

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Fast rescue boats: rigid

with type designation(s)
NPT60RA/RB

Issued to

Jiangyin Neptune Marine Appliance Co., Ltd.
Jiangyin, Jiangsu, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/1.20b. SOLAS 74 as amended, Regulation III/4, III/26, III/34, LSA Code and
IMO MSC/Circ.1006, 1016 & 1094

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-09-17**.

Issued at **Høvik** on **2019-09-18**

DNV GL local station:
Jiangyin

Approval Engineer:
Jasna Jovovic-Lainis



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-001825-26**
Certificate No: **MEDB00005TG**

Product description

"NPT60RA/RB" is a rigid fast rescue boat equipped with outboard engine, single or twin, or inboard engine w/ waterjet, and with single point lifting hook.

Length: 6.00 m
Breadth: 2.30 m
Depth: 0.87 m

Weight of boat, fully equipped (NPT60RA): 1350 kg
Weight of boat, fully equipped (NPT60RB): 1650 kg
Weight of boat, fully manned, 82.5 kg/person (NPT60RA): 2588 kg
Weight of boat, fully manned, 82.5 kg/person (NPT60RB): 2838 kg

Hook manufacturer and type: Jiangyin Neptune, NPT30HK, off-load
Hook SWL: 3000 kg
Hull material: GRP

Propulsion system: Outboard engine
Engine manufacturer and type: Mercury 60 ⁽¹⁾
Mercury 90 ⁽²⁾
2 x Mercury 60 ⁽³⁾

Propulsion system: Inboard engine w/ waterjet
Engine manufacturer and type: STEYR 144 ⁽⁴⁾
STEYR 236 ⁽⁵⁾
BUKH S250J ⁽⁶⁾

Waterjet types: Alamarin Jet-230 ^(a)
Siyang SYP23 ^(b)

Bollard pull: 4.1 kN ⁽¹⁾
4.3 kN ⁽²⁾
5.0 kN ⁽³⁾
4.1 kN ^(4a)
5.0 kN ^(5a)
6.0 kN ^(6a)
5.2 kN ^(6b)

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, EMC600	Taishan Fiber Glass INC.
Glass fiber woven roving	EWR400, EWR800	Taishan Fiber Glass INC.
Buoyant material	Rigid Polyurethane Foam Plastics	Jiangyin Tongqi Allied Chemical Factory

Application/Limitation

Approved engine power, max: 44.1 kW ⁽¹⁾
66.2 kW ⁽²⁾
2 x 44.1 kW ⁽³⁾
106 kW ⁽⁴⁾
156 kW ⁽⁵⁾
184 kW ⁽⁶⁾

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Number of persons, max: 15
Maximum load of persons (82.5 kg/person): 1238 kg*
* Total weight of boat, fully manned and equipped, may not exceed 2838 kg.

The fast rescue boat equipment and marking/instructions to be inspected after installation on board the ship. Equipment shall comply with LSA Code and IMO Res. MSC.81(70).

The fast rescue boat is fitted with a release hook without on-load release capabilities, in accordance with LSA Code 4.4.7.6.9. Hence, if it is to be combined with launching appliances with permanent high speed tensioning device (LSA Code 6.1.7.3), compatibility must be assured.

The normal equipment of the fast rescue boat to include a hands-free and watertight VHF radio communication set, in addition to the ones required on the bridge.

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).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), part 2 as amended.

Type Examination documentation

Basis for approval:

Prototype test report	2003-05-14
	2010-02-09
	2013-07-10
	2019-07-25
	2010-12-30
Laminate strength test report No. 2010-12-842, Shanghai R&D Center for Polymer Materials, Shanghai, China	
Test report No. 2009-11-M005-1 for fire properties acc. to IMO MSC/Circ.1006, Shanghai R&D Center for Polymer Materials, Shanghai, China	2009-11-15

Drawings list:

Title	Drawing no.	Rev	Date
Drawings and calculations approved by DNV as specified in approval letter			2003-09-09
Drawings approved by DNV as specified in approval letter			2009-03-27
Technical file as per approval letter no. J-17			2010-04-14
Release mechanism arrangement	NTP60RA-17		2013-06-20
Hook seat strength calculation sheet	NTP60RA-07-01		2013-06-20
The list of documents for approval	NPT60RB-01	0	2018-07-27
Operation/maintenance manual	NPT60RB-02	0	2018-07-27
Loose equipment list	NPT60RB-03	0	2018-07-27
Weight, centre of gravity & stability calculation sheet	NPT60RB-04-01	0	2018-07-27
Weight, centre of gravity & stability calculation sheet	NPT60RB-04-02	0	2018-07-27
Weight, centre of gravity & stability calculation sheet	NPT60RB-04-03	0	2018-07-27
Weight, centre of gravity & stability calculation sheet	NPT60RB-04-04	0	2018-07-27

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Internal buoyancy calculation sheet	NPT60RB-05	0	2018-07-27
Scantlings strength calculation sheet	NPT60RB-06	0	2018-07-27
Hook seat strength calculation sheet	NPT60RB-07	0	2018-07-27
Technical term	NPT60RB-08	0	2018-07-27
Hull building technology	NPT60RB-09	0	2018-07-27
Testing program	NPT60RB-10	0	2018-07-27
Hydrostatic curve calculation	NPT60RB-11	0	2018-07-27
Internal buoyancy arrangement	NPT60RB-12	0	2018-07-27
Lines plan	NPT60RB-13	0	2018-07-27
Structural arrangement	NPT60RB-14	0	2018-07-27
General arrangement	NPT60RB-15	0	2018-07-27
Seating plan	NPT60RB-16	0	2018-07-27
Release mechanism arrangement	NPT60RB-17	0	2018-07-27
Painter release	NPT60RB-19	0	2018-07-27
Electrical circuit diagram	NPT60RB-20	0	2018-07-27
Power installation arrangement	NPT60RB-21	0	2018-07-27
Waterjet emergency steering	NPT60RB-21-1		2018-07-27

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) and 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 and the mark of conformity (see page 1).

List of fast rescue boat equipment to be posted in the boat.