PRO.BOSE.COM

TECHNICAL DATA

FreeSpace FS2C in-ceiling loudspeaker

Product Overview

FreeSpace FS loudspeakers are the next step of our widely trusted line of in-ceiling and surface-mount loudspeakers, offering significant upgrades in durability, design, and ease of installation — all with remarkably consistent tonality. Engineered for high-quality performance in both background music and voice announcement applications, FS loudspeakers are ideal for almost any commercial space. The line includes five loudspeakers, two distinct levels of sound, new mounting options, and a modern aesthetic to match. For those seeking consistent, quality installed sound, FreeSpace FS loudspeakers are the perfect mix of performance and value.

The FS2C is an in-ceiling model with a full-range 2.25-inch transducer, low frequency range down to 83 Hz, and sensitivity of 86 dB SPL / 1 W @ 1 m.

Key Features

Maintain consistent tonal quality with shared voicing across all FS models

Hear the best of both — music and voice — with transducers that offer clear voice reproduction and smooth response for background music

Customize systems with confidence using in-ceiling, surface-mount, and pendant-mount options, allowing for tailored mix-andmatch installations. DesignMax subwoofers and larger models can expand your system design options even further

Blend with more room designs with updated enclosures — available in black and white — that pair modern aesthetics with practical features, including removable logos

Tackle site-specific challenges with the support of a full suite of accessories, designed to handle a wide range of applications and mounting options

Install with ease - all models feature Euroblock inputs and front-baffle input location on in-ceiling models

Support public safety — EN54-24 for Voice Alarm Systems for Fire Detection and Fire Alarm Systems for Buildings. UL 1480 UUMW listed for use in fire alarm and signaling systems in life safety applications

Technical Specifications

| SINGLE LOUDSPEAKER PERFORMANCE | | |
|---|---|----------------------------------|
| Frequency Response (-3 dB) ⁽¹⁾ | 95 - 16,000 Hz | |
| Frequency Range (-10 dB) ⁽¹⁾ | 83 - 19,000 Hz | |
| Nominal Coverage Angle (1 - 4 kHz) | 150° | |
| Nominal Coverage (1 - 10 kHz) | 145° | |
| | AES transducer test (5) | Bose extended-lifecycle test (4) |
| Power Handling, Long-term Continuous | 20 W | 16 W |
| Power Handling, Peak | 80 W | 64 W |
| Sensitivity SPL/1W @ 1m (2) | 86 dB | 86 dB |
| Calculated Maximum SPL @ 1 m (3) | 99 dB | 98 dB |
| Calculated Maximum SPL @ 1 m, Peak | 105 dB | 104 dB |
| Loudspeaker EQ | No Bose EQ required when speaker used for general use. Bose EQ Voicing and SmartBass avail- able. EN54-24 Equalization is required for EN54-24 use; refer to FS2P EN54-24 Certified ratings document on pro.bose.com for details. | |
| Recommended High-Pass Protection | 85 Hz with minimum 24-dB/octave filter | |
| Transformer taps | 70V: 1, 2, 4, 8, 16 W, bypass | |
| | 100V: 2, 4, 8, 16 W, bypass | |
| TRANSDUCERS | | |
| Full-Range Driver | 1 x 2.25-inch woofer (57 mm) | |
| Nominal Impedance | 16 ohms (transformer bypass) | |





