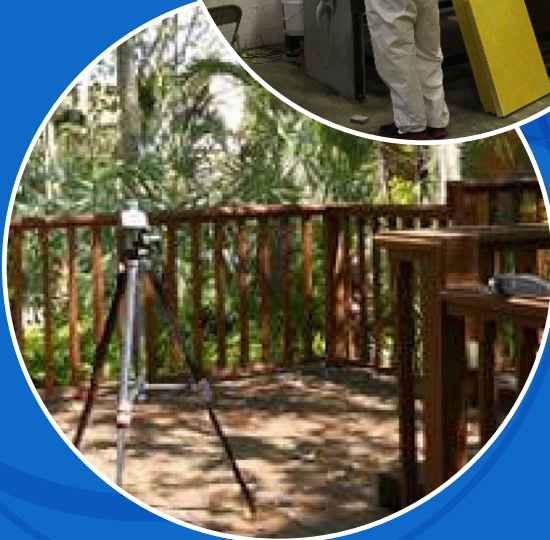




# Best Benner Building Corp.

*Everything for Noise Control*



# ABOUT US

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Best Benner Building Corp are acoustic specialists providing soundproofing materials for apartments building, schools, offices, recording studios, TV and radio stations.

Our soundproofing products include sound absorbing panels, acoustic wall panels, ceiling tiles, sound barriers, acoustic doors, acoustic diffusers, acoustic fabric, baffles and sound absorbing foam.

Our modern and specialized equipment for the manufacturing and assembly of our products allows our designers freedom to design panels of any shape.

Our highly qualified and experienced acoustic engineers offer expertise over a wide portfolio of projects around the world. Let us help with your soundproofing needs. As specialists in environmental noise, architectural acoustics, building acoustics as well as entertainment noise monitoring and assessments, we have a vast experience in noise survey and Building Noise Control requirements.

1. Evaluate noise levels or sound exposure in the work place to determine if the noise environment is in compliance with local noise ordinances.

if the noise environment is in compliance with local noise ordinances.

2. Evaluate community response to an external source of noise.
3. Evaluate whether a given acoustical environment is acceptable to resident or inhabitants.
4. Establish noise level contours at a selected site.

Thanks to our top of the range equipment we are capable of taking on small to large scale projects, always at very competitive rates.

## ACOUSTIC PANEL / BENNER PANELS



Benner Panels are highly aesthetic and popularly customized. They offer an elegant and economical sound absorption solution. Benner Panels offer a variety of sizes and shapes available in hundreds of colors. They provide ideal results for noise reverberation (echo) control and are impressively decorative which allows them to accommodate to any workable environment.

This is our most popular panel, they are covered with an acoustically transparent and very decorative fabric, the fabrics allow for the variety in colors as well as variety in the texture of the fabric. The fabrics that are used are offered in an assortment of different textures. Benner Panels are ideal for spaces with high reverberation time.

Our Benner Panels are designed to improve sound quality and to provide a decorative look within a room.



## MANUFACTURING

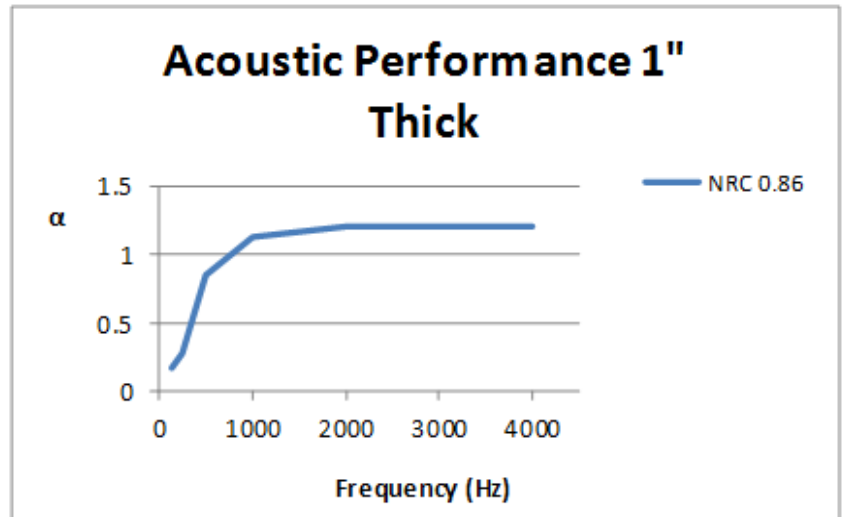


Manufactures Standard panel construction consisting of facing material stretched over front face of edge-framed, dimensionally stable, rigid glass-fiber board core and borders or attached to edges and back of frames and complying with the following requirements:

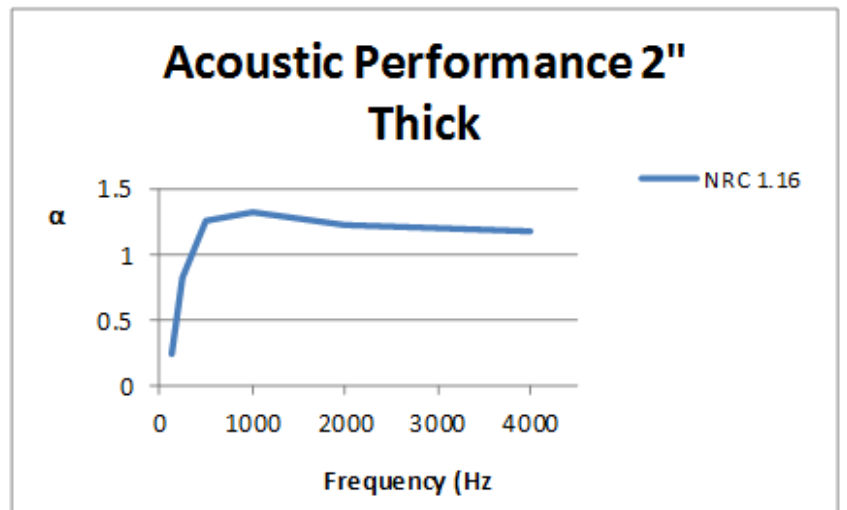
1. **Facing Material:** Stretched Panel Fabric Guilford of Maine FR 701 Style 2100, Carnegie, Stinson (or other fabrics of similar characteristics)
2. **Nominal core Density:** 4-7 lbs /Ft3 (64 - 112 Kg/m3)
3. **Framing:** Manufacturer's standard metal, wood framing system or resin hardened frame.

## ACOUSTICAL PERFORMANCE

Acoustic Performance 1" Thick	
Noise Reduction Coefficient 0.86	
Absorption Coef. ( $\alpha$ )	Frequency (Hz)
0.16	125
0.27	250
0.85	500
1.13	1000
1.2	2000
1.21	4000
<b>0.86</b>	<b>NRC</b>



Acoustic Performance 2" Thick	
Noise Reduction Coefficient 0.86	
Absorption Coef. ( $\alpha$ )	Frequency (Hz)
0.24	125
0.82	250
1.26	500
1.32	1000
1.23	2000
1.17	4000
<b>1.16</b>	<b>NRC</b>



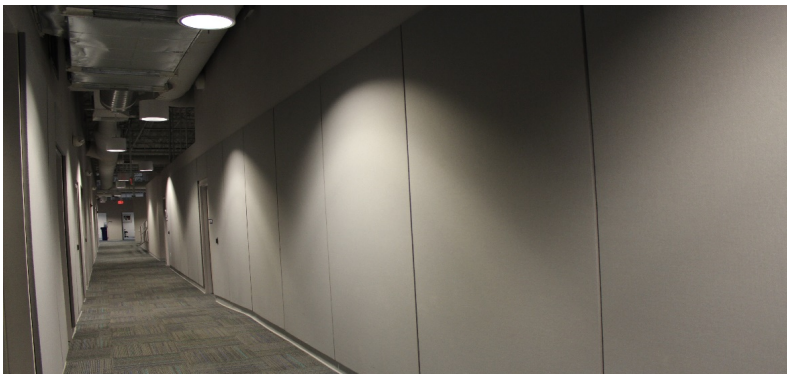
## GEOMETRIC BENNER PANELS

Geometric Benner panels are used to absorb noise in reverberant spaces such as restaurants, offices, churches, recording studios, homes, etc. These acoustic panels have different shapes and multiple colors, so that they can be visually pleasing and unique. Geometric Panels offers a combination of sound control and comfortable decoration.



