

**Customized acoustical solutions built to contract plan specifications. From engineers and architects to installers and building owners, ATS Acoustics is there to assist and inform.**

**Available customizations include:**

- Custom shapes, sizes, and cutouts built to your specifications.
- Custom core options: ECOSE® Technology fiberglass, 85% pre-consumer recycled cotton, Owens Corning, or Roxul AFB.
- Custom edge profiles.
- Customer-specified fabrics.
- ASTM E84 Class A Fire Rating.

## ATS ACOUSTIC ECO - PANEL

### Designed with LEED Projects in Mind

ATS Acoustic Eco-Panels are the only brand of customized acoustic treatment that provides superior acoustical performance and impressive environmental stewardship.

- 90% pre-consumer recycled composite plastic framing.
- 58% post-consumer recycled ECOSE® fiberglass.
- ECOSE® Technology fiberglass core option contains no formaldehyde, phenol, acrylics, or artificial colors and is certified for Indoor Air Quality as a low emitting product by the GREENGUARD Environmental Institute.

\* Standard ATS Acoustic Panels also available.



1/3 Octave Band Center Frequencies, HZ

125	250	500	1000	2000	4000	NRC
0.27	0.60	1.07	1.11	1.09	1.15	1.00

Data from independent testing by RAL, a leading acoustical laboratory

## ATS ART ACOUSTIC PANEL

### Combine Interior Design with Superior Sound

ATS Art Acoustic Panels transform a standard sound absorption panel into a one-of-a-kind piece of artwork. Enjoy unique art with exceptional acoustical performance in conference rooms, restaurants, schools, offices, and homes.

We can work with endless possibilities: company logos, art images, vacation photos, landscapes, family portraits, and more.



1/3 Octave Band Center Frequencies, HZ

125	250	500	1000	2000	4000	NRC
0.32	0.94	1.05	0.93	0.71	0.53	0.90

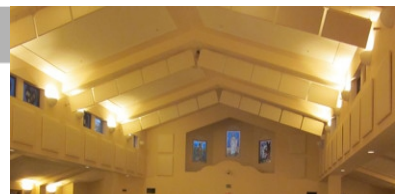
Data from independent testing by RAL, a leading acoustical laboratory

## ATS ACOUSTIC BAFFLE

### Built to Last, Easy-to-Install

The ATS Acoustic Baffle is built around an aluminum frame to create crisp, clean lines and to ensure the baffles won't sag or dent over time.

Core material of 6 lb. per cubic foot mineral wool board provides superior sound absorption.



1/3 Octave Band Center Frequencies, HZ

125	250	500	1000	2000	4000	NRC
0.48	0.73	1.45	1.99	1.89	1.78	1.52

Data from independent testing of this item by RAL, a leading acoustical laboratory

## ATS ACOUSTICS TACKABLE PANEL

### Superior Sound Absorption with a Tackable Surface

The ATS Acoustics Tackable Panel is a perfect combination of a tackboard and a high-quality sound absorber. Our standard acoustic panels plus a special high-density layer create a surface with reliable tackability and superior acoustical performance.

Upgrade the acoustical quality of classrooms, conference rooms, offices, and any other space that needs sound absorption and a tackable surface.



1/3 Octave Band Center Frequencies, HZ						
125	250	500	1000	2000	4000	NRC
0.59	0.97	1.15	1.12	1.05	1.05	1.05

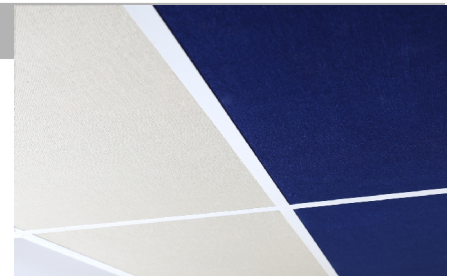
Data from independent testing of this item by RAL, a leading acoustical laboratory

## ATS ACOUSTIC CEILING PANEL

### Quality Acoustics for Ceiling Spaces

The ATS Acoustic Ceiling Panel fits in standard 24" x 48" or 24" x 24" ceiling grid systems. Easily improve the acoustical quality of any environment without using valuable wall space.