PROFESSIONAL

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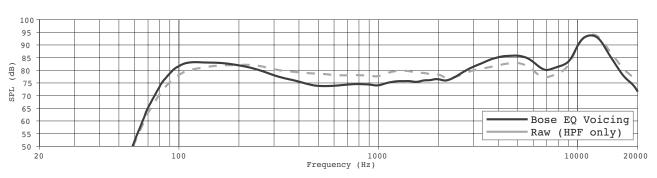
| PHYSICAL | | |
|--|---|--|
| Enclosure Material | Engineered-plastics front baffle with integrated steel-formed backcan | |
| Grille | Perforated steel, powder-coated finish | |
| Logo | Rotatable, removable | |
| Color | Black (similar to Ral 9005), White (similar to Ral 9003) | |
| Environmental | Indoor only, suitable for use in plenum locations | |
| Safety Agency | Certification: EN54-24:2008 for Voice Alarm Systems, UL 1480 UUMW, CAN/ULC-S541 UUMW7 for Speakers for Fire Alarm and Signaling Systems, in compliance with UL 2043 for plenum-space instal- lation. Installation: NFPA 70, NFPA 72, CSA C22.1 Section 32 For EN54-24 specifications, refer to FS2C EN 54-24 Certified Ratings document on pro.bose.com. EN54-24 equalization required for EN54-24 use. | |
| Operating Temperature Range | 0 °C to 50 °C (32 °F to 122 °F) | |
| Connectors | Euroblock 6-pin connector with loop-through, front-baffle mounted Accepts 18 AWG (0.8 mm²) to 14 AWG (2.5 mm²) size wire | |
| Wire/Conduit Entry | Top and side wire entry-point 12.7 mm (1/2 in) knockouts allow for 9.5 mm (3/8 in) conduit and fittings | |
| Suspension/Mounting | Two (2) standard mounting arms plus one (1) safety cable tab | |
| Maximum Ceiling Thickness | 38 mm (1.5 in) | |
| Product Dimensions (Baffle Diameter × Depth) | 182 × 132 mm (7.2 x 5.2 in) | |
| Backcan Dimensions (Diameter × Depth) | 127 × 125 mm (5.0 x 4.9 in) | |
| Ceiling Cutout | 160 mm (6.3 in) | |
| Net Weight, Loudspeaker with Grille (Single) | 1.63 kg (3.6 lb) | |
| Shipping Weight (Pair) | 4.4 kg (9.7 lb) | |
| Included Accessories | Each FS2C includes one (1) cutout template per box | |
| Optional Accessories | Adjustable Tile Bridge (6-pack), DesignMax DM2CRI Rough-in kit (6-pack), Retrofit Kit (2-pack), Ceramic terminal w/ Fuse kit | |
| PRODUCT CODES | | |
| 841154-0310 | FREESPACE FS2C PAIR BLK | |
| 841154-0410 | FREESPACE FS2C PAIR WHT | |

Footnotes

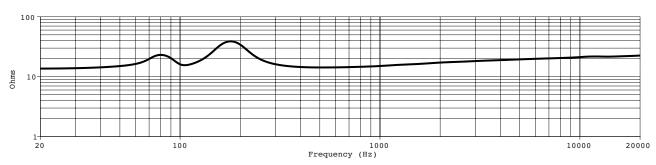
Footnotes (1) Frequency response and range measured on-axis in half-space environment with recommended EQ (2) Sensitivity measured on-axis in half-space environment averaged 100 Hz – 10 kHz using recommended high-pass protection (3) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression (4) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration (5) AES standard 2-hour duration with IEC system noise (6) Measured in whole-space environment

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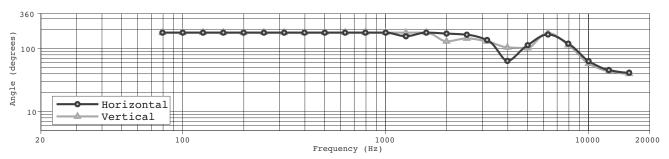
On-Axis Frequency Response



Impedance

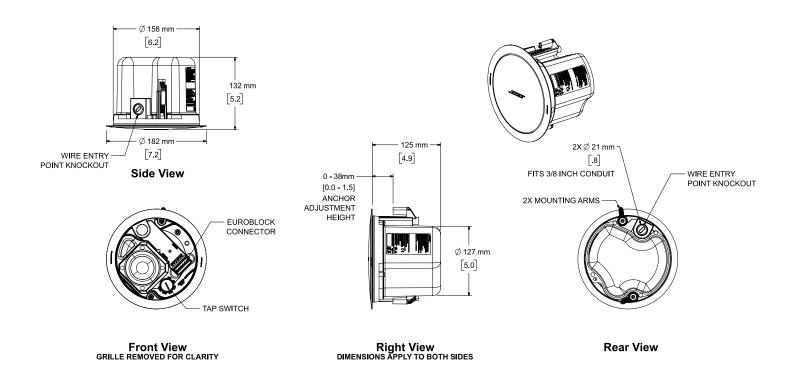


Beamwidth⁶



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Dimensions



NOTES: 1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES 2. WEIGHT APPROX 1.63kg [3.60lbs]