1. **Facing Material:** Stretched Panel Fabric Guilford of Maine FR 701 Style 2100 , Carnegie, Stinson (or other fabrics of similar characteristics)
2. **Nominal core Density:** 4-7 lbs /Ft<sup>3</sup> (64 - 112 Kg/m<sup>3</sup>).
3. **Thickness:** 1"-3".
4. **NRC.** 0.86 – 1.20
5. **Sizes:** up to 4' x 10'

## HIGH IMPACT BENNER PANEL



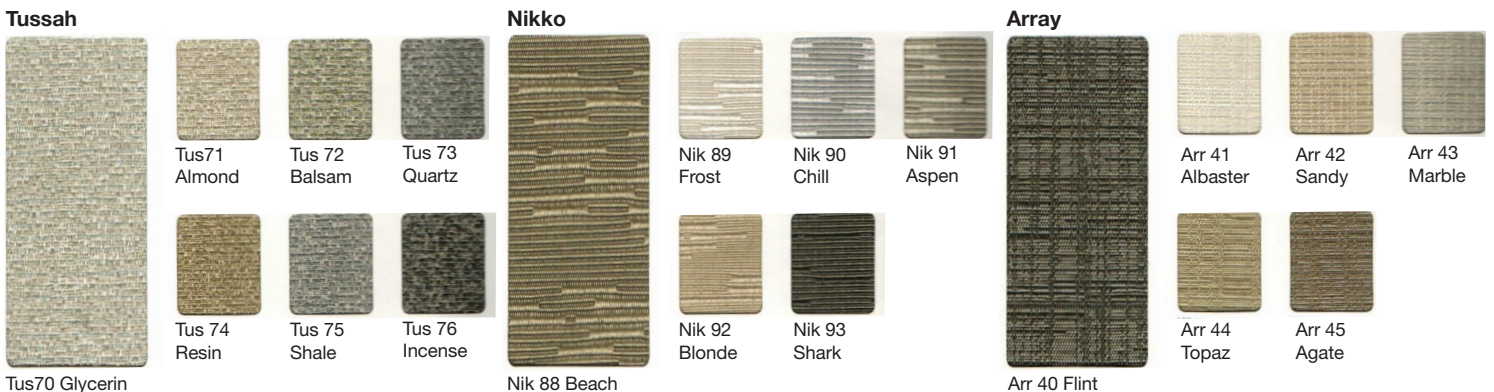
1. **Facing Material:** Stretched Panel Fabric Guilford of Maine FR 701 Style 2100 , Carnegie, Stinson (or other fabrics of similar characteristics)
2. **Nominal core Density:** 4-7 lbs /Ft<sup>3</sup> (64 - 112 Kg/m<sup>3</sup>), 1/8" fiberglass 18-lbs/ Ft<sup>3</sup>
3. **Thickness:** 0.625"-4.125".
4. **NRC.** 0.80 – 1.25
5. **Sizes:** up to 4' x 10'

## FABRIC AND COLOR CHOICE - GUILFORD OF MAINE FR 701

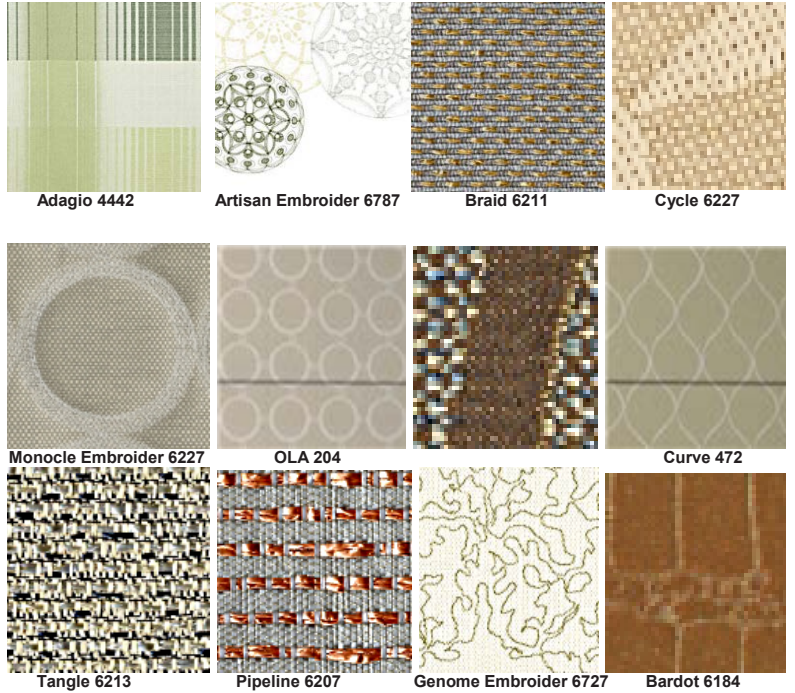
We have more than 100 colors to choice



## CF STINSON FABRIC COLOR



## CARNEGIE FABRIC COLORS



## PRINTED PANELS

Custom Acoustic Printed Panels are the perfect solution wherever art and sound- absorption is needed. They look nice and we can incorporate your photos, logos and graphics. Our panels can create a continue mural using an acoustic wall and ceiling printed panel.



## ACOUSTICAL PERFORMANCE

### Technical Properties

#### Panels Fire Resistance

The fiber glass acoustic panels that we use provide very good fire resistant properties. It shows a flame spread of 25 or less as per ASTM E 84 by UL Flame Spread: 25 (class A). Smoke developed: 450 or less, smoke developed: 50.



#### Nominal Overall Dimensions

**Panel Thickness:** Manufacturer's Standard

- 2" inches Rigid Fiber-Glass
- 1" inches Rigid Fiber-Glass

**Panel Widths:** 24", 48", or custom

**Panel Height:** 2', 4', 6', 8', 9', & 10'.

**Edge detail:** Square or custom

#### Weight

Nominal Core Density 4 – 7lbs/ ft3 ( 64 – 112 kg/ m3)

### Panels Installation

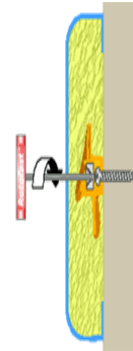
4 Mounting Options (Mounting per ASTM E 795)



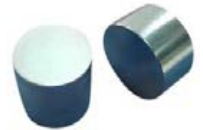
CLIPS



Z-CLIPS



ROTOFAST



MAGNET

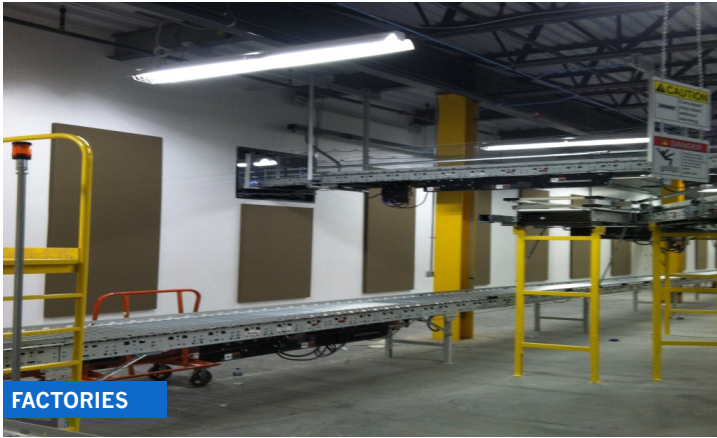
### Projects

Benner Acoustic panels can be installed in Radio Studios, Recording Studios, Schools, Offices, Restaurants, Hotels, Houses of Worship, or any other facility with the need of noise control.





Projects Cont.



