

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Rigid rescue boats**with type designation(s)
NPT45RB Rescue Boat

Issued to

Jiangyin Neptune Marine Appliance Co., Ltd.
Jiangyin City, /, China

is found to comply with

SOLAS 74 as amended, LSA Code as amended. DNV Standard for Certification of Lifeboats and Rescueboats 2007. IMO Res. MSC 81(70)**Application :****Rigid rescue boat****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2019-07-09**This Certificate is valid until **2024-07-08**.for **DNV GL**DNV GL local station: **Jiangyin**Approval Engineer: **Jasna Jovovic-Lainis**

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: **262.1-010161-3**
Certificate No: **TALB000003A**

Product description

"NPT45RB", a rigid rescue boat with 4 point lifting arrangement.

Length: 4.50 m
Breadth: 2.10 m
Depth: 0.85 m
Weight of boat, fully equipped: 870 kg
Weight of boat, fully manned (82.5 kg/person): 1365 kg

Hook manufacturer and type: Jiangyin Neptune, 4-point lifting sling
Lifting arrangement SWL: 1500 kg

Hull material: GRP

Propulsion system: Inboard engine

Engine manufacturer and type: Zhenjiang Siyang Diesel, 380J-3 (1)
Aabenraa Motorfabrik, BUKH DV24RME (2)
Sabb Motor AS, SABB L3.139LB (3)
Yanmar Diesel Engine Co.Ltd., Yanmar 3JH30A (4)

Bollard pull: 2.9 kN (1)
2.6 kN (2)
2.7 kN (3)
2.8 kN (4)

Material specification:

Material:	Type:	Manufacture:
Polyester resin	FL-918	Jiangsu Fullmark Chemicals Co., Ltd.
Gelcoat	C138	ASHLAND (Changzhou) Advanced Chemical Co., Ltd.
Glass fiber mats	EMC300	Taishan Fiber Glass INC.
Glass fiber woven roving	EWR400, EWR800	Taishan Fiber Glass INC.
Buoyant material	Rigid Polyurthane Foam Plastics	Jiangyin Tongqi Allied Chemical Factory

Application/Limitation

Approved engine power, max: 20.6 kW (1)
17.6 kW (2)
21.6 kW (3)
22.1 kW (4)

Number of persons, max: 6
Maximum load of persons (82.5 kg/person): 495 kg

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 various components transferring the load like wires, shackles, hooks etc. shall comply with international standard or code and shall be delivered with manufacturer's certificates confirming a safety factor of minimum 6 compared to the sustained load.

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) as amended, Part 2.

The manufacturing of the rescue boat shall meet the requirements in DNV Standard for Certification of Lifeboats 2007, Ch.12 and 13 (manufacturer's quality assurance of production).

The rescue boat shall be delivered together with DNV GL boat certificate.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Technical file as per approval letter (344.1-002026-J-17)	
Prototype test report witnessed by DNV	
Test report acc. to Circ.1006 No. 2009-11-M005-1, Shanghai R&D Center, China	
Laminate strength test report No. 2009-09-388, Shanghai R&D Center, China	
Prototype test report wrt IMO Res. MSC.321(89) witnessed by DNV GL	

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 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.