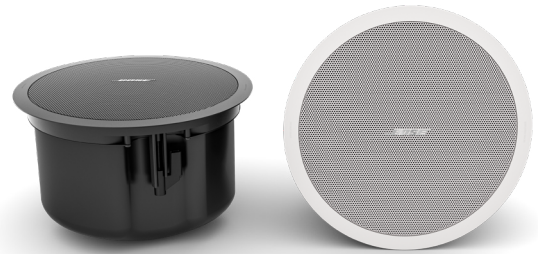# FreeSpace FS4CE
in-ceiling loudspeaker

PROFESSIONAL

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 FS4CE is an in-ceiling model with a full-range 4.5-inch transducer, low frequency range down to 70 Hz, and sensitivity of 88 dB SPL / 1W @ 1m.

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 — 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

Bring quality sound to more places with the FS4CE — rated for outdoor, wet installations

Technical Specifications

SINGLE LOUDSPEAKER PERFORMANCE		
Frequency Response (-3 dB) [1]	80 – 16,000 Hz	
Frequency Range (-10 dB) [1]	70 – 17,000 Hz	
Nominal Coverage Angle (1 - 4 kHz)	145°	
Nominal Coverage (1 – 10 kHz)	115°	
	AES transducer test [5]	**Bose Professional extended-lifecycle test [4]**
Power Handling, Long-term Continuous	50 W	40 W
Power Handling, Peak	200 W	160 W
Sensitivity SPL / 1W @ 1m [2]	88 dB	88 dB
Calculated Maximum SPL @ 1 m [3]	105 dB	104 dB
Calculated Maximum SPL @ 1 m, Peak	111 dB	110 dB
Loudspeaker EQ	Not required, Bose Professional EQ voicing and SmartBass available	
Recommended High-Pass Protection	70 Hz with minimum 24-dB/octave filter	
Transformer taps	70V: 2.5, 5, 10, 20, 40 W, bypass	
	100V: 5, 10, 20, 40 W, bypass	
TRANSDUCERS		
Full-Range Driver	1 × 4.5-inch woofer (114 mm)	
Nominal Impedance	8 ohms (transformer bypass)	

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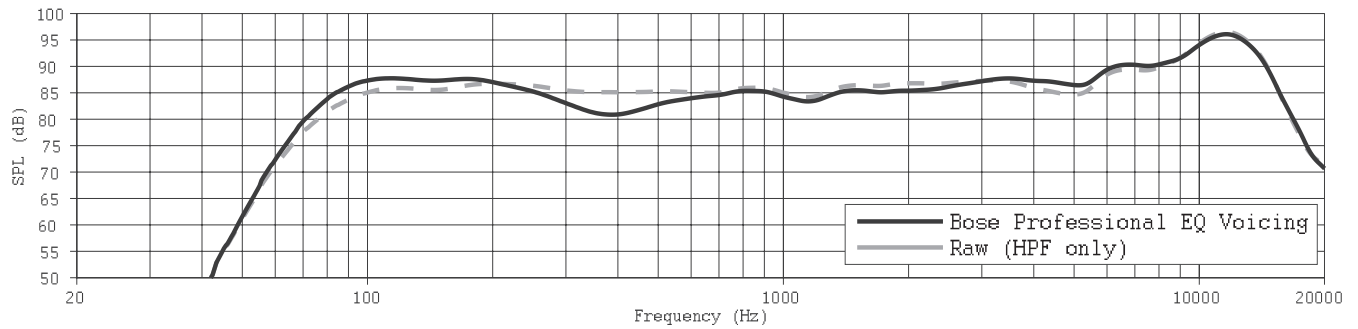| PHYSICAL	
Enclosure Material	Engineered-plastics front baffle, highly UV fade-resistant, with integrated steel-formed backcan
Grille	Perforated steel, powder-coated finish
Logo	Rotatable, removable
Color	Black (similar to Ral 9005), White (similar to Ral 9003)
Environmental/Ingress Protection [6]	Rated for direct-exposure outdoor installations (IP55 per EN60529; IP33C per EN54-24). Suitable for use in outdoors in wet locations and suitable for use in plenum locations. Includes weather-resistant input cover. Optional accessory aluminum grille for harsh environments to prevent red corrosion is available.
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 installation. Installation: NFPA 70, NFPA 72, CSA C22.1 Section 32 For EN54-24 specifications, refer to FS4CE EN 54-24 Certified Ratings document on boseprofessional.com. EN54-24 equalization required for EN54-24 use.
Operating Temperature Range	-25 °C to 70 °C (-13 °F to 158 °F)
Connectors	Euroblock 6-pin connector with loop-through, mounted on top. Accepts 18 AWG (0.8 mm2) to 14 AWG (2.5 mm2) size wire. Includes input cover.
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	Three (3) standard mounting arms plus one (1) safety cable tab
Maximum Ceiling Thickness	38 mm (1.5 in)
Product Dimensions (Baffle Diameter × Depth)	272 × 172 mm (10.7 × 6.8 in)
Backcan Dimensions (Diameter × Depth)	220 × 163 mm (8.7 × 6.4 in)
Ceiling Cutout	249 mm (9.8 in)
Net Weight, Loudspeaker with Grille (Single)	3.47 kg (7.65 lb)
Shipping Weight (Pair)	9.05 kg (19.95 lb)
Included Accessories	Each FS4CE includes one (1) weather-resistant input cover, one (1) cutout template per box
Optional Accessories	Adjustable Tile Bridge (6-pack), DesignMax DM2CRI Rough-in Pan (6-pack), Retrofit Kit (2-pack), Ceramic Terminal and Thermal Fuse Kit (10-pack), Aluminum Grille kit (2-pack)
PRODUCT CODES	
841156-0310	FREESPACE FS4CE PAIR BLK
841156-0410	FREESPACE FS4CE PAIR WHT

