



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED194718CS/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 Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2018/773.

MED Item N°	MED/1.9
USCG Category N°	160.121
Description	Hand flares (pyrotechnics)
Type	ELIOS - FDF
Applicant	F.D.F. SRL
	VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY
Testing standards	IMO Res. MSC 81(70) as amended
Reference standards	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 20, 2018

This Certificate is valid until
June 19, 2023

This Certificate consists of this sheet plus an attachment



Franca Parisi
RINA Services S.p.A.





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Manufacturer

F.D.F. SRL

Place of Manufacturer

VIA FRANCHI PEZZE 18 82017 PANNARANO (BN) ITALY

Product description

Metallic cylindrical case with plastic made handle (fixed or sliding type) having the following dimensions:

Total length with fixed handle:	240 ± 1mm
Total length with sliding handle	210/320 ±1mm
Diameter of metallic cylindrical case	30 ±1mm
Diameter of plastic handle	32 ±1mm
Weight	0,260 kg
Burning time	more than 60 sec.
Luminous intensity	greater than 15,000 cd
Colour	bright red

Reference documents

General Arrangement drawing issued by FDF Srl approved by RINA with n° FPE-3196 (dated 19/4/2004) and CSST 3029 (dated 8/04/2009).

Technical specification issued by FDF Srl and filed by RINA with n° CSST 3106.

Tests carried out

Tests carried out in accordance with IMO Res.MSC81(70)

Drop test 3.2.7.1 issued by RINA on 27/04/2009 and filed with n° 2009 NA 741

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 4.7.2

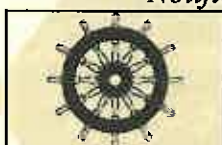
Each signal shall be permanently marked with the date (month and year) of manufacture.





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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: 160.121/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.




x Franca Parisi

