

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Lifeboats**

with type designation(s)
VG 7.5C/F

Issued to

Vanguard (Nantong) F.R.P. Co., Ltd.
Nantong Jiangsu, China

is found to comply with
**SOLAS 74 as amended, Regulation III/4, III/21, III/31, III/34 & X/3, LSA Code, IMO
MSC/Circ. 1006 & 1423, and 2000 HSC Code 8**

Application :

Totally Enclosed Lifeboat/Rescueboat for 82.5 and 98 kg person weight

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

Issued at **Høvik** on **2017-11-29**

This Certificate is valid until **2022-11-28**.

for **DNV GL**

DNV GL local station: **Nantong**

Approval Engineer: **Tessa Bieber**

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Mårten Schei-Nilsson
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.



Job Id: **262.1-008631-6**
Certificate No: **TALB000001Z**

Product description

This Certificate is valid for two boat types:

- Totally Enclosed Lifeboat/Rescueboat (cargo version)
- Totally Enclosed Fire Protected Lifeboat/Rescueboat with self contained air support system (tanker version)

Used materials:

Gelcoat	C138	Ashland (Changzhou) Specialty Chemicals Ltd
Polyester resin	TM-107	Changzhou Tianma Resin & Composite Factory
Glass fiber mats	EMC300, EMC600	Tianshan Fiber Glass INC
Glass fiber woven roving	EW800	Tianshan Fiber Glass INC

Length: 7.50 m
Breadth: 2.86 m
Depth: 1.15 m

Weight of boat, fully equipped dry cargo version: 3220 kg
Weight of boat, fully manned 82.5 kg: 8665 kg
Weight of boat, fully manned 98 kg: 8610 kg

Weight of boat, fully equipped tanker version: 3500 kg
Weight of boat, fully manned 82.5 kg: 8945 kg
Weight of boat, fully manned 98 kg: 8890 kg

Hook manufacturer and type: Vanguard Nantong Csafe5, onload
Hook SWL: 50 kN

Hull material: GRP

Propulsion system: Inboard engine
Engine manufacturer and type: Zhenjiang Siyang 380J-3 (1)
BUKH DV24RME (2)
BUKH DV29RME (3)
Nanni N3.30 (4)

Bollard pull: 3.2 kN (1)
2.6 kN (2)
3.1 kN (3)
3.0 kN (4)

Application/Limitation

Approved engine power: 22 kW
Maximum number of persons @82.5 kg – lifeboat/rescue boat: 66/6
Maximum number of persons @98 kg - lifeboat /rescue boat: 55/6
Maximum load of persons @98 kg: 5390 kg
Maximum load of persons @82.5 kg: 5445 kg

- Lifeboat & rescue boat equipment and marking/instructions to be inspected after installation onboard the ship. Equipment shall comply with LSA Code and IMO Res.MSC.81(70).
- The manufacturing of the lifeboat shall meet the requirements in DNV Standard for Certification of Lifeboats 2007, Ch. 12 and 13 (manufacturer's quality assurance of production).
- The design assessment is based on IMO Res. MSC 48(66) as amended by IMO Res. MSC 207(81), IMO Res. MSC 218(82), IMO Res. MSC 272(85) and IMO Res. MSC 320(89).

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- Production and installation testing shall be carried out according to IMO Res. MSC. 81(70), Part 2 as amended.
- Each lifeboat shall be delivered together with DNV GL Boat certificate.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2017.

This certificate replaces certificate no: LB-440 and LB-441

Basis for approval:

Drawings	Date
Drawings (as applicable) – DNV GL -Technical file 262.1-008631	2004-06-07 2010-10-06 2013-05-08
Reports	Date
Prototype test report witnessed by DNV GL	2003-11-24/25 2010-09-1/2 2013-01-16 (hook replacement)
Fire test report no. 2017-07-M008 iaw IMO MSC./Circ. 1006 from Shanghai R&D Center for Polymer Materials, Shanghai, China	2017-09-29
Laminate strength report no. 2017-07-0660 from Shanghai R&D Center for Polymer Materials, Shanghai, China	2017-09-29
Impact test report	2010-09-10

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) part 1, as amended by IMO Res. MSC.226(82), IMO Res. MSC.274(85), IMO Res. MSC.321(89), IMO Res. MSC.323(89) and IMO MSC./Circ.1006.

Marking of product

The product is to be indelibly marked with name and address of manufacturer, boat model and serial number, month and year of manufacturer, number of persons approved for and operational restrictions, if any, according to LSA code item 4.4.1.2.

List of rescue boat /lifeboat equipment to be posted in the boat.

Periodical assessment

DNV GL'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 DNVGL-CP-0338, Section 4