



ROOM  
**ACOUSTICS**



**KINETICS**  
**Noise Control**



BEFORE THE  
MUSIC BEGINS,  
THE PERFORMANCE  
STARTS WITH THE  
ELEMENTS OF  
THE ROOM



## KINETICS STANDS OUT

ACOUSTIC PRODUCT EXPERTS SINCE 1958

DIVERSITY OF PRODUCT SOLUTIONS AND FINISHES

CUSTOMIZABLE, FULL-SCALE MANUFACTURING

WORLDWIDE PRESENCE

KINETICS PRODUCES THE INDUSTRY'S LARGEST SELECTION OF INNOVATIVE ACOUSTIC AND NOISE CONTROL PRODUCTS AND SOLUTIONS. YOU CAN COUNT ON AN EXPERT TEAM OF SALES, MANUFACTURING, ENGINEERING, AND CUSTOMER SUPPORT PROFESSIONALS TO HELP YOU ACHIEVE YOUR ACOUSTICAL AND DESIGN OBJECTIVES.

**ONE SOURCE | COUNTLESS POSSIBILITIES**





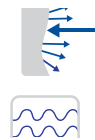
## TYPES OF PRODUCT



### ABSORBERS

Reduce reverberation (echo) in a variety of settings. Multiple products offered to address any application.

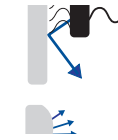
OFFICES & OPEN SPACES  
EDUCATION  
ATHLETICS



### DIFFUSERS

Distribute sound evenly throughout the listening space and control undesirable pitches and tones.

AUDITORIUMS  
MUSIC EDUCATION  
WORSHIP SPACES



### REFLECTORS

Redirect sound towards the audience. Reflectors on walls and ceilings enhance the listening experience.

PERFORMANCE HALLS  
AUDITORIUMS  
WORSHIP SPACES





W ABSORBERS

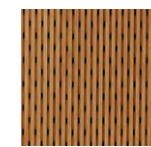
**ENVIRONMENTAL  
ACOUSTICS**





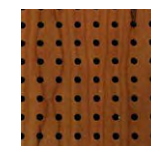
# WOOD ABSORBERS

CONTROL REVERBERANT SPACES WITH THE WARMTH AND BEAUTY OF WOOD IN A VARIETY OF PATTERNS, VENEERS, AND FINISHES.



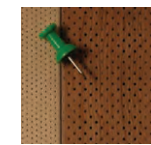
## ALTO

The Alto grooved wood surface adds visual refinement to the project, with small openings that allow sound to be absorbed.



## SERENO

Sereno features symmetrical hole patterns of various sizes for the passage of sound into the concealed absorber.



## PICADO

Picado highlights a veneered wood surface with pinholes that are invisible from a distance, concealing a perforated core that provides excellent sound absorption.



## TAD REVEALED

TAD Revealed has the acoustical benefits of TAD panels with the beautiful look of wood. Available in a variety of hardwoods and finishes.

## ENSEMBLE

This all-in-one prefabricated panel comes complete with fiberglass for easy installation. *Choose from any of the above wood patterns.*

# FINE TUNE

CREATES ACOUSTIC BALANCE ACROSS ALL FREQUENCIES. SPECIALLY ENGINEERED, FABRIC-WRAPPED ABSORBERS COMPENSATE FOR THE LOSS OF ACOUSTICAL BALANCE PRODUCED BY CONVENTIONAL PANELS.

## VERSATUNE

Common acoustical panels are most effective at absorbing mid-to-high frequencies. VersaTune's engineered composite core boosts low frequency absorption to create balanced performance across all frequencies.

## TAD

Typical acoustical panels can over-absorb high frequencies. TAD panels scatter high-frequency sound waves, so rooms are lively and authentic.







# GREATER IMPACT

## SPORTSBOARD ELITE

**GYMNASIUMS | MULTI-PURPOSE | TRAINING FACILITIES**

The tough, perforated copolymer surface of SportsBoard Elite can tolerate extreme impacts such as baseballs and basketballs. Wrapped in a variety of fabric options.

## SPORTSBOARD CONFORM

**GYMNASIUMS | MULTI-PURPOSE | TRAINING FACILITIES**

A highly protective, perforated copolymer shell covers the edges and face of the panel, making the surface capable of withstanding the toughest of impacts. The SportsBoard Conform's hard surface is easy to clean and can be matched to many team colors.



