

# FreeSpace FS2SE

## surface-mount 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 FS2SE is a surface-mount model with a full-range 2.25-inch transducer, low frequency range down to 83 Hz, and sensitivity of 87 dB SPL / 1W @ 1 m.

**Product update:** New models are UL 1480A-certified. See the FS2SE product page at [BoseProfessional.com](https://www.boseprofessional.com) for details.



### 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-and-match 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** — EN 54-24 for Voice Alarm Systems for Fire Detection and Fire Alarm Systems for Buildings

**Bring quality sound to more places with the FS2SE** — rated for outdoor, wet installations

### Technical Specifications

SINGLE LOUDSPEAKER PERFORMANCE		
Frequency Response (-3 dB) <sup>1</sup>	95 – 16,000 Hz	
Frequency Range (-10 dB) <sup>1</sup>	83 – 19,000 Hz	
Nominal Coverage Angle (1 – 4 kHz)	145° × 140°	
Nominal Coverage (1 – 10 kHz)	130° × 130°	
	<b>AES transducer test <sup>4</sup></b>	<b>Bose Professional extended-lifecycle test <sup>5</sup></b>
Power Handling, Long-term Continuous	20 W	16 W
Power Handling, Peak	80 W	64 W
Sensitivity SPL / 1 W @ 1 m <sup>2</sup>	87 dB	87 dB
Calculated Maximum SPL @ 1 m <sup>3</sup>	100 dB	99 dB
Calculated Maximum SPL @ 1 m, Peak	106 dB	105 dB
Loudspeaker EQ	No Bose Professional EQ required when speaker used for general use. Bose Professional EQ Voicing and SmartBass available. EN 54-24 equalization is required for EN 54-24 use; refer to installation guide 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	

For additional specifications and application information, please visit [BoseProfessional.com](https://www.boseprofessional.com). Specifications subject to change without notice. 10/2024

## TECHNICAL DATA

# FreeSpace FS2SE

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<b>TRANSDUCERS</b>	
Full-Range Driver	1 × 2.25-inch woofer (57 mm)
Nominal Impedance	16 ohms (transformer bypass)
<b>PHYSICAL</b>	
Enclosure Material	Engineered plastics, highly UV fade-resistant
Bracket Material	Powder-coated steel
Grille	Perforated steel, powder-coated finish, tamper-resistant design
Logo	Rotatable, removable
Color	Black (similar to RAL 9005), White (similar to RAL 9003)
Environmental/Ingress Protection <sup>6</sup>	Rated for direct-exposure outdoor installations (IP55 per EN 60529; IP33C per EN 54-24). Suitable for use outdoors in wet locations. Includes weather-resistant input cover. Optional accessory aluminum grille for harsh environments to prevent red corrosion is available.
Safety Agency	Certification: EN 54-24: 2008 for Voice Alarm Systems; UL 1480(A). For EN 54-24 specifications, refer to installation guide. EN 54-24 equalization required for EN 54-24 use. Installation: NFPA 70, NFPA 72, CSA C22.1 Section 32.
Operating Temperature Range	-25 °C to 70 °C (-13 °F to 158 °F)
Connectors	Euroblock 6-pin connector with loop-through, mounted on rear. Accepts 18 AWG (0.8 mm <sup>2</sup> ) to 14 AWG (2.5 mm <sup>2</sup> ) size wire. Includes input cover.
Suspension/Mounting	External U-bracket with bracket screws and two (2) screw inserts for use with optional surface-mount pan-and-tilt bracket or CMB S2 ceiling-mount bracket. 7 preset mounting angles: 0°, +15°, +30°, or +45° for wall or ceiling placement Safety cable can be used with either of two (2) side M5 inserts.
Dimensions (H × W × D)	182 × 113 × 114 mm (7.1 × 4.4 × 4.5 in)
Dimensions with Bracket (H × W × D)	196 × 113 × 135 mm (7.7 × 4.4 × 5.3 in)
Net Weight, Loudspeaker with Grille & Bracket (Single)	1.43 kg (3.15 lb)
Shipping Weight (Pair)	4.17 kg (9.2 lb)
Included Accessories	Each FS2SE includes one (1) logo for vertical orientation, one (1) U-Bracket and one (1) weather-resistant input cover
Optional Accessories	Aluminum grille kit (2-pack), surface-mount pan-and-tilt bracket, CMB S2 ceiling mount bracket, ceramic terminal and fuse kit (10-pack)
<b>PRODUCT CODES</b>	
Black, UL 1480	841151-0310 FREESPACE FS2SE PAIR BLK
Black, UL 1480A	841151-0320 FREESPACE FS2SE PAIR BLK
White, UL 1480	841151-0410 FREESPACE FS2SE PAIR WHT
White, UL 1480A	841151-0420 FREESPACE FS2SE PAIR WHT

