



# EC CERTIFICATE

## Notified Body No. 0843

CPR Notified Body UL International (UK) Ltd., Kingsland Business Park, Unit 1-3 Horizon  
Wade Rd, Basingstoke RG24 8AH, United Kingdom

## Certificate of constancy of performance 0843-CPR-0545

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

### Model Arenamatch AM20 Loudspeaker

placed on the market under the name or trademark of

**BOSE CORPORATION**  
**The Mountain Framingham, Ma, 01701 US**

and produced in the manufacturing plant(s)

#### FACTORY A

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

### EN 54-24: 2008 - Components of voice alarm systems - Loudspeakers

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 2020-04-21 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body

2020-04-21

Chris Miles  
Head of Notified Body  
UL International (UK) Ltd  
Page 1 of 3



# EC CERTIFICATE

## Notified Body No. 0843

CPR Notified Body UL International (UK) Ltd., Kingsland Business Park, Unit 1-3 Horizon  
Wade Rd, Basingstoke RG24 8AH, United Kingdom

### Annex: Detailed information sheet

Certificate Number: 0843-CPR-0545

### Product/Device description:

Model AM20 Arenamatch, Outdoor-Rated, 2-Way Loudspeaker, with 60°, 80° or 100° waveguides

### Applicant designation:

Bose Corporation, The Mountain Framingham, Ma, 01701 US

### Product Information:

Model Reference: AM20/60, AM20/80, AM20/100  
Type: Type B (Outdoor) IP33C  
Description: Loudspeaker for voice alarm systems for fire detection and fire alarm systems  
Operating Voltage: 100V / 70V Audio Line  
Wattage: 100W, 200W and 400W

### Installation instructions:

To be used in accordance with the supplier's installation instructions.

### CPR report reference:

NC31202-D01-EuropeanDirective-Original

The referenced product complies with all the relevant requirements as per EN54-24: 2008

2020-04-21

Chris Miles  
Head of Notified Body  
UL International (UK) Ltd  
Page 2 of 3



# EC CERTIFICATE

## Notified Body No. 0843

CPR Notified Body UL International (UK) Ltd., Kingsland Business Park, Unit 1-3 Horizon  
Wade Rd, Basingstoke RG24 8AH, United Kingdom

### Annex: Detailed information sheet

Certificate Number: 0843-CPR-0545  
Model: AM20

Essential Characteristics	Performance	Standard
<b>Performance under fire condition</b>		
4.2 Frequency response limits	Pass	EN54-24: 2008
5.2 Reproducibility (frequency response / sensitivity)	Pass	EN54-24: 2008
5.3 Rated impedance	Pass	EN54-24: 2008
5.4 Horizontal and vertical coverage angles	Pass	EN54-24: 2008
5.5 Maximum sound pressure level	Pass	EN54-24: 2008
<b>Operational reliability</b>		
4.3 Durability	Pass	EN54-24: 2008
4.4 Construction	Pass	EN54-24: 2008
4.5 Marking and data	Pass	EN54-24: 2008
5.6 Rated noise power (durability)	Pass	EN54-24: 2008
5.18 Enclosure protection	Pass	EN54-24: 2008
<b>Durability of operational reliability: Temperature Resistance</b>		
5.7 Dry heat (operational)	Pass	EN54-24: 2008
5.8 Dry heat (endurance)	Pass	EN54-24: 2008
5.9 Cold (operational)	Pass	EN54-24: 2008
<b>Durability of operational reliability: Humidity Resistance</b>		
5.10 Damp heat, cyclic (operational)	Pass	EN54-24: 2008
5.11 Damp heat, steady state (endurance)	Pass	EN54-24: 2008
5.12 Damp heat, cyclic (endurance)	Pass	EN54-24: 2008
<b>Durability of operational reliability, corrosion resistance</b>		
5.13 Sulfur dioxide (SO <sub>2</sub> ) Corrosion	Pass	EN54-24: 2008
<b>Durability of operational reliability: impact and vibration resistance</b>		
5.14 Shock (operational)	N/A	EN54-24: 2008
5.15 Impact (operational)	Pass	EN54-24: 2008
5.16 Vibration (operational)	Pass	EN54-24: 2008
5.17 Vibration (endurance)	Pass	EN54-24: 2008

2020-04-21

Chris Miles  
Head of Notified Body  
UL International (UK) Ltd  
Page 3 of 3