## HIGH IMPACT HARDSIDE

**HALLWAYS | LOBBIES | ACADEMIC SPACES**

A fabric-wrapped panel featuring a special surface layer that provides greater durability than traditional panels. Ideal for high-traffic common areas.

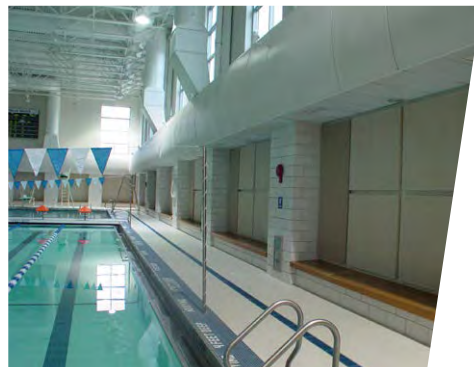
## KNP PERFORATED METAL PANEL

**GYMNASIUMS | NATATORIUMS | RECREATIONAL CENTERS**

A perforated steel or aluminum shell with a powder-coated finish encases an absorptive core for a rugged, clean appearance with excellent absorptive properties. Available with either a flat or ridged face.

## ACOUSTIGRAPHIX®

Increases the dynamics of any space with high-resolution graphics or photo-images in an acoustically transparent fabric. Use in any environment with any of our fabric-wrapped panel solutions.



# PROJECT SPOTLIGHT

## UNIVERSITY OF CINCINNATI PRACTICE GYMNASIUM

**PRODUCTS USED**  
**AcustiGraphix**  
**HardSide Panels**  
**Wave Baffles**

When the University of Cincinnati (UC) Bearcats basketball team required a quieter practice gym, Kinetics supplied products that reduced reverberant noise while proudly displaying the UC brand. The University of Cincinnati Design and Construction Department worked with Kinetics local representatives to create a quiet and more impactful setting for press conferences, and a better learning environment for players and coaches. The Lindner Athletic Complex is now a more purposeful and attractive facility, as well as a great recruiting tool!





## HARDSIDE

OFFICES | AUDITORIUMS | CLASSROOMS

HardSide is a conventional panel available in many thicknesses, sizes, and shapes and can be wrapped in a variety of fabrics.



