Temperature	: -20 °C	: -4 °F
Minimum Pin Diameter	: 32 mm	: 1.25 in.

DNV GL surveyor to witness important production and test events and issue Form no. 49.07a "Certificate for Offshore Container" for each container.

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

The certificates are only valid when the containers are fitted with a lifting set certified according to DNV 2.7-1.

Type Approval documentation

Tests carried out

Prototype no. CB484-003 strength tested according to DNV 2.7-1

Marking of product

Each container to be marked with:

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

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform a survey every 2nd year and before the expiry date of this certificate to verify that the type approval is complied with.

END OF CERTIFICATE