



Lloyd's  
Register

Transport  
Canada  
Safety and Security




## CERTIFICATE OF TYPE APPROVAL ISSUED ON BEHALF OF TRANSPORT CANADA

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations with regards to the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by Transport Canada to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	Drew Marine Signal & Safety Germany GmbH.
<b>Address</b>	Vielander Weg 147 27574, Bremerhaven Germany
<b>Type</b>	Pyrotechnic Distress Signal - Three minute Buoyant Orange Smoke Signal
<b>Description</b>	Pains Wessex Lifesmoke MK9 Art. No. 9537000 Comet Smoke Signal, Orange, Art No. 9192000
<b>Specified Standard</b>	LSA Code I/1.2 & III/3 MSC.81(70),Part 1, as amended, TP 14475E

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

Date of issue	28 July 2017	Expiry date	27 July 2022
Certificate No.	LRTC 0000159	Signed	
Sheet No	1 of 3	Name	L. Thomas Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

**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 Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.**

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.



Page	2 of 3
Document number	LRTC 0000159
Issue number	1

## DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
28 July 2017	SOUTSO/SFS/TA/EK/LT/WP29801828

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LRTC 0000159

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

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#### EXAMINED DOCUMENTATION

Drawing 5887 Rev.01 ID-No. BAM-P1-0191 SOLAS Smoke Signal, orange, 3 min., Art.9192000, 537000; dated July 2015

Comet Marine Distress Signal data sheet; Smoke Signal Orange Art. No. 9192000

#### TEST REPORTS

Evaluation and Test Report, Smoke Signal, Orange; witnessed by BG-Verkehr; dated 29.11.16

#### CONDITIONS OF CERTIFICATION

1. The Buoyant Orange Smoke Signal is to be permanently marked with the month and year of manufacture, as well as its lot number and date of expiry on its casing
2. The instructions for operating the Buoyant Orange Smoke Signal are to be permanently marked on its casing or the signal is to carry a diagram clearly showing the manner of operating the signal as required by paragraph 3.1.1.2 of the TP14475E
3. Each Buoyant Orange Smoke Signal is to be marked with the information required by LSA Code, regulations 1.2.2.9
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 are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype
6. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2, Paragraph 1.2. 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
7. All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian procedures for approval of life-saving appliances and fire safety systems, equipment and products document no. TP 14612E (05/2011) paragraph 2.2.1.3. However independent signage can be accepted in lieu of the instructions or marking required in paragraph 2.2.1.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored
8. This approval is given on the understanding that Lloyd's Register reserves the right to require checks/tests to be carried out at any time and that the manufacturer of the product will accept responsibility for informing ship owners of proper methods of use, maintenance and the conditions of this approval



Lloyd's  
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## Lloyd's Register EMEA

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email [tass@lr.org](mailto:tass@lr.org)

Page	3 of 3
Document number	LRTC 0000159
Issue number	1

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9. 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

#### PLACE OF PRODUCTION

Drew Marine Signal & Safety Germany GmbH.  
Vielander Weg, 147,  
27574 Bremerhaven, Germany



Lijo Thomas  
Senior Specialist  
Statutory Fire & Safety  
Southampton Technical Support Office, Marine & Offshore  
Lloyd's Register EMEA

#### Supplementary Type Approval Terms and Conditions

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).*