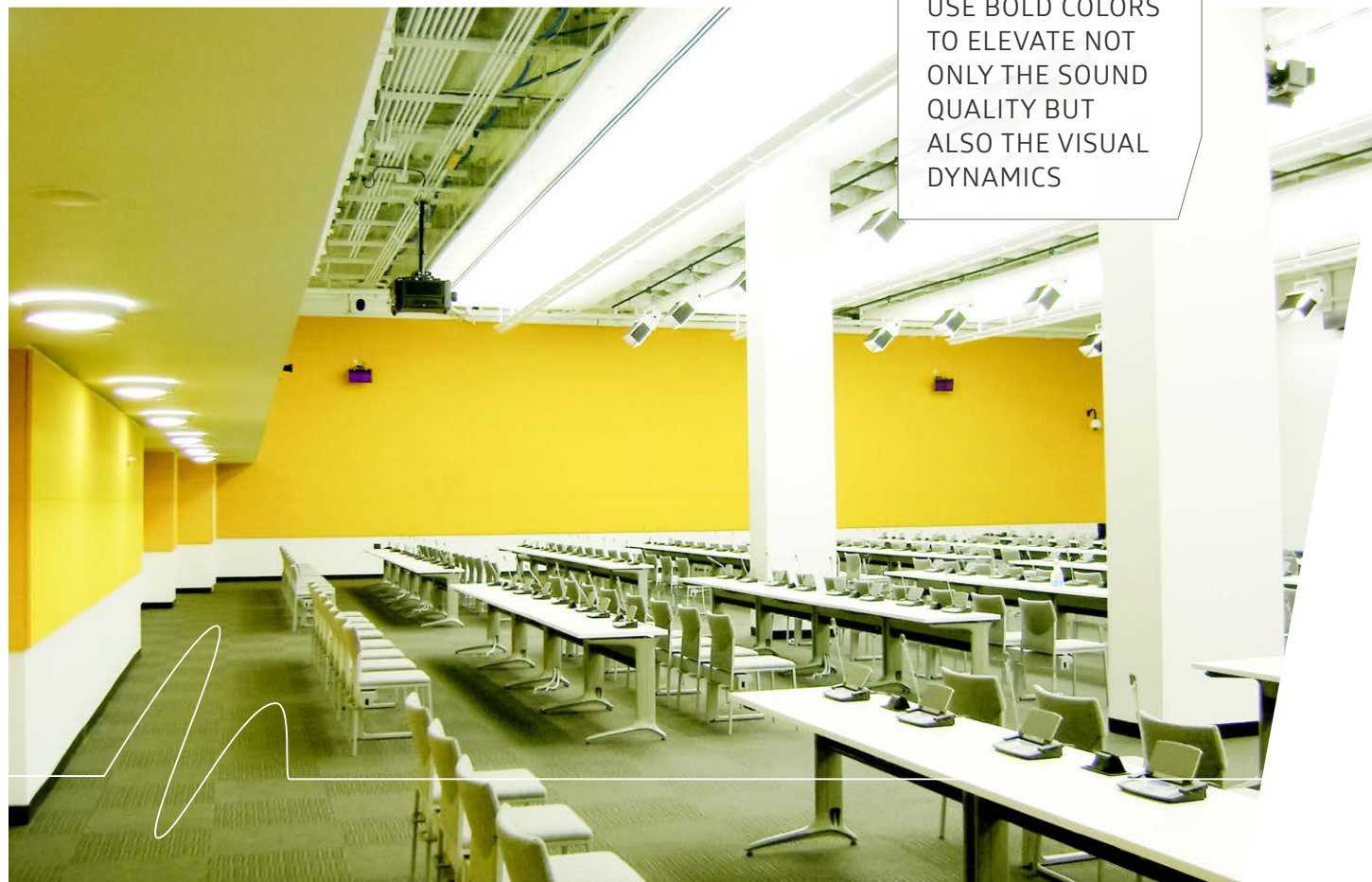
## HI-TACK PANEL

OFFICES | COMMUNITY CENTERS | CLASSROOMS

This non-absorptive panel captures the same look as other fabric-wrapped panels while providing a highly-tackable bulletin board surface.



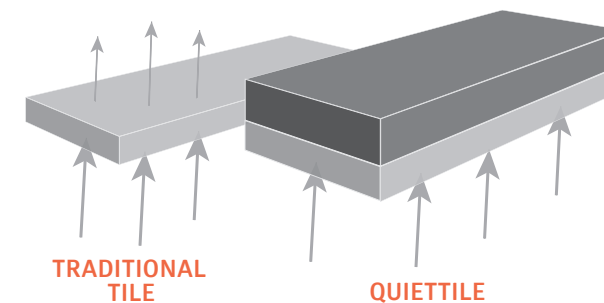
**BOLD COLORS**  
USE BOLD COLORS TO ELEVATE NOT ONLY THE SOUND QUALITY BUT ALSO THE VISUAL DYNAMICS



## QUIETTILE LAY-IN CEILING TILES

### ABSORBERS/BLOCKERS

Achieve the highest speech privacy and sound control in an acoustical ceiling tile system. When walls don't extend to the deck, QuietTile composite ceiling tiles are specifically designed to control noise between spaces. QuietTile is an engineered composite panel consisting of multiple layers faced with any acoustical ceiling tile.



#### STANDARD SIZES

2 ft. x 2 ft. / 2 ft. x 4 ft.

#### COMPOSITION

Acoustical Ceiling Tile (ACT)  
Composite Sound-Damping Backer

TESTED AND PROVEN TO PROVIDE THE HIGHEST REDUCTION OF SOUND TRANSMISSION IN THE INDUSTRY.



# ELEMENTAL ELEVATION

SUSPENDING ACOUSTICAL MATERIALS FROM THE CEILING OFFERS ABSORPTION FOR REVERBERANT NOISE PROBLEMS WHILE ACHIEVING ACOUSTIC GOALS. HORIZONTAL AND VERTICAL ORIENTATION OF CLOUDS AND BAFFLES IS PROVEN TO BE HIGHLY EFFECTIVE, BOOSTING LOW AND MID-FREQUENCY ABSORPTION BY 20-40%.



