



EC TYPE EXAMINATION (MODULE B)

CERTIFICATE Nr. **MED018016WS/016**

This is to certify that RINA Services S.p.A. 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 (EU) 2015/559.

MED Item N°

A.1/3.41

Description

Emergency Escape Breathing Devices (EEBD)

Type

TH/15-1

Applicant

SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

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

Testing standards

ISO 23269-1 (2008), EN 1146 (2005)

Reference standards

Reg. II-2/13 of SOLAS '74 as amended, IMO

Res.MSC.98(73)-(FSS Code)3, IMO MSC/Circ.849

Issued at **SHANGHAI** on
November 21, 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.



**ATTACHMENT TO
CERTIFICATE Nr. MED018016WS/016**

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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

Name & place of Authorised Representative

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

Product Description

Emergency Escape Breathing Device (open-circuit compressed air breathing apparatus with a hood for escape) is designed with the following main characteristics:

Model	Maximum Working pressure	Volume	Air Deposit	Service time (min)	Weight (Kg)	Packing size (mm)
TH/15-1	21 Mpa	3 L	30 L	≥15 (35 L/min)	≤ 7.5	350 x 600

Main Components

Components	Model	Manufactory
Pressure Cylinder	Seamless Steel Cylinder	Sinoma Science & Technology (Jiu Jiang) Co., Ltd or, Nanjing Banqiao Fire-Fighting Equipment Co.,Ltd
Air Cylinder Valve	TH/15-03-03	Zhejiang Chunlei Machinery Manufactory Co.,Ltd
Face mask	---	assembled by Shanghai Fangzhan Fire Technology Co.,Ltd

Field of Application

Emergency escape breathing devices to be use only for escape according to Ch II-2/Reg13.3.4 of SOLAS '74 as amended and designed according to Fire Safety Code, Ch.3, Par.2.2.

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.



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Test 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.

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.

This certificate supersedes the previous MED Module B certificate No.: MED018016WS/004 issued on 17th Mar 2016 by the Society.



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CERTIFICATE Nr. MED018016WS/016
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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 process 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"

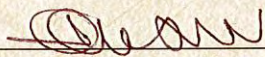
XXXX Notified Body number undertaking surveillance module

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.




Giuseppe Zagaria



PRODUCTION QUALITY ASSURANCE (MODULE D)

CERTIFICATE Nr. MED162716WS/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 Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2015/559 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.

MED Item N° **A.1/3.41**
Description **Emergency Escape Breathing Devices (EEBD)**
Type **TH/15-1**
Applicant **SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.**

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

Module B certificate

Number **MED018016WS/016**
Date **2016/11/21**
Notified Body **RINA (No.0474)**

Issued in **SHANGHAI** on
December 1, 2016

This Certificate is valid until
October 23, 2019

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 Nr. MED162716WS/002**

Equipment:
TH/15-1

Manufacturer
SHANGHAI FANGZHAN FIRE TECHNOLOGY CO., LTD.

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

Name & place of Authorised Representative
ANTONIO TRANI (FTTM SRL)
VIA DOMENICO CIMAROSA NO.37, NAPOLI, ITALY

Technical documentation

This certificate supersedes the previous MED Module D Certificate No. MED216415WS/002 issued on 25th Mar. 2016 by the Society.

INTERMEDIATE SCHEDULED AND UNSCHEDULED AUDITS			
Due Date	Carried out on	Surveyor's signature	Surveyor's stamp
2017/03/24	16/04/2017		
2017/09/24			
2018/03/24			
2018/09/24			
2019/03/24			
Unscheduled			
Unscheduled			

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

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

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