



## Acoustical Wood Collection Absorbers



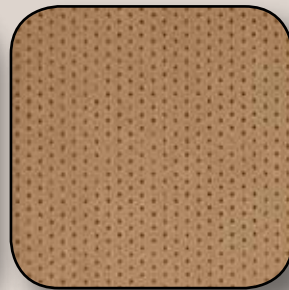
Ensemble



TAD-Revealed



Alto



Picado



Serenio

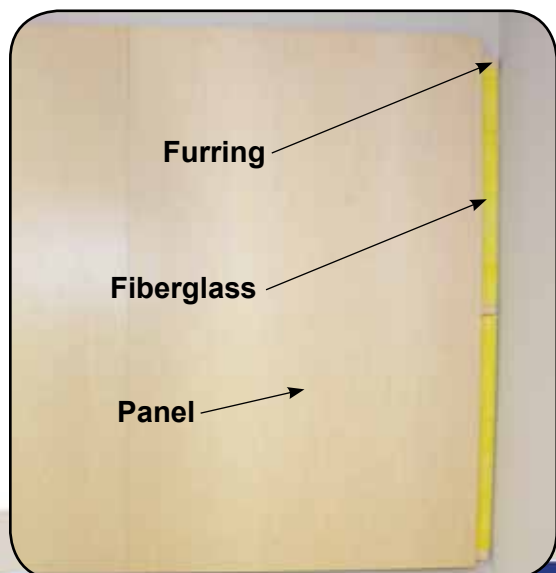
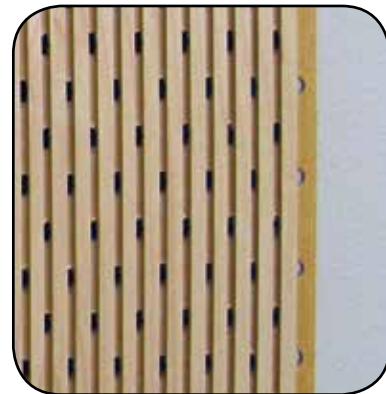


## Wood Absorbers from the Company that Knows Acoustics

Many times the hard surface of wood, while beautiful, will create an uncomfortable, reverberant environment. Harsh sound reflections created by hard surfaces can be controlled with Kinetics Noise Control's Acoustic Wood Collection. Create a beautiful lobby, auditorium, music room, office, conference room, church or restaurant without excessive noise and reverberation. Kinetics offers three different product configurations: Panels, Planks, and the all-in-one Ensemble. Available in your choice of finishes and patterns, it is easy to find the exact look for your project's needs.

### Planks

Tongue and groove planks are attached on field installed nailers. The 7-9/16" (192 mm) wide by 10' (305 cm) plank offers an appearance similar to a hardwood floor. Planks can be easily field cut to adapt to any installation and are available in the Alto and Picado patterns (see pages 4-5).



### Panels

Kinetics ships panels custom fit to your dimensions up to a maximum 48" (1219 mm) x 96" (2438 mm) (see Wood Notes on page 6). Panels are hung on z-clips attached to wood furring. Available in the Alto, Picado, Sereno and TAD patterns (see pages 4-5 and 7).





Ensemble CC3 Pattern

## Ensemble All-in-One Composite

Unlike Planks and Panels, the Ensemble comes complete with absorptive fiberglass built-in. Reduced field labor and faster installation are benefits of the Ensemble panel option. Eliminating the need to install nailers, absorptive board and a wood panel with trim, the Ensemble arrives as an all-in-one finished composite panel. Ready to hang on z-clips, it is great for new construction or retrofits on a tight schedule. Ensemble is available in the Alto, Sereno, Picado or TAD patterns as well as its own unique Crosscut (CC3) grooved face. The panels are limited to a maximum 20 square feet (1.86 sq meters), in sizes up to 4' (122 cm) wide or 8' (244 cm) long.

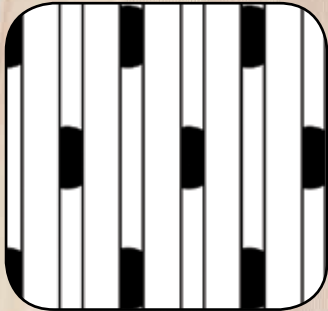




## Alto-Grooves

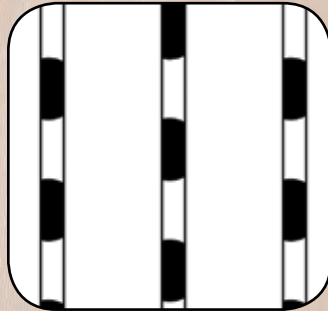
The Alto perforation pattern features a grooved wood surface adding visual refinement to your project while small openings allow sound to be absorbed. When butted together, the groove pattern is uninterrupted. Choose between narrow or wide groove spacing depending on what look best fits your project. Available in Planks, Panels and Ensemble.

