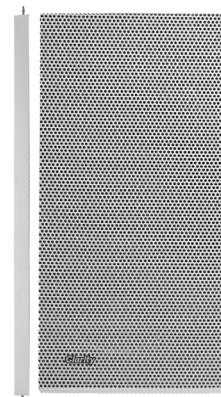


# Technical Specifications

## S-521B 1ft x 2ft Lay-in Ceiling Speaker

- Integral backbox with three hour burn rating
- Easy lay-in mounting
- 25/70 Volt transformer
- Scuff resistant perforated grille
- Durable white acrylic baked enamel finish
- Volume control
- Indoor use
- Includes V-TBAR for mounting
- UL and cUL listed



25/70 Volt  
one-way/talkback compatible

### Description:

The inconspicuous S-521B Lay-in Ceiling Speaker is a fast and easy to install in suspended ceilings. The speaker provides excellent music and voice reproduction. The integral backbox has a three-hour burn test rating (UL181), and the rugged, lightweight construction eliminates the need for support bars. The speaker assembly features a perforated steel grille finished with a durable white baked-on acrylic enamel finish and an 8in full range speaker with a transformer that operates on 25- and 70-volt speaker lines. The S-521B includes a volume control that is accessible through the perforated grille using a standard 1/8in screwdriver.

## SPECIFICATIONS

### SPEAKER

8in (20.32cm)

### MAGNET WEIGHT

5oz

### MAGNET MATERIAL

Ceramic

### VOICE COIL

8 Ohm

0.75in (1.91cm) Dia

### SOUND PRESSURE LEVEL

95 dB at 1 meter on axis with 1-Watt input at 1 kHz

### POWER RATING

5-Watts continuous

### LINE TRANSFORMER

Combination 25/70 volt

### TRANSFORMER TAPS

5, 2.5, 1.25, 0.625 and 0.312 Watts

### FREQUENCY RESPONSE

70 Hz to 17 kHz

### HOUSING AND FINISH

Steel housing with a white baked on acrylic enamel finish

### ENVIRONMENT

Temperature: 32 to 122 °F (0 to 50 °C)

Humidity: 0 to 85% non-precipitating

### DIMENSIONS AND WEIGHT

11.75in H x 23.75in W x 3.75in D

(29.85cm x 60.33cm x 9.53cm)

Weight: 4.70lbs (2.13kg)

Shipping Weight: 8.20lbs (3.72kg)

2024 Rev.5.6.5

# Technical Specifications

## ARCHITECTS AND ENGINEERS

The Lay-in Ceiling Speaker, model S-521B, shall consist of a white 1ft x 2ft perforated grille, speaker, combination 25/70 volt 5-watt transformer, and integral backbox. The VE521B shall include a volume control accessible through the perforated grille using a standard 1/8in screwdriver.

The S-521B Lay-in Ceiling Speaker may be used as a one-way or two-way (talkback) speaker. This functionality is determined by the equipment used to source audio to/from the speaker.

The S-521B Lay-in Ceiling Speaker shall be 8in (20.32cm) in diameter and have a 5oz. ceramic magnet. The 8-inch speaker cone material shall be paper. The S-521B speaker impedance shall be 8 Ohms. The diameter of the voice coil shall be 0.75in (1.91cm) diameter. The S-521B speaker shall be capable of handling 5-Watts continuous power. The sound pressure level at 1 meter on the axis with a 1-watt

input shall be 95 dB. The frequency response shall be 70 Hz to 17 kHz.

The S-521B line transformer shall be capable of operating on a 25 or 70-volt line and provide 5-wattage taps. The tap settings shall range from 0.3 watts to 5 watts.

The S-521B Lay-in Ceiling Speaker baffle shall be constructed with a single piece of perforated steel with a white baked-on acrylic enamel finish. The backbox meets or exceeds A.S.T.M. E84 flame and smoke test and has a three-hour burn rating (UL181). The S-521B is suitable for indoor applications. V-TBAR is included for mounting.

The maximum dimensions of the grille shall be 11.75in H x 23.75in W x 3.75in D. (29.85 cm x 60.33cm x 9.53cm). Weight shall be approximately 4.70lbs (2.13kg).

The S-521B shall be UL and cUL listed.

Warranty information may be found on our website at [www.valcom.com/warranty](http://www.valcom.com/warranty).