



## EC TYPE EXAMINATION (MODULE B)

No. MED461322CS

***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) 2022/1157.*

*MED Item N°*

**MED/1.8**

*Description*

**Rockets parachute flares (pyrotechnics)**

*Type*

**ORION IT 23**

*Applicant*

**F.D.F. SRL**

VIA FRANCHI PEZZE, 18  
82017 Pannarano (BN)  
ITALY

*Testing standards applied  
Regulations specified and  
reference documents*

**IMO Res. MSC.81(70), as amended; ISO 15736: 2006.  
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,  
IMO MSC.1/Circ.1629.**

*Issued in Genoa on  
November 23, 2022*

*This Certificate is valid until  
November 22, 2027*

*This Certificate consists of this sheet plus an attachment*



**ATTACHMENT TO**  
**No. MED461322CS**  
Page 1 of 2

*Manufacturer*

**F.D.F. SRL**

*Place of Manufacturer*

VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY

*Name & place of Authorised Representative*

Antonello De Renzi

Via Franchi Pezze, 18

82017 Pannarano (ITALIA)

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.

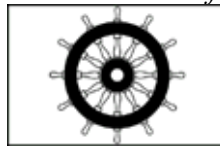
Each signal shall be permanently marked with the date (month and year) of manufacture and expiry date.

This certificate annuls and replaces the certificate No. MED116518CS dated 06/29/2018.



**ATTACHMENT TO**  
**No. MED461322CS**  
**Page 2 of 2**

*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 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.