

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 Lifeboats: Davit-launched lifeboats: partially enclosed/totally enclosed

with type designation(s)
JY-QFN-7.0

Issued to

Jiangsu Jiaoyan Marine Equipment Co., Ltd.
JIANGYIN, JIANGSU, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

item No. MED/1.17a. 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

item No. MED/1.18. SOLAS 1974 as amended, Reg. III/4, III/21, III/31, III/34 & X/3, LSA Code, 2000 HSC Code 8 and IMO MSC/Circ.1006

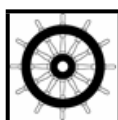
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-08-21.**

Issued at **Høvik** on **2019-08-22**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-001983-39**
Certificate No: **MEDB00005S8**

Product description

"JY-QFN-7.0" is a totally enclosed davit launched lifeboat; fire-protected and with a self-contained air support system. The lifeboat is also approved for use as a rescue boat.

Material	Type	Manufacturer
Polyester resin	TM-107M	Changzhou huari New Material Co., Ltd.
Gelcoat	C138	Ashland (Changzhou) Advanced Chemical Co., Ltd.
Glass fiber mats	EMC300	Changzhou Tianma Group Co., Ltd.
Glass fiber woven roving	EW400, EW600, EW800	Changzhou Tianma Group Co., Ltd.

Length: 7.00 m
Breadth: 2.70 m
Depth: 1.10 m
Weight of boat, fully equipped: 3624 kg
Weight of boat, fully manned (82.5 kg/person): 7584 kg

Hook manufacturer/type: Jiangsu Jiaoyan Marine Equipment Co., Ltd.
JXN-1, on-load
Hook SWL: 4000 kg

Hull material: FRP

Propulsion system: Inboard engine
Engine manufacturer/type: Aabenraa Motorfabrik, DV29RME ⁽¹⁾
Zhenjiang Siyang, 380 J-3 ⁽²⁾
Yanmar, 3JH30A ⁽³⁾
Bollard pull: 2.9 kN

Application/Limitation

Approved engine power: 21.3 kW ⁽¹⁾
20.6 kW ⁽²⁾
22.1 kW ⁽³⁾

Maximum number of persons, lifeboat/rescue boat: 48/6
Maximum load of persons (82.5 kg/person), lifeboat/rescue boat: 3960/495 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 design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82) and 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	2013-01-30
	2010-06-18
Laminate strength test report No. 2017-09-0851	2017-09-29
Test report No. 2017-09-M013 for fire properties acc. to IMO MSC/Circ.1006, Shanghai R&D Center for Polymer Materials, Shanghai, China	2017-10-19

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Drawings list:

Title	Drawing no.	Rev	Date
Structure Plan, page 1-5	JCS922-04		2001-08-07
Strength calculations	JCS901-101JS		2001-08-07
Calculation sheet for the lifeboat's capacity and internal buoyancy appliance	JCS922-134BJS		2001-08-07
Lay-up plan	JCS922-20A	B	2001-08-07
Oil tank	271SC508-18-2-0		2001-08-07
Electrical diagram	JCS901-216485		2001-08-07
Specifications	JCS922-01SP (B)		2002-10-07
Calculation sheet for weight etc.	JCS922-09BJS		2002-10-07
Calculation sheets for stability	JCS922-10BJS		2002-10-07
Calculation of capacity for spray pump	JCS922-22JS		2002-10-07
Air cylinders capacity calculation	271SC508-21	A JS	2002-10-07
Sprinkler system plan	JCS922-22		2002-10-07
Self-contained air support system arrangement plan	271SC508-21	A	2002-10-07
General Arrangement Plan JY-QFN-7.0	JCS922-02B	B	2009-11-20
Arrangement of release device JY-QFP/QFN-7.0	JCS922-02-102		2009-11-20 2009-05-30
Arrangement of operating instructions and danger sign	JCS922-02-103		2009-12-31
Detail of release hook JXN-1	JXN10-07-001		2012-06-01
For lifting seat JY-QFN/QFP-7.0	JYX700-07-002-1		2012-07-16
The connection of hook and lifeboat JY-QFP/QFN-7.0	JCS922-02-101		2013-01-20
Operation and maintenance manual	JCS922-41		2013-01-16
The calculation of hook	JYX700-07-003-1JS		2013-01-10

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 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 bear the MED mark of conformity (see page 1)

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