## WAVE BAFFLES

**ARENAS | GYMNASIUMS | MULTI-PURPOSE ROOMS**

Create a stunning visual effect with dramatic acoustical results in large, reverberant spaces.



## KB803

**CAFETERIAS | RESTAURANTS | NATATORIUMS**

Vertically mounted, vinyl-wrapped baffle for efficient and cost-effective absorption.



**ENHANCE**  
THE LOOK OF AN  
ENVIRONMENT  
BY ANGLING  
HARDSIDE CLOUDS

## HARDSIDE CLOUD

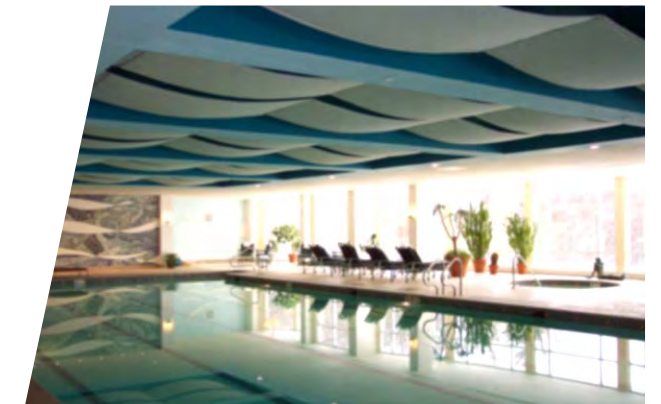
**LIBRARIES | CORRIDORS | ACADEMIC SPACES**

Modify our fabric-wrapped HardSide panel into a suspended horizontal cloud to create a dramatic architectural feature.

## HARDSIDE BAFFLE

**OPEN OFFICES | MULTI-PURPOSE ROOMS | ACADEMIC SPACES**

Fabric-wrapped, two-sided, vertically oriented baffle.





DIFFUSERS

SCULPTING  
SOUND







## CRITICAL LISTENING ENVIRONMENTS

CONTROL DISPERSAL OF SOUND REFLECTIONS THROUGHOUT THE LISTENING OR RECORDING SPACE. DIFFUSERS CREATE A CLEARER AND MORE CONSISTENT LISTENING ENVIRONMENT FOR AUDIENCES AND PERFORMERS.

### SCATTERBOX

RECORDING STUDIOS | HOME THEATERS

The premium choice of musicians, artists, and engineers in professional recording environments. Beautiful wood, striking visuals, and two-dimensional diffusion.



