



# ST2416S Series

## 24" x 24" Hemispherically-Radiating SpeakerTile®

### Recommended Installations:

- $\frac{9}{16}$ " T-bar suspended ceiling systems
- $\frac{15}{16}$ " 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

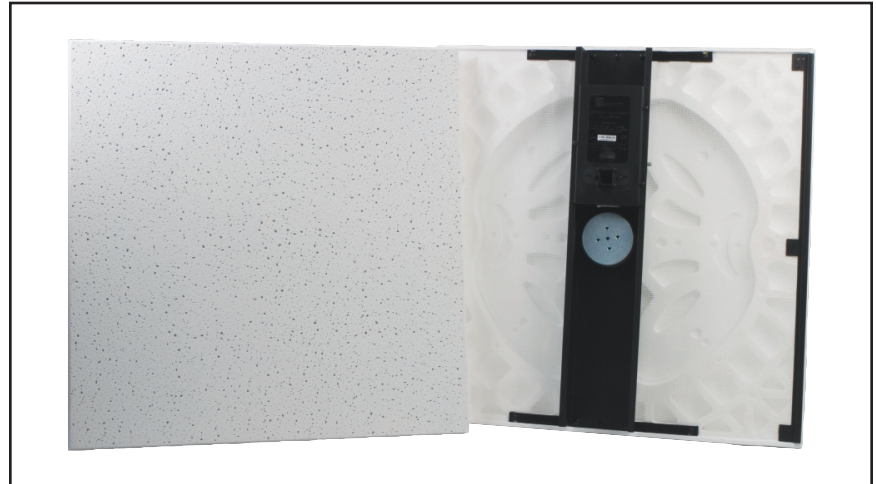
#### ST2416S-3D7:

Optima®/Ultima® (or similar) tile pattern

#### ST2416S-3D21:

Cirrus® (or similar) tile pattern

Tegular cuts are available to match tegular ceiling tiles on  $\frac{15}{16}$ " T-bar grids. Tegular cuts are not required to match tegular ceiling tiles on  $\frac{9}{16}$ " T-bar grids. (See below for ceiling tile examples.) Call Sound Advance for details.



## HIGH QUALITY, WIDE-DISPERSION INVISIBLE SPEAKERTILE®

The Sound Advance® 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 Sound Advance.

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 almost any suspended ceiling tile pattern. 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.

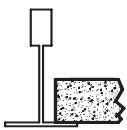
Patented Planar Diaphragm Technology™ allows a ST2416S that has been properly installed in a suspended ceiling to radiate sound in a 140° hemispherical pattern with smooth, even coverage. This dispersion characteristic allows ST2416S speakers to be spaced farther apart than narrow-dispersion conventional 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 Sound Advance for advice before applying any textured coating, light wallpaper or fabrics to the ST2416S.]*

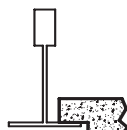
### Compatible Ceiling Tile Types

#### Flush



$\frac{15}{16}$ " Grid

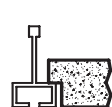
#### Tegular



$\frac{15}{16}$ " Grid



$\frac{9}{16}$ " Grid

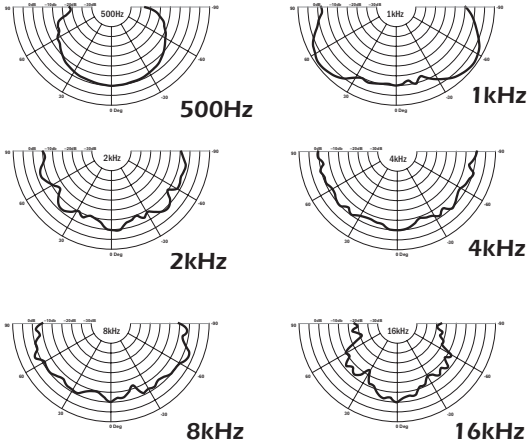


$\frac{9}{16}$ " Grid

# ST2416S Series

## 24" x 24" Hemispherically-Radiating SpeakerTile®

### Polar Response:



### 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 <sup>3</sup> / <sub>4</sub> " x 23 <sup>3</sup> / <sub>4</sub> " x 4 <sup>5</sup> / <sub>16</sub> " (603mm x 603mm x 110mm)
Product Weight:	7.0 lbs (3.2kg) each
Shipping Weight:	21.0 lbs (9.5kg) pair

### Architects and Engineers Specification:

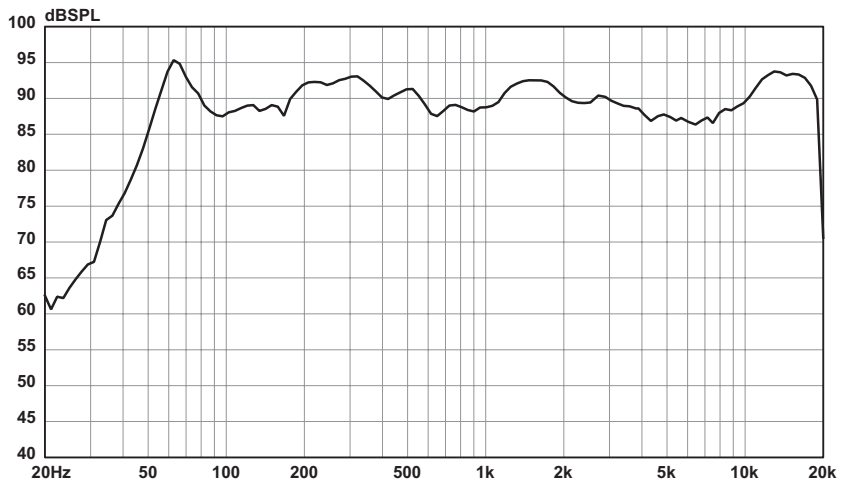
The ST2416S SpeakerTile® shall be a one-way, full-range device, producing frequencies from 60Hz to 15kHz in both horizontal and vertical planes. The SpeakerTile shall have a sensitivity of 89dB (1W/1m), with a rated power of 40 watts RMS according to EIA standard RS-426-A.

The total radiating surface area shall be 549 in<sup>2</sup> (3,540cm<sup>2</sup>). The high-frequency dispersion shall be at least 140° to the upper frequency limit of the device in question, in both horizontal and vertical planes.

All SpeakerTile models shall have exterior dimensions of 23<sup>3</sup>/<sub>4</sub>" (603mm) in length, 23<sup>3</sup>/<sub>4</sub>" (603mm) in width, and 4<sup>5</sup>/<sub>16</sub>" (110mm) in total unit depth. The complete unit shall weigh not more than 7.0 lbs (3.2kg) without its mounting accessories.

The loudspeaker shall be the Sound Advance ST2416S or equivalent.

### On-Axis Frequency Response:



212 Avenida Fabricante  
San Clemente, CA 92672  
(800) 592-4644 • (949) 492-5449  
FAX: (949) 361-5151  
[www.soundadvance.com](http://www.soundadvance.com)

### Warranty:

Sound Advance 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, Sound Advance will repair or replace (at its option) all such defects without charge for parts or labor, if returned prepaid to the proper Sound Advance service facility, together with the original sales receipt or other proof of purchase. The unit will be returned prepaid.

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