

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-12.5

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

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-004255-3**
Certificate No: **MEDB00005SA**

Product description

"JY-QFN-12.5" is a totally enclosed davit launched lifeboat; fire-protected and with a self-contained air support system.

Material	Type	Manufacturer
Polyester resin	FL-918M	Jiangsu Fullmark Chemicals 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: 12.50 m
Breadth: 3.90 m
Depth: 1.25 m
Weight of boat, fully equipped: 9680 kg
Weight of boat, fully manned (82.5/98 kg/person): 22055/22420 kg

Hook manufacturer/type: Jiangsu Jiaoyan Marine Equipment Co., Ltd
JXN-1D, on-load
Hook SWL: 12000 kg

Hull material: FRP

Propulsion system: Inboard engine
Engine manufacturer/type: Aabenraa Motorfabrik Heinrich Callesen A/S ⁽¹⁾
BUKH DV48RME
Zhenjiang Siyang Diesel Engine Manufacturing Co., Ltd ⁽²⁾
N485J-3
Bollard pull: 4.1 kN ⁽¹⁾
4.4 kN ⁽²⁾

Application/Limitation

Approved engine power: 35.3 kW ⁽¹⁾
30 kW ⁽²⁾

Maximum number of persons (82.5 kg/person): 150
Maximum number of persons (98 kg/person): 130
Maximum load of persons (82.5 kg/person): 12375 kg
Maximum load of persons (98 kg/person): 12740 kg

- Lifeboat 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), 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 witnessed by DNV GL surveyor	2014-09-19
Declaration of Asbestos free by manufacturer	2014-01-03
Test report No. 2013-05-850-1 for FRP fire properties acc. to IMO	2013-05-12

MSC/Circ.1006, Shanghai R&D Center for Polymer Materials,
Shanghai, China
Laminate strength test report (No. (2014)QSWJ2669)

2014-11-07

Drawings list:

Title	Drawing no.	Date
Strength Calculation Sheet	JCS125-05JS	2013-12-20
Calculation for Volume Air Cases	JCS125-08JS	2013-12-20
Calculation of Hook Connected to Hull	JYX125-07-005-1JS	2013-12-20
Calculation of Lifting Seat	JYX125-07-005-2JS	2013-12-20
Calculations on ventilation	JCS125-11JS	2013-10-08
General arrangement	JCS125-02B	2013-12-27
	JCS125-19	2013-12-27
Seating Arrangement	JCS125-19-1	2013-12-27
Structural arrangement	JCS125-20	2013-12-27
	JYX125-07-002-1	2013-12-27
For. And Aft. Lifting Seat	JYX125-07-002-2	2013-12-27
Arrangement of Release Device	JCS125-16	2013-12-27
Arrangement of Air Cases	JCS125-31	2013-12-27
Electrical diagram	JCS125-14	2013-12-27
Arrangement of Steering System	JCS125-15	2013-12-27
Engine, Shaft, Propeller Arrangement	JCS125-18	2013-12-27
Spray Water System	JCS125-22	2013-12-27
Self-contained Air Support System	JCS125-21	2013-12-27
Details for Door and Cover	JCS125-28	2013-12-27
	JCS125-13-01	2013-12-27
The down Pin Shaft of fore and aft. Lifting	JYX125-07-002-3	2013-12-27
Bracket/Pin Shaft of fore and aft. Lifting Seat	JYX125-07-002-4	2013-12-27
Bilge System Arrangement	JCS125-12	2013-12-27
Fuel system arrangement	JCS125-30	2013-12-27
Handrail arrangement	JCS125-32	2013-12-27
Ventilator Arrangement	JCS125-34	2013-12-27
Marking arrangement	JCS125-35	2013-12-27
Reflective Tape Plan	JCS125-36	2013-12-27
Lifeline arrangement	JCS125-37	2013-12-27
Arrangement of Fuel Tank	JCS125-38	2013-12-27
Steering console arrangement	JCS125-40	2013-12-27
Exhaust Pipe arrangement	JCS125-43	2013-12-27
Fixed and loose equipment	JCS125-17-1	2013-12-27
Lamination Plan	JCS125-20-1	2014-04-30
Engine Casing	JCS125-50	2014-08-18
Operation and Maintenance Manual	JCS125-100-01M	2013-12-20

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, and bear the MED mark of conformity (see page 1)

List of lifeboat equipment to be posted in the boat.