

# Control 442C/T

Premium Coverage Series – Compact Satellite Ceiling Loudspeaker



## SPEC SHEET



Shown both with and without included white, round grille.

## KEY FEATURES ■

- 60mm (2.5in) full range driver
- Stylish bezel-less grille blends elegantly into room design
- Very broad 160° coverage pattern
- 130 Hz – 20 kHz frequency range
- 16Ω driver and 12W transformer for use with 70V/100V distributed systems

## HIGHLIGHTS ■

Part of the Control 400 collection's Premium Coverage Series, the JBL Control 442C/T is an ultra-compact in-ceiling professional satellite loudspeaker designed for use with the Control 440CS/T in-ceiling subwoofer. When combined with the Control 440CS/T, the Control 442C/T offers an extremely refined, natural, and powerful sounding subwoofer-satellite system that is ideal for applications requiring wide bandwidth, superior sonic performance, and minimal visual impact.

The stylish bezel-less grille fits seamlessly into a variety of architectural aesthetics. The integrated backcan on the Control 442C/T combined with the C-ring support backing plate allows for quick and easy installation of the unit.

The system's 60 mm (2.5 in) mid/high driver features a polypropylene cone and pure butyl rubber surround for long life. The copper-clad aluminum voice coil wound on a vented aluminum former offers low distortion.

The 16Ω impedance allows paralleling up to 4 speakers on a 4Ω capable amplifier. For distributed systems, the UL-registered transformer is designed for exceptionally low-saturation, even at high drive levels, providing top quality, low distortion distributed sound character.

The Control 442C/T must be operated with either an active high-pass filter or a passive crossover, such as the one built into the Control 440CS/T subwoofer, to protect it against damage from low frequencies. Because of the very light weight of Control 442C/T, tile rails may not be required for many in-ceiling applications. They are not packaged with this model, however MTC-RAIL tile rail sets are available separately. Housed in a compact package, the lightweight Control 442C/T features an elegant, unobtrusive design and is ideal for both small and large projects alike.

The speaker is packaged with grille, integral backcan, and c-ring for fast installation. The included white grille is paintable (grille backing is removable and re-applicable for painting), and optional accessory grilles are available in black (JBL-MTC-442BG) and in square (JBL-MTC-442SG, white only).

The Control 442C/T is UL 1480A and UL 2043 listed.

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### SPECIFICATIONS ■

#### SYSTEM

Frequency Range (-10 dB) <sup>1</sup> :	130 Hz – 20 kHz
Frequency Response ( $\pm 3$ dB) <sup>1</sup> :	178 Hz – 20 kHz
Power Capacity <sup>2</sup> :	45 W Continuous Program (2 hrs.) 22.5 W (90 W Peak), Continuous Pink Noise (2 hrs.) 15 W (60 W Peak) Continuous Pink Noise Power (100 hrs.)
Sensitivity:	86 dB
Nominal Coverage Angle <sup>3</sup> :	160° conical
Directivity (Q) <sup>3</sup> :	2.9
Directivity Index (DI) <sup>3</sup> :	4.6 dB
Rated Maximum SPL @ 1m <sup>4</sup> :	99.5 dB continuous pink noise (105.5 dB peak)
Nominal Impedance:	16Ω
Minimum Impedance:	13.3Ω at 570 Hz
Transformer Taps:	70 V: 12 W, 6 W & 3 W 100 V: 12 W, 6 W
Recommended Protective High-Pass Filter Frequency:	120 Hz (24 dB/oct LR)
Transformer Insertion Loss:	0.7 dB @ 3 W; 0.7 dB @ 6 W; 0.7 dB @ 12 W
Maximum Input Voltage:	17.3 V RMS, 34 V peak (2 hrs at 16Ω input)
Safety Agency Ratings:	Suitable for use in air handling spaces per UL 2043, NFPA 90A & NFPA 70. S7232/UL Listing per UL 1480A Speakers for Commercial and Professional Use. Listed per CSA C22.2, no. 205 Signal Equipment. Transformer UL registered.

