DNV·GL

Certificate No:
TAS00001WD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Flush D-Ring FA-13-1D

Issued to
TEC CONTAINER, S.A.
Mejorada Del Campo, Madrid, Spain

is found to comply with
DNV GL rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.
SWL, tension (kN) 2x 100
SWL, shear (kN)
SWL, compr. (kN)

Issued at **Hamburg** on **2019-01-23**
This Certificate is valid until **2024-01-22**.
DNV GL local station: **Madrid**

Approval Engineer: **Daniel Abt**

for **DNV GL**

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.

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Product description

Flush D-Ring FA-13-1D

Application/Limitation

Load	Tension [kN]
Test load	2x 100
Breaking load	2x 200

Tests to be carried out:

- Production testing: At least 2% of the iterms delivered are to be selected and subjected to the test load
- Material tests are to be included energy testing at -20°C, with the impact energy requirements acc. to DNVGL-CP-0068. The material shall be according to the approved drawings. Maternal certificates shall be 3.1 acc. to DIN EN 10204.

Type Approval documentation

Drawing No.	Rev.	Title
FA-13-1D	2	Flushed D-ring

Tests carried out

The prototype test was carried out in Yixing, China, dated 2018-12-28 in accordance with the DNVGL-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical assessment

For retention of type approval, a DNVGL-surveyor shall perform a survey after 2 and 3.5 years, to verify that the type approval is complied with.