- Earn LEED Credit Potential for Recycled Content and Indoor Air Quality.
- ECOSE® Technology fiberglass contains no formaldehyde, phenol, acrylics, or artificial colors and is certified for Indoor Air Quality as a low emitting product by the GREENGUARD Environmental Institute.
- Contains at least 50% post-consumer recycled material by weight.



1/3 Octave Band Center Frequencies, HZ						
125	250	500	1000	2000	4000	NRC
0.92	1.07	0.93	1.11	1.06	1.17	1.05

Data from independent testing of this item by RAL, a leading acoustical laboratory

## ATS ACOUSTIC DIFFUSER

### Precision Manufactured for Extreme Accuracy

The ATS Acoustic Diffuser is a precisely calculated Quadratic Residue Diffuser (QRD) designed to evenly scatter sound energy and help eliminate comb filtering and flutter echo.

- 7-root well diffuser begins scattering at 325 Hz and offers effective diffuse up through 3 kHz.
- Computer-controlled manufacturing equipment ensures accuracy.
- Available in 23" x 48" x 6" , 23" x 23" x 6" , or custom-specified sizes.



## CONTACT US

**We are always happy to help.** Please reach us toll free at 1-866-787-7881 or [atsinfo@atsacoustics.com](mailto:atsinfo@atsacoustics.com)

# Reducing Restaurant Noise with Acoustic Panels

[atsacoustics.com/blog/reducing-restaurant-noise-with-acoustic-panels.html](https://atsacoustics.com/blog/reducing-restaurant-noise-with-acoustic-panels.html)

Noisy restaurants are a frustrating and growing concern among many industry participants. Patrons want to converse easily without neighboring noise and echoing music. Servers need to be heard without shouting to their clients and kitchen staff. Owners strive for high reviews among a community where online reservation services now allow noise level ratings.

Simply turning the music down or accepting an energetic “hubbub” isn’t the only answer to obtaining quality acoustics in a dining or entertainment atmosphere. Adding absorptive materials, such as [Acoustic Treatments](#), to the venue will help noise levels and conversational intelligibility.

## Hard Surfaces lead to Noisy Restaurants

The days of comfortable aesthetics that favored wall-to-wall carpeting, heavy curtains, tablecloths and plush banquets are gone. As a new era of informal and fast paced dining set in, so did the push to use open kitchen plans, programmed music, exposed floors, tall ceilings, linen-free tables, and other sound-reflecting materials in restaurant designs.

Though this look is sleek and easy to maintain, without the absorbing capabilities of carpet, curtains and fabric-covered seating, many restaurants are left with a reverberating, noisy chamber that affects not only a patron’s dining enjoyment, but their hearing as well.

## Noise and the Human Ear

As sound bounces off hard surfaces, only 5% of the waves are absorbed. This leaves a whopping 95% of the sound waves free to ricochet around the room, creating an echo that can carry for up to 10 seconds. Echoes longer than 2 seconds will sound like noise because human ears only tolerate 2 or less seconds of vibration. All this excess noise is not only annoying, it can be dangerous too.

The [National Institute of Health](#) claims that prolonged exposure of 85 decibels or more can cause “gradual hearing loss” and “regular exposure of more than one



Multi-colored Acoustic Panels form a unique design at the Sweet Basil Cafe.

minute” to 100 decibels can lead to “risks of permanent hearing loss” (Hearing Protection, NIH). According to *restaurantnoise.com*, the typical restaurant operates at an 80 decibel level with some reaching to as much as 110 decibels. This is as loud as a power mower! To put this in perspective, the volume needed for comfortable conversation is around 60 decibels (National Restaurant Association).

## **Treatments for Restaurant Acoustics**

Treating a restaurant or other entertainment venue can be easy and affordable. A common aim is to create a sound level that allows patrons to hear one another, but doesn’t make it so quiet that parties at other tables can overhear the conversation.

There are many options for Acoustic Treatments that are available to restaurants, bars, clubs, wineries and cafe owners. A good way to start absorbing reverberant noise is to cover two perpendicular surfaces with sound-absorbing material. For example, by treating the ceiling with Acoustic Baffles and at least one wall with Acoustic Panels, sound waves cannot bounce back and forth both horizontally and vertically.

