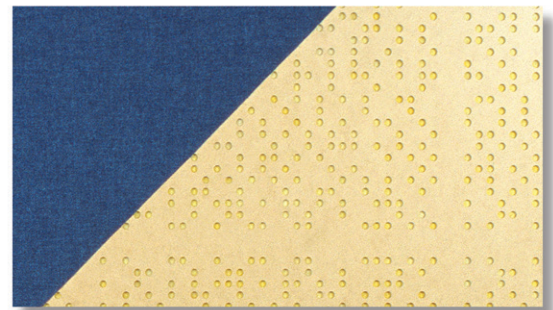


KINETICS NOISE CONTROL

Tuned Absorber/Diffuser (TAD) Panel



KINETICS™ Tuned Absorber/Diffuser (TAD) Panel combines engineered acoustics and a choice of fabric or vinyl coverings to give you an excellent design solution where more balanced sound absorption and high frequency diffusion are desirable.



Place the Tuned Absorber/Diffuser where low and mid-frequency absorption is desired in conjunction with increasing reflectivity and diffusion in higher frequencies. The outstanding acoustical performance of this panel is the result of the assembly of a sound absorptive fibrous core covered with a variable impedance laminate. Openings in the laminate are sized and spaced to optimize the absorption in low to mid frequencies while creating random higher frequency reflective surfaces between openings (variable impedance). A design program is utilized to acoustically optimize the hole pattern in the laminate while maintaining the desired overall open versus reflective area in the panel surface. For increased low frequency sound absorption, a thicker fibrous core (2 to 4 inches) can be specified. For increased high frequency absorption, the hole size can be changed to 5/8 inch diameter versus the standard 1/2 inch opening.



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www.kineticsnoise.com

Over 50 years of success solving acoustics and noise control problems!

Tuned Absorber/Diffuser (TAD) Panel

Description

A versatile absorber/diffuser panel wrapped in a wide selection of fabrics or vinyls. Available with hardened shaped edges. Engineered to control room acoustics with thicknesses from 1 to 4 inches and sizes up to 4 ft. x 8 ft. Standard sizes (in feet) are 2 x 2, 2 x 4, 4 x 4, 4 x 6 and 4 x 8. Custom sizes available.

Composition

6-7 PCF density fiberglass core • Chemically hardened edges • Perforated laminate face with randomized pattern of 1/2 inch diameter holes, 5/8 inch optional • Fabric faced with factory in-stock fabric by Guilford of Maine, or factory-approved customer-selected material

Acoustical Performance

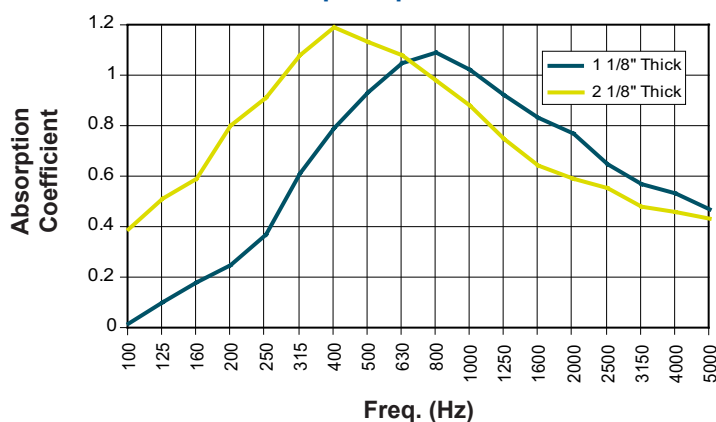
Panel Wrapped in woven polyester fabric.

| 1/3 Octave Center, Freq. (Hz) | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1-1/8" Thick with 5/8" Holes* | 0.01 | 0.10 | 0.18 | 0.25 | 0.37 | 0.61 | 0.79 | 0.93 | 1.05 | 1.09 | 1.08 | 0.92 | 0.83 | 0.77 | 0.65 | 0.57 | 0.53 | 0.47 |
| 1-1/8" Thick with 1/2" Holes* | 0.04 | 0.26 | 0.31 | 0.33 | 0.40 | 0.63 | 0.82 | 0.94 | 0.95 | 0.96 | 0.91 | 0.79 | 0.73 | 0.63 | 0.51 | 0.51 | 0.42 | 0.35 |
| 2-1/8" Thick with 1/2" Holes* | 0.39 | 0.51 | 0.59 | 0.80 | 0.91 | 1.08 | 1.19 | 1.13 | 1.08 | 0.98 | 0.88 | 0.75 | 0.64 | 0.59 | 0.55 | 0.48 | 0.46 | 0.43 |
| 1-1/8" Thick with 1/2" Holes** | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.12 | 0.06 | 0.07 | 0.02 | 0.10 | 0.11 | 0.18 | 0.17 |

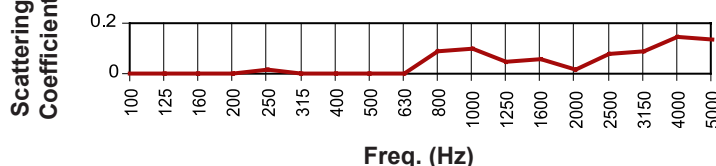
*Absorption Coefficient per ASTM C423

**Scattering Coefficient per ISO 17497-1

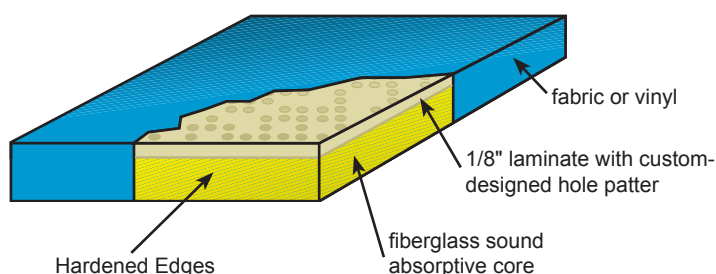
Absorption per ASTM C423



Scattering per ISO 17497-1



Cross-Section of Tuned Absorber/Diffuser



Applications

- Interior surfaces where superior acoustical performance is required.
- Conference Rooms
- Schools/Classrooms
- Auditoriums
- Media and Multi-Purpose Rooms
- Churches
- Office Spaces
- Reception Areas
- Home Theatres
- Pro Theatres

Mounting

HardSide Impaling Clips with Adhesive
Rotofast Clips
Z-Clips - movable
Velcro - movable

Edge Options

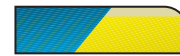
Square



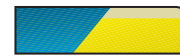
Bevel



Radius



Pencil



Download the Specification in CSI Masterformat at www.kineticsnoise.com

