

NOISE CONTROL IN CLASSROOMS

Classroom Design Noise Control & Soundproofing Solutions



CLASSROOM ACOUSTICS

Classroom design and layouts with good acoustics help students understand what educators are teaching and allows students to have a better understanding of the lessons with fewer distractions.

Proper design and layout in a classroom environment will add acoustical wall panels or acoustical ceiling tiles to break up the hard wall and ceiling surfaces used in typical classroom environment.

Materials to reduce noise and to create a learning-friendly classroom design include Soundproofing and Isolation products materials:

- Vinyl Sound Barrier
- Hanging baffles and banners
- Wall panels
- Acoustical wall fabrics
- Ceiling tiles

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 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 are typically located inside walls.

What is Sound Absorption?

Sound absorption is the process by which sound waves are being blocked by a soft surface. 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

CEILING CLOUDS



Ceiling Clouds are perfect for the reduction of sound in ceiling areas. They are suspended horizontally with D-Ring (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

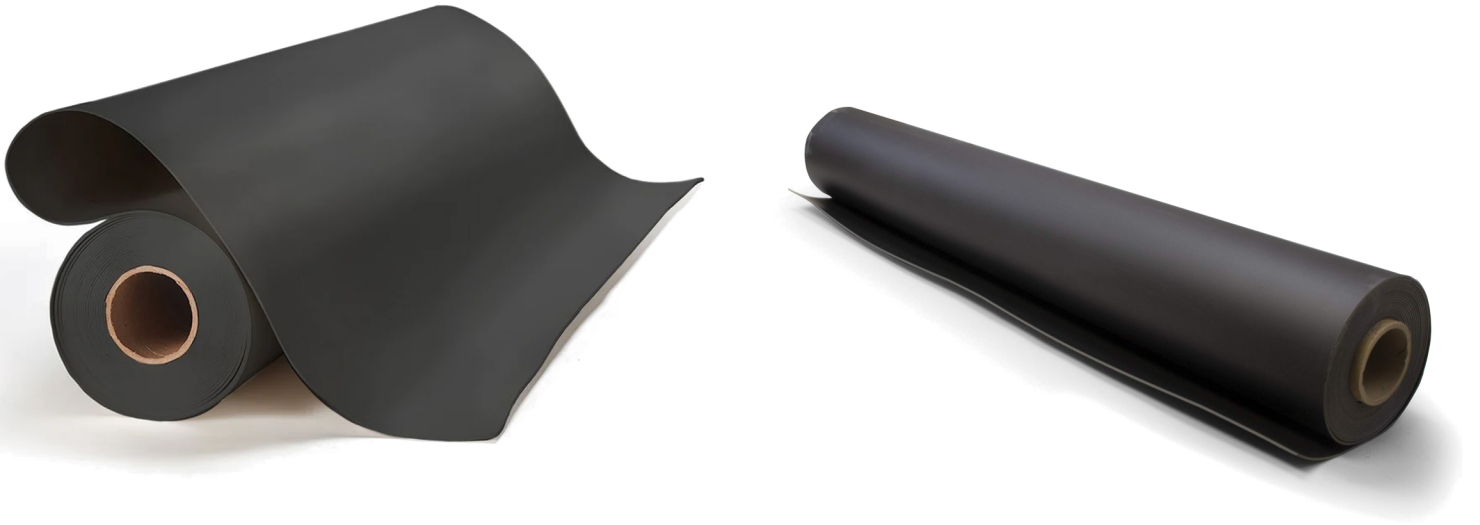
1 1/2" .90-1.00

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 joist 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 acoustic 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

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