



**EC TYPE EXAMINATION (MODULE B)  
CERTIFICATE No. MED508123WS/003**

***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 Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2023/1667.

<i>MED Item N°</i>	<b>MED/3.44</b>
<i>Description</i>	<b>Fire-fighters outfit - lifeline</b>
<i>Type</i>	<b>FZNHS</b>
<i>Applicant</i>	<b>SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.</b> BUILDING.41,NO.1-42, LANE 83 NORTH HONGXIANG ROAD, WANXIANG TOWN PUDONG NEW AREA, SHANGHAI, CHINA
<i>Testing standards</i>	<b>IMO Res.MSC.98(73)-(FSS Code) 3,as amended, IMO Res.MSC.307(88)-(2010 FTP Code),as amended, ISO 23269-2:2011.</b>
<i>Reference standards</i>	<b>SOLAS 74 Reg. II-2/10, IMO Res.MSC.36(63)-(1994 HSC Code) 7, IMO Res.MSC.97(73)-(2000 HSC Code) 7, IMO Res.MSC.98(73)-(FSS Code) 3.</b>

*Issued in* SHANGHAI *on*  
December 19, 2023

*This Certificate is valid until*  
December 18, 2028

*This Certificate consists of this sheet plus an attachment*



**Hai Wen Zhang**

**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 (SSI SRL)  
Via Ponte dei Francesi 43 - 80146 Napoli, Vat 10227171211, ITALY  
ITALY

**Product Description**

The Fire-fighters outfit - lifeline (Type: FZNHS), shall be capable of being attached by means of a snap-hook to the harness of the apparatus or to a separate belt in order to prevent the breathing apparatus becoming detached when the lifeline is operated.

*Design:*

- Lifeline consists of steel wire (6 x 19, core 4.2 ~ 5 mm), of minimum 30 meters in length.
- Minimum nominal breaking load of at least 10 KN.
- Withstand a static proof load of at least 3.5 KN for 5 min without failure.
- It is ended by snap-hook at each side.

*Material Specification:*

- Wire: 304 Stainless Steel;
- Hear Wire Harness: 1Cr18Ni9Ti;
- Snap-hook: 1Cr18Ni9Ti.

**Reference Documents**

- Bill of Material issued by Shanghai Fangzhan Fire Technology Co., Ltd and filed by RINA with No.: SHFP-25416;
- Technical Drawing issued by Shanghai Fangzhan Fire Technology Co., Ltd and approved by RINA with No.: SHFP-25417;
- Marking issued by Shanghai Fangzhan Fire Technology Co., Ltd and filed by RINA with No.: SHFP-25418;
- The Main Technical Parameters issued by Shanghai Fangzhan Fire Technology Co., Ltd and filed by RINA with No.: SHFP-25422;
- User's Guide issued by Shanghai Fangzhan Fire Technology Co., Ltd and filed by RINA with No.: SHFP-25423.

**Tests Carried Out**

The required static load test of 3.5 KN for 5 min as per IMO Resolution MSC.98(73) Chapter 3.2.1.3 (FSS Code) was carried out under the supervision of RINA, the report is filed by RINA with No.: SHFP-9210.

Additional Test as per ISO 23269-2:2011§ 4.28 was carried out under the supervision of RINA, the Test Report was filed by RINA with No.: SHFP-25424.

*Note: Material of fireman safety line (304 stainless steel) is considered as non-combustible as specified in IMO Res. MSC.61(67)-FTP Code, Annex 2, Part 1.*





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**Field of Application / Limitation**

Approved for use as fireproof lifelines for firefighter's outfit, for breathing apparatus approved under item MED/3.7 and item MED/7.1.

Each lifeline is to be supplied with its instructions for use, inspection and on-board maintenance complying with Regulations stated on the front page of this certificate. These instructions are to be kept on board.

**Note**

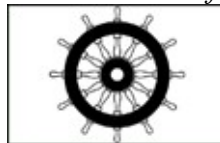
Reissue Previous EC Type Examination (Module B) Certificate No.: MED037121WS/002 due to ISO 23269-2:2011 is adopted.





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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*

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***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 not 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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**Hai Wen Zhang**  
**RINA Services S.p.A.**