#### TRANSDUCERS:

Full-Range Driver	60 mm (2.5 in) with paper cone, Nitrile-butadiene rubber surround, CCAW coil, vented Polyimide former
<b>ENCLOSURE</b>	
Enclosure Material	Backcan: Powder-coated formed steel Baffle: PC/ABS, flammability rated UL 94 5VB
Grille:	Bezel-less, SPCC grille with powder-coat finish, decorative minimal-edge trim, flammability-rated backing (removable and re-applicable for painting). Stock grille is white (RAL9003), round. Black (RAL9004) round and white square available as optional accessories. Safety tether with tether stake pre-attached to grille.
Termination:	Two removable locking euro-block 2-pin connectors with screw-down terminals for bare wire. Connectors paralleled for input and loop-thru. Min. wire 20 AWG (0.5 mm <sup>2</sup> ); Max. wire 12 AWG (3.3 mm <sup>2</sup> ). Terminal cover hinged with 1 captive screws for attachment (no loose hardware).

Wire Entrance/Exit Location:	Multi-use strain relief (for wires or flex conduit) provided. Optional positioning on either top panel (for easiest installation through ceiling cutout) or side of backcan (for lowest depth profile above ceiling).
Attachment Fastening:	2 dog-ear attachment tabs for ceiling thicknesses between 1 mm and 70 mm ceiling board thickness.
Reinforcing Brackets:	Zinc-plated C-ring included for additional support above ceiling. Additional safety tab on backcan for secondary safety cable.
Dimensions (H x Dia):	138 mm (5.4 in) H x 131 mm (5.2 in) dia. 129 mm (5.1 in) from bottom of ceiling tile to top of backcan (with wire exit positioned on side of backcan).

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### SPECIFICATIONS (Cont.) ■

#### ENCLOSURE (Cont.)

Ceiling Cutout Size:	104 mm (4.1 in)
Net Weight (each):	1.1 kg (2.43 lbs)
Shipping Weight (pair-packed in carton):	3.22 kg (7.1 lbs)
Included Accessories (per speaker):	Two 2-pin removable locking euro-block connectors, 1 cable strain relief, white round bezel-less grille (with pre-attached safety tether and tether clip), cutout template (labeled part of the packaging), C-ring, C-ring/tile-rail screws, 1 seal cover, 2 rubber boots.
Optional Accessories:	JBL-MTC-442BG black (RAL9004) round grille JBL-MTC-442SG white (RAL9003) square grille JBL-MTC-442NC new construction bracket JBL-MTC-442MR mud-ring construction bracket JBL-MTC-48TRX4 tile rail for 4' x 4' ceiling tiles
Colors:	Stock grille is white (RAL9003), paintable.
SKU #:	JBL-C442C/T

<sup>1</sup> Half-space (mounted in ceiling, 2π, half-space of free field), with no high-pass filter.

<sup>2</sup> Continuous Pink Noise rating is IEC-shaped pink noise with a 6 dB crest factor for 100 hours and 2 hours continuously. Continuous Program power is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise Rating.

<sup>3</sup> Half-Space (mounted in ceiling, 2π, half-space of free field), average 1 kHz to 6 kHz.