**Alto 8**



8mm groove spacing  
(actual size)

**Alto 16**



16mm groove spacing  
(actual size)



Alto 8 planks in a high school cafeteria

## Picado-MicroPerf

Picado features surface pinholes that are invisible from a distance, yet large enough to provide excellent sound absorption. Select Picado for acoustic performance combined with a solid wood appearance. Available in Planks, Panels and Ensemble.

**Picado 5**

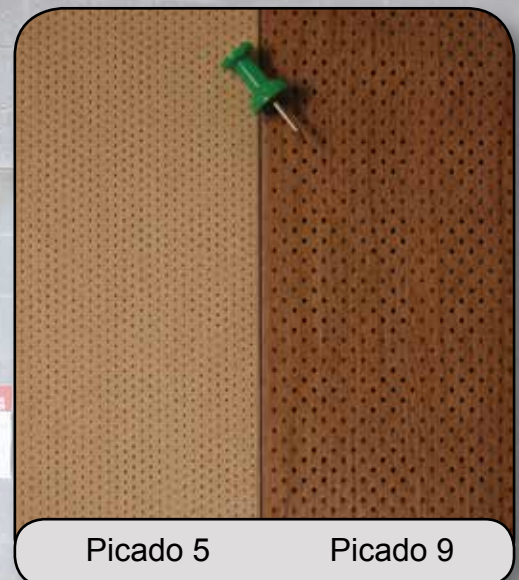


.5mm hole pattern  
(actual size)

**Picado 9**



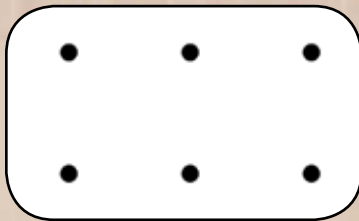
.9mm hole pattern  
(actual size)



# Sereno-Holes

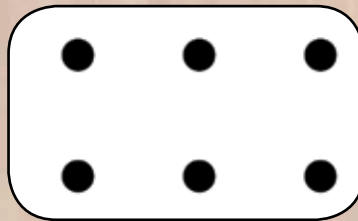
Sereno features symmetrical hole patterns of various sizes for the passage of sound into the concealed absorber. Select from four sound tested standards or work with Kinetics to create custom patterns. Sereno is available in Panels or Ensemble.

**Sereno 2/10**



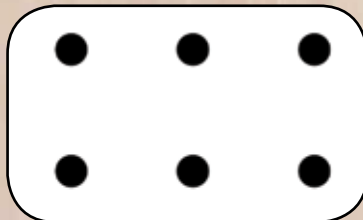
2mm face holes /  
10mm back holes  
(actual size)

**Sereno 4/10**



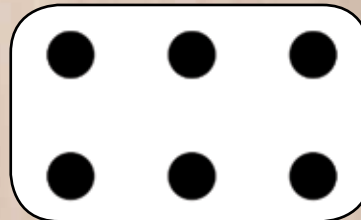
4mm face holes /  
10mm back holes  
(actual size)

**Sereno 4**

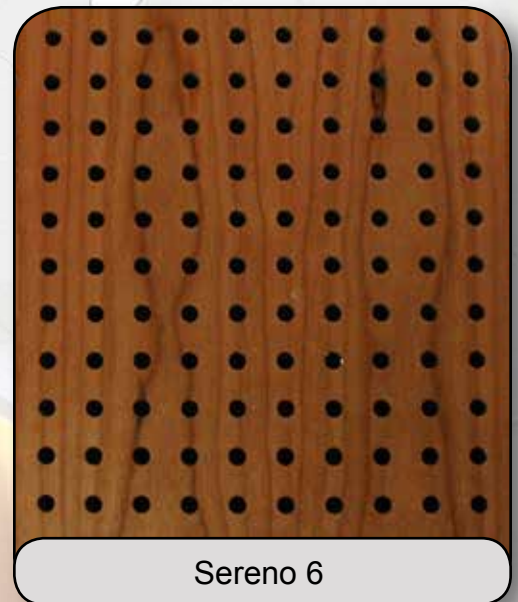


4mm through holes  
(actual size)

**Sereno 6**



6mm through holes  
(actual size)



Sereno 6



Sereno used in a lecture hall (see cover). Solid and perforated panels provided by Kinetics Noise Control.



Sereno panels have been intermixed with solid faced panels; the result is both absorptive and diffusive acoustic treatment.



