



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED037121WS/004

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2020/1170.

MED Item N°

MED/1.4

Description

Life jackets

Type

FZSZ-I, FZSZ-II

Applicant

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

BUILDING.41,NO.1-42, LANE 83
NORTH HONGXIANG ROAD, WANXIANG TOWN
PUDONG NEW AREA, SHANGHAI, CHINA

Testing standards

IMO Res.MSC.81(70), as amended

Reference standards

SOLAS 74 Reg.III/7, SOLAS 74 Reg.III/22, SOLAS 74 Reg.III/34, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) II, IMO Res.MSC.97(73)-(2000 HSC Code) 8, IMO MSC.1/Circ.1470.

Issued in SHANGHAI on
February 3, 2021

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This Certificate is valid until
February 2, 2026

This Certificate consists of this sheet plus an attachment

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RINA Services S.p.A.



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Manufacturer

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

Place of Manufacturer

BUILDING.41
NO.1-42
LANE 83
NORTH HONGXIANG ROAD
WANXIANG TOWN
PUDONG NEW AREA
SHANGHAI
CHINA

Name & place of Authorised Representative

ANTONIO TRANI (FTTM SRL)
VIA DOMENICO CIMAROSA NO.37, NAPOLI, ITALY
ITALY

Main Characteristics

The Inflatable lifejackets (Type: FZSZ-I, FZSZ-II) are designed for adult with the following characteristics:

- Minimum Buoyancy: 150N (Type: FZSZ-I), 275N (Type: FZSZ-II), buoyance lost after 24 hours : ≤5%;
- Number of Inflatable Chambers: 2;
- Time of inflation in shape: ≤5s;
- With the following main components:

Components	Type	Manufacturer
Inflatable Chamber Material	TPU (Nylon Composite Material)	Wuxi Mingwei Textiles Co.,Ltd
Lifejacket Cover Fabric	Tarps (TPU)	Wuxi Mingwei Textiles Co.,Ltd
	Automatic / Manual Inflation	Shanghai Fangzhan Fire Technology Co., Ltd
	Oral Inflation	Shanghai Fangzhan Fire Technology Co., Ltd
Inflation system	CO2 Gas Cylinder 33g (FZSZ-I), 60g (FZSZ-II)	Shanghai Banner Machinery & Electric Equipment Co.,Ltd
Airbag Fixed Buckle	Polypropylene Webbing	Shanghai Fangzhan Fire Technology Co., Ltd
Belt	Polypropylene Webbing H001	Dongtai City Dongyue Life-saving Equipment Fitting Factory
Lifejacket Light	FZYD-III	Shanghai Fangzhan Fire Technology Co., Ltd
Whistle	PVC Material	Shanghai Fangzhan Fire Technology Co., Ltd
Retro-reflective Tape Material	Scotchlite 3150-A	3M Personal Safety Division

Application/Limitation of Use

The lifejacket is approved for use only by adult of weight more than 43 Kg and height more than 155 cm.

To fit person weighing up to 140 kg and with a chest girth of up to 1750 mm, suitable accessories shall be provided.

The lifejacket can be equipped with different position indicating lights and Retro-Reflective materials EC type Approved in compliance with Directive 2014/90/EU as amended.

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000



Signature



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Continued:

Design Assessment

The design assessment is based on IMO Res.MSC.48(66)-(LSA Code) as amended by IMO Res.MSC.207(81), IMO Res.MSC.218(82) and IMO Res. MSC.368(93).

Tests carried out in accordance with revised recommendation on testing of lifesaving appliance, IMO Res.MSC.81(70), Part 1, including IMO Res.MSC.200(80), IMO Res.MSC.226(82), IMO Res.MSC.323(89), IMO Res. MSC.378(93).

Production tests shall be carried out in accordance with IMO Res. MSC.81(70), Part 2 as amended.

Reference Documents

- Certificate of Conformity (CO2 Minitype Steel Bottle, 60g) (Ref No.: 2008-C272), filled with RINA No.: SHFP-8830;
- Retro-Reflective Material Certificate (Ref No.: MED 1350104), filled with RINA No.: SHFP-8831;

FZSZ-I:

- Technical Specification, approved with RINA No.: SHFP-8824;
- Technical Drawing of Inflatable Lifejacket, approved with RINA No.: SHFP-8825 & SHFP-13873;
- Label, approved with RINA No.: SHFP-8826;
- RTD Buoyancy Data Sheet, filled with RINA No.: SHFP-8827;
- Operation and Maintenance Manual, filled with RINA No.: SHFP-8828;

FZSZ-II:

- Technical Drawing of Inflatable Lifejacket, approved with RINA No.: SHFP-9403 & SHFP-13875;
- Technical Specification, approved with RINA No.: SHFP-9404;
- RTD Buoyancy Data Sheet, filled with RINA No.: SHFP-9406;
- Inflatable Lifejacket Operation and Maintenance Manual, filled with RINA No.: SHFP-9408;
- Inflatable Lifejacket Schematic, filed with RINA No.: SHFP-9409.

Tests Carried Out

Tests carried out in accordance with Revised Recommendation on Testing of Life-Saving Appliances, IMO Res. MSC.81(70), Part 1, including IMO Res. MSC.200(80), IMO Res. MSC.226(82), IMO Res. MSC.323(89) and IMO Res. MSC.378(93) as below:

- Inflatable Lifejacket Evaluation and Test Report (Coated Fabric Test) (Ref No.: 2015140), filled with RINA No.: SHFP-8832;
- Inflatable Lifejacket Evaluation and Test Report (Ref No.: 2015139), filled with RINA No.: SHFP-8833 (Type: FZSZ-I);
- Inflatable Lifejacket Evaluation and Test Report (Ref No.: 2015216), filled with RINA No.: SHFP-9407 (Type: FZSZ-II);
- Evaluation and Test Report (Supplement), filed with RINA No.: SHFP-13872 (Type: FZSZ-I);
- Evaluation and Test Report (Supplement), filed with RINA No.: SHFP-13874 (Type: FZSZ-II).

Marking of Product

The product is to be indelibly marked with name of manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.

Notes

Please be informed that our issue is based on our previously approved drawings of Inflatable lifejacket for adult, refer to Module B Certificate MED116119WS/002.
- All the materials (i.e., Chamber Material, Cover Fabric, Inflation system, Light, whistle, buckle, etc) is conformity with the original, and the out garment is kept same as original.

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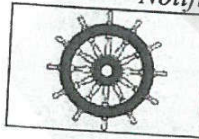


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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX

Notified Body number undertaking surveillance module

YYYY

The year in which the mark is affixed

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained.
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

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