

Certificate of Type Approval

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for preventing Collisions at Sea, 1972 (COLREG 72), 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 contracting governments to issue the relevant certificates, licences, permits etc.

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 powered air horn – Type: "A100" or when fitted with electric and manual control – Type: "A100 E" or when fitted with heater – Type: "A100 EH"
Trade Name	A100 - A100 E - A100 EH
Specified Standard	The Convention on the International Regulations for Preventing Collisions at Sea 1972 (COLREGs), Annex III/1 1(a) to (d) inclusive EN 60945 (2002)

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.



Lijo Thomas

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

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR21170599SS

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

<u>Dwg No.</u>	<u>Date</u>	<u>Drawing Title</u>
SOJ-1200C	Feb. 27, 1979	A100 Air Horn
SSJ-1200C	Feb. 27, 1979	A100 Air Horn Construction View
-	-	Instructions "Ibuki" A100 Type Air Horn
SOJ-1290C	Feb. 27, 1979	A100E Air Horn [§]
SSJ-1290C	Feb. 27, 1979	A100E Air Horn Construction View [§]
-	-	Instructions "Ibuki" A100E Type Air Horn [§]
SOJ-1240C	Feb. 27, 1979	A100EH Air Horn [§]
SSJ-1240C	Feb. 27, 1979	A100EH Air Horn Construction View [§]
-	-	Instructions "Ibuki" A100 Type Air Horn [§]

[§] Fitted with solenoid valve for electric control in addition to manual control

[§] Also fitted with heater

TEST REPORTS

MIRA Test Report No. K 124341, dated 18 Feb 1986

CTS Test Report No: 5215, dated 31/10/1997, for EMC

Test Report No. IDOC-T0002, dated 15th April 2011

CONDITIONS OF CERTIFICATION

1. The A100, A100 E and A100 EH horns may only be fitted to vessels of greater than 20 metres but less than 75 metres in length
2. The onboard arrangements and installation of this horn is not part of this certificate, all such arrangements are to be to the satisfaction of the attending surveyor
3. Each horn is to be delivered with a copy of this certificate
4. Instructions for use and maintenance are to be supplied with each horn
5. Should the specified standards be amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply
6. Should a change of Place of Production from that stated below be required from that stated below be required, i.e. where the final stages of manufacture/assembly/testing of this product 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
7. 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

NOTE: This sound signal appliance has been tested to the requirements of EN 60945 for electromagnetic compatibility only

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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).