

ANGLED QUADRATIC DIFFUSER

Acoustics First® Angled Quadratic Residue Diffusers provide balanced sound throughout a performance space and help reduce excessive sound concentration or “hot spots”. The Angled Quadratic Residue Diffuser is designed so that the reflected sound waves are harmonically dissociated from the source waves and spread over time to create a more neutral listening space.

Borrowing a feature from the patented Art Diffusor® design, the well bottoms of the Acoustics First® Angled Quadratics are angled at 10 – degrees to extend the unit’s range and scatter higher frequencies that would otherwise reflect in a straight line-of-sight path, back into the room.

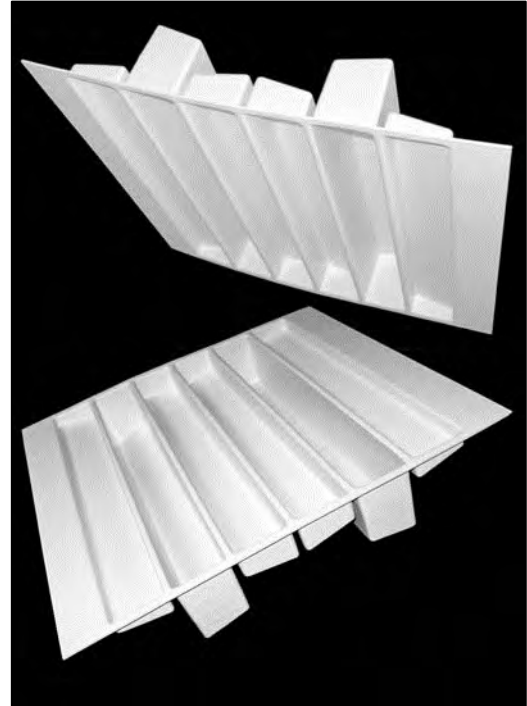
CONSTRUCTION:

Model Q: 1 Dimensional / Quadratic Residue Diffuser
Size: 23-5/8 x 23-5/8”
Depth: 4”
Weight: 3.75 pounds
Mount: Drop into T-Bar grid or wall recessed.
Material: Thermoplastic (White)
Bandwidth: 600 Hz to 4 kHz
Fire Rating: Class 1 (A) per ASTM E84
NRC: 0.30

Installation:

Angled Quadratic Diffuser Ceiling Panels may be installed into heavy-duty 15/16" face lay-in ceiling grid systems. They may be flush-mounted recessed, or installed on a wall surface with suitable surrounding trim.

Although it is a one-dimensional diffuser and produces a directional hemispheric polar response, the units may be oriented in any direction and, by alternating 90 degree rotation, will provide two-dimensional diffusion outside of the near field.



Applications: Recording & Broadcast Studios · Live Music Venues · Practice/Rehearsal Rooms · Theaters & Auditoriums · Houses of Worship · Home Entertainment Rooms & more!

Angled Quadratic Diffuser – Performance							
Test	125 Hz	250 Hz	500Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Type E400	0.35	0.40	0.45	0.30	0.14	0.19	0.30
Type E400 w/insulation	0.38	0.39	0.45	0.31	0.13	0.16	0.30

*Note: Diffusion data available upon request