

Certificate of Type Approval

This is to certify that LLOYD'S REGISTER, specified as a "person" under the terms of The Merchant Shipping (Marine Equipment) Regulations 2016 (SI2016 No. 1025), did undertake the relevant type approval procedures of the equipment identified below which was found to be in compliance with the International Regulations for preventing Collisions at Sea, 1972 (COLREG 72), as amended, requirements subject to any conditions in the Design Appraisal Document hereto.

Manufacturer	Ibuki Kogyo Co., Ltd.
Address	7-28 Takadono 1-Chome, Asahi-Ku, Osaka, 535-0031, Japan
Type	Sound Signals
Description	Manually controlled compressed air whistle – Type "A150 SS" or when fitted with electric and manual control – Type "A150 ESS" or when fitted with heater – Type "A150 ESSH"
Trade Name	A150 SS - A150 ESS - A150 ESSH
Specified Standard	COLREGs – International Regulations for Preventing Collisions at Sea amended by IMO Resolution A.1004 (25) Annex III/1 EN60945 (2002) including IEC 60945 Corrigendum I (2008)

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

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.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lijo Thomas

Senior Surveyor to Lloyd's Register EMEA
A member of the Lloyd's Register group

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 '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.

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR21169459SS

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.

This Design Appraisal Document forms part of the Certificate.
This Certificate is the renewal of Certificate No SAS S150146

EXAMINED DOCUMENTATION

<u>Drwg. No</u>	<u>Date</u>	<u>Dwg. Title</u>
SOJ-2300B-2	05/19/1979	Outline View A150 SS
SSJ-2300B-2	05/19/1979	Construction View A150 SS
-	-	Instructions A150 SS
SOJ-2310B-2	05/19/1979	Outline View A150 ESS ^{ss}
SSJ-2310B-2	05/19/1979	Construction View A150 ESS ^{ss}
-	-	Instructions A150 ESS ^{ss}
SOJ-2340B-2	05/19/1979	Outline View A150 ESSH
SSJ-2340B-2	05/19/1979	Construction View A150 ESSH
-	-	Instructions A150 ESSH

@ Fitted with solenoid valve for electric control in addition to manual control

TEST REPORTS

City University, London, United Kingdom, Acoustic Test Report on Ibuki Ship's whistle, dated 7 Oct 1986.

Prototype Test Report no H8431 for the Air Whistle Type "A150-SS", dated 16.11.10, as witnessed by an LR surveyor

Prototype Test Report no H8433 for the Air Whistle Type "A150-ESSH" dated 16.11.10, as witnessed by an LR surveyor

Prototype Test Report no H8431 for the Air Whistle Type "A150-ESS", dated 16.11.10, as witnessed by an LR surveyor

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CONDITIONS OF CERTIFICATION

1. The Sound Signal Appliances have been appraised against also the standards mentioned under IMO Resolution A.694 (17) - General Requirements for Shipborne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids
2. The electro acoustic components are not part of this design appraisal, but is expected that the suitability of these items are to be established by the attending surveyor on an installation-by-installation basis
3. The A150 SS, A150 ESS and A150 ESSH whistles may only be fitted to vessels 75 metres but less than 200 metres in length
4. **Installation on board:** The arrangements and installation of this equipment on board the vessel are not part of this design appraisal or certificate. All such arrangements are to be to the satisfaction of the Surveyors attending on board; the fitting of the equipment to be in accordance with the manufacturer's instructions the requirements of COLREGs 72 and Resolution A.694 (17), as amended, and any additional requirement of the State whose flag the vessel is entitled to fly
5. **Variants of the approved design:** Where this equipment is proposed to be supplied to a purchaser's specification which requests omission of one or more of the facilities necessary to meet the performance requirements referred to above, the purchaser is required to request the vessel's Flag State to consider issue of an Exemption Certificate for that ship to omit such facilities. Only when the exemption has been granted by the Flag State may a variant of the approved design be supplied under this certificate
6. The Air Whistles shall be marked clearly accordingly to the requirements of Resolution A.694 (17)
7. The Air Whistles shall be delivered complete with their technical documentation accordingly to the requirements of Resolution A.694 (17)
8. 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
9. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5
10. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2, Paragraph 1.2 as appropriate and records maintained for verification by LR Surveyors
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

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PLACE OF PRODUCTION

Ibuki Kogyo Co., Ltd.
7-28 Takadono 1-Chome
Asahi-Ku
Osaka, 535-0031
Japan



Lijo Thomas
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I 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).