Certificate no.:
TAS00004MZ

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Cargo Securing Devices

with type designation(s)
Double Raised Foundation DZ-2B

issued to
PortStar SC Container Lashing (Shanghai) Co., Ltd.
Shanghai, **China**

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.

SWL, tension (kN)	**250**
SWL, shear (kN)	**210**
SWL, compr. (kN)	**1000**

Issued at **Hamburg** on **2025-02-07**
This Certificate is valid until **2030-02-06**.
DNV local unit: **Shanghai**

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 USD 300 000.

Product description

Double Raised Foundation

Application/Limitation

Load	Shear [kN]	Tension [kN]	Compression [kN]
Test Load	263	313	1250
Breaking Load	420	500	2000

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 -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 3.1 acc. to ISO 10474:2013.

Type Approval documentation

Drawing No.	Rev.	Title
PS-C004-1	02	Double Raised Foundation DZ-2B

Drawing approval: Ref.No. 262.1-042509-1, dated 2025-01-08
Test report No.: PS24082801 dated 2024-08-28

Tests carried out

The prototype test was carried out in Shanghai, P.R. China, dated 2024-08-28 in accordance with the DNV-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.