Another common way to treat restaurants is to place Acoustic Panels directly on the ceiling. Ted’s on Main placed these 4” thick Acoustic Panels on the ceiling, as shown below.

Other creative Acoustical Treatments include using Acoustic Art Panels in place of art images throughout the restaurant. The DuPage Children’s Museum recently opened a new cafe, complete with a mural of child-friendly Acoustic Art Panels.

Creating a collage or design with various colors of Acoustic Panels in original or microsuede fabric can be eye-catching and blend in with the restaurant’s current color scheme. The Sweet Basil Cafe (picture located above) installed a multi-color display to effectively absorb echo in their small cafe.



Acoustic Panels mounted on the restaurant ceiling

Any type of Acoustical Treatment incorporated into the restaurant design will be helpful in improving both the sound quality and the quality of a patron’s dining experience. Contacting our ATS Customer Service Representatives is a great place to start asking questions about appropriate applications.



# Acoustic Treatments for LEED Projects

[atsacoustics.com/blog/acoustic-treatments-for-leed-projects.html](https://atsacoustics.com/blog/acoustic-treatments-for-leed-projects.html)

Acoustical performance is increasingly being recognized as a component in sustainable interior environments. A building's acoustics affects the productivity and satisfaction of the occupants and also contributes to their health and well-being. By incorporating recyclable and sustainable materials in the design and manufacturing process, "green" sound control applications can reduce harmful noise levels and create cleaner indoor air quality to improve the overall indoor environment.

## LEED Credit Potential for Recycled Content and Indoor Air Quality.

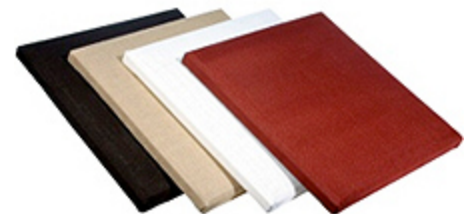
ATS Acoustics' eco-friendly acoustical treatments provide an environmental advantage over current industry standards by incorporating both high recycled content and renewable resources in our products. Our eco-friendly sound treatments can help projects meet green building standards and earn LEED points towards LEED for Schools, LEED for New Construction, and LEED for Existing Buildings.



ATS Acoustic Ceiling Panels and ATS Acoustic Eco-Panels are manufactured with an ECOSE® fiberglass core containing no formaldehyde, phenol, artificial colors or acrylics. The ECOSE® core material features low VOC's and is certified for indoor air quality as a low emitting product by the GREENGUARD Environmental Institute to both the GREENGUARD Indoor Air Quality Certification Program and the GREENGAURD Children and Schools standard.

## ATS Acoustic Eco-Panels for LEED Projects

ATS Acoustic Eco-Panels provide superior acoustical performance and impressive environmental stewardship. Eco-Panels are available in several standard sizes and fabrics, or we can meet your specifications for custom shapes and sizes. We can also custom print any art, image, or photo for a high quality, customized Art Eco-Panel.



ATS Acoustic Eco-Panels

Eco-Panel features:

- 90% pre-consumer recycled composite framing.
- 58% recycled ECOSE® fiberglass.

- ASTM E84 Class A Fire Rating available.
- Option to select alternative fabric suppliers.

### **ATS Acoustic Ceiling Panels for LEED Projects**

ATS Acoustic Ceiling Panels are a highly absorptive acoustic panel designed to fit standard 24" x 48" or 24" x 24" ceiling grid systems. They are an easy way to upgrade the acoustical quality of a room without altering the appearance and usage of wall space.



ATS Acoustic Ceiling Panels

#### **Ceiling Panel features:**

- Contains at least 50% post-consumer recycled material by weight.
- ASTM E84 Class A Fire Rating available.

Both our Acoustic Eco-Panels and Acoustic Ceiling Panels take advantage of a full, diverse range of sustainable materials. Our eco-friendly acoustic products are recommended for acoustic installations in schools, office buildings, hospitals, recreational facilities, and auditoriums....or anywhere that a green, effective sound treatment is needed.