FACTORIES



ART GALLERIES



RESTAURANTS



SCHOOLS

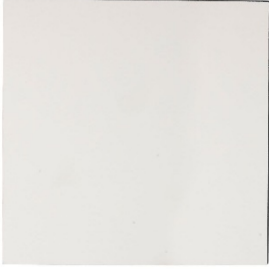


CUBICLES



RECORDING STUDIOS

## PAINTABLE PANELS



These panels can be painted without affecting the acoustic performance. Paintable Panels employ the same fiberglass board construction as our Benner Panels, being able to apply any type of paint, this allow you to match or complement existing wall colors. You can paint them yourself, or we can pre-paint them to your specific color. These panels comes standard in color white.

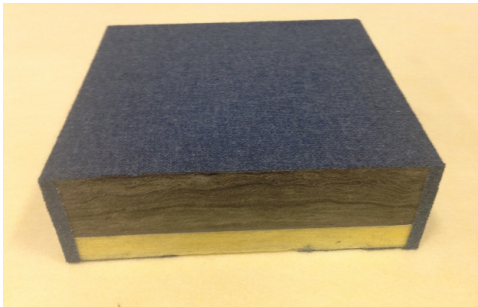
### Manufacturing:

1. Nominal core Density: 4-7 lbs /Ft<sup>3</sup> (64 - 112 Kg/m<sup>3</sup>)
2. Woven fiberglass mesh. 3. Resin Hardened edges.
4. Water based latex paint



Acoustic Performance 2" Thick Noise Reduction Coefficient 0.86	
Absorption Coef. (α)	Frequency (Hz)
0.64	125
0.85	250
1.1	500
1.0	1000
0.98	2000
0.90	4000
<b>0.98</b>	<b>NRC</b>

## BENNER BARRIER PANELS



Combines sound absorption and sound barrier technology. This panel is the solution for áreas that require noise reduction and sound absorption. Benner Barrier Panels are constructed using two layers of rigid fiberglass and a layer of Sound Barrier SB. Panels must be installed from floor to ceiling.

### Acoustical Performance

2" Thick	NRC .85	STC 30
3" Thick	NRC .90	STC 35

## TECHNICAL PROPERTIES

### Nominal Overall Dimensions

**Panel Thickness:** Manufacturer's Standard

- 2" inches
- 3" inches

**Panel Widths:** 24", 48", or custom

**Panel Height:** 2', 4', 6', 8', 9', & 10'.

**Edge detail:** Square

### Applications

- Recording Studios.
- Apartment Buildings.
- Schools
- Hotels.

## STRETCHED FABRIC



An elegant acoustical solution designed for ceiling and walls of any space. Stretch Systems are a seamless, tackles and installed on site. The result is a monolithic surface with excellent acoustical properties and comfortable decoration.

### Applications:

Large Auditoriums, Offices, Theaters, Home Theater.

### Fabric Colors

We have more than 100 colors to choice

## BENNER BAFFLES

Ceiling Baffles are the solution for any large space that has reverberation problems. Baffles can be arranged to create various architectural affects with various colors, sizes and models. Installation of Baffles in rows 24" to 36" apart over an entire reverberant area can result in an optimum acoustical environment. The work consists of furnishing all labor, materials, accessories and equipment necessary to cover all areas shown on the drawings and specified.

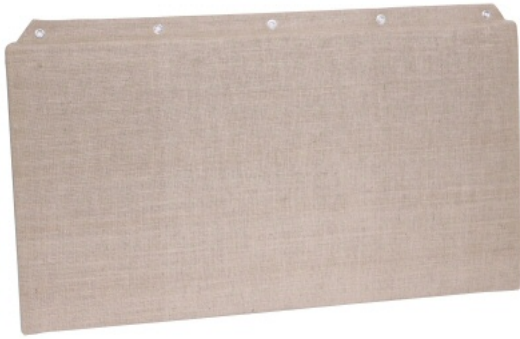
Our Hanging Acoustic Baffles are ideal for areas where reverberation from hard surface is an issue, designed to improve sound quality and to provide a decorative look within a room. Benner Baffles are highly aesthetic and popularly customized.

They offer an elegant and economical sound absorption solution. They are ideal for spaces with high reverberation time



## ACOUSTICAL PERFORMANCE

### Baffles Installation



### N.R.C. Sabins per Baffle

Baffles Acoustic Performance 1" Noise Reduction Coefficient 0.70	
Absorption Coeff. ( $\alpha$ )	Frequency (Hz)
0.16	125
0.37	250
0.66	500
0.83	1000
0.91	2000
0.91	4000
<b>0.70</b>	<b>NRC</b>

Baffles Acoustic Performance 2" Noise Reduction Coefficient 0.80	
Absorption Coeff. ( $\alpha$ )	Frequency (Hz)
0.12	125
0.41	250
0.82	500
0.95	1000
1.01	2000
1.01	4000
<b>0.80</b>	<b>NRC</b>

### Nominal Overall Dimensions

**Core:** #1.5-3 Fiberglass

**Thickness:** 1"-.2"

**Sizes:** 2', 4', 6', or custom. (Max 4' x 8')

**Width:** 24", 48", or custom.

**Edges:** Natural or custom

**Geometry:** Rectangular

### Weight

Nominal core Density: 5-10 lbs

### Fire Resistance

Incombustibility: The product is Class "A" as per ASTM E84 25/0/50. The baffles that we use provide very good fire resistant properties. Showing a flame spread of 25 or less as per ASTM E 84 by UL Flame Spread: 25 (class A). Smoke developed: 450 or less, smoke developed: 50.

### Cleaning and Maintenance

The baffles are designed for long term use in building environments with minimal maintenance. However, they can be vacuum cleaned as per customer desire; additionally any marks may be cleaned with a damp cloth/ wipe.

## INSTALLATION

### Suspension Provision:

Baffles hang from ceilings from galvanized chains, fastened to the ceiling, all Baffles are factory equipped with eyelets. Grommets: Standard nickel plated, stainless steel grommets available for highly corrosive environments, and brass.

### Location:

Benner Baffles can be placed and spaced as detailed on reflected ceiling plans and/ or detailed on the interior elevation drawings.

### Attachment Method:

Plastic tie, coated wire tire, or stainless steel tie.

## PROJECTS



Gymnasiums

Baffles are most effective in gymnasiums, warehouses, and open offices. But they are not limited to just these areas; baffles can be installed in Radio Studios, Recording Studios, Schools, Offices, Warehouses, Hotels, Houses of Worship, or any other facility with the need of noise control.



Factories

## BENNER CEILING TILES



Our acoustic ceiling tiles offer excellent acoustic with customized options and good aesthetics. Acoustic tiles are available in 1" or 2" thickness with standard sizes to fit a 2'x2' or 2'x4' lay in ceiling tile grid.

**Benner Acoustic Ceiling tiles are manufactured from high density fiberglass. These tiles offer outstanding levels of sound absorption and excellent resistance to high humidity, with a clean, crisp white appearance.**



### Applications:

- Private Offices
- Conference Rooms
- Theaters
- Sound Stages
- Education
- Medical Exam Rooms
- Financial Institutions

## ACOUSTIC PERFORMANCE

Product	Thickness	125	250	500	1000	2000	4000	NRC
Benner Acoustic Ceiling	1"	0.14	0.27	0.85	1.20	1.15	1.14	0.87

**NRC Rating.**  
 1"-----0.87  
 2"-----1.15

**Fire Rating:** Class A per ASTM E-84

## BENNER BARRIER TILE



This Tile combines Sound Barrier SB with Benner Acoustic Tile 1" thick, as result a high sound transmission class (STC) rating and noise reduction coefficient (NRC) is obtained. Especially well-Suited to minimized sound transmission between adjacent spaces sharing a common plenum.

### Applications:

- Private Offices
- Conference Rooms
- Theaters
- Sound Stages
- Education
- Medical Exam Rooms
- Financial Institutions

## ACOUSTIC PERFORMANCE

Product	Thickness	Sound Absorption (octave frequencies in Hz)						NRC
		125	250	500	1000	2000	4000	
Benner Barrier Tile	1"	0.14	0.27	0.85	1.20	1.15	1.14	0.87

Product	Thickness	Transmission Loss dB (octave frequencies in Hz)						STC
		125	250	500	1000	2000	4000	
Benner Barrier Tile	1"	12	17	23	28	33	37	28

**Fire Rating:** Class A per ASTM E-8

## BENNER CEILING PANELS

### Benner Ceiling Panels.

Benner ceiling hanging panels are a system of absorbing sound with a nice appearance without use suspended ceiling. They offer an elegant and economical sound absorption solution.

