

# Self-Amplified Metal Box Speakers



Models  
**AMBSQ1, AMBSL1**



**AMBSQ1**  
Shown with  
Volume Knob Attached

**AMBSL1**  
Shown with Volume  
Knob detached

## Description

Bogen's AMBSQ1 and AMBSL1 speakers feature an all-steel surface-mounted enclosure with an 8" cone loudspeaker, built-in 1W amplifier, and volume control. The AMBSQ1 is suitable for ceiling or wall mounting. The AMBSL1 is designed primarily for wall mounting and its face is angled downward by 12.5 degrees. A detachable volume control knob on the grille allows individual adjustment of paging level at each speaker location.

## Features

- Rugged all-steel surface-mounted enclosure
- Full-range 8" cone speaker for excellent intelligibility
- Self-contained 1-watt amplifier
- Interfaces with standard 600-ohm telephone line
- Built-in volume control with detachable knob
- Knockouts for Wiremold®
- Mounting hardware included (toggle bolts, wood screws, pluggable screw terminals, volume knob)

## Technical Specifications

Cone Diameter:	8" (paper)
Magnet Weight:	6 oz.
Power Rating (max.):	1W
Typical Operational Current:	1 CU (50 mA)
Supply Voltage:	24V DC
Frequency Response:	110 Hz to 15 kHz
Input Impedance:	2000 ohms
Typical Input Sensitivity:	125 mV
Maximum Sound Pressure Level:	92 dB @ 1 Meter on axis, 1W output
Dispersion (min.):	100°
Product Weight:	9 lb.
Enclosure Size:	AMBSQ1 - 11-5/8" W X 11-5/8" H X 4-1/4" D; AMBSL1 - Top: 11-5/8" W X 11-3/8" H X 5-3/8" D; Bottom: 11-5/8" W X 11-3/8" H X 3-1/8" D
Construction:	Painted steel enclosure

## Architect & Engineer Specifications

The speaker shall be a Bogen Model \_\_\_\_ (specify AMBSQ1 or AMBSL1) amplified loudspeaker, or equivalent, utilizing an 8" cone and a built-in amplifier with volume control. The frequency response shall be 110 Hz to 15 kHz.

For all models sensitivity shall be 125 mV and input impedance shall be 2000 ohms. The loudspeaker shall be powered by a suitable 24V DC power supply and shall consume 1 CU (50 mA) at typical operational levels. Sound pressure level, measured 1 meter on axis with 1W output shall be at least 92 dB.

The speaker enclosure shall be full steel construction

and allow for surface mounting. The enclosure shall be painted off-white and measure \_\_\_\_ (specify 11-5/8" W X 11-5/8" H X 4-1/4" D for AMBSQ1 or 11-5/8" W X 11-3/8" H X 5-3/8" D [top] and 11-5/8" W X 11-3/8" H X 3-1/8" D [bottom] for AMBSL1). The speaker enclosure shall also provide Wiremold® knockouts. Product weight shall be 9 lb.

### AMBSL1

Front face shall be angled downward by 12.5 degrees.

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