



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED035124WS/001**

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.

MED Item N°

MED/3.3a

Description

Fire-fighter's outfit: protective clothing (close proximity clothing): (a) Protective non reflective clothing for fire fighting ZFMH-FZ

Type

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

EN 469:2020

Reference standards

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.

*Issued in SHANGHAI on
April 10, 2024*

*This Certificate is valid until
April 9, 2029*

This Certificate consists of this sheet plus an attachment



Qiang Sun

RINA Services S.p.A.



ATTACHMENT TO
CERTIFICATE No. MED035124WS/001
Page 1 of 3

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-fighter's outfit: Protective Clothing (close proximity clothing) - protective non reflective clothing for firefighting (Type: ZFMH-FZ), comprising jacket and trousers made of aramid fiber in 4 layers.

The fire-fighters outfits were produced in following characteristics:

- in the styles without or with a backpack (protect the air bottle worn on the back of the fire man);
- in 6 different sizes suitable for wearers height range: 165cm ~190 cm;
- in 3 different colours (navy blue, orange and yellow).

Main Characteristics

Fabric Assembly:

- Outer: Aramid check reinforced fabric (195±10g/m2);
- Waterproof breathable layer: Aramid non-woven fabric + flame retardant PTFE membrane(160±8g/m2);
- Insulation: Aramid non-woven fabric(70±4g/m2);
- Comfort Layer: Aramid viscose flame retardant fabric(120±6g/m2).

Levels of Performance achieved: Level 2 (X2, Y2, Z2)

- Heat transfer- Flame: LEVEL Xf2;
- Heat transfer- Radiation: LEVEL Xr2;
- Resistance to water penetration (Moisture Barrier): LEVEL Y2;
- Resistance to water penetration (Seamed Specimen): LEVEL Y2;
- Water Vapour Resistance: LEVEL Z2.

Field of Application / Limitation

Approved for use as protective clothing for firefighters.

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





**ATTACHMENT TO
CERTIFICATE No. MED035124WS/001
Page 2 of 3**

Reference Documents

Technical documents and manuals prepared by SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD. as following:

- Technical Drawing for Fire Fighter's Outfit with backpack, and approved by RINA with No. SHFP-26530;
- Technical Drawing for Fire Fighter's Outfit without backpack, and approved by RINA with No. SHFP-26531;
- Labeling, and approved by RINA with No. SHFP-26533;
- Main Technical Parameters, and approved by RINA with No. SHFP-26535;
- Bill of Material, and approved by RINA with No. SHFP-26571;
- Instruction Manual, field by RINA with No. SHFP-26532.

Test Carried Out

Test reports according to EN469:2020 for Fire Fighter's Outfit issued by SGS-CSTC Standard Technical Service (Shanghai) Co., Ltd. as following:

- with backpack:
 - Performance report (Ref. No.: SL52405285966901TX) on Apr.02.2024, filed by RINA with No. SHFP-26584;
 - Design report (Ref. No.: S52325345297901TX) on Jan.10.2024, and filed by RINA with No. SHFP-26585.
- without backpack:
 - Performance report (Ref. No.: SL52405285965101TX) on Apr.02.2024, filed by RINA with No. SHFP-26586;
 - Design report (Ref. No.: S52405250158301TX) on Jan.10.2024, filed by RINA with No. SHFP-26587.

Marking of the Product

The product is to be marked according to par. 7 of ISO 13688:2013 & par. 8 of EN 469:2020, and with name & address of manufacturer, type designation, and the MED Mark of Conformity.

Notes

Wheel marked Helmet/Hood with visor, gloves and boots are to be provided to compliment the outfit.

Each product is to be supplied with its manual for use and maintenance.

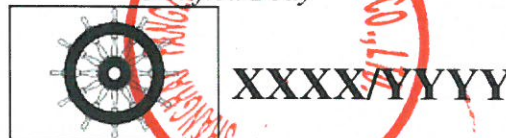
Storage, handling, cleaning, use and restrictions for use to be in accordance with the manufacturer's instructions.





**ATTACHMENT TO
CERTIFICATE No. MED035124WS/001
Page 3 of 3**

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



"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 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 reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.



Qiang Sun

RINA Services S.p.A.



**PRODUCTION QUALITY ASSURANCE (MODULE D)
CERTIFICATE No. MED485323WS/006**

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 Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2023/1667 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.

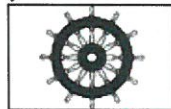
MED Item N°	MED/3.3a
Description	Fire-fighter's outfit: protective clothing (close proximity clothing): (a) Protective non reflective clothing for fire-fighting
Type	ZFMH-FZ
Applicant	SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD. BUILDING.41,NO.1-42,LANE 83 NORTH HONGXIANG ROAD, WANXIANG TOWN PUDONG NEW AREA, SHANGHAI, CHINA
Module B certificate	Number MED035124WS/001 Date 04/10/2024 Notified Body RINA (No. 0474)

Issued in RINA China Marine
on
April 12, 2024

This Certificate is valid until
March 24, 2027

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*



Hong Gu

RINA Services S.p.A.



ATTACHMENT TO
CERTIFICATE No. MED485323WS/006

Equipment:
ZFMH-FZ

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

Technical documentation

INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS			
Due Date	Carried out on	Surveyor's signature	Surveyor's stamp
03/24/2025			
03/24/2026			

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.

Hong Gu

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



RINA Services S.p.A.

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