DNV·GL

Certificate No:
TAS00002BS

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Slide Twistlock F1-1L(R), Slide Twistlock F1-2L(R)

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, tension (kN)	SWL, shear (kN)
Slide Twistlock F1-1L(R) (45°)	250	210
Slide Twistlock F1-2L(R) (55°)	250	210

Issued at **Hamburg** on **2019-12-12**
This Certificate is valid until **2024-12-11**.
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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Job Id: **262.1-032676-1**
Certificate No: **TAS00002BS**

Product description

Slide Twistlock

Application/Limitation

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

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 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-F1-1(2)L(R)		Slide Twistlock
K-LBD-1		Slide Twistlock Base
K-LBD-2		Slide Twistlock Base
K-TWC-1Z		Shift

Tests carried out

The prototype test was carried out in Kunshan, P.R. China, dated 2019-10-24 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.