

# Hospitals Soundproofing



Clean room environments impose sanitation constraints diametrically opposed to the basic construction of noise control materials and systems.

Clean rooms require washable, cleanable, dust and fiber free supply materials. Clean rooms usually are designed with hard and reflective floor and wall treatments, which create a high level of reverberation or echo leading to poor speech intelligibility within the clean room.

## Acoustical Materials:

- Industrial FDA Approved Baffles
- Clean Room Wall Panels
- Clean Room Ceiling Tiles
- Vinyl Sound Barrier
- Wall panels
- Acoustical wall fabrics
- 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

## 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 fasters 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 &frac12	.90-1.00
2"	1.05-1.15

### Sound Absorption Ceiling Cloud Edge Details:

Square, Bevel, Radius, Miter



SPEC DATA SHEET

# SOUND ABSORBERS

## BAFFLE-SERIES FIBERGLASS ABSORBERS

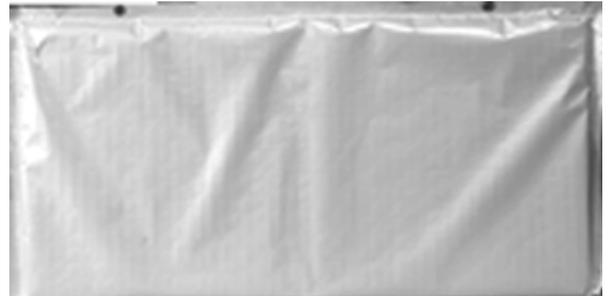
### SANITARY BAFFLE

Baffles reduce the reflection of sound waves by adding soft, porous, open-celled materials to an environment. These USDA approved baffles are a durable and virtually rip-proof method of adding sound absorption to reverberant areas. The sound absorption core is completely encapsulated in a reinforced polyester film. The white facing reflects light, which adds to the illumination in a room. Standard size is 4'x2' with two brass grommets on one four foot side.

- USDA approved
- Washable
- Stain resistant
- NRC rating up to 12.8 per 4'x2' baffle
- Choice of core densities (1.6 lb or 3.0 lb)

### APPLICATION

Typical uses include in food processing plants, bottling lines, clean rooms, hospitals, wineries, swimming pools, animal hospitals, and institutional kitchens.



### PRODUCT DATA:

Description 1.6 lb/ft<sup>3</sup> or 3.0 lb/ft<sup>3</sup> fiberglass core fully encapsulated in a virtually rip proof reinforced white reinforced polyester film.

Nominal thickness Type "A" -1 1/2" : Type "B" -2"  
Standard sizes 48" x 24"  
Temperature Range -40° to +220° F

(SABINS per 4'x2' baffle)

Product	OCTAVE BAND FREQUENCIES (Hz)						
	125	250	500	1000	2000	4000 N	RC
Type "A" 1	.15	5.26 8	.00	10.9	9.34 5	.50	8.40
Type "B" 1	.00	8.09	14.65	15.72	12.68 4	.93	12.8

Test method: ASTM C423-90a and C423-81

# 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 Transmission Loss Specs - Mass Loaded Vinyl Barrier Material](#)

# Office Case Studies

One of the Esquire Magazines executive offices required soundproofing for confidentiality. The office was the meeting place for strategic confidential sessions. Esquire needed minimal sound transmission material as the main issue was the sound escaping the rooms through the ceiling tiles and walls.

The ANC-CBF22 soundproofing ceiling tile barrier installs immediately above the existing ceiling tile reducing the sound transmission through the space above the ceiling tiles and through the materials. Sound travels along materials and its reverberation carries that sound through the ceiling grids and suspension ties. The soundproofing ceiling tile barrier reduces this effect due to its mass and density.

For the walls, the ANC-3500 noise control wall panels with vinyl barrier were used which served as a double function to stop sound through the walls and absorb the echo and noise inside the room. Less echo and sound inside the room means weaker sound transmission through materials used in the construct of the office.

The two products installed in unison created better speech intelligibility inside the room creating very balanced acoustics and the ultimate in privacy. Attendees using the room "heard" the privacy and the acoustic balance resulting in more comfortable future meetings.

Boeing's Arizona facilities they had an on-going sound problem between work areas and office areas.

At one of Boeing's Arizona facilities they had an on-going sound problem between work areas and office areas. These types of problems typically effect the tangent office areas in multiple ways including loss of productivity and danger of constant sound levels. All Noise Control was contacted to solve this problem.

After discussing and reviewing the sound issues, All Noise Control clearly saw this as a sound transmission control problem. Sound needed to be kept from transmitting from the work areas into neighboring office space.

While absorbents would help in dealing with the sound levels, the problem was specifically preventing the noise from interrupting the office work environment.

All Noise Control's AB-1, Noise Control Blanket and Noise Control Curtain systems were perfect fit for such a portion. The Noise Control Blankets, AB-1, boasting ranges of 15 to 20+ decibel level drops. These sturdy blankets can be suspended easily allowing them to fit into any existing environment from hardware or existing structures with grommets or acoustic blanket & curtain hardware.

The result was a quiet office that employees could focus and handle office calls, discussions and daily work more efficiently in a safer environment. Mr. Hoffpauir was pleased with the outcome and the acoustic solutions provided him at the Boeing Arizona facility.