EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED037121WS/005

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) 2020/1170.*

MED Item N°	**MED/3.41**
Description	**Emergency Escape Breathing Devices (EEBD)**
Type	**TH/15-1**
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	**ISO 23269-1 (2008); EN 1146 (2005)**
Reference standards	**SOLAS 74 Reg.II-2/13, IMO Res.MSC.98(73)-(FSS Code) 3, IMO MSC/Circ.849.**

Issued in *SHANGHAI* *on* February 3, 2021

This Certificate is valid until February 2, 2026

This Certificate consists of this sheet plus an attachment

Qiang Sun
RINA Services S.p.A.

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

ATTACHMENT TO CERTIFICATE No. MED037121WS/005

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

Product Description

The type TH/15-1 Emergency Escape Breathing Device (open-circuit compressed air breathing apparatus with a hood for escape) is designedwith the following main characteristics and main components:

Main Characteristics:

Model	Maximum Working pressure	Volume	Air Deposit	Service time	Weight	Packing size
TH/15-1	21 Mpa	3 L	630 L	≥15 min (35 L/min)	≤ 7.5 kg	350 x 600 mm

Main Components:

Components	Model	Manufactory
Pressure Cylinder	Seamless Steal Cylinder 3L	Sinoma Science & Technology (Jiu Jiang) Co., Ltd, or Nanjing Banqiao Fire-Fighting Equipment Co.,Ltd, or Zhejiang Kaibo Pressure Vessel Co., Ltd.
Pressure Gauge	-	Yangzhou new special instrument factory
Medium pressure pipe	-	Taizhou Kingston Valve Co., Ltd.
Air Cylinder Valve	TH/15-03-03	Zhejiang Chunlei Machinery Manufactory Co.,Ltd
Face mask	---	Shanghai Fangzhan Fire Technology Co.,Ltd

Field of Application

Emergency escape breathing devices to be use only for escape according to Reg.II-2/13.3.4 of SOLAS '74 as amended and designed according to Ch.3, Para.2.2 of FSS Code.

Tests Carried Out

Test Report No. 2015145 issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances and filed by RINA with No. SHFP-8829.

Test Report (TH/15-1, Ref No.: 2015145 ANNEX) issued by China Classification Society Wuhan Rules and Research Institute Testing Center of Marine Life-Saving Appliances according to ISO 23269-4:2010 and filed by RINA with No.: SHFP-9612.

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

Continued:

Reference Documents

Technical Drawing (EEBD, Type: TH/15-1) issued by Shanghai Fangzhan Fire Technology Co.,Ltd and approved by RINA with No. SHFP-8751;

EEBD Material List issued by Shanghai Fangzhan Fire Technology Co.,Ltd and approved by RINA with No. SHFP-8853;

Operation & Maintenance Instruction issued by Shanghai Fangzhan Fire Technology Co.,Ltd and filed by RINA with No. SHFP-8753;

Marking issued by Shanghai Fangzhan Fire Technology Co.,Ltd and filed by RINA with No. SHFP-8855.

Remarks

The device is not intended for use in fire fighting fires, entering oxygen deficient voids or tanks, nor to be worn by fire-fighters.

Each device shall be properly marked according to EN 1146 (2005), Par. 8 with means of identification, working duration, European Standard EN 1146, serial number, shelf life with manufacturer date and the maximum pressure vessel pressure.

"For escape only" shall be applied on each device. All EEBD training units shall be clearly marked.

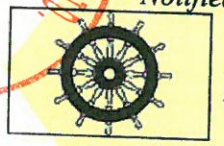
Inspection, maintenance, use, transportation and shelf life shall be in accordance with the manufacturer's instruction.

This product is designed in compliance with ISO 23269-4:2010 also.

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
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ATTACHMENT TO CERTIFICATE No. MED037121WS/005

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.

Qiang Sun

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
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PRODUCTION QUALITY ASSURANCE (MODULE D)
CERTIFICATE No. MED347123WS/004

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) 2022/1157 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.*

MED Item N°	**MED/3.41**
Description	**Emergency Escape Breathing Devices (EEBD)**
Type	**TH/15-1**
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 **MED037121WS/005** Date **02/03/2021** Notified Body **RINA (No. 0474)**

Issued in *RINA China Marine*
on
September 25, 2023

This Certificate is valid until
February 2, 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*

Hong Gu
RINA Services S.p.A.

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

Digitally signed by RINA Services S.p.A. on 28 Aug 2023. No handwritten signature is provided.

ATTACHMENT TO CERTIFICATE No. MED347123WS/004

Equipment:
TH/15-1

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

Technical documentation

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

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) RINA personnel are to be allowed to witness during the performances of activities, upon their request
d) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
e) RINA may revoke the approval in the case of modifications to requirements or conditions for the approval
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.
g) 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

Digitally signed by RINA Services S.p.A. on 28 Aug 2023. No handwritten signature is provided.