

### FEATURES:

- REPLACES A 2' x 2' OR ½ OF A 2' x 4' CEILING TILE
- 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
- PACKAGED TWO (2) PER BOX



### DESCRIPTION:

This inconspicuous Lay-in Speaker can be installed in suspended ceilings in minutes. 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's white perforated grille blends into the ceiling by providing the appearance of a standard air return. The speaker assembly features a perforated steel grill finished with a durable white baked on acrylic enamel finish, an 8" full range speaker, a volume control and a transformer that operates on 25 and 70 volt speaker lines. The volume control is accessible through the perforated grille using a standard 1/8" screwdriver.

### Specifications:

#### SPEAKER

8" (20.32 cm) Speaker

#### MAGNET WEIGHT

5 oz.

#### MAGNET MATERIAL

Ceramic

#### VOICE COIL

8 ohm  
3/4" (.34 cm) dia.

#### SOUND PRESSURE LEVEL

95 dB at 1 Meter on Axis With 1 Watt Input at 1 kHz

#### LINE TRANSFORMER

Combination 25/70 Volt

#### TRANSFORMER TAPS

5, 2.5, 1.25, .75 and .35 Watts

#### FREQUENCY RESPONSE

70 Hz to 17 kHz

#### POWER RATING

5 Watts Continuous

#### HOUSING AND FINISH

Steel housing with a white baked on acrylic enamel finish

#### ENVIRONMENT

Temperature: 0 to 50 °C (32 to 122 °F)  
Humidity: 0 to 85% Non-Precipitating

#### DIMENSIONS AND WEIGHT

24" (60.96 cm) L x 24" (60.96 cm) W Weight: 5.5 lbs.  
(1.82 kg)



## Technical Specification

# 2' x 2' LAY-IN CEILING SPEAKER MODEL S-522B-2

## ARCHITECTS' AND ENGINEERS

The Model S-522B-2 Lay-in Ceiling Speaker shall consist of a white two foot by two foot perforated grille, a speaker, combination 25/70 volt 5 watt transformer and integral backbox. They are packaged two (2) per box.

The speaker shall be 8" (20.32 cm) in diameter and have a 5 oz. ceramic magnet. The 8" speaker cone material shall be paper. The speaker impedance shall be 8 ohms. The diameter of the voice coil shall be 3/4" (.34 cm) diameter. The speaker shall be capable of handling 5 watts continuous power. Sound pressure level at 1 meter on axis with a 1 watt input shall be 95 dB. The frequency response shall be 70 Hz to 17 kHz.

The 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 line transformer shall be capable of operating on 25 or 70 volt speaker lines and provides 5 wattage adjustments. The wattage adjustments shall range from 5 watts to .35 watts and be made via wire taps that are accessible via the metal electrical box on the rear of the speaker backbox. A volume control for level adjustment is accessible through the grille using a standard 1/8" screwdriver.

Maximum dimensions of the grill shall be: Baffle 2' x 2' (60.96 cm x 60.96 cm). Weight shall be approximately 5.5 lbs (1.82 kg).

The Lay-in Ceiling Speaker assembly shall be Model S-522B-2 manufactured by Clarity.

### CLARITY LIMITED WARRANTY

Clarity warrants its products only to the original purchaser, for its own use, to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. This Limited Warranty obligation shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Clarity indicates the validity of the claim;
2. the defect is not the result of damage, misuse or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge plus parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Clarity are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

**This Limited Warranty is in lieu of and excludes all other warranties, expressed or implied and in no event shall Clarity be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, maintenance, installation, removal or use of the product. The maximum liability of Clarity under this warranty is limited to the purchase price of the specific Product covered by the warranty.**

**Disclaimer.** Except for the Limited Warranty provided herein, the product is provided "as-is" without any warranty of any kind whatsoever including, without limitation, any **WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

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