## Certificate No.: 2531-CPR-CSP11236





#### **CERTIFICATE OF CONSTANCY OF PERFORMANCE**

Issued by DBI Certification, notified body No. 2531.

In compliance with Regulation 305/2011/EU 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

#### FreeSpace FS4CE - In-ceiling Loudspeaker

The product fulfils the essential characteristic:

See Annex 1

Intended use: Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

Bose Corporation The Mountain MA 01701 Framingham

and produced in the manufacturing plant:

**CPA10046** 

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-24:2008 : Fire detection and fire alarm systems - Part 24: Components of voice alarm

systems - Loudspeakers

under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

The attached annexes form part of this certificate.

Date of issue: 2021-03-18.

This certificate will remain valid as long as neither the harmonized 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

(This certificate supersedes the previous version of this certificate issued 2020-12-21)

This certificate was first issued 2020-12-21.

Merete Poulsen Responsible for evaluation Allan Laursen
Responsible for certification decision

DANAK Prod. Reg. Nr. 7023

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#### Annex 1

#### **EXTENT**

**Product information:** 

Model Reference: FS4CE

Type: Type B (Outdoor) IP33C

Description: Loudspeaker for voice alarm systems for fire detection and fire alarm systems

Impedance:  $8\Omega / 40W$ 

Operating Voltage: 100V / 70V Audio Line

Wattage: 70 Vrms: 2,5W, 5W, 10W, 20W, 40W 100 Vrms: 5W, 10W, 20W, 40W

#### Installation instructions:

To be used in accordance with the suppliers installation instructions, and technical datasheet.

#### Performance

Essential characteristics	Clauses in EN 54-24:2008	Performance
Performance under fire conditions	4.2, 5.2, 5.3, 5.4, 5.5 a)	Pass
Operational reliability	4.3, 4.4, 4.5, 5.6, 5.18 b)	Pass
Durability of operational reliability;	5.7, 5.8, 5.9 b)	Pass
temperature resistance		
Durability of operational reliability;	5.10, 5.11, 5.12 c)	Pass
humidity resistance		
Durability of operational reliability;	5.13	Pass
corrosion resistance		
Durability of operational reliability;	5.14, 5.15, 5.16, 5.17	Pass
impact and vibration resistance		
1		 

- a) The products covered by this standard are assumed to enter the alarm condition, in an event of fire before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.
- b) 5.7, 5.8, 5.9, and 5.18 applies different conditioning for Type A loudspeakers and Type B loudspeakers.
- c) 5.12 apply only to type B loudspeakers.



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Annex 2

### TEST DOCUMENTATION AND TECHNICAL BASIS

TEST DOCUMENTATION AND TECHNICAE BASIS			
File Number	Project		
NC31202	4789172392 First issued 2020-06-09		