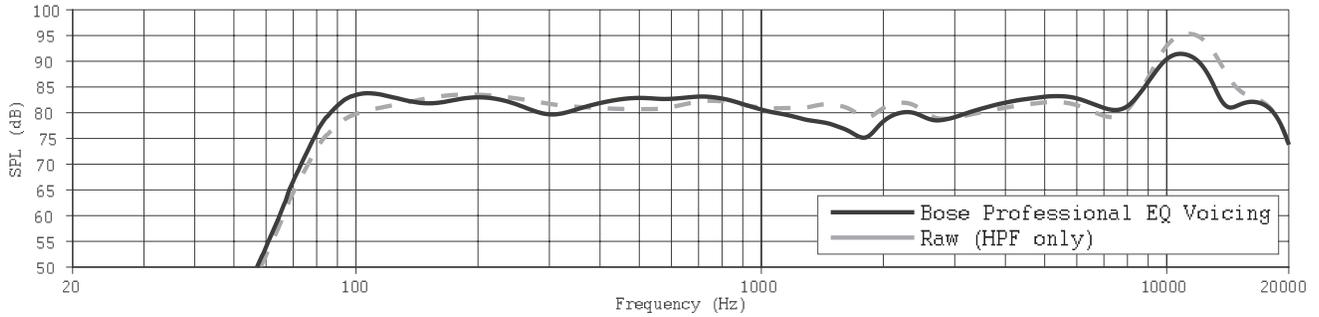
### Footnotes

1. Frequency response and range measured on-axis in whole-space environment with recommended EQ.
2. Sensitivity measured on-axis in whole-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. AES standard 2-hour duration with IEC system noise.
5. Bose Professional extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
6. Tested to IP55 per EN 60529 when used in General Purpose Audio applications. Tested to IP33C per EN 54-24 for fire and evacuation notification applications.

