

TYPE APPROVAL CERTIFICATE

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

with type designation(s)

Flush foundations double transversal AA-A2/203, Flush foundations double transversal AA-A2/216, Flush foundations double transversal AA-A2/258

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)	SWL, shear (kN)
Flush foundations double transversal AA-A2/203	250	210
Flush foundations double transversal AA-A2/216	250	210
Flush foundations double transversal AA-A2/258	250	210

Issued at **Hamburg** on **2019-08-22**This Certificate is valid until **2024-08-21**.for **DNV GL**DNV GL local station: **Ningbo**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

Flush foundation

Application/Limitation

Load	Tension [kN]	Shear [kN]
Test Load	375	315
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 issued by the society.

Type Approval documentation

Drawing No.	Rev.	Title
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AA-A2		Flush foundations double transversal
AA-A1/02		Socket
AA-A2/01		Panel

Drawing approval No. GL Ref.-No.: 09-034072 Date: 2009-03-02

Tests carried out

The prototype test was carried out in Ningbo, P.R. China, dated 2019-07-02 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.