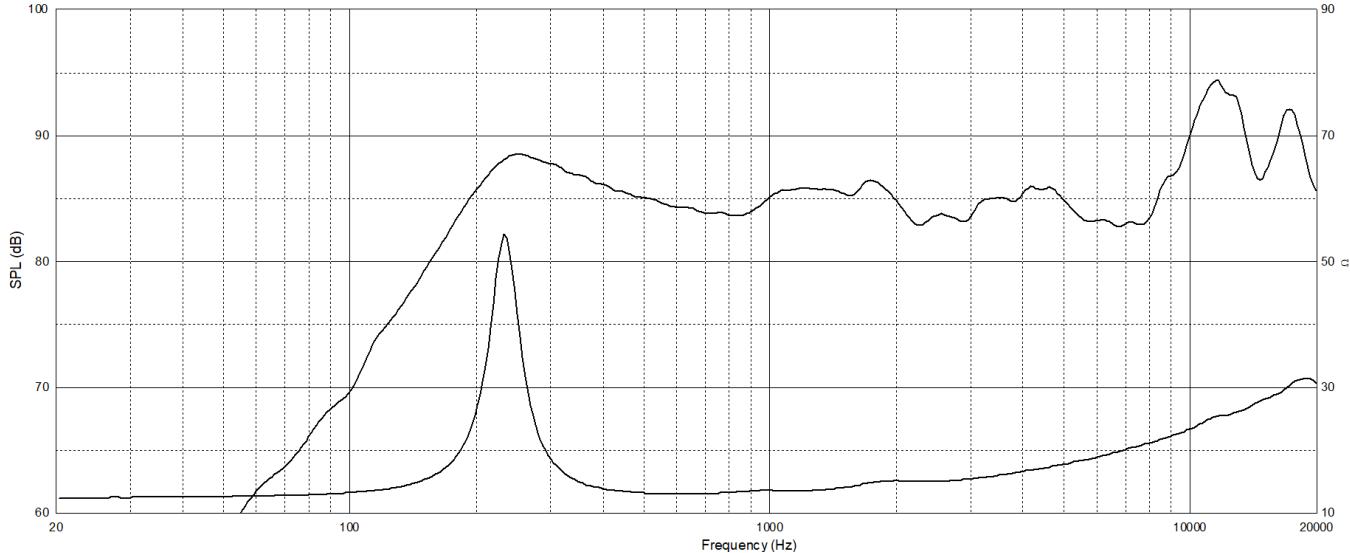
<sup>4</sup> 16Ω mode, calculated from sensitivity and 2 hr power handling, exclusive of power compression.

For additional information, see Control Contractor 440 Series Ceiling Loudspeakers Owner's Manual, C440\_CLGSPKMAN.

JBL continuously engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

### FREQUENCY RESPONSE & IMPEDANCE ■

Half-space, 8Ω, on-axis (typical for coverage area)