## Acoustical Performance

Frequency, Hz	125	250	500	1000	2000	4000	NRC
Alto 8 - 1"	0.19	0.41	1.00	0.95	0.44	0.49	0.70
Alto 8 - 2"	0.33	0.98	1.26	0.84	0.55	0.59	0.90
Alto 8 - E-400	0.84	1.01	1.11	0.93	0.62	0.66	0.90
Alto 16 - 1"	0.17	0.54	0.93	0.97	0.77	0.64	0.80
Alto 16 - 2"	0.43	0.99	0.95	0.86	0.78	0.73	0.90
Alto 16 - E-400	0.73	0.88	0.65	0.67	0.68	0.69	0.70
Picado 5 - 1"	0.15	0.54	1.00	0.99	0.74	0.52	0.80
Picado 5 - 2"	0.44	0.98	1.06	0.87	0.79	0.56	0.90
Picado 5 - E-400	0.78	0.86	0.65	0.65	0.76	0.57	0.75
Picado 9 - 1"	0.15	0.55	0.96	1.03	0.75	0.60	0.80
Picado 9 - 2"	0.37	1.06	1.08	0.91	0.78	0.62	0.95
Picado 9 - E-400	0.83	0.86	0.60	0.65	0.73	0.61	0.70
Sereno 2/10 - 1"	0.17	0.74	0.91	0.32	0.13	0.06	0.55
Sereno 2/10 - 2"	0.48	1.19	0.66	0.31	0.19	0.12	0.60
Sereno 2/10 - E-400	0.80	0.66	0.41	0.31	0.27	0.17	0.40
Sereno 4/10 - 1"	0.15	0.55	1.06	0.87	0.40	0.26	0.70
Sereno 4/10 - 2"	0.38	1.09	1.04	0.74	0.52	0.29	0.85
Sereno 4/10 - E-400	0.88	0.85	0.56	0.52	0.53	0.31	0.60
Sereno 4 - 1"	0.23	0.64	0.61	0.43	0.29	0.21	0.50
Sereno 4 - 2"	0.48	0.71	0.52	0.38	0.32	0.28	0.50
Sereno 4 - E-400	0.48	0.53	0.40	0.35	0.35	0.34	0.40
Sereno 6 - 1"	0.13	0.32	0.82	1.06	0.62	0.42	0.70
Sereno 6 - 2"	0.37	0.90	1.28	1.03	0.72	0.58	1.00
Sereno 6 - E-400	0.88	1.02	1.06	1.10	0.80	0.62	1.00

\*As tested with 1" and 2" fiberglass per ASTM C-423; E-400 Tested with no absorptive core

## Alto, Picado, Sereno, Ensemble, and TAD Revealed Wood Options

Veneer	Core	Matching	Cuts	Finish	Edges
Maple*	MDF*	Random*	Plain Sliced (flat)*	Clearcoat (38 sheen)*	Bare MDF*
Cherry*	Fire Rated NAUF-MDF*	Book	Quarter	Laminate	Stain/Painted
Oak*	NAUF-MDF	Slip	Rift	Paint	Edge Banded
Walnut*	FR Particleboard	Sequence	Rotary	Unfinished**	Trim Pieces
Birch*	CARB.2				
Mahogany*					
Custom					

### FSC Certification Available

\*Select for shortest lead time and/or cost savings    \*\*To be finished in the field if matching other wood

## Wood Notes

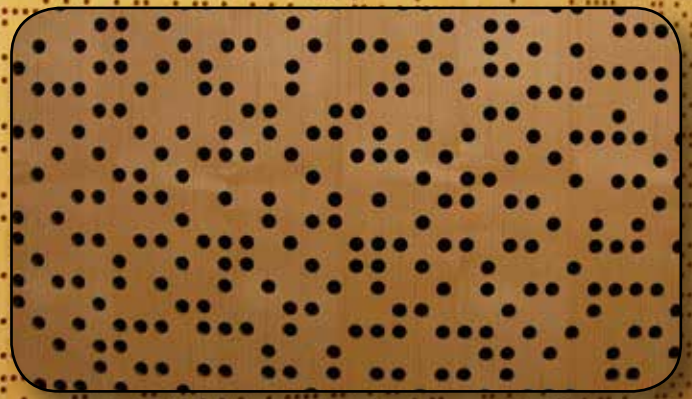
The beauty of wood is that it varies in color, grain pattern, and over-all appearance and texture. Wood products are hygroscopic and therefore will shrink and expand with changes in humidity.

**Panel Size, Walls:** 5/8" (16 mm) thick boards. Custom size up to 48" (122 cm) x 96" (244 cm)

**Panel Size, Ceilings:** 3/4" (19 mm) thick boards. Custom size up to 30" (762 mm) x 60" (1,524 mm), up to 48" (122 cm) x 96" (244 cm) with added stiffeners.

