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Notified Body authorised by  
BSH 0800-S23/4822:013

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Certificate No: LR23181169MB

Issue Date: 09/10/2022

Expiry Date: 08/10/2027

# EC Type Examination (Module B) Certificate

## USCG-EU MRA

This is to certify that:

LLOYD'S REGISTER Marine Deutschland GmbH (LRMD), designated as a "notified body" based on the notification of the Federal Maritime and Hydrographic Agency of Germany, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

<b>Manufacturer</b>	<b>LECEA Sistemas Pirotécnicos Avanzados, S.A.</b>
<b>Address</b>	Barrio Epiztegia, N° 3, Larrea (Álava), 01208, Spain
<b>Reference</b>	Marine Equipment Directive (MED) 2014/90/EU, Regulation (EU) 2022/1157
<b>Regulation Item (No. &amp; Item Designation)</b>	MED/1.9 Hand Flares (Pyrotechnics)
<b>Product Type</b>	PYROTECHNICS
<b>Product Description</b>	Hand flare (Pyrotechnics) – Type: "L-21"
<b>Specified Standard</b>	Resolution MSC 81 (70) Amended by Resolution MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93), MSC.427(98), MSC.472(101) and MSC 488(103) as applicable ISO 15736: 2006
<b>Trade Name</b>	"L-21"

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRMD of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register Marine Deutschland  
GmbH, Überseeallee 10, D-20457  
Hamburg, Germany.  
A member of the Lloyd's Register group

**Lijo Thomas**

Senior Surveyor

For and on behalf of Lloyd's Register Marine  
Deutschland GmbH (2923)

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## EC Type Examination (Module B) Certificate

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed on 27 February 2004 and amended by Decision No.1/2018 dated 18 February 2019 according to U.S. Coast Guard approval category USCG Module B number:

160.121/EC2923

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production Module certificate (Module D, E or F).

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

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 and controlled by a written inspection agreement with a notified body.

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## ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR23181169MB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

This Certificate Supersedes and is a Renewal of Certificate Number 0525-MED-DE-MED 1750180

### **Approval Documentation**

Technical Documentation – 01 General Data; Tec. Doc. Ref L-21; dated 06/10/2017; Version 4

### **Test Reports**

Test Report “L-21”Pirotecnica Lecea, S.A.; dated 26.09.2017, witnessed by LR Surveyor.

Hand Flares Evaluation and Test Report 0364/BB0/04; dated 29 December 2004; witnessed by Surveyor acceptable to Lloyd's Register.

Determination of Light Intensity and Duration of Combustion; Code: RPO-03.2 L-21 Flare; dated 20.10.14.

### **Conditions of Certification**

1. Not approved for use as part of liferaft kits. Drop test shall be carried out in conjunction with approval of Liferaft before being accepted as part of liferaft kits.
2. Each hand flare is to be marked with the approved clear and precise instructions printed on its casing along with date of manufacture and expiry date as required by LSA Code.
3. Each hand flare to be marked with the following information:
  - a) Item type or model identification;
  - b) Relevant functional information (altitude, burn time, candela rating, and others as appropriate);
  - c) “SOLAS 96” or “IMO LSA Code”;
  - d) “ISO 15736”;
  - e) Name of manufacturer;
  - f) Month and year of manufacture; and
  - g) Approval information as per LSA Code, regulations 1.2.2.9
4. The hand flare shall be permanently marked with the date of expiry. The date of expiry for pyrotechnic lifesaving appliances shall be 36 months from the date of manufacture, except in cases where a maritime administration has approved a longer service life (48 months in case of USCG)
5. The stowage of this equipment is not part of this Design Appraisal or this certificate. All such arrangements are to be to the satisfaction of the surveyors attending on board.

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6. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
7. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and Annex A of ISO 15376:2006. The sampling shall be performed in accordance with ISO 2859-1. The detail of testing be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or witnessed by the Notified Body as required by the Product Verification (Module F) of the Marine Equipment Directive. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.
8. This product has been assigned a U.S. Coast Guard Module B number USCG Approval Category 160.121/EC2923 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the “Corrigendum to Council Decision 2004/425/EC of 21 April 2004 and amended by Decision No.1/2018 dated 18 February 2019 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment”.
9. In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd’s Register Marine Deutschland, such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly.
10. Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements
11. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained
12. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
13. Each item, batch or lot of the equipment is to be issued with a “Declaration of Conformity” and have the “Mark of Conformity” affixed after a conformity assessment module is in place.
14. The manufacturer shall keep a copy of the EC type-examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for at least 10 years after the wheel mark has been affixed on the last product manufactured and in no case for a period shorter than the expected life of the marine equipment concerned.

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**Place of Production**

LECEA Sistemas Pirotécnicos Avanzados, S.A.  
Barrio Epiztegia, N° 3  
Larrea (Álava)  
01208  
Spain

*Lijo Thomas*

Lijo Thomas  
Senior Specialist  
Fire & Safety, Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore  
**For and on behalf of Lloyd's Register Marine Deutschland**  
**LRMD EC Distinguishing No. 2923**

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