#### Applications:

- Homes
- Offices
- Conference Rooms
- Schools

#### Acoustic Performance

Acoustic Performance 1" Thick Noise Reduction Coefficient 0.86	
Absorption Coef. ( $\alpha$ )	Frequency (Hz)
0.16	125
0.27	250
0.85	500
1.13	1000
1.2	2000
1.21	4000
<b>0.86</b>	<b>NRC</b>



## FABRIC AND COLOR CHOICE - GUILFORD OF MAINE FR 701

We have more than 100 colors to choice



2100-424  
Amethyst



2100-404  
Apricot Neutral



2100-381  
Aquamarine



2100-153  
Baltic



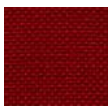
2100-481  
Pearl



2100-423  
Pumice



2100-380  
Quartz



2100-799  
Red



2100-408  
Black



2100-401  
Blue Neutral



2100-539  
Blue Papier



2100-553  
Blue Plum



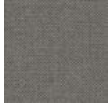
2100-475  
Sienna



2100-406  
Silver Neutral



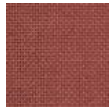
2100-538  
Silver Papier



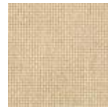
2100-471  
Steel Grey



2100-748  
Bone



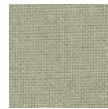
2100-545  
Bronze



2100-460  
Buff



2100-750  
Cement Mix



2100-757  
Stream



2100-797  
Sunshine



2100-751  
Terra



2100-470  
Ultramarine



2100-793  
Chocolate



2100-549  
Chrome Green



2100-422  
Cinnabar



2100-418  
Claret Accent



2100-561  
Verte Papier



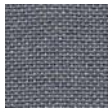
2100-753  
Violet



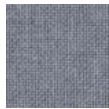
2100-150  
Wedgewood



2100-130  
Wheat



2100-794  
Coin



2100-175  
Crystal Blue



2100-556  
Deep Burgundy



2100-758  
Desert Sand



2100-486  
Bayberry



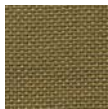
2100-400  
Cherry Neutral



2100-467  
Blue Spruce



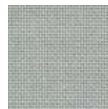
2100-420  
Cobalt



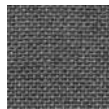
2100-792  
Earth



2100-144  
Eggshell\*



2100-468  
Eucalyptus



2100-795  
Flannel



2100-749  
Dune



2100-402  
Green Neutral



2100-755  
Leaf



2100-394  
Opal



2100-238  
Grey Mix



2100-798  
Iris



2100-756  
Lake



2100-405  
Lavender Neutral



2100-754  
Light Moss



2100-572  
Lilac



2100-298  
Medium Grey



2100-796  
Moleskin



## BENNER BLACK BOARDS



Black acoustic board provides excellent acoustical performance for multiplex theaters, sound studios and performing arts centers, mechanical rooms. Depending on specified thickness, Black acoustic board absorbs up to 100% of the sound striking its surface. Black acoustic board helps provide the highest quality audio reproduction by reducing sound reverberation within spaces and reduce the noise in mechanical rooms. Benner Black Boards can be easily installed directly to the walls or roof deck.

### SOUND ABSORPTION COEFFICIENTS, 1/3 OCTAVE BANDS

Density	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
2.25 PCF (36 kg/m <sup>3</sup> )	2" (51 mm)	.26	.62	1.05	1.07	1.04	1.05	.95
3.0 PCF (48 kg/m <sup>3</sup> )	1" (25 mm)	.13	.24	.56	.83	.92	.98	.65
3.0 PCF (48 kg/m <sup>3</sup> )	1.5" (38 mm)	.19	.41	.89	1.02	1.03	1.04	.85
3.0 PCF (48 kg/m <sup>3</sup> )	2" (51 mm)	.33	.67	1.07	1.07	1.03	1.06	.95

This is a flexible fiberglass with durable mat facing and an acrylic coating that contains an EPA registered, immobilized antimicrobial agent. It can be easily cut to any size or shape with a knife, steel rule die, or shears, can be firmly bonded to metals, plastics, and other materials with commercial adhesives or mechanical fasteners. The antimicrobial agent resists the growth of bacteria and fungi.

**Dimensions:** 2'x4', 4'x8', 4'x50' rolls.



## BENNER QUILT



Best Benner offers the most economic and efficient Quilted Fiberglass Absorber available today. Acoustic Quilt reduce the reflection of sound waves, control flutter echo and reverberation time.

### Applications:

- Manufacturing Areas
- TV Studios
- Multi-Purpose Rooms
- Curtain Walls
- Available in 50 colors.

### Overview:

Acoustic Quilt product consists of two layer of Guilford of Maine fabric on both sides of 2" fiberglass. Quilted are constructed with all edges bound. These blankets may be wall mounted, ceiling mounted, hung in curtain track system.

### Product Data:

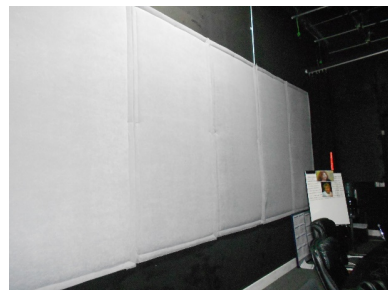
Description	Guilford of Maine fabric facing/ fiberglass batt.
Temperature range	-13 deg. to 150 deg. F
Standard Width	48" wide
Roll Length	25' long
Weight	0.52 lb psf
Flammability	Flame Spread: 15 Smoke Developed: 150

Model	Size	Thickness	NRC
Model AQ-15	4'X10' or custom	1.5"	0.80
Model AQ-20	4'x8' or custom	2"	0.98
Model AQ-30	4'x8' or custom	3"	1.04

### SOUND ABSORPTION COEFICIENTS

Octave Band Frequencies(Hz)	125	250	500	1000	2000	4000
AQ-15	.09	.37	.82	1.00	1.04	1.00
AQ-20	.19	.71	1.02	1.14	1.07	1.05
AQ-30	.39	.85	1.08	1.16	1.08	1.06

## INSTALLATION



Option to install Acoustic Quilt over drywall should be with 1" nails or with 2" staples at 24" oc, to install this material over concrete wall or metal ceiling HILTI Pins with washers should be used.

## QUILT FIBERGLASS



For high absorption and maximum resistance to dirt, oil, grime and grease, this material is very effective. Quilt Fiberglass is constructed of strong and flexible fabric. These blankets may be wall mounted, hung in curtain track systems and used to construct equipment enclosures.

### Features:

- Class 1 fire-rated
- Sound absorption rating NRC .85
- Sold as custom-sized blankets by roll (roll size 4'x25', bound or unbound.
- Options include grommets.
- Durable, cost effective and easy to clean.

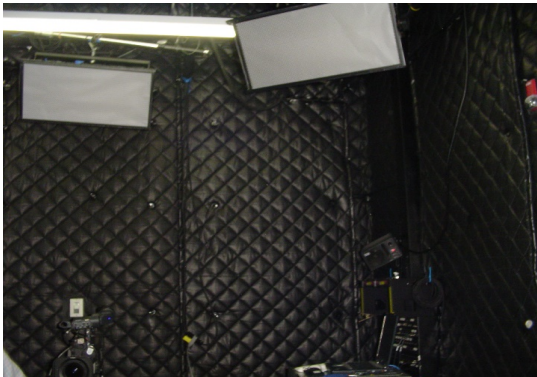
### Applications:

- Industrial Noise Control.
- TV Studios.
- Gymnasiums.
- Multipurpose Rooms.

**Colors:** Gray, Black, White and Tan.

### SOUND ABSORPTION COEFFICIENTS

Quilt Fiberglass Absorber 2"thickness.	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
	0.19	0.99	0.96	0.80	0.57	0.33	0.85



## PRODUCT DESCRIPTION



### Acoustical Foams: Pyramid

Acoustical Foam offers a great combination of absorption and diffusion at a very economic price. This foam is highly recommended for small and medium sized areas such as vocal booths, editing rooms, and small studios.

