

Certificate No: TAS00002RR

# TYPE APPROVAL CERTIFICATE

This is to certify:

**That the Cargo Securing Devices** 

with type designation(s)

Removable D-Ring AL-L1/36T, Removable D-Ring AL-L1/50T

Issued to

General Lashing System (China) Co., Ltd. Ningbo, 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)

Removable D-Ring AL-L1/36T 180 Removable D-Ring AL-L1/50T 250

Issued at Hamburg on 2020-10-22

for **DNV GL** 

This Certificate is valid until 2025-10-21.

DNV GL local station: Ningbo FIS

Approval Engineer: Mark-Oliver Wobig

Andree Orth Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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 300,000 USD.



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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.

Job Id: **262.1-033915-1** Certificate No: **TAS00002RR** 

## **Product description**

Removable D-Ring

# Application/Limitation

<u>Load</u>	36T Version Tension [kN]	50T Version Tension [kN]
Test Load	270	375
Breaking Load	360	500

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
AL-L1	Α	Removable D-Ring
AL-A1/01	Α	D-Ring (50T)
AL-C1/01	Α	D-Ring (36T)
AL-L1/02	Α	Clamp 50t
AL-L1/02	Α	Clamp 36t
AL-L1/03	Α	D-Ring Foundation
AL-L1/04	Α	Pin
AL-L1/05	Α	Screw

Drawing approval No. 261.1-033915-1 Date: 2020-09-03

#### Tests carried out

The prototype test was carried out in Ningbo, P.R. China, dated 2020-08-27 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.

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