



Certificate No:
TAF00001NB

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Floor Covering

with type designation(s)
FRP Step Tread Cover

Issued to

NANTONG STRONGRATE CO.,LTD
Nantong, Jiangsu, China

is found to comply with

DNV offshore standards

DNV rules for classification – Ships

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application :

Approved for use as floor covering.

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

Issued at **Hamburg** on **2022-02-11**

This Certificate is valid until **2027-02-10**.

DNV local station: **Nantong**

for **DNV**

Approval Engineer: **Roland Priebe**

.....
Jörg Kallies
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.



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Page 1 of 2

Product description

FRP Step Tread Cover consists of IFR (ISO resin fire retardant).

Thickness	3.2~6.4 mm
Density	1800 kg/m ³
Organic content	28%
Colour	Yellow

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

The FRP Step Tread Cover is only evaluated in accordance with fire technical requirements. Other requirements such as strength etc. has to be evaluated in each case.

This Certificate does not cover testing of the FRP Step Tread Cover subjected to Hydrocarbon or Jet fire exposure. DNV recommend that for any area where FRP Step Tread Cover are used and with possible exposure to Hydrocarbon or Jet fire, Risk Assessment is conducted to ensure that the use of FRP does not have any negative effect with respect to Escape, Safe Evacuation, Firefighting and Escalation of the original fire incident.

Each product is to be supplied with its manual for installation and maintenance.

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test Report No. AJFS2107005890FF dated 2021-08-05 from SGS, Nantong, Jiangsu, China.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 5 and Part 2.

Marking of product

The product is to be marked with name and address of manufacturer, type designation and fire technical rating.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNV-CP-0338, Section 4.