



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED116518CS**

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 Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2018/773.

<i>MED Item N°</i>	MED/1.8
<i>USCG Category N°</i>	160.136
<i>Description</i>	Rockets parachute flares (pyrotechnics)
<i>Type</i>	ORION IT 23
<i>Applicant</i>	F.D.F. SRL VIA FRANCHI PEZZE, 18 82017 Pannarano (BN) ITALY
<i>Testing standards</i>	IMO Res. MSC 81(70) as amended
<i>Reference standards</i>	SOLAS 74 Reg. III/6, SOLAS 74 Reg. III/34, IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.48(66)-(LSA Code) I, IMO Res. MSC.48(66)-(LSA Code) III, IMO Res. MSC.97(73)-(2000 HSC Code) 8.

Issued in Genoa on
June 29, 2018

This Certificate is valid until
June 28, 2023

This Certificate consists of this sheet plus an attachment



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Franca Parisi
RINA Services S.p.A.





**ATTACHMENT TO
CERTIFICATE No. MED116518CS**

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Manufacturer

F.D.F. SRL

Place of Manufacturer

VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY

Product description

Rocket parachute flare made with polipropilene case having the following main characteristic:

Total length	283 ± 2mm
External diameter	40 ± 0.5mm
Total weight	275 ± 10g
Maximum dimension of parachute	250 mm
Burning time	more than 40 sec.
Minimum luminous intensity	greater than 30.000 cd
Colour	bright red

Reference documents

Technical specification ORION IT 23 issued by F.D.F Srl and filed by RINA with n° CSST 16201;

Main dimension drawing "Assieme Razzo a Paracadute" issued by F.D.F Srl and approved by RINA with n° CSST 16198;

Label drawing ORION IT 23 rev.1 issued by F.D.F Srl and approved by RINA with n° CSST 16199.

Tests carried out

Evaluation and Test report n° 2018NA011352 carried out in accordance with IMO Res.MSC81(70) as amended and filed by RINA with n° CSST 16202;

Test report n° 352492 issued by Istituto Giordano and filed by RINA with n° CSST 16203.

Validity conditions

Expiry date: 4 years from the manufacturing date

Remarks

Luminous intensity in compliance with MSC 81(70) as amended by Res MSC.226(82), par 4.6.2

Each signal shall be permanently marked with the date (month and year) of manufacture and expiry date.

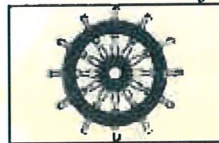




ATTACHMENT TO
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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied 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

USCG Approval

This product has been assigned a U.S. Coast Guard module B number (USCG number: 160.136/EC0474) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.

The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.

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
- 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
- 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
- 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.



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Franca Parisi





**PRODUCTION QUALITY ASSURANCE (MODULE D)
CERTIFICATE No. MED154518NA/008**

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 Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of (EU) 2018/773 and according to the type described in the EC Type Examination Certificate (Module B) below indicated.

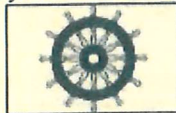
<i>MED Item N°</i>	MED/1.8
<i>USCG Category N°</i>	160.136
<i>Description</i>	Rockets parachute flares (pyrotechnics)
<i>Type</i>	ORION IT 23
<i>Applicant</i>	F.D.F. SRL
	VIA FRANCHI PEZZE 18 82017 Pannarano (BN) ITALY
<i>Module B certificate</i>	Number MED116518CS Date 29/06/2018 Notified Body RINA (No.0474)

Issued in RINA Naples Marine
on
July 25, 2018

This Certificate is valid until
July 24, 2021

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

USCG Approval marking

The manufacturer is allowed to affix the U.S. Coast Guard approval number (*USCG approval number: 160.136/EC0474/MED154518NA/008*) to the above equipment, as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004.



Biagio Pugliese
RINA Services S.p.A.

