DNV·GL

Certificate No:
TAS00002C7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Guide Block D3-1(28)/140/100, Guide Block D3-1(28)/280/100, Guide Block D3-1(W)/L/H

Issued to
Kunshan Luckysea Industrial Co., Ltd.
Kunshan, China

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.

Type	SWL, shear (kN)
Guide Block D3-1(28)/140/100	210
Guide Block D3-1(28)/280/100	420
Guide Block D3-1(W)/L/H	210

Issued at **Hamburg** on **2019-12-17**
This Certificate is valid until **2024-12-16**.
DNV GL local station: **Shanghai**

Approval Engineer: **Mark-Oliver Wobig**

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

Guide Fitting

Application/Limitation

Load	Shear [kN]	L=140mm	L=280mm
Test Load		263	526
Breaking Load		420	840

Tests to be carried out:

- Production testing: At least 2% of the items delivered are to be selected and subjected to the test load.
- Note to load table: Double shear loads for long guide fittings due to load of two container corner fittings
- Material tests are to be included energy testing at 0°C, with the impact energy requirements acc. to DNVGL-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
K-D3-1(W)/L/H	S	Guide Block

Tests carried out

The prototype test was carried out in Kunshan, P.R. China, dated 2019-08-27 in accordance with the DNVGL-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

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