

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: Free-fall lifeboats

with type designation(s)
JY-FF/FN-6.8

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/1.17b. 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

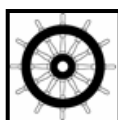
Further details of the equipment and conditions for certification are given overleaf.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

The lifeboat comes in two versions:

- JY-FN-6.8 - totally enclosed free-fall lifeboat
- JY-FF-6.8 - totally enclosed free-fall lifeboat; fire-protected version with self-contained air support system and sprinkler system

Material	Type	Manufacturer
Polyester resin	TM-107M	Changzhou Huari New Material Co., Ltd.
Gelcoat	C138	Ashland Polyester (Kunshan) Co., Ltd.
Glass fiber mats	EMC300	Changzhou Tianma Group Co., Ltd.
Glass fiber woven roving	EWR600, EWR800	Jaingyin City Xinyuan Weaving Co., Ltd.

Length: 6.80 m
Breadth: 2.70 m
Depth: 1.20 m
Weight of boat, fully equipped: 3882 kg
Weight of boat, fully equipped – fire-protected version: 4182 kg
Weight of boat, fully manned (82.5 kg/person): 6439.5 kg
Weight of boat, fully manned (82.5 kg/person) – fire-protected version: 6739.5 kg

Hook manufacturer/type: Jiangsu Jiaoyan Marine Equipment Co., Ltd, JX-2, on-load
Hook SWL: 55 kN

Hull material: FRP

Propulsion system: Inboard engine
Engine manufacturer/ type: Aabenraa Motorfabrik, DV29RME ⁽¹⁾
Zhenjiang Siyang Diesel Engine Manufacturing Co., Ltd, 380J-3 ⁽²⁾
Yanmar Co. Ltd, 3JH30A ⁽³⁾

Bollard pull: 2.8 kN

Application/Limitation

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

Maximum number of persons: 31
Maximum load of persons (82.5 kg/person): 2557.5 kg

Maximum free-fall certification height: 22 m
Minimum launching ramp length: 7.5 m
Launching ramp angle: 30 °

- Unless free-fall lifeboat lashing can be released from inside it shall be arranged to preclude boarding until it is removed.
- For free-fall lifeboats inflatable lifejackets are recommended.
- 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) and IMO Res. MSC.272(85).

Job Id: **344.1-002739-8**
Certificate No: **MEDB00005VC**

- 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:

Test reports (prototype, surveyor's checklist, etc.)	2010-05-16 2010-04-29 & 30 2013-04-28
Test report No. 2010-05-M012-1 for FRP fire properties acc. to IMO MSC/Circ.1006, Shanghai R&D Center for Polymer Materials, Shanghai, China	2010-05-21
Laminate strength test report No. 2010-05-259, Shanghai R&D Center for Polymer Materials, Shanghai, China	2010-05-25
Scaled model test report No. 210Z-C129, Testing and Calibration Laboratory of Vibration and Noise, Shanghai, China	2010-12-28

Drawings list:

Title	Drawing no.	Rev	Date
General arrangement	F68B-100-02		2009-05-26
Section arrangement and seating plan	F68B-100-02		2009-05-26
Seat Structure	ESCO75-230-12		2009-05-26
Sprinkler system plan	ESCO75B-230-07		2009-05-26
Structural plan	ESCO75-110-02a		2009-05-26
Detail of piping in the lifeboat	JYX64-09-001		2009-05-26
Lifting device arrangement	ESCO75-210-01a-1		2009-05-26
Aft section arrangement	F68A-100-02-1A	B	2009-05-26
Electrical diagram	Page 16		2009-05-26
Equipment list	F68-210-13		2009-05-26
Arrangement of steering system	JYX10-10-001		2009-05-26
Air case arrangement	ESCO75-100-10		2009-05-26
Drawings, as applicable (ref. DNVGL technical file 262.1-001217)			2010-08-11 2013-06-19

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.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.