




# EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

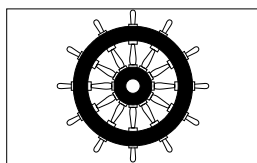
LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU, 2013/52/EU and 2014/93/EU subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer</b>	Drew Marine Signal & Safety Spain SL
<b>Address</b>	Camino Mendi S/N 31191 Esquiroz de Galar Navarra Spain
<b>Annex A1 Item</b>	<b>A.1/1.10 BUOYANT SMOKE SIGNALS (PYROTECHNICS)</b>
<b>USCG Category Number</b>	<b>160.122 - BUOYANT SMOKE SIGNAL, 3-MINUTE (PYROTECHNICS)</b>
<b>Product Type</b>	<b>PYROTECHNICS</b>
<b>Product Description</b>	Buoyant smoke signal - Type: "KEL"
<b>Specified Standard</b>	IMO Resolution MSC.81 (70), Part 1 as amended by MSC.226 (82) and MSC.323 (89)

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

Date of issue	23 January 2016	Expiry date	22 January 2021
Certificate No.	MED 1650089	Signed	
Sheet No	1 of 3	Name	L. Thomas For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note: This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



0038/yy

## USCG-EU MRA

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy = Last two digits of year mark affixed.

This product has been assigned a U.S. Coast Guard Module B number:

**USCG Module B number: 160.122/EC0038**

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 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."

**This certificate is issued under the authority of the MCA.**

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



**Lloyd's  
Register**

**Lloyd's Register Verification Limited**

71 Fenchurch Street, London, EC3M 4BS  
Telephone 020 7423 2416 Fax 020 7423 2053  
Email med@lr.org

Page 2 of 3
Document number MED 1650089
Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 4 March 2016	Quote this reference on all future communications MTES/SFS/TA/LT/WP24831919
----------------------	--

**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1650089**

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.

**EXAMINED DOCUMENTS**

<u>Title</u>	<u>Document No</u>	<u>Date</u>
General Arrangement	51	Nov 09
Screw Cap	51/6	Nov 09
Lid	51/2	Nov 09
Firing Ball	51/11	Nov 09
Nut	51/8	Nov 09

**TEST REPORTS**

- Pirotecnia Oroquieta, S.L. 60 page booklet including covers, detailing construction, materials, test equipment and calibrations, test methods and test reports with photographs. Approval date 15 October 1996.
- Survey Report No. BBO 600305/2 of 21 June 1996.
- Test Report of Buoyant Smoke Signal "KEL", document No IC-10.2-2 Rev. 1, dated September 2012 as witnessed by a LR Surveyor.

**CONDITIONS OF CERTIFICATION**

1. Each buoyant smoke signal is to be marked with the approved clear and precise instructions along with the date of manufacture and expiry date as required by LSA Code, Chapter 3.3.3.3 and with the information required by LSA Code, regulations 1.2.2.9
2. The expiration date not to exceed 48 months after the month of manufacture
3. The stowage of this equipment is not part of this Design Appraisal or certificate. All such arrangements are to be to the satisfaction of the surveyors attending on board
4. 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
5. 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



Lloyd's  
Register

**Lloyd's Register Verification Limited**

71 Fenchurch Street, London, EC3M 4BS  
Telephone 020 7423 2416 Fax 020 7423 2053  
Email med@lr.org

Page 3 of 3
Document number MED 1650089
Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 4 March 2016	Quote this reference on all future communications MTES/SFS/TA/LT/WP24831919
----------------------	--

**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1650089**

- Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and 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
- This product has been assigned a **U.S. Coast Guard Module B number USCG Approval Category 160.122/EC0038** 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 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"

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 Verification Ltd., 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

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements

- 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
- 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

Note: This is renewal of certificate MED 1150093/M1

**PLACE OF PRODUCTION**

Drew Marine Signal & Safety Spain SL  
Camino Mendi S/N  
31191 Esquiroz de Galar  
Navarra  
Spain



Lijo Thomas  
Senior Specialist  
Statutory Fire and Safety  
Marine Technology and Engineering Services  
For and on behalf of Lloyd's Register Verification  
**LRV EC Distinguishing No. 0038**