Certificate no.:
TAS0000461

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cargo Securing Devices

with type designation(s)
Guide Cone GF-1, Guide Fitting GF-2/L-W-H

issued to
Cargo Care Solutions B.V.
Barendrecht, **Netherlands**

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, shear (kN)
Guide Cone GF-1	210
Guide Fitting GF-2/140-W-H	210
Guide Fitting GF-2/280-W-H	2*210

Issued at **Hamburg** on **2024-01-23**
This Certificate is valid until **2029-01-22**.
DNV local unit: **Netherlands CMC**

for **DNV**

Approval Engineer: **Mark-Oliver Wobig**

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

Guide Cone GF-1
Guide Fitting GF-2/L-W-H,
With length (L) of 140 mm and 280 mm, width (W) 25-75mm, height (H) 70-200mm

Application/Limitation

Load	Shear [kN]*
Test Load	263
Breaking Load	420

'*' means: For the guide fitting GF-2/L-W-H with length of 280 mm, the loads are to be doubled, as two container castings are supported by the fitting.

Tests to be carried out:

- Production testing: At least 2% of the items delivered are to be selected and subjected to the test load.
- Material tests are to be included energy testing at 0°C, with the impact energy requirements acc. to DNV-CP-0068. The material shall be according to the approved drawings. Material certificates shall be 3.1 acc. to ISO 10474:2013.

Type Approval documentation

Drawing No.	Rev.	Title
GF-1		Guide Cone, pg. 1-2
GF-2	a	Guide Fitting, pg. 1-3

Drawing approval: Ref.No. 262.1-040580-1, dated 2024-01-25
Type test report dated 2023-12-28.

Tests carried out

The prototype test was carried out in Yixing, P.R. China, dated 2023-12-28 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.