MIDTONES

500 to 2,500Hz



HIGHTONES/SCATTERBOX

2,500+ Hz

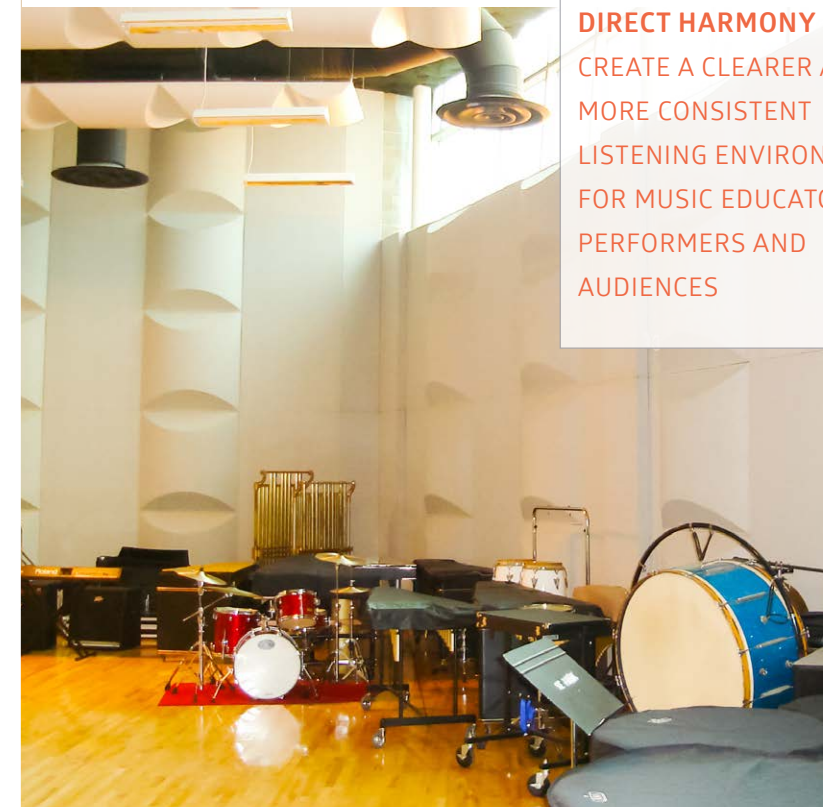
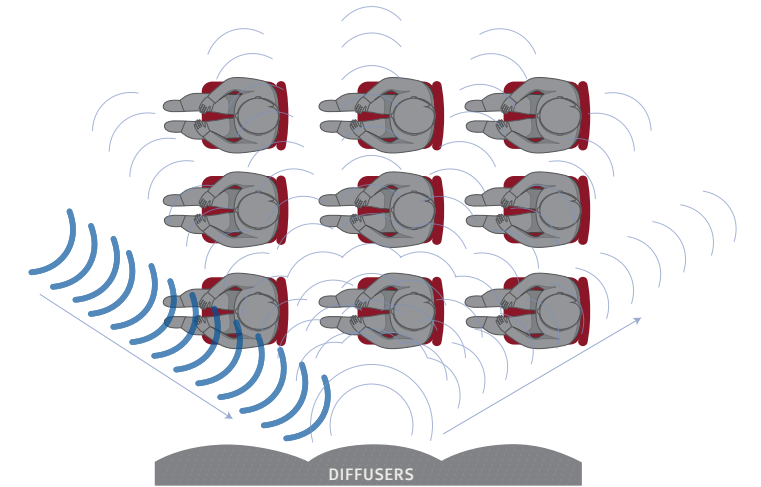


### GEOMETRIC SOUND

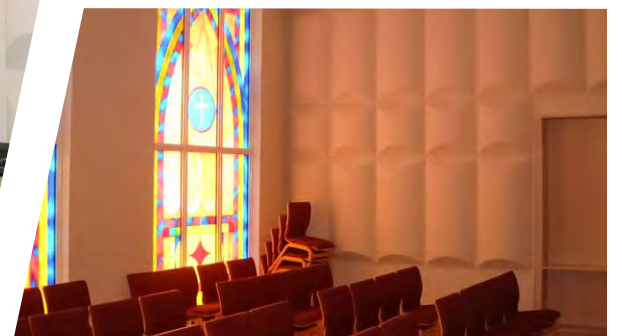
CHURCHES | BAND ROOMS | CAFETERIUMS

Make rooms look and sound more dynamic.

Geometric Diffusers placed on walls and ceilings add visual dimension and disperse sound in multiple directions to improve the sound quality within the space. Perfect for churches, band rooms, and other performance spaces. Available in molded copolymer finishes, or wrapped in fabric of the client's choice.



**DIRECT HARMONY**  
CREATE A CLEARER AND MORE CONSISTENT LISTENING ENVIRONMENT FOR MUSIC EDUCATORS, PERFORMERS AND AUDIENCES



HIGHTONES CONTROLS HIGH FREQUENCIES FOR HIGHER-PITCHED INSTRUMENTS. THE WIDER, DEEPER WELLS OF MIDTONES CONTROL FREQUENCIES BETWEEN 500 Hz AND 2,500 Hz.

