

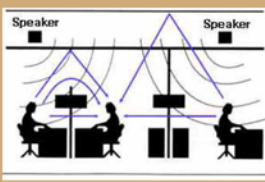
**AVLELEC**  
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# ST2416S Series

24" x 24" Hemispherically-Radiating SpeakerTile®





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The AVLELEC ST2416S SpeakerTile® is a remarkable combination of wide bandwidth, wide dispersion, and a highly-refined aesthetic presentation, designed for commercial installations. It is part of a unique family of truly invisible distributed sound products from AVLELEC. All ST2416S SpeakerTile models are available in several mounting options, allowing them to be easily installed into standard T-bar suspended ceiling systems, completely replacing a standard 2 ft x 2 ft ceiling tile.

The ST2416S is available in six different models, featuring a selection of standard 3-dimensional patterns or factory-applied surface finishes that allow a match with most common suspended ceiling tile patterns. The white Expanded PolyStyrene (EPS) front surface of the SpeakerTile allows all models to optionally be finished on-site with any water-soluble finish, such as latex paint, or covered with light wallpaper, fabrics and selected texture coats,\* further enhancing the SpeakerTile's ability to blend invisibly with almost any interior design choice. Patented Planar Diaphragm Technology™ allows a ST2416S that has been properly installed in a suspended ceiling to radiate sound in a 140° hemispherical pattern with smooth, even coverage. This dispersion characteristic allows ST2416S speakers to be spaced farther apart than narrow-dispersion conventional speakers, reducing the total quantity of loudspeakers required in almost any installation. The ST2416S is a one-way, full-range device. The ST2416S is transformer-coupled, with the following input taps: 0.5W, 1W, 2W, 4W, 8W, 16W and 8-ohm bypass.

\*Please contact AVLELEC for advice before applying any textured coating, light wallpaper or fabrics to the ST2416S.

### Recommended Installations:

- 9/16" T-bar suspended ceiling systems
- 15/16" T-bar suspended ceiling systems

### Recommended Environment:

- Indoor or weather-protected outdoor

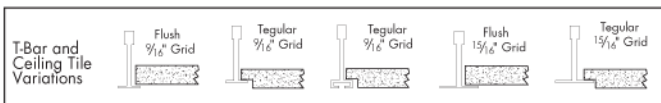
### Recommended Accessories:

- Safety Strap (secures SpeakerTile to building structure)

### Available Models:

- ST2416S: Plain white (shown in photo)
- ST2416S-3D1: Fine Fissured® (or similar) tile pattern
- ST2416S-3D2: Cortega® (or similar) tile pattern
- ST2416S-3D4: Fissured® (or similar) tile pattern
- ST2416S-3D7: Optima®/Ultima® (or similar) tile pattern
- ST2416S-3D21: Cirrus® (or similar) tile pattern

Tegular cuts are available to match tegular ceiling tiles on 15/16" T-bar grids. Tegular cuts are not required to match tegular ceiling tiles on 9/16" T-bar grids (See below for ceiling tile examples). Call AVLELEC for details.



### Performance Specifications:

- Radiating Surface: 549 in<sup>2</sup> (3,540cm<sup>2</sup>) Planar Diaphragm
- Driver System: 0.82 lb (0.37kg) Magnet with 1.02" (26mm) voice coil
- Frequency Response: 60Hz – 15kHz ±4dB
- Power Rating: 40 Watts RMS as per EIA standard RS-426-A
- Pressure Sensitivity: 89dB, 1W/1m
- System Impedance: 8 ohms nominal, 5.5 ohms minimum
- Transformer Primary Voltage: 70.7 Volts, 100 Volts and 8-ohm bypass
- Transformer Primary Taps (70.7V): 0.5, 1, 2, 4, 8, 16 Watts
- Transformer Primary Taps (100V): 1, 2, 4, 8, 16 Watts
- Dimensions (H x W x D): 23-3/4" x 23-3/4" x 4-5/16" (603mm x 603mm x 110mm)
- Product Weight: 7.0 lbs (3.2kg) each
- Shipping Weight: 21.0 lbs (9.5kg) pair

### Warranty:

AVLELEC warrants the ST2416S to be free of any defect in materials or workmanship for a period of 5 years from the date of purchase. During the warranty period, AVLELEC will repair or replace (at its option) all such defects without charge for parts or labor, if returned prepaid to the proper AVLELEC service facility, together with the original sales receipt or other proof of purchase. The unit will be returned prepaid.