Certificate No:
TAS00003FA

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Raised Cloverleaf FL-1B/25

Issued to
Sclashing Shanghai Co., Ltd.
Shanghai, **China**

is found to comply with
DNV rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
SWL, tension (kN) 125

Issued at **Hamburg** on **2022-09-05**
This Certificate is valid until **2027-09-04**.
DNV local station: **Shanghai**

Approval Engineer: **Aadil Wafdi**

for **DNV**

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.

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

Product description

Raised Cloverleaf FL-1B/25

Application/Limitation

Load	Tension [kN]
Test Load	156.3
Breaking Load	250

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 DNV-CP-0068. The material shall be according to the approved drawings. Material certificates shall be issued by the society.

Type Approval documentation

Drawing No.	Rev.	Title
FL-1B/25	B	Raised Cloverleaf

Drawing approval: Ref.No. 262.1-037579-1, dated 2022-06-13
Test report No.: ZS202206001 dated 2022-07-08

Tests carried out

The prototype test was carried out in Taicang, P.R. China, dated 2022-07-08 in accordance with the DNV-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

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