



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED154923WS

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) 2022/1157.

MED Item N°

MED/1.4

Description

Life jackets

Type

FZSZ-III, FZSZ-IV

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. IMO MSC.1/Circ.1628.

Issued in **SHANGHAI** *on*
May 18, 2023

This Certificate is valid until
May 17, 2028

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

Main Characteristics

The Inflatable lifejackets (Type: FZSZ-III & FZSZ-IV) are designed for adult with the following characteristics:

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

Components	Type	Manufacturer
Lifejacket Cover Fabric	PVC	Dongtai Gangyuan Trading Co., Ltd., or Suzhou Mingwei Water Life Saving Equipment Co., Ltd.
Inflatable Chamber Material	TPU	Zhejiang Kangjia Plastic Products Co., Ltd.
Inflation system	Automatic / Manual Inflation System	Shanghai Fangzhan Fire Technology Co., Ltd.
	Oral Inflation Assembly	Shanghai Fangzhan Fire Technology Co., Ltd.
CO2 Gas Cylinder	33g (FZSZ-III), 60g (FZSZ-IV)	Zhongshan Jinbang Metal Technology Co., Ltd., or Nantong Shangcheng Metal Technology Co., Ltd.
Lifejacket Light	FZYD-II / FZYD-III / FZYD-V	Shanghai Fangzhan Fire Technology Co., Ltd.
Whistle	ABS	Yuyao Songge Plastic Industry Co., Ltd., or Zhejiang Jialian Precision Hardware Accessories Co., Ltd
Retro-reflective Tape Material	5 cm	Zhejiang Longyou Daoming Optics & Chemical Co., Ltd., or Zhejiang YGM Technology Co., Ltd., or Yeshili New Materials (Xianju) Co., Ltd.



Signature



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Application/Limitation of Use

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

The lifejackets were designed to fit person weighing up to 140 kg and with a chest girth of up to 1750 mm.

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

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), etc..

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), etc..

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

Reference Documents

FZSZ-III:

- Technical Drawing of Inflatable Lifejacket, approved with RINA No.: SHFP-23451;
- Operation and Maintenance Manual, filled with RINA No.: SHFP-23452;
- Material List, approved with RINA No.: SHFP-23453;
- Main Technical Parameters, approved with RINA No.: SHFP-23454;
- Trademark, approved with RINA No.: SHFP-23455.

FZSZ-IV:

- Technical Drawing of Inflatable Lifejacket, approved with RINA No.: SHFP-23456;
- Operation and Maintenance Manual, filled with RINA No.: SHFP-23457;
- Material List, approved with RINA No.: SHFP-23458;
- Main Technical Parameters, approved with RINA No.: SHFP-23459;
- Trademark, approved with RINA No.: SHFP-23460.

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:

- Evaluation and Test Report (Ref No.: 2022280) for Inflatable Lifejacket (Type: FZSZ-III) carried out by Wuhan Testing Center of Marine Life-saving Appliances dated on Jan.04.2023~Mar.20.2023, and filled with RINA No.: SHFP-23471;
- Evaluation and Test Report (Ref No.: 2022281) for Inflatable Lifejacket (Type: FZSZ-IV) carried out by Wuhan Testing Center of Marine Life-saving Appliances dated on Jan.04.2023~Mar.20.2023, and filled with RINA No.: SHFP-23472;
- RTD Test Report on Serial Number SN37 for Inflatable Lifejackets carried out by Wuhan Testing Center of Marine Life-saving Appliances dated on Mar.14.2023, and filled with RINA No.: SHFP-23476.



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Test Reports for Inflatable Lifejackets materials and components:

- Test report (Ref. No.: 2021242) for Hardware, filled with RINA No. SHFP-23464;
- Test report (Ref. No.: 2022066) for Structure Webbing Lifting Loop, filled with RINA No. SHFP-23467;
- Test report (Ref. No.: 2022064) for Protective Cover, filled with RINA No. SHFP-23468;
- Test report (Ref. No.: 2022067) for Sewing Thread, filled with RINA No. SHFP-23469;
- Test report (Ref. No.: 2022065) for Structural Webbing, filled with RINA No. SHFP-23470.

Certificate of Conformity for CO2 Gas Cylinders:

- Certificate of Conformity for CO2 Gas Cylinders (33g/60g) (Ref No.: BAC230190136S), filled with RINA No.: SHFP-23473;
- Certificate of Conformity for CO2 Gas Cylinders (33g/60g) (Ref No.: SCC(18)-5093A), filled with RINA No.: SHFP-23475.

Marking of Product

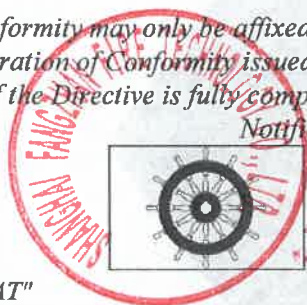
The product is to be indelibly marked with name of manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res. MSC.48(66)), item 1.2.2.9.





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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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PRODUCTION QUALITY ASSURANCE (MODULE D)
CERTIFICATE No. MED123023WS/002

This is to certify that RINA Services S.p.A. did undertake the relevant quality assessment procedures for the equipment of the manufacturer 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 (EU) 2022/1157 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.

MED Item N°
Description
Type
Applicant

MED/1.4

Life jackets

FZSZ-III, FZSZ-IV

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

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

Module B certificate

Number

MED154923WS

Date

05/18/2023

Notified Body

RINA (No. 0474)

Issued in RINA China Marine
on
May 21, 2023

This Certificate is valid until
March 24, 2026

This Certificate consists of this sheet plus an attachment

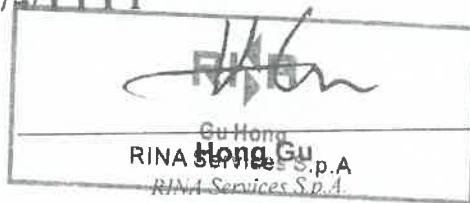
This certificate authorises the Manufacturer or his authorised representative established within the Community in conjunction with the EC TYPE EXAMINATION (MODULE B) CERTIFICATE to affix the following symbol on the equipment above identified.



0474/YYYY

YYYY

The year in which the mark is affixed





ATTACHMENT TO
CERTIFICATE No. MED123023WS/002

Equipment:

FZSZ-III, FZSZ-IV

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

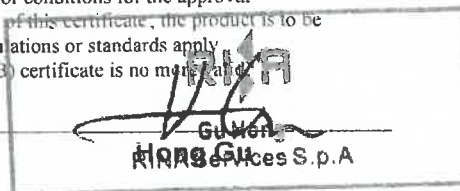
MR. ANTONIO TRANI (Company: FTTM SRL)
VIA DOMENICO CIMAROSA NO.37, NAPOLI
ITALY

Technical documentation

INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS			
Due Date	Carried out on	Surveyor's signature	Surveyor's stamp
03/24/2024	03/12/2024		
03/24/2025			

General conditions for the approval

- The initial conditions verified by RINA at the time of the approval are to be maintained
- Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- RINA personnel are to be allowed to witness during the performances of activities, upon their request
- The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- RINA may revoke the approval in the case of modifications to requirements or conditions for the approval
- 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
- This certificate loses its validity in case the EC type Examination (Module B) certificate is no more valid



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