

Noise Control in Restaurants

Restaurant Design Noise Control & Soundproofing Solutions



Noise Pollution in Restaurants

Proper restaurant design and layout should take into consideration what the room will sound like. Acoustical materials are used in restaurant interior design to create a quieter environment for a better dining experience.

Noise levels in restaurants are a growing concern for patrons, employees, and restaurant owners alike. A typical conversation averages about 60 decibels. Reviewers have noted that the average conversation in restaurants around the country is averaging 80 decibels. These noise levels can pose potential issues for diners and restaurant workers.

Noise pollution in restaurants has become such a problem that when rating restaurants, The San Francisco Chronicle, is now giving a decibel rating so diners know up front if they will be able to carry on a conversation. There are many options to choose from when noise control is a necessity. The solution is simple in solving this enigma- acoustical and soundproofing materials.

Acoustical wall panels or ceiling tiles can be used in restaurant interior design to create a more pleasurable and comfortable atmosphere or ambience. These acoustical treatments are not only effective, but aesthetically pleasing.

Materials used in restaurant layouts include:

- Acoustical Ceiling Panels
- Hanging baffles and banners
- Wall panels
- Ceiling tiles
- Acoustical foams



Acoustical Ceiling Panels

Acoustical Ceiling Panels ANC-4000: Standard Ceiling Panel

Acoustical Ceiling Panels ANC-4000 is our standard absorber panel that is perfect for most applications with the exception of use in high abuse areas. Acoustical Ceiling Panels ANC-4000 panel is available in 1" and 2" thickness with sizes up to a maximum of 4' x 10'.

Acoustical Ceiling Panels ANC-3000 Acoustic Ceiling Panel Details:

Ceiling Panel Substrate: 6-7# PCF rigid fiberglass core with optional chemically hardened edges.

Ceiling Panel Mounting: WZ clips.

Acoustical Ceiling Panel Finishes:

Guilford of Maine FR 701 Style 2100 is standard

Designer and customer specified fabrics are available

Acoustical Ceiling Panel NRC Ratings

1" : .80 - .90

2" : 1.05 - 1.15

Acoustical Ceiling Panel Edge Details: Square, Bevel, Radius, Miter

Ceiling Baffles

Why Choose Ceiling Baffles? Besides our acoustical noise control experts and their courteous assistance... Our ceiling baffles are lightweight ceiling baffles and banners you can create unlimited architectural effects that improve sound quality as well as the spaces aesthetics resulting in an ideal acoustical environment.

Ceiling Panels are designed to acoustically treat and soundproof interior wall and ceiling spaces including; schools, music rooms, universities, churches, offices and any space that has reverberation problems.

Ceiling Baffles & Banner Models Available:

ANC - 600 Premium Ceiling Baffles

ANC - 600P Standard Ceiling Baffles

ANC - 700 Ceiling Baffles

ANC - 800 Standard Ceiling Baffles

Physical Properties

Dimensions: 24" x 48"

Thickness: 1.5"

Weight: 4 pounds

Fire Rating: ASTM E 84 Class A rated

Edge Construction: Heat sealed seams

Core: 2 pound fiberglass

Surface Finish: PVC vinyl covering

Density: 2 pounds per cubic foot

Soundproofing Wall Panels

Acoustical Wall panels are sound absorbing panels that can mount directly to walls or ceilings through a variety of adhesives, impaling clips, hook & loop fasteners etc. They are designed to stop noise control issues with their powerful sound absorbing acoustical materials. They are frequently used in offices as they not only prevent noise pollution but increase speech intelligibility by reducing reverberation and echoes

- Improving sound and clarity for movies, sports, video games and a home theater
- Reduces echo and reverberation in large halls, gymnasiums, classrooms, auditoriums, and churches
- Reduces noise in crowded spaces, restaurants and bars
- Provides perfect conditions in recording studios and control rooms

What is Soundproofing?

Soundproofing prevents sound from traveling. Soundproofing products block sound from leaving or entering a room and typically located inside walls.

What is Sound Absorption?

Sound absorption is the process by which sound waves are being blocked by a soft surfaces. Sound absorption products are intended to absorb unwanted noise, like echo, within a space. Sound absorption material is often called soundproofing.

Why Choose ANC Sound Absorbing Acoustical Wall Panels?

- Our sound absorbing wall panels are Class A FIRE RATED per ASTM E-84
- Light weight easy to install on walls or ceiling applications
- Available in 1" and 2" thickness
- Sizes from 2' X 2' to 4' X 10' and custom sizes all available
- Hardened Wrapped Edge

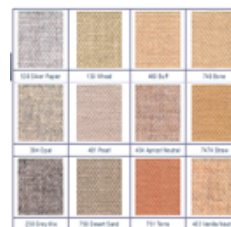
Acoustical Wall Panel Models Available:

- Acoustical Standard Wall Panels ANC-3000
- High Impact Acoustical Wall Panels ANC-3100
- Stop Noise Wall Panels ANC-3500
- Partition Kits for ANC-3000 Wall Panels
- Custom Printed Acoustical Wall Panels

Fabric Color Chart Acoustic Fabric Chart



Guilford Acoustic Fabric Acoustic Color Fabric



Ceiling Clouds

Ceiling Clouds are perfect for the reduction of sound in ceiling areas. They are suspended horizontally with D-Rings (for panels up to 4' x 4') or T-grid attachment for larger panels.