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 Professional 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) Tested to IP55 per EN60529 when used in General Purpose Audio applications. Tested to IP33C per EN 54-24 for fire and evacuation notification applications
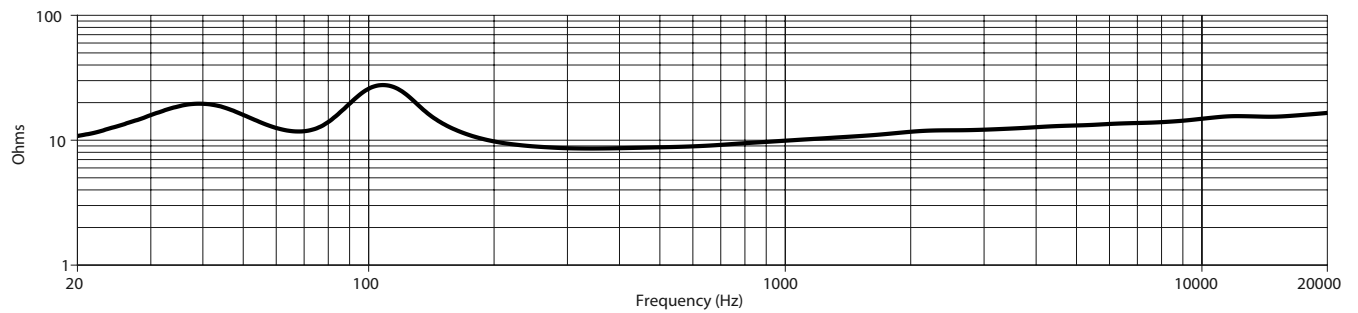(7) Measured in whole-space environment

