

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)

Flush elephant foot lashing point FF-8A, Flush elephant foot lashing point FF-9B, Flush elephant foot lashing point FF-9A, Flush elephant foot lashing point FF-9, Flush elephant foot lashing point FF-8

Issued to

Container Technics NV
Wijnegem, Antwerpen, Belgium

is found to comply with

DNV class programme DNV-CP-0068 – General – Certification of container securing devices

Application :

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

Type	SWL, tension (kN)
Flush elephant foot lashing point FF-8A	2x100
Flush elephant foot lashing point FF-9B	2x100
Flush elephant foot lashing point FF-9A	2x100
Flush elephant foot lashing point FF-9	2x100
Flush elephant foot lashing point FF-8	2x100

Issued at **Hamburg** on **2023-09-20**

This Certificate is valid until **2028-09-19**.

DNV local unit: **Belgium CMC**

for **DNV**

Approval Engineer: **Mark-Oliver Wobig**

Andree Orth
Head of Section

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.



Product description

Flush lashing points

Application/Limitation

Load	Tension [kN]
Test Load	2 x 150
Breaking Load	2 x 200

Tests to be carried out:

- Production testing: At least 2% of the items delivered are to be selected and subjected to the test load.
- All welding-in pockets of support fittings shall be checked for tightness and delivered with proof issued by the manufacturer. The Society reserves the right to be present at tightness test.
- Material tests shall include impact testing at -20°C, with the impact energy requirements acc. to DNV-CP-0068. The material shall be according to the approved drawings. Material certificates shall be issued by the society.

Type Approval documentation

Drawing No.	Rev.	Title
FF-8A	e	Elephant foot lashing point (pg.1,2)
FF-9B	b	Elephant foot lashing point (pg.1,2)
FF-9A	c	Elephant foot lashing point (pg.1,2)
FF-9	e	Elephant foot lashing point (pg.1,2)
FF-8	e	Elephant foot lashing point (pg.1,2)

Test Report No.: M-NP-CMCG/A139076-1, rev.1 dated 2023-09-22
Drawing approval dated 2023-09-20, 262.1-010574-4

Tests carried out

The prototype test was carried out in Barlinek, Poland, dated 2023-06-30 in accordance with the DNV-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

For retention of the Type Approval, a DNV surveyor shall perform a survey after 2 and 3.5 years, to verify that the Type Approval is complied with.