DNV·GL

Certificate No:
TAS00001YA

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Lifting Socket SF-1LS/110/28/R159/III/PM

Issued to
SEC Ship's Equipment Centre Bremen GmbH & Co. KG
Bremen, Germany

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.
SWL, tension (kN) 250 / 240
SWL, shear (kN) 210 / -

Issued at **Hamburg** on **2019-02-25**
This Certificate is valid until **2024-02-24**.
DNV GL local station: **Hamburg CMC**

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: **262.1-030713-1**
Certificate No: **TAS00001YA**

Product description

Lifting Socket

Application/Limitation

Load	Tension [kN]	Shear [kN]	Tension Lifting [kN]
Test Load	313	263	480
Breaking Load	500	420	960

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. For item 1 the material certificate shall be issued by the society, for items 2 and 3 a material certificate 3.1 acc. to ISO 10474:2013 shall be provided.

Type Approval documentation

Drawing No.	Rev.	Title
P – SF 1094		Lifting Socket

Tests carried out

The prototype test was carried out in Shanghai, P.R. China, dated 2019-01-28 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.