### Acoustical Performance

#### 1" PYRAMID

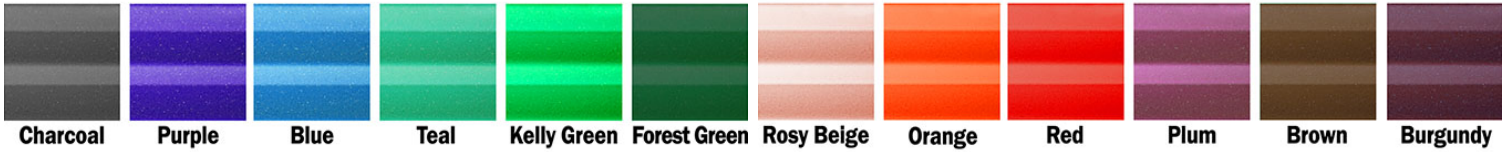
Frequencies	Sound Absorption	NRC
125 Hz	0.12	0.50
250 Hz	0.24	
500 Hz	0.30	
1000 Hz	0.55	
2000 Hz	0.95	
4000 Hz	1.02	

#### 2" PYRAMID

Frequencies	Sound Absorption	NRC
125 Hz	0.14	0.71
250 Hz	0.29	
500 Hz	0.60	
1000 Hz	0.89	
2000 Hz	1.04	
4000 Hz	1.03	

## COLORS

Available in 12 colors.



### Nominal Overall Dimensions

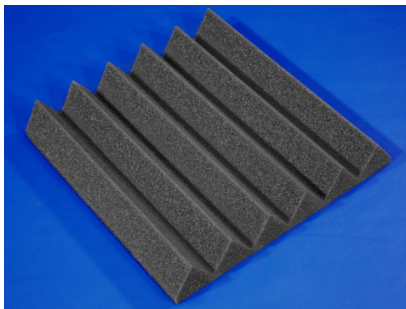
**Panel Thickness:** Manufacturer's Standard

- 1" inches
- 2"-4" inches

**Panel Widths:** 24", 48", or custom

**Panel Height:** 2', 4', 6'.

## PRODUCT DESCRIPTION



### Product Description Acoustical Foams: Wedge

Wedge foam provides high sound absorption on wall or ceiling. Offers all with inexpensive pricing. Recommend for small and medium sized areas such as vocal booths, editing rooms and small studios.

### Acoustical Performance

**1" WEDGE**

Frequencies	Sound Absorption	NRC
125 Hz	0.10	0.40
250 Hz	0.20	
500 Hz	0.40	
1000 Hz	0.50	
2000 Hz	0.55	
4000 Hz	0.60	

**2" WEDGE**

Frequencies	Sound Absorption	NRC
125 Hz	0.20	0.65
250 Hz	0.30	
500 Hz	0.70	
1000 Hz	0.80	
2000 Hz	0.85	
4000 Hz	1.02	

### Colors

Color pallet, 12 available colors, same as previous product.

### Nominal Overall Dimensions

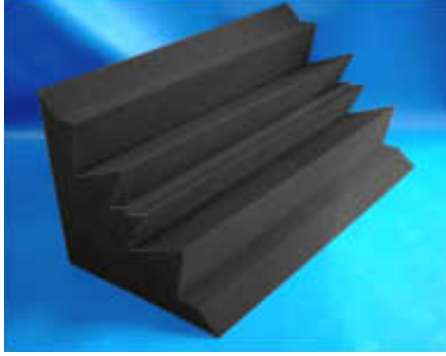
**Panel Thickness:** Manufacturer's Standard

- 1" inches
- 2"-4" inches

**Panel Widths:** 24", 48", or custom

**Panel Height:** 2', 4', 6'.

## PRODUCT DESCRIPTION



### Acoustical Foam: Corner Bass Trap

This material is designed for low frequency absorption. The Corner Bass Trap is available in heights of 2' and 4' feet tall, both having a 12" inches in depth.

#### Acoustical Performance

Frequencies	Sound Absorption	NRC
125 Hz	1.25	1.35
250 Hz	1.26	
500 Hz	1.47	
1000 Hz	1.42	
2000 Hz	1.24	
4000 Hz	1.29	

#### Colors

Color pallet, 12 available colors, same as previous product.

## BENNER FOAM FLAT



Designed to provide maximum absorption to an economic price. It has a fine structure that help give it a high sound absorption performance over conventional foam.

#### Acoustical Performance

1" Thick		
Frequencies	Sound Absorption	NRC
125 Hz	0.10	0.39
250 Hz	0.15	
500 Hz	0.38	
1000 Hz	0.48	
2000 Hz	0.55	
4000 Hz	0.65	

2" Thick		
Frequencies	Sound Absorption	NRC
125 Hz	0.15	0.57
250 Hz	0.25	
500 Hz	0.40	
1000 Hz	0.80	
2000 Hz	0.85	
4000 Hz	1.02	

#### Colors

Colors charcoal, light gray & white.

#### Nominal Overall Dimensions

**Panel Thickness:** Manufacturer's Standard

- 1" inches
- 2" inches

**Panel Widths:** 24", 48", or custom

**Panel Height:** 2', 4', 6'.

## MELAMINE FOAM



Melamine is an open-cell foam based on melamine resin. This foam provide maximum absorption to an economic price.

### Specifications Sheet

**Panel Thickness:** Manufacturer's Standard  
• 1"-3" inches

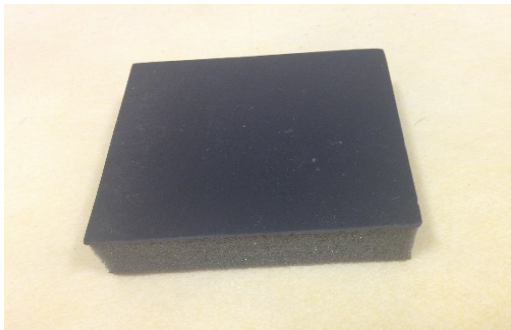
### Acoustical Performance

1" thick - NRC 0.75  
2" thick - NRC 0.82  
3" thick - NRC 0.90

### Colors

Light gray & white.

## BENNER FOAM BARRIER



Combine the absorption properties of acoustical foam with the sound isolation of Sound Barrier vinyl.

### Specifications Sheet

**Standard Roll Size** 54" x 30'  
**Thickness** 3/8"-1".

### Acoustical Performance.

Sound Transmission Class (STC) 27

### Color

Charcoal

## BENNER FOAM WAVE



Benner Foam Wave offers a combination of absorption, diffusion and elegant look at a very economic price.

### Specifications Sheet

Available in 1" & 2".

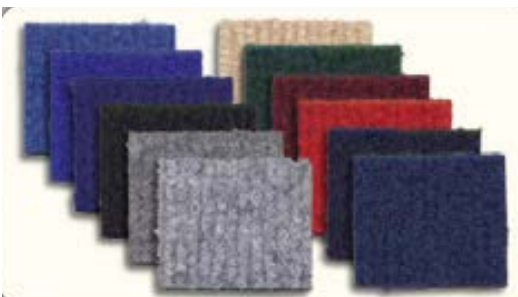
### Acoustical Performance.