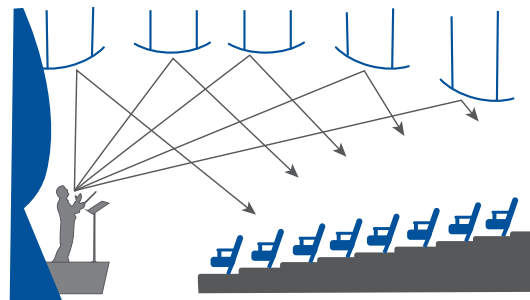
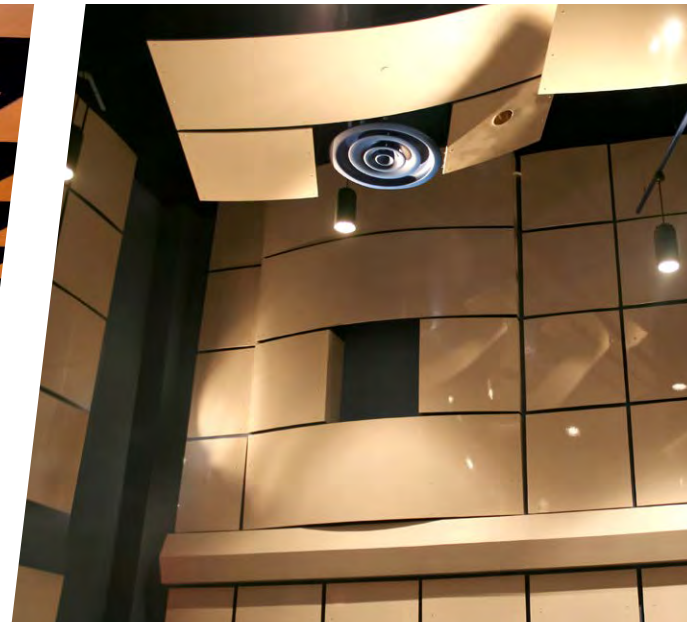
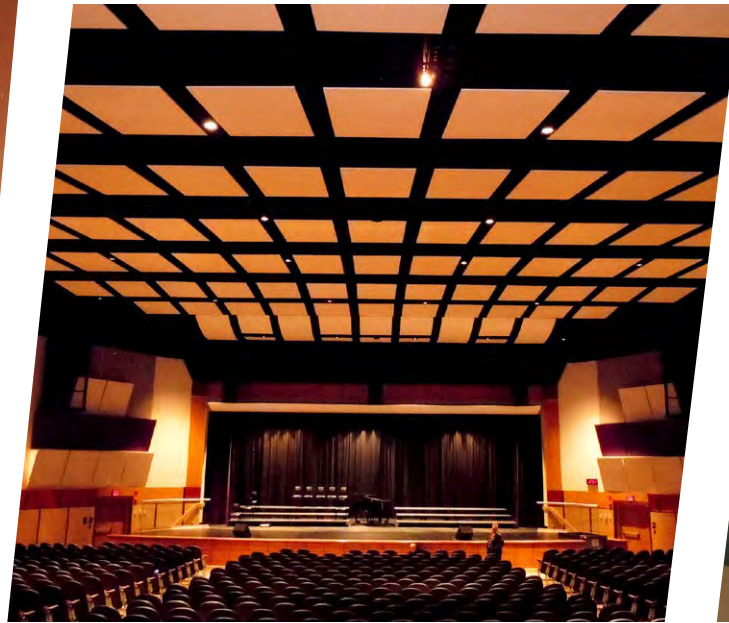




REFLECTORS

PERFECT  
PERFORMANCE





**REFLECTORS ARE SHAPED TO DISPERSE SOUND EVENLY ACROSS THE AUDIENCE**

## OVATION REFLECTORS

**PERFORMANCE HALLS | AUDITORIUMS | WORSHIP FACILITIES**

Reflectors create a visually stunning space and assure the timing and strength of live performances by eliminating late reflections.

Architects and designers have many creative options, from traditional wood and wood-like surfaces to a variety of gel coat colors. Reflectors add shape and dimension to walls and ceilings. A retractable version is also available and is ideal for multi-use environments.





## PROJECT SPOTLIGHT

### WILBUR WATTS INTERMEDIATE SCHOOL AUDITORIUM

#### PRODUCTS USED

Ovation Panels

HighTones Diffusers

HardSide Panels

When Wilbur Watts Intermediate School was being repurposed, the auditorium was designed to be available for the school and the community-at-large to use.

The acoustical consultant focused on three areas of opportunity in the auditorium: assuring that stage sounds would reflect evenly from the ceiling, enveloping the audience by diffusing sound from the sidewalls, and adding absorption to maintain a proper level of reverberation. The result was a visually beautiful space with incredible acoustic accuracy.

#### DRAMATIC RESULTS

BALANCE THE USE  
OF REFLECTORS,  
DIFFUSERS, AND  
ABSORBERS TO  
CREATE A DYNAMIC  
LISTENING  
ENVIRONMENT



# SOUND IN MOTION

THE WORLD OF ROOM ACOUSTICS

The size, shape, and finish materials of a room define its sound quality – good or bad. Have you ever experienced a restaurant where dinner conversation is nearly impossible because of reverberant noise? Have you ever listened to a public address announcement in a gymnasium or at the airport where the words were unclear? Proper application of the right acoustical materials will solve these problems.

