



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-0546

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 AM40 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body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
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Annex: Detailed information sheet

Certificate Number: 0843-CPR-0546

Product/Device description:

Model AM40 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: AM40/60, AM40/80, AM40/100
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

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Certificate Number: 0843-CPR-0546
Model: AM40

Essential Characteristics	Performance	Standard
Performance under fire condition		
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
Operational reliability		
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
Durability of operational reliability: Temperature Resistance		
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
Durability of operational reliability: Humidity Resistance		
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
Durability of operational reliability, corrosion resistance		
5.13 Sulfur dioxide (SO ₂) Corrosion	Pass	EN54-24: 2008
Durability of operational reliability: impact and vibration resistance		
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

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