

Certificate No: **TAS0000267**

TYPE APPROVAL CERTIFICATE

This is to certify:	
That the Cargo Securing Devices	
with type designation(s) Lashing bar (vertical type) BB-F1	
Issued to General Lashing System (China) Co. Ningbo, China	, Ltd.
is found to comply with DNV GL rules for classification - Ships	
Application:	
Product(s) approved by this certificate is/are accepted by DNV GL.	for installation on all vessels classed
SWL, tension (kN) 180	
Issued at Hamburg on 2019-08-22	for DNV GL
This Certificate is valid until 2024-08-21 . DNV GL local station: Ningbo	IOI DITT GL
Approval Engineer: Mark-Oliver Wobig	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: **262.1-031265-1** Certificate No: **TAS0000267**

Product description

Lashing bar

Application/Limitation

Load	Tension [kN]
Test Load	270
Breaking Load	360

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
BB-F1		Lashing bar (vertical type)
BB-B1/02		Jaw
BB-F1/01		Vertical head
BB-C1/06		Multiple section rod
BB-B1/05		Rod
BB-B1/03		Bar pin

Drawing approval No. GL Ref.-No.: 14-010515 Date: 2014-04-29

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.

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