



## EC TYPE EXAMINATION (MODULE B)

CERTIFICATE Nr. MED018016WS/014

***This is to certify,*** that RINA, specified as Notified Body N° 0474 by the Italian "Ministero delle Infrastrutture e dei Trasporti Direzione Generale per la navigazione ed il Trasporto Marittimo ed Interno" on 25 November 1998, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Life-Save Appliances requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Directive (EU) 2015/559

MED Item N°

A.1/1.4

Description

Life jackets

Type

FZSZ-II

Applicant

**SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.**

NO. 288 JIANZHONG ROAD, LAOQANG TOWN, PUDONG NEW AREA  
SHANGHAI  
CHINA

Testing standards

IMO Res. MSC 81(70) as amended

Reference standards

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

Issued at SHANGHAI on  
July 6, 2016

This Certificate is valid until  
February 2, 2021

*This Certificate consists of this sheet plus an attachment*



**Giuseppe Zagaria**

RINA Services S.p.A.



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*Manufacturer*

**SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.**

*Place of Manufacturer*

NO. 288 JIANZHONG ROAD  
LAOGANG TOWN  
PUDONG NEW AREA SHANGHAI  
CHINA

**Main Characteristics**

Inflatable life jacket for adult (Type: FZSZ-II):

- Minimum Buoyancy: 275N;
- Number of Inflatable Chambers: 2;
- 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
Inflation System	Automatic / Manual Inflation: FZSZ-11-09 / FZSZ-11-07	Shanghai Fangzhan Fire Technology Co., Ltd
	Oral Inflation: FZSZ-11-05	Shanghai Fangzhan Fire Technology Co., Ltd
	CO2 Gas Cylinder 60g	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





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### Application/Limitation of Use

The life jacket 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 life jacket can be equipped with different position indicating lights and Retro-Reflective materials EC type approved in compliance with Directive 96/98/EC as amended.

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.368(93).

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

### Reference Documents

- Technical Drawing of Inflatable Lifejacket, approved with RINA No.: SHFP-9403;
- 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, filled 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 Life jacket Evaluation and Test Report (Coated Fabric Test) (Ref No.: 2015140), filled with RINA No.: SHFP-9405;
- Inflatable Life jacket Evaluation and Test Report (Ref No.: 2015216), filled with RINA No.: SHFP-9407.

### 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 B of the Directive is fully complied with a written inspection agreement with a Notified Body*



**XXXX/YY**

**"WHEELMARK FORMAT"**

XXXX      *Notified Body number undertaking surveillance module*  
YY        *Last two digits of year mark 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 reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.



**Giuseppe Zagaria**