

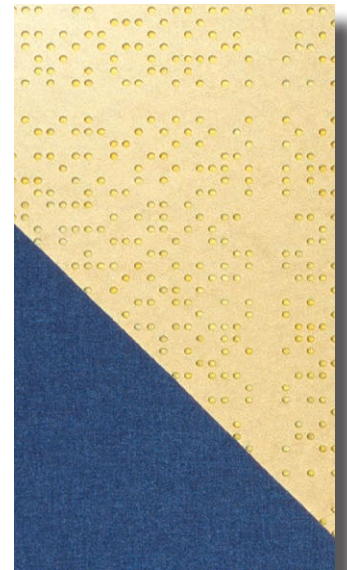


## KINETICS® TAD

### TUNED ABSORBER/DIFFUSER PANEL

Tuned Absorber/Diffuser (TAD) Panels combine 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.



# TAD - Tuned Absorber/Diffuser Panel

## DESCRIPTION

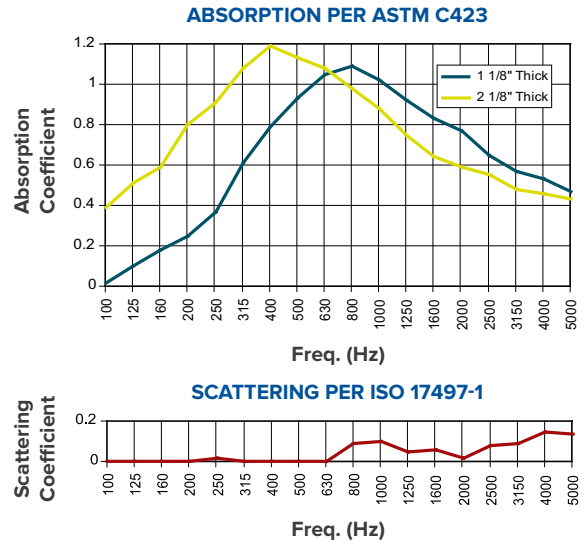
A versatile absorber/diffuser panel wrapped in a wide selection of fabrics or vinyls. Available with hardened shaped edges. Engineered to control room acoustics with thicknesses from 1 to 4 inches and sizes up to 4 ft. x 8 ft. Standard sizes (in feet) are 2 x 2, 2 x 4, 4 x 4, 4 x 6 and 4 x 8. Custom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

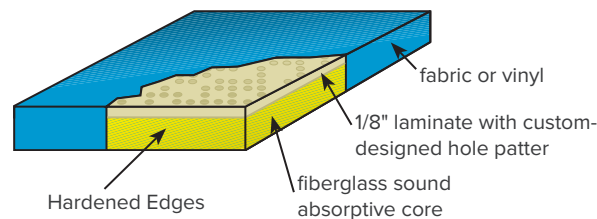
\*Absorption Coefficient per ASTM C423

\*\*Scattering Coefficient per ISO 17497-1

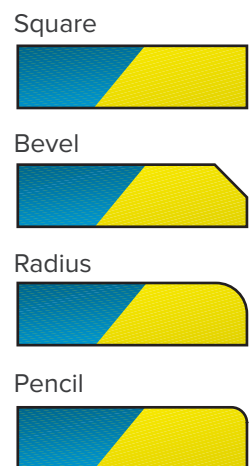
## APPLICATIONS

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

## CROSS-SECTION OF TUNED ABSORBER/DIFFUSER



## EDGE OPTIONS



## MOUNTING

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



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