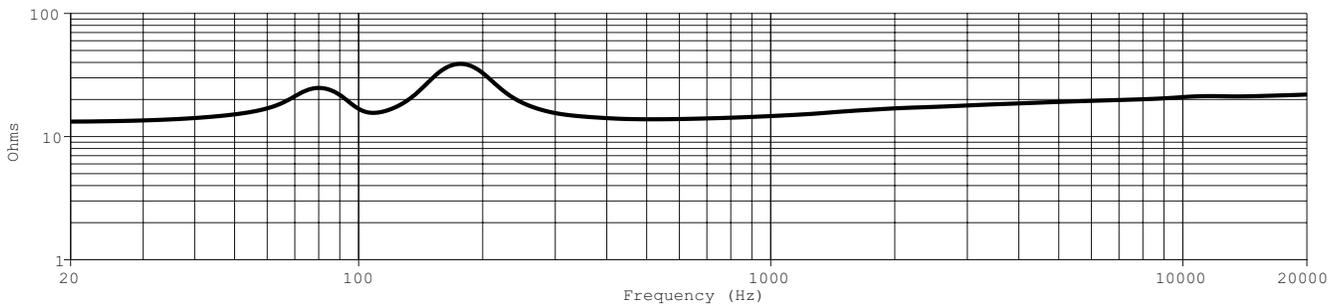
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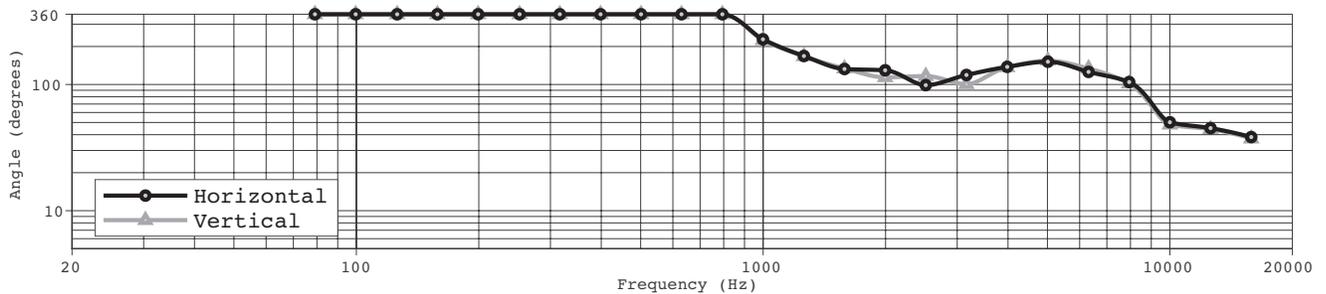
## On-axis Response



## Impedance



## Beamwidth<sup>7</sup>



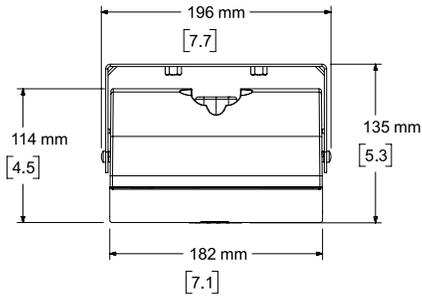
7. Measured in whole-space environment.

TECHNICAL DATA

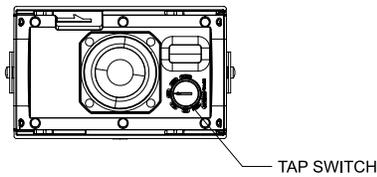
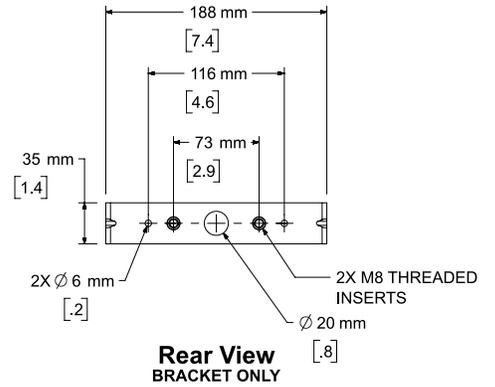
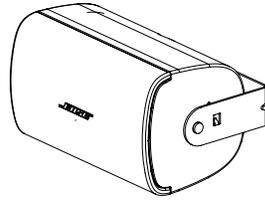
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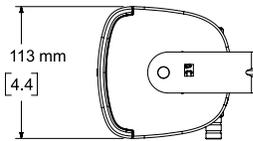
## Dimensions<sup>8</sup>



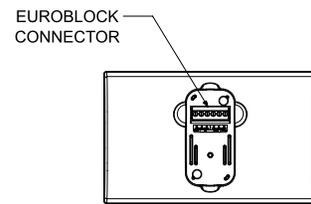
**Top View**



**Front View**  
GRILLE REMOVED FOR CLARITY



**Right View**  
DIMENSIONS APPLY TO BOTH SIDES



**Rear View**  
BRACKET/CAP REMOVED FOR CLARITY

8. Dimensions are shown in millimeters over inches.

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