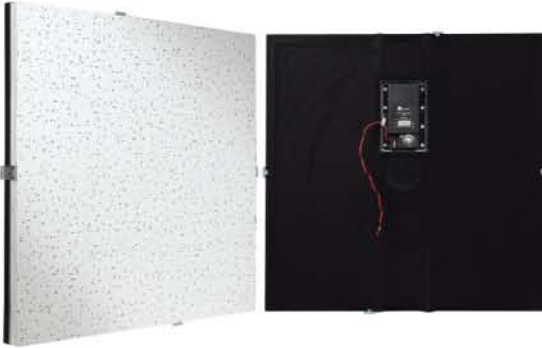


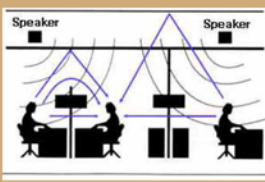
**AVLELEC**  
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# ST2432D Series

24" x 24" Hemispherically-Radiating SpeakerTile®





# AVLELEC

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The AVLELEC ST2432D SpeakerTile® is a remarkable combination of widebandwidth, 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 ST2432D 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' x 2' ceiling tile. The ST2432D is available in six different models, featuring a selection of standard 3-dimensional patterns or factory-applied surface finishes that allow a match with almost any suspended ceiling tile pattern. The white Expanded PolyStyrene (EPS) front surface of the speaker tile 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 ST2432D 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 ST2432D speakers to be spaced farther apart than narrow-dispersion conventional speakers, reducing the total quantity of loudspeakers required in almost any installation.

The ST2432D is a two-way, full-range device that utilizes a crossover centered at 1,200Hz, with 12dB per octave slopes for both low-pass and high-pass sections. The ST2432D is transformer-coupled, with the following input taps: 0.5W, 1W, 2W, 4W, 8W, 16W, 32W and 8-ohm bypass. An optional PBB 2.0 backbox is available, and is recommended for use when the SpeakerTile is installed in air handling spaces. An optional ECS enclosure compensation module is available, to optimize performance when the ST2432D is used with the PBB 2.0.

\*Please contact AVLELEC for advice before applying any textured coating, light wallpaper or fabrics to the ST2432D.

## Recommended Installations:

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

## Recommended Environment:

- Indoor or weather-protected outdoor

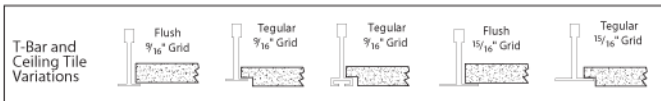
## Recommended Accessories:

- PBB 2.0 Backbox kit (23-3/4" x 23-3/4" x 5"; 603mm x 603mm x 127mm)
- ECS2432D Enclosure compensation module
- Safety Strap (secures SpeakerTile to backbox)

## Available Models:

- ST2432D: Plain white (shown in photo)
- ST2432D-3D1: Fine Fissured® (or similar) tile pattern
- ST2432D-3D2: Cortega® (or similar) tile pattern
- ST2432D-3D4: Fissured® (or similar) tile pattern
- ST2432D-3D7: Optima®/Ultima® (or similar) tile pattern
- ST2432D-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
- Tweeter System:** 0.82 lb (0.37kg) Magnet with 1.02" (26mm) voice coil; 1,200Hz, 12dB/octave high-pass crossover
- Woofer System:** 0.82 lb (0.37kg) Magnet with 1.02" (26mm) voice coil; 1,200Hz, 12dB/octave low-pass crossover

**Frequency Response:** 40Hz – 19kHz ±4dB

**Power Rating:** 75 Watts RMS as per EIA standard RS-426-A

**Pressure Sensitivity:** 92dB, 1W/1m

**System Impedance:** 8 ohms nominal, 5.5 ohms minimum

**Transformer:** Primary Voltage — 70.7 Volts

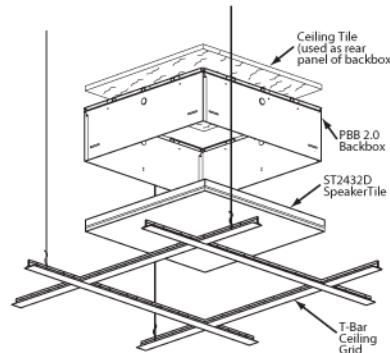
**Primary Taps —** 0.5, 1, 2, 4, 8, 16, 32 Watts; 8-ohm bypass

**Dimensions (H x W x D):** 23-7/16" x 23-7/16" x 3" (595mm x 595mm x 76mm)

**Product Weight:** 11.0 lbs (5kg) each

**Shipping Weight:** 15.5 lbs (7kg) each

## Installation Example:



## Warranty:

AVLELEC warrants the ST2432D 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.

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