FreeSpace FS4CE
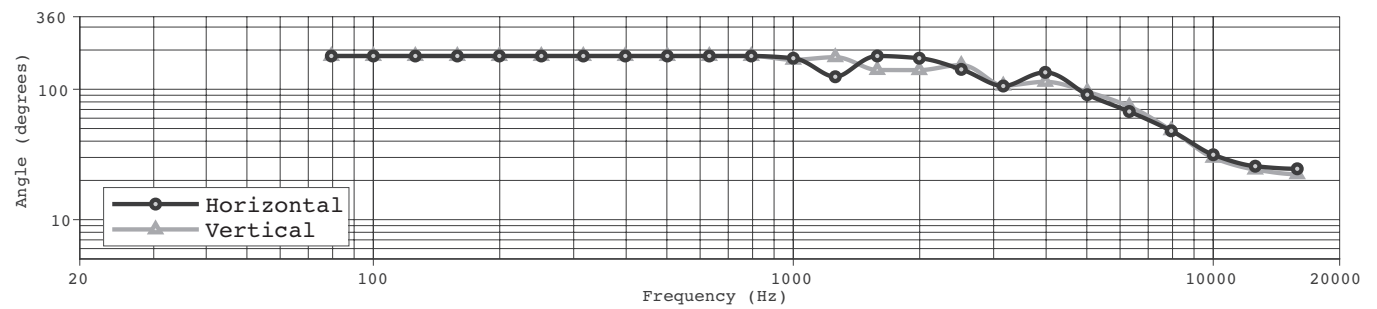## in-ceiling loudspeaker
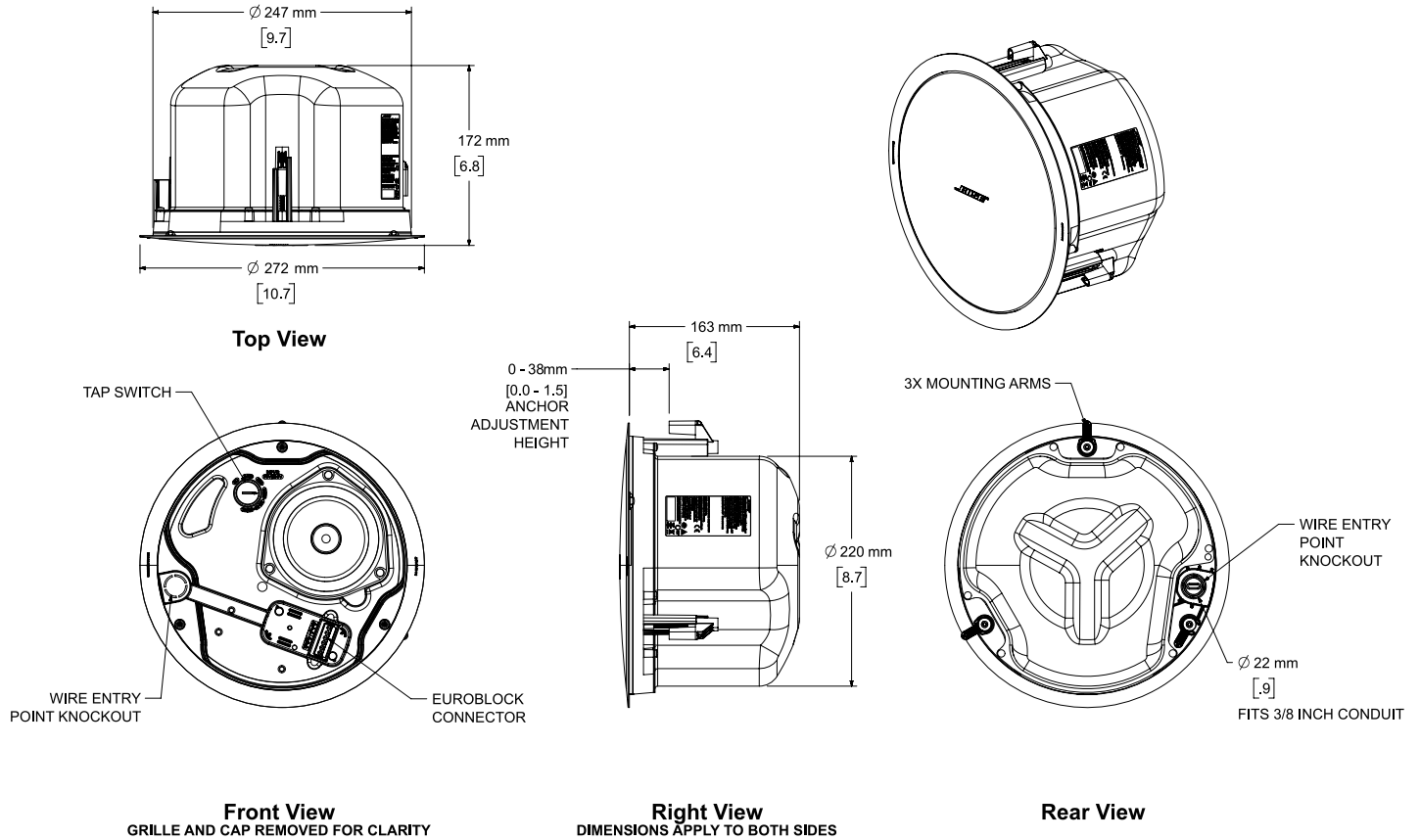
On-Axis Frequency Response

Impedance

Beamwidth[7]

FreeSpace FS4CE
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Dimensions

Ø 247 mm [9.7]

172 mm [6.8]

Ø 272 mm [10.7]

Top View

TAP SWITCH

WIRE ENTRY POINT KNOCKOUT

EUROBLOCK CONNECTOR

Front View
GRILLE AND CAP REMOVED FOR CLARITY

163 mm [6.4]

0 - 38mm [0.0 - 1.5] ANCHOR ADJUSTMENT HEIGHT

Ø 220 mm [8.7]

Right View
DIMENSIONS APPLY TO BOTH SIDES

3X MOUNTING ARMS

WIRE ENTRY POINT KNOCKOUT

Ø 22 mm [.9]

FITS 3/8 INCH CONDUIT

Rear View

NOTES:
1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES
2. WEIGHT APPROX 3.47kg [7.65lbs]