



**Marine & Offshore  
Division**

**Certificate number:** 14449/C1 BV

**File number:** NAV 39/1469/01

**Product code:** 4005H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

[www.veristar.com](http://www.veristar.com)

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**MARCO SpA**

Castenedolo (BS) - ITALY

*for the type of product*

**SHIP's SOUND SIGNALS (WHISTLES)**

Electric whistle type: EW2/EW3

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships.

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 02 Sep 2020**

**For BUREAU VERITAS,**

At BV GENOA, on 21 May 2015,

Carlo Bozzetti



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION:**

<b>Types</b>	<b>Voltage</b>	<b>Frequency</b>	<b>Sound pressure level (1m)</b>
EW2 12V Electric whistle	12 V	692 Hz	121 dB
EW2 24V Electric whistle	24 V	690 Hz	121.6 dB
EW3 12V Electric whistle	12 V	698 Hz	130.3 dB
EW3 24V Electric whistle	24 V	698 Hz	130.4 dB

### **2. DOCUMENTS AND DRAWINGS:**

According to Manufacturer's specifications filed in NAV 39/1469/01.

### **3. TEST REPORTS:**

3.1 - Electric whistle EW2 12V/EW2 24V:

Department of Trade Marine Directorate Certificate of Inspection and Tests,  
EMIT Vibration test report RP 1425 FIA 90.

3.2 - Electric whistle EW3 12V/EW3 24V:

Department of Trade Marine Directorate Certificate of Inspection and Tests,  
EMIT Vibration test report RP 1681 FIA 91.

### **4. APPLICATION / LIMITATION:**

4.1 - Electric whistle type EW2 12V 12 V vessels < 20 m,

Electric whistle type EW2 24V 24 V vessels < 20 m,

Electric whistle type EW3 12V 12 V vessels  $20 \leq L < 75$  m,

Electric whistle type EW3 24V 24 V vessels  $20 \leq L < 75$  m.

4.2 - Protection index IP is to be in accordance with the location of the whistle.

4.3 - On board installation & Maintenance requirements are to be in accordance with the specified regulations and standards stated on the front page of the certificate.

### **5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above products are to be supplied by **MARCO SpA** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **MARCO SpA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

**MARCO SpA**  
**Via Mameli 10,**  
**25014 Castenedolo Brescia**  
**ITALY**

### **6. MARKING OF PRODUCT:**

6.1 - Maker's name or trade mark,

6.2 - Serial number of the units,

6.3 - Equipment type number or model identification under which it was type-tested.

### **7. OTHERS:**

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the Whistles at any time and that **MARCO SpA, 25014 Castenedolo (BS) - Italia**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate No. 14449/C0 issued on 07 May 2015 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*