1" thick - NRC 0.75  
2" thick - NRC 0.82

### Color

Charcoal

## BENNER FABRIC

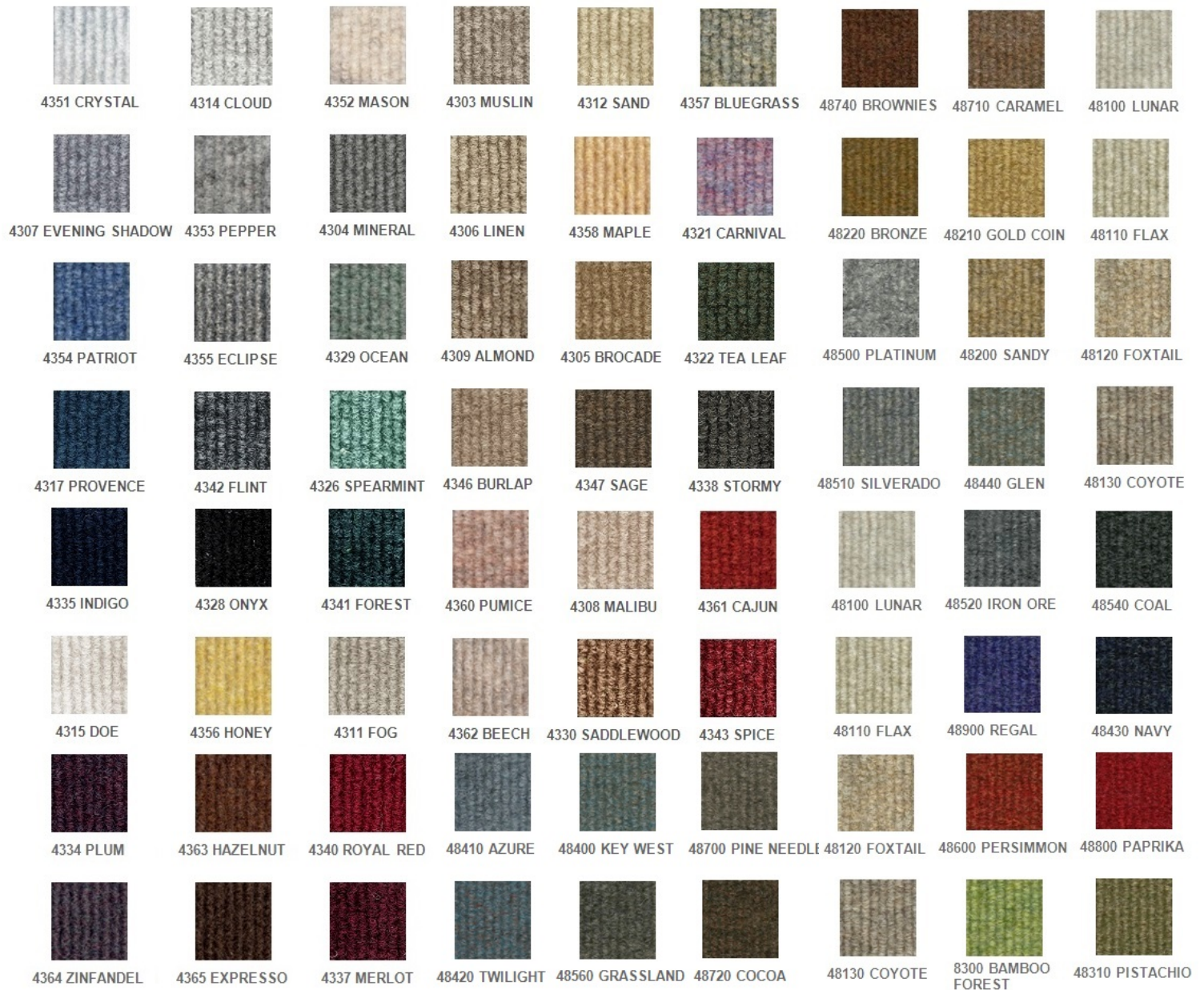


These styles of fabric are versatile products engineered for wall covering applications. The rib textured products, composed of UV stabilized polypropylene fiber offers a clean classic look in a variety of colors with seamless finish. They are perfect products for a multitude of institutional, commercial, hospitality applications. This fabric has been designed for sound control of facilities such as offices, classrooms, band/coral rooms, gymnasiums, auditoriums, hallways and conference rooms, etc. This fabric conceals soiling, without any snag or ravel.

## INSTALLATION

1. Remove all wall obstructions and old wall coverings.
2. Clean, seal, and prime wall before application.
3. Apply premixed, undiluted, heavy-duty, clear wall covering adhesive to the wall. (NOT to the fabric).
4. Allow adhesive to become sticky but not dry.  
Caution: Do not get adhesive on the face.
5. Acoustical wall coverings have a knap. Check every roll and cut for knap direction prior to installation.  
The knap direction may not be the same for all rolls, knap direction must be determined for each individual roll.
6. Install 3 strips in sequence with knap in same direction.
7. Trim on a table, in the same groove, using a straight edge to insure an accurate cut.  
To insure a good, clean trim, a new blade should be used for each strip.

## COLORS



## MANUFACTURING

<b>Construction</b>	Needle-bond
<b>Pattern</b>	Single Rib
<b>Fiber</b>	Solution Dyed PET Blend
<b>Packaging</b>	72" x 50 LY Poly-Wrap Crush Proof Box

### Cleaning and Maintenance

Designed for easy installation, the fabrics may be vacuumed as necessary and lightly washed with a damp sponge if soil remains. DO NOT SCRUB.

### Fire Resistance:

Corner Burn; UBC 8-2, Class A: ASTM E-84, SEC. X 1.10.1

### Acoustical Performance

Increases NRC of Core, with NRC: 0.20 Gypsum / 0.60 Acoustic Board

### Applications

Terra Acoustic Fabric can be used in Recording Studios, Schools, Convention Centers, Theaters, Tack Boards or any other operable wall where there is need for noise control.

## TECHNICAL PROPERTIES

### Nominal Overall Dimensions

<b>Width</b>	<b>54 in, 72 in</b>
<b>Weight/ Yard</b>	<b>30 oz</b>
<b>Roll Size</b>	<b>54" x 24 Y</b>



## BENNER SOUND DIFFUSER

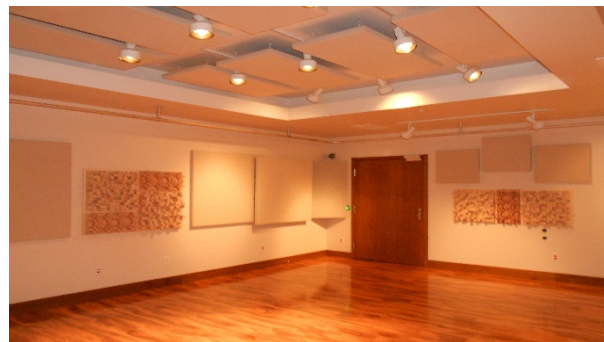
### Wood Diffuser



These two dimensional sound diffusers give a more diffuse distribution of the sound and better compromise between Music and Room, and remove acoustic aberrations such as image shift, coloration and flutter echoes. These diffusers gives a sense of spaciousness to your music (or recording room) by addressing those issues without deadening it too much, the sound in the room doesn't lose any harmonic progression associated with the absorption of the acoustic panel. The diffusers are made of solid wood and are hand crafted with very good dispersion of the sound. They are a work of art and environmentally friendly, also these pieces can be multiplied to fit any space as the design requires. This set is made to fit in any rear wall of a control room or a cabin.

### Applications

Music Rooms, Home Theater , Studios, Theaters, Churches.





Model	Size	Depth	Bandwidth
Model A (wood)	24"x24"	4"	1200 Hz- 4526 Hz
Model B (wood)	24"x24"	6"	1045 Hz- 4526 Hz
Model C (wood)	24"x24"	8"	583 Hz -4526 Hz

The quadratic residue diffusers maintain good spatial diffusion even at 45 degree incidence. The dense notching is uniformly distributed across the frequency spectrum And the energy is relatively constant with scattering angle.

## THERMOPLASTIC DIFFUSER

**Thermoplastic Diffusers is an economical way to reduces flutter echo while maintaining a warm room sound.**

These two dimensional sound diffusers give a more diffuse distribution of the sound and better compromise between Music and Room, and remove acoustic aberrations such as image shift, coloration and flutter echoes. These diffusers gives a sense of spaciousness to your music or recording.

The diffusers are made of thermoplastic and are hand crafted with very good dispersion of the sound. They are a work of art and environmentally friendly, also theses pieces can be multiplied to fit any space as the design requires. This set is made to fit in any rear wall of a control room or a cabin.



### Two dimensional diffusor

**Size:** 2' x 2'

**Colors:** White (standard)

**Materials:** Class A Thermoplastic

**Depth:** 4.5"

**Bandwidth:** 4 octaves; 250 Hz to 16 kHz

### Applications:

Music Rooms, Home Theater , Studios, Theaters, Churches.