Ceiling Clouds are constructed with a 6-7# PCF rigid fiberglass absorber core. The edges are available in natural or chemically hardened and are available in 4 edge profiles.

Suspended Acoustic Solutions

Sound Absorption Ceiling clouds are a very effective treatment for the reduction of sound in ceiling areas. All Noise Control Sound Absorption Ceiling clouds are suspended horizontally, with our eye hook or t-grid attachment mounted to the cloud at the time of shipment.

Sizes: Standard up to 4' x 10' (custom sizes & shapes available)

Face & edges are wrapped in fabric or perforated vinyl to match or accentuate the room design.

Acoustic Applications - Auditoriums, Industrial Acoustics and more

Sound Absorption Ceiling Cloud Details:

Wall Panel Substrate

6-7# PCF rigid fiberglass core with optional chemically hardened edges.

Sound Absorption Ceiling Cloud Mounting:

Eye hooks

T-grid

Acoustical Ceiling Cloud NRC Ratings

1/2"	.50-.60
1"	.80-.90
1 $\frac{1}{2}$ "	.90-1.00
2"	1.05-1.15

Sound Absorption Ceiling Cloud Edge Details

Square, Bevel, Radius, Miter



Mass Loaded Vinyl Barrier, MLV

What is MLV?

Mass Loaded Vinyl (MLV) is a safe, non-toxic noise barrier designed to hang as a limp mass in a variety of soundproofing applications.

What is a soundproofing barrier?

Noise barrier or sound barrier products add mass to a wall, ceiling, floor, or enclosure serving as a highly effective soundproofing solution - at an affordable price. Soundproofing barriers are typically installed directly on the studs or joists to reduce noise transmission between the source of the sound and the destination.

What is STC?

Sound Transmission Class (STC) is a rating assigned to a material or an assembly of materials representing the transmission loss or reduction in sound between the source and the target. A standardized test, performed in an acoustics lab, measures the transmission loss between a Sound Source and a room. Measurements are taken over a range of 6 different frequencies ranging between 125Hz and 4000Hz. This frequency band covers the speech range.

Vinyl Sound Barrier - This high density thin, weighted Soundproofing barrier, constructed of non reinforced high temperature fused vinyl with no lead filters. Weighs one pound per square foot and is 1/8" thick. Apply to block transmission of sound through walls, floors, and ceilings. Also effective as a pipe and duct wrap to damper vibrations and reduce noise. Also available in a reinforced version designed to sustain it's own vertical weight for suspension.

Clear Vinyl Barrier Flexible Reinforced Material

ANC's Industrial ANC-VB60R flexible noise barrier is a 1 lb psf reinforced loaded vinyl barrier used to stop the transmission of noise from one area to another. Typically used as Barrier panels in an acoustical enclosure, or as the barrier component in Industrial composite products. Curtain panels are typically constructed with grommets across the top and mating hook and loop closures on the vertical edges. Standard rolls measure 54" wide x 30' long or 54" wide x 60' long.

Mass Loaded Vinyl Barrier, MLV

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Ceiling Tile Barrier

Ceiling Barrier Tiles with Soundproofing Vinyl Sound Barrier: We carry a ceiling tile barrier tile with 1" fiberglass & 1 pound scrim faced Vinyl Sound Barrier material. Call our specialist for details or view a usage diagram here.

Mass Loaded Soundproofing Vinyl Barrier Material Test Specs

Sound Transmittion Loss Specs - Mass Loaded Vinyl Barrier Material



Restaurant Case Studies

Soundproofing Restaurant Case Study:

Froggtown Inn & Acres Restaurant has retrofitted our clouds to their existing dining room to create a quieter and more private conversation environment by using All Noise Control clouds. Pictures courtesy of Froggtown Inn & Restaurant.

Steven Warren from Froggtown Inn & Acres Restaurant contacted All Noise Control with a typical restaurant noise issue. A quiet, quaint and relaxing environment was disrupted by travelling conversations and the going ons that happen in the general hustle of any restaurant. Dishes clanking, conversations carrying, doors opening and closing, kitchen noise, all lending to a interrupted dining experience.

esthetics being very important, All Noise Control had custom configured ceiling clouds for Froggtown Inn. After they put them in place it added a comfortable design and texture to the space and did an amazing job at absorbing the noise bouncing throughout the space.

Acoustic Ceiling Clouds are much like the name implies, absorbent materials suspended from ceiling. They can be affixed to any existing ceiling or slope and can be custom cut and sized to fit architecturally in your space. They work by absorbing the soundwaves (which are in the form of heat) and each time one of these waves reflects off the cloud, the soft open celled nature of the cloth absorbs it. To be exact it's energy is depleted. Placing them strategically through a restaurant can have an astounding effect on dining noise like it did for Froggtown Inn & Acres Restaurant.