# Control 442C/T

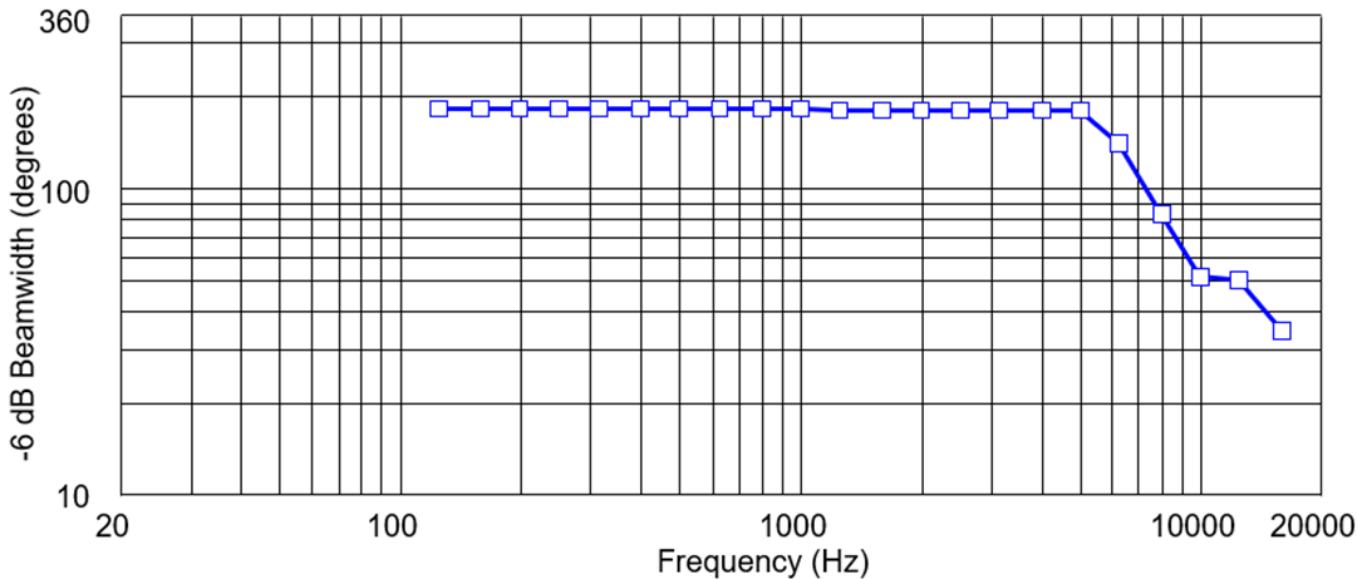


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### BEAMWIDTH ■

-6 dB coverage by frequency



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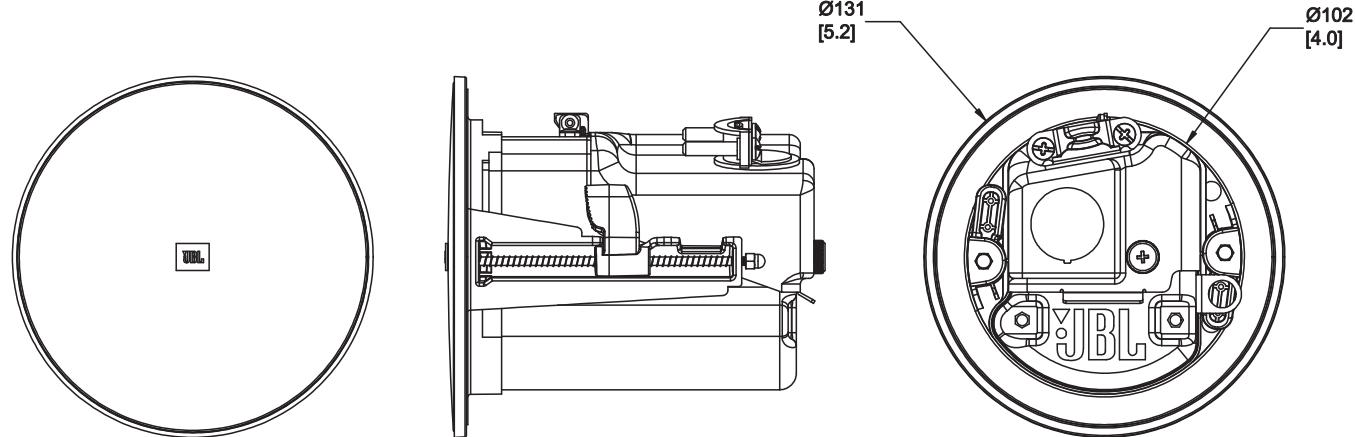
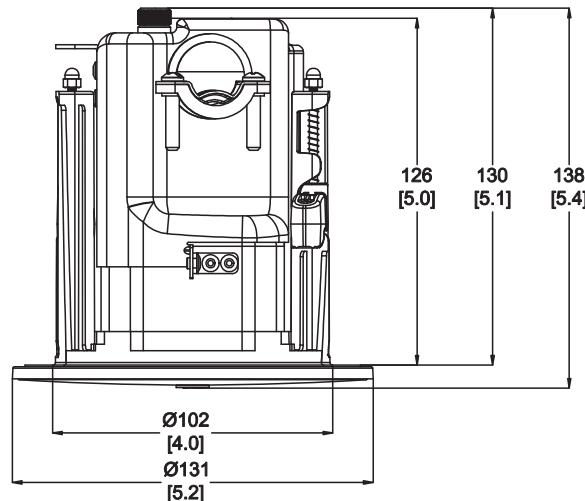
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### DIMENSIONS

Dimensions in mm (in)



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