## BENNER BASS TRAP



With Benner Bass Trap it is acoustically possible to achieve a good bass absorption and a good diffuse field along with liveness and brilliance, factors tending to oppose each other in rooms with flat surfaces.

Benner Bass Trap are made of Plywood with the cavity behind Plywood filled with mineral fiber. Available in standard sizes or custom. Benner Bass Trap are always shipped with "Z" Clip mounting .These polycylindrical diffusers exhibit máximum bass absorption and provide very attractive features. They can be wrapped in any of the 60 colors from the Guilford of Maine FR701 fabric.

### Applications:

Music Rooms, Home Theater , Studios, Theaters, Churches.

Model	Size	Depth
Model P1	24"x48"	8"
Model P2	28"x48"	10"
Model P3	35"x48"	12"



## Acoustical Performance.

### Model

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Model P1	0.50	0.45	0.35	0.20	0.18	0.15
Model P2	0.55	0.48	0.38	0.25	0.18	0.16
Model P3	0.60	0.50	0.40	0.30	0.20	0.18

### Sound Absorption Coefficients

## BENNER SOUND BARRIER SB



Sound Barrier SB is a flexible, non-reinforced mass loaded vinyl that reduce the Transmisión of airborne noise, this material is ideal for direct application to the noise Source or for reinforce walls, floors and ceilings. Complicated construction is unnecessary. Low cost solution for noise isolation.

It is used to treat interior walls and ceilings to help keep noises from transmitting from one room to another.

Combined with sheetrock, plywood, glass fiber to provide lightweight with high Transmisión losses over a broad frequency range.

**Use:** Radio and TV Studios, Gym, Theaters, Schools, Apartments, etc.

### Manufacturing:

Sound Barrier (SB) is offered in the following sizes.

### Density

SB 100 ( 1 lb/sq ft)  
 SB 100 ( 1LB/sq ft)  
 SB 150 (1.5 lb/sq ft)  
 SB 200 (2 lb/sq ft)

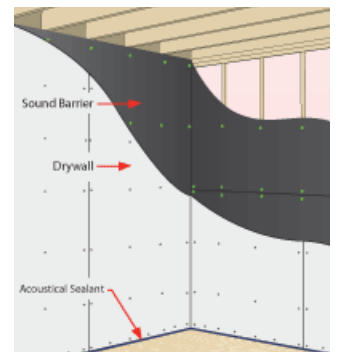
### Roll Size

48" x 25'  
 48" x 50'  
 54" x 60'  
 48" x 25'

### Acoustical Performance

Noise transmissión loss (db) Frequency (Hz).

	Octave Band Center Frequency (HZ)						
	125	250	500	1K	2k	4k	STC
SB 100	16	17	22	27	31	36	26
SB 150	17	19	25	31	36	44	29
SB 200	18	22	26	32	35	40	31



### Typical Physical Properties for SB 100

Weight 1 lb/sqft  
 Tensile Strength 2750 Kpa  
 Thickness 1/8"  
 Flammability SE "0" in/min  
 Temperatura -40F to 180F  
 Elongation

## INSTALLATION

To apply, simply nail, staple or screw the Sound Barrier to any new construction framework or over furring strips, if you have a finished wall then drywall over it. The more layers of Sound Barrier SB used, the better the results will be. Make sure all gaps are sealed and all seams are overlapped.

Sound Barrier SB won't shrink, rot or cause metal corrosion and also features a strong resistance to adverse environmental conditions, oils, weak acids and can be combined with sheetrock, plywood, glass fiber to provide lightweight with high transmission losses over a broad frequency range.



## BENNER IMPACT



Benner Impact underlayment is a recycled rubber floor underlayment for sound isolation and IIC rating from IIC 50 TO IIC 74 range based upon the floor ceiling assembly and choice of floor covering. The rubber material provides a resilient layer within the flooring assembly for reducing impact and vibration noise. Benner Impact is a critical component in meeting International Building Code requirements for ceiling/floor noise reduction performance. Benner Impact passes the Federal Flammability Standard, meets CHPS standards for VOC's, and passes the ASTM C627 reliability standard for residential use. Available in 3 mm, 5mm, 6 mm and 12 mm.

### Applications:

Hardwood, Laminate, Vinyl plank, Ceramic Tile, Stone.

- Apartments
- Condominiums
- College Dormitories
- Classrooms
- Schools
- Hospitals

### Features and Benefits:

- Over 95% Recycled material
- Optimized density and resiliency
- Efficient spring action
- LEED credits
- Low compressibility
- No creep or long term degradation
- Strength under load
- Effective impact noise reduction
- Environmentally friendly
- Low odor
- Long life

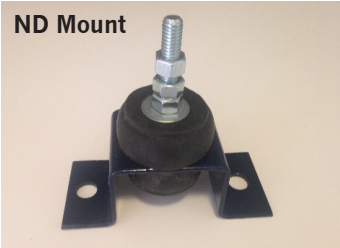


## SPRING MOUNTS FOR FLOATING FLOORS

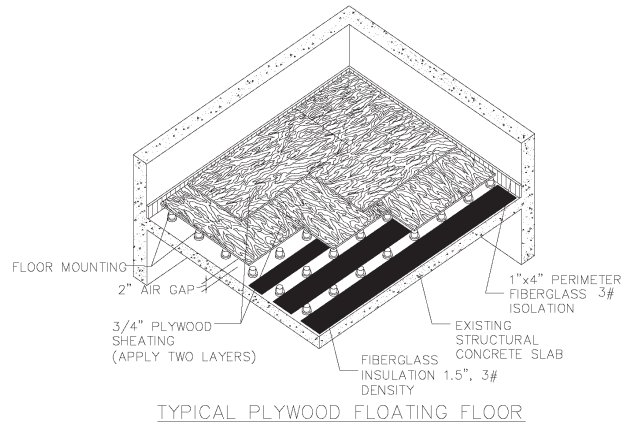
MFS Spring Mount



ND Mount



Spring Floating Floors System are the best solution for low frequency noise and vibration isolation or where impact isolation is required, such as gymnasio, health clubs, Recording Studios.

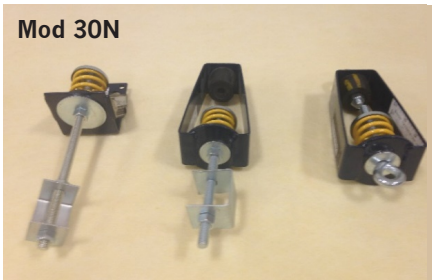


### Applications:

- Apartments
- Condominiums
- College Dormitories
- Classrooms
- Schools
- Hospitals

## SPRING HANGER

Mod 30N



Mod: WH-1



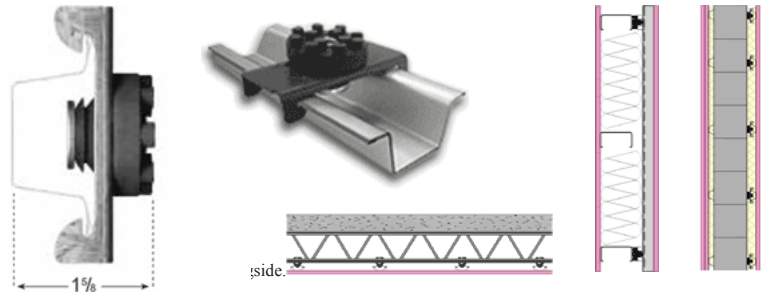
We have a complete line of spring Isolation Hanger for concrete and Wood- frame ceiling isolation system, pipes and ducts, air handling units fan. Assembly incorporates steel and elastomer washer for uniform load distribution and high vibration isolation.

## RESILIENT SOUND ISOLATION CLIP.



Sound Isolation Wall And Ceiling

The RSIC-1 is used with Drywall Furring Channel this assembly fastening gypsum wallboard to a supporting structure while simultaneously isolating it from vibration and structural noise from room above, below and alongside.