**Planks:** Tongue & Groove 5/8" (16 mm) thick. Width - 7-9/16" (192 mm) length - 96" (244 cm), 120" (305 cm), or custom.

# TAD Revealed

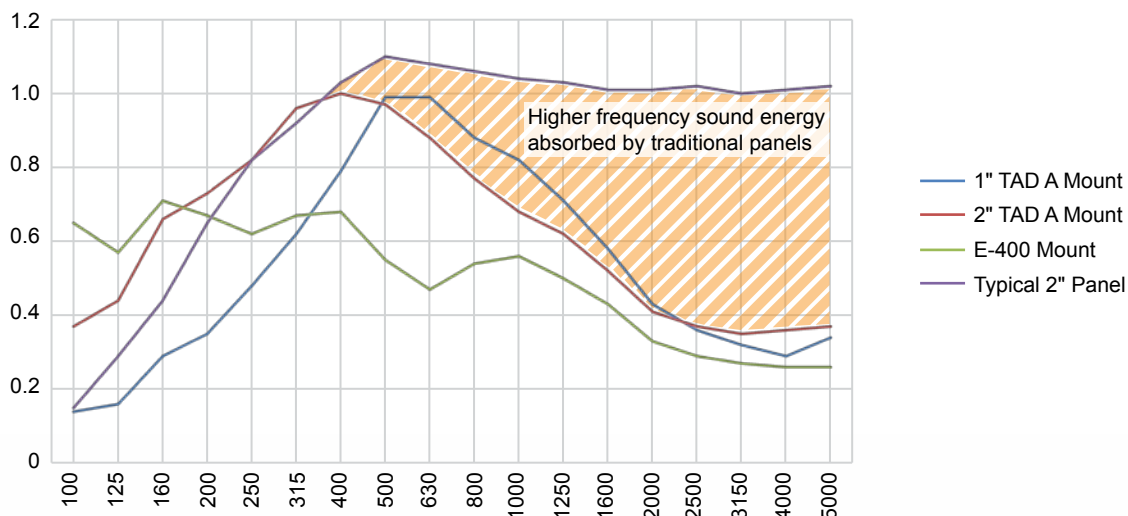


**TAD Revealed - Bring tech to your acoustics.** Kinetics' TAD panels offer a solution balancing sound absorption with diffusion. The outstanding acoustical performance of this panel is the result of the assembly of a sound absorptive fibrous core behind a variable impedance laminate. Openings in the laminate are sized and randomly spaced to optimize absorption in low to mid frequencies while creating higher frequency diffuse reflections. This creates balance across the acoustic spectrum, from bass to flute. For increased low frequency sound absorption, a thicker fibrous core (2" (50.8 mm) to 4" (101.6 mm)) can be specified. For increased high frequency absorption, the hole size can be changed to 5/8" (17mm) diameter versus the standard 1/2" (13 mm) opening. Available in Panels and Ensemble.

## Acoustical Performance

Frequency	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1" TAD A Mount	0.14	0.16	0.29	0.35	0.48	0.62	0.79	0.99	0.99	0.88	0.82	0.71	0.58	0.43	0.36	0.32	0.29	0.34
2" TAD A Mount	0.37	0.44	0.66	0.73	0.82	0.96	1.00	0.97	0.88	0.77	0.68	0.62	0.52	0.41	0.37	0.35	0.36	0.37
E-400 Mount	0.65	0.57	0.71	0.67	0.62	0.67	0.68	0.55	0.47	0.54	0.56	0.5	0.43	0.33	0.29	0.27	0.26	0.26
Typical 2" Panel	0.15	0.29	0.44	0.65	0.82	0.92	1.03	1.10	1.08	1.06	1.04	1.03	1.01	1.01	1.02	1.00	1.01	1.02

## TAD Revealed Absorption Coefficients



# Acoustical Wood Collection

## Diffusers & Reflectors



### HighTones

HighTones Panels combine the beauty of natural wood with the science of quadratic theory to create high frequency sound diffusing wall finishes that produce a superior acoustic environment.



### MidTones

Borrowing from the same science of the High Tones, the wells of the MidTones have been widened and deepened resulting in mid and high frequency diffusion.



### ScatterBox

Based on a quasi-random series that provides multi-directional diffusion without visual patterning, the ScatterBox is ideal for studio control rooms, auditoriums, performance venues, listening rooms, home theaters, and worship spaces.



### Ovations

Designed for large spaces requiring improved sound directivity, strength, and timing of reflections from the ceiling area, Ovation Reflector Panels works with absorptive products to create the optimal listening experience for the audience.



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Manufacturing facilities in Ohio, USA; California, USA; and Ontario, Canada. Sales offices worldwide.

Kinetics Noise Control, Inc. is continually upgrading the quality of our products. We reserve the right to make changes to this and all products without notice.

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