## REVERBERATION CONTROL & SOUND ABSORPTION

Reducing reverberation will lower the background noise level and improve speech and music clarity. An easy way to analyze a room is to calculate its T60 reverberation time. This is simply the amount of time it takes (in seconds) for sound to decay 60 decibels in a room. Adding Kinetics absorptive materials reduces T60 time in predictable levels.

It's easy to understand how different rooms should have different acoustic characteristics. For example, a concert hall's acoustic field should be rich and full, with some reverberation.

In contrast, a classroom should be much less lively, so the instructor is clearly heard and easily understood.

ROOM TYPE T60 (SEC)	OPTIMAL T60 TIMES
<b>Classrooms</b>	<b>0.6-0.7</b>
<b>Band Rooms</b>	<b>0.9-1.1</b>
<b>Movie Theaters</b>	<b>0.9-1.2</b>
<b>Choral Rooms</b>	<b>1.2-1.6</b>
<b>Multi-Purpose Rooms</b>	<b>1.6-1.8</b>
<b>Concert Halls</b>	<b>1.7-2.2</b>

### PANEL CONSTRUCTION (Application Driven)



## REFLECTION | DIFFUSION

Another goal in room acoustics is to create even sound fields. Controlling the timing and direction of sound reflections is an important part in the design of critical listening spaces, from recording studios to rehearsal rooms to performance halls.

Reflectors and diffusers enhance listening environments by controlling strong reflections and dispersing sound evenly across audiences and their listening space.

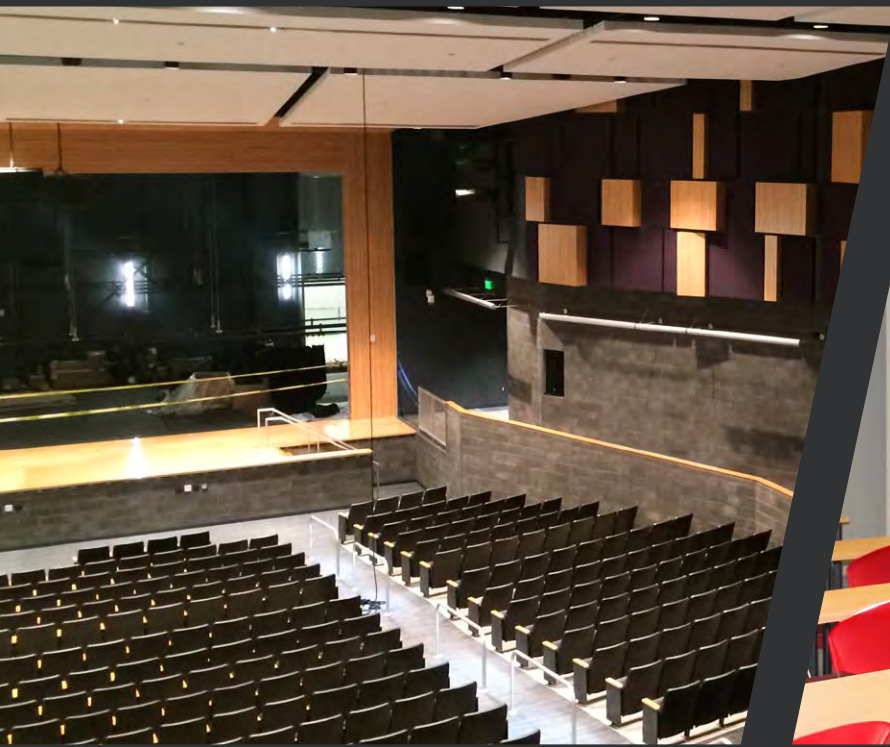
A NOISE REDUCTION OF  
8-10 DECIBELS LOWERS  
REVERBERATION IN A  
ROOM BY 40-50%

**ACHIEVE THE LOOK YOU WANT WITH  
THE ACOUSTICAL PERFORMANCE YOU NEED**

# ROOM VOLUME + HARD SURFACE REVERBERATION







[KineticsNoise.com](https://www.kineticsnoise.com)

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