

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cargo Securing Devices**

with type designation(s)

Raised Foundation A5-3S(185)-110, Raised Foundation A5-3S(185)-126, Raised Foundation A5-3S(185)-140, Raised Foundation A5-3S(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, tension (kN)	SWL, shear (kN)
Raised Foundation A5-3S(185)-110	250	210
Raised Foundation A5-3S(185)-126	250	210
Raised Foundation A5-3S(185)-140	250	210
Raised Foundation A5-3S(L)-H	250	210

Issued at **Hamburg** on **2019-12-17**This Certificate is valid until **2024-12-16**.for **DNV GL**DNV GL local station: **Shanghai**Approval Engineer: **Mark-Oliver Wobig**

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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.



Product description

Raised Foundation

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-A5-3S(L)-H	S	Raised Foundation

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.