The RSIC-1 has been acoustically tested and adds 15 to 20 STC. Reducing the structural noise by 75 to 100%, the RSIC-1 can be attached to wood, steel or concrete.

## PORTABLE ACOUSTIC ROOM DIVIDER



Our Room Divider have the ability to reduce the transmission of airborne noise. They are constructed using 2-inch thick acoustic panels and Sound Barrier SB. Our Room Divider are available in a variety of colors and finishes.

### Applications:

- Offices
- Hospitals
- Schools
- Hotels.

### Features:

- Custom Sizes.
- Easy to install
- Durable, cost- effective and easy to clean

## SOUNDPROOF CURTAIN

This a curtain that block outside noise from entering your home, as well reduce interference between rooms. All curtains are custom made to our customer specifications. The curtains are made of heavy fabric. Depending on its thickness these curtains have an STC of 25-30.

### Applications:

- Offices
- Hospitals
- Schools
- Hotels.

### Features:

- Curtains are easily adjusted
- Flame Retardant
- NRC 0.80-1.00
- Durable, cost- effective and easy to clean



## ACOUSTIC DOORS

Best Benner offer a variety of acoustic doors with a rating from STC 41 to STC 51. We have standard single doors, double doors and door with or without window. Available in a variety of sizes.

### Applications:

- Home Theater
- Conference Rooms
- Radio/ Television Studios
- Broadcast Areas.

### Features:

- Windows options.
- Custom sizes available

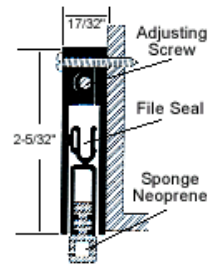


## ACOUSTICAL DOOR SEALS

Gaps are a major problem to achieve a high STC rating due to sound travel through openings with little loss. To avoid an open gap between backside and bottom of the door, an adjustable acoustic door seals close should be add. They include an automatic door bottom, which is made from aluminum combined with closed cell neoprene and is activated when a plunger depresses against the door jamb, dropping neoprene seal onto a threshold. We offer heavy duty neoprene door jambs for the vertical sides and top of the door.

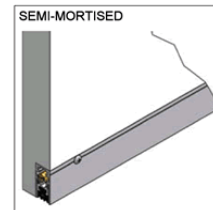
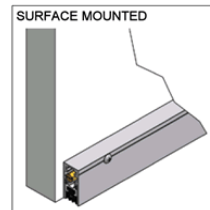
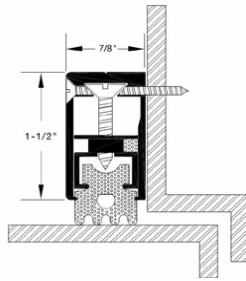
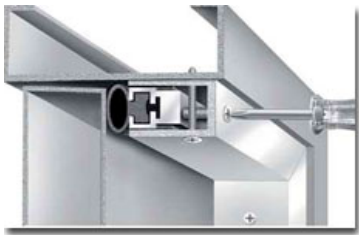


### Head and Jamb Seal



### Bottom Seal

We recommended that these automatic door bottoms be installed by a carpenter or contractor



## ACOUSTICAL WINDOWS

Benner Acoustic windows add an effective acoustic barrier to your Home, Office or Broadcast Studio.



Our Soundproof Window can reduce noise level by 70%, these windows act as a sound barrier and achieves high acoustic rating.

### Acoustic Performance

STC Ratings from 35 to over 50.

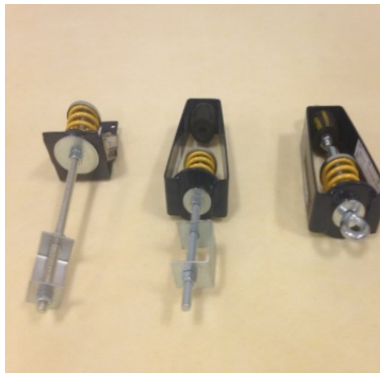
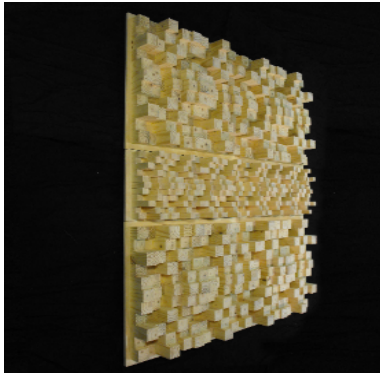
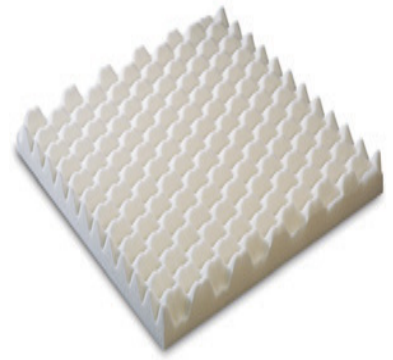
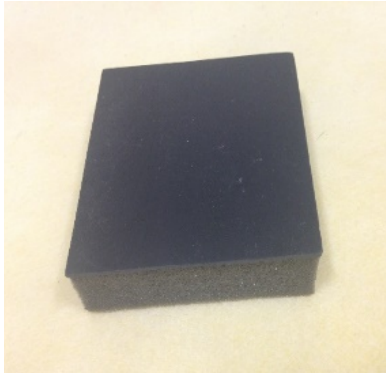
### Glazing Options

- Laminated safety glass
- One-way vision mirror
- Bullet resistant
- Polycarbonate
- Non-reflective, heat resistant
- Strong, durable metal frames (aluminum or stainless/galvanized steel) with proven, reliable acoustic seals
- Outstanding laboratory-tested acoustic performance
- Factory assembled for rapid, simple installation
- Available in almost any size/shape
- Designed to fit any wall thickness
- Will integrate with any construction system, including drywall/stud partitions, concrete and masonry

Soundproof windows can be installed with your existing windows to eliminate noise problems.

**Enjoy peace and quite with our Soundproof window.**

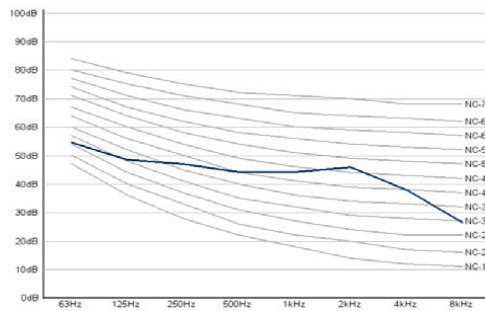




## NOISE SURVEY, NOISE LEVEL TESTING, NOISE MEASUREMENT



As specialists in environmental noise, architectural acoustics, building acoustics as well as entertainment noise monitoring and assessments, we have a vast experience in noise survey and Building Noise Control requirements.

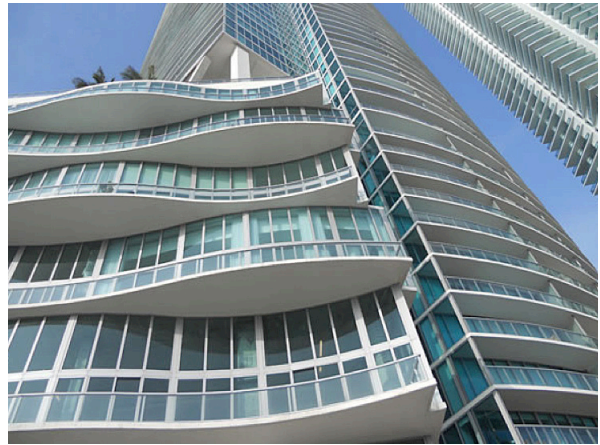


### Our specialists are able to conduct the followings testing:

1. Evaluate noise levels or sound exposure in the work place to determine if the noise environment is in compliance with local noise ordinances.
2. Evaluate community response to an external source of noise.
3. Evaluate whether a given acoustical environment is acceptable to resident or inhabitants.
4. Establish noise level contours at a selected site.

Thanks to our top of the range equipment we are capable of taking on small to large scale projects, always at very competitive rates.





Call US **787-962-3419**

[www.bestbennerbuilding.com](http://www.bestbennerbuilding.com)