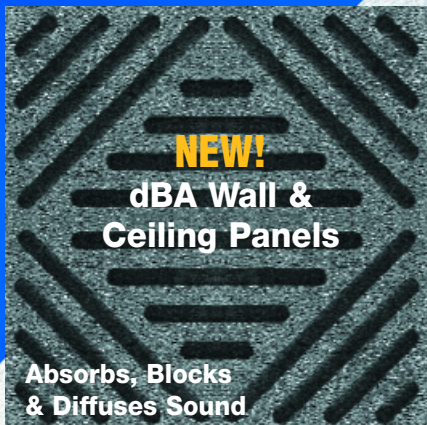


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dBA Wall &  
Ceiling Panels

Absorbs, Blocks  
& Diffuses Sound



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Ceiling Tiles & Wall Panels

# Sound Silencer™

An Entirely New Kind of Acoustical Panel  
Made with Porous Expanded Polypropylene (PEPP)

Sound Silencer™  
Acoustical Panels  
"Unlike Any Other"

- Water Resistant
- Washable
- Durable
- Non-Fibrous
- Lightweight
- Rigid Strength
- Flame Resistant
- Non-Abrasive
- Indoor/Outdoor
- Impact Resistant
- Both NRC & STC
- Tackable
- Sag Resistant
- Resilient
- Mold, Bacteria & Fungi Resistant
- Oil and Chemical Resistant

AVAILABLE  
EXCLUSIVELY FROM



## Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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e-mail: [sales@acousticalsurfaces.com](mailto:sales@acousticalsurfaces.com)

Volume 27

# Sound Silencer™ An entirely new kind of acoustical panel.

*Sound Silencer panels can be applied directly on wall and ceiling surfaces for attractive and effective sound control.*

## New Construction and Retrofit



Sound Silencer panels are easily installed for improving sound control in environments such as gymnasiums, ice rinks, swimming pools and other challenging environments.

- Gymnasiums
- Auditoriums
- Classrooms
- Indoor swimming pools
- Skating rinks
- Ice rinks
- Arenas, stadiums

## Environmentally Sensitive Areas



Sound Silencer panels are non-fibrous, and are ideal for use in environments sensitive to airborne particles, such as clean rooms, laboratories and food preparation areas.

- Manufacturing clean rooms
- Laboratories
- Computer rooms
- Food processing plants
- Food preparation areas
- Cafeterias, restaurants
- Chemical processing facilities

## Industrial Applications



Sound Silencer panels are resilient, incredibly durable and resistant to oils, grease, most chemicals and water. Sound Silencer panels are completely washable, even with power washing equipment and detergents.

- Manufacturing plants
- Car wash facilities
- Machine shops
- Automobile dealerships
- Gun ranges
- Rooftop enclosures

# Sound Silencer™ Acoustical Panels

*“Unlike Any Other”*

- Class A Fire Retardant
- Made from Porous Expanded PolyPropylene (PEPP)
- Non-fibrous
- Structurally rigid
- Water resistant
- Non-abrasive surface
- Indoor/Outdoor
- Both STC and NRC ratings
- Impact resistant
- Tackable surface
- Bacteria and fungi resistant
- Lightweight



### Water Resistant

Sound Silencer panels resist moisture in all forms, whether humid environments or direct exposure to water, indoors or outdoors.



### Impact Absorption

Sound Silencer panels are resilient and able to repeatedly absorb energy in situations such as gymnasium walls or indoor swimming pools.



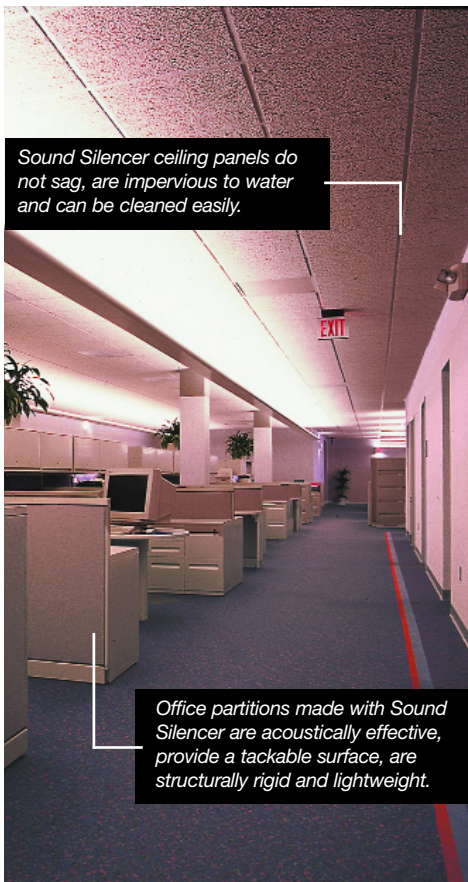
### Tackable

Sound Silencer panels can be punctured repeatedly with thumbtacks and push pins without damaging the surface.



### Washable

Sound Silencer panels are easily cleaned with water and detergents. Gentle power washing is suitable in many environments.



*Sound Silencer ceiling panels do not sag, are impervious to water and can be cleaned easily.*

*Office partitions made with Sound Silencer are acoustically effective, provide a tackable surface, are structurally rigid and lightweight.*



### Non-Abrasive

Unlike some other rigid acoustic panels, Sound Silencer has a smooth non-abrasive surface.



### Flame Resistant

Sound Silencer panels carry an ASTM E-84 Class A Fire Resistance rating.



### Rigid Strength



### Buoyancy



### Resilience & Flexibility

Sound Silencer panels are strong enough to support a concrete block on edge. For applications such as outdoor sound enclosures, its light weight can help reduce the structural support requirements. Sound Silencer panels are also buoyant, resilient and flexible.

# Sound Silencer™

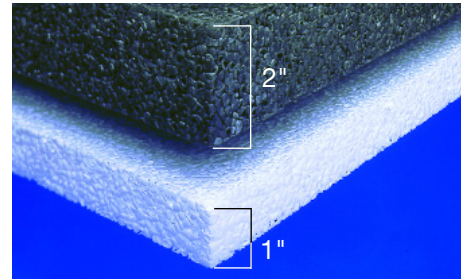
Acoustical Panels made with Porous Expanded PolyPropylene (PEPP)

## Sound Silencer Acoustic Performance

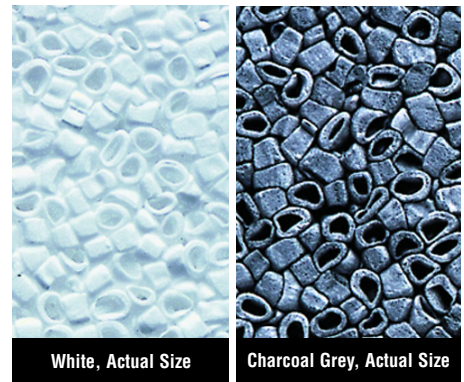
Sound Absorption / Noise Reduction								
	Mount	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC*
Sound Silencer 1"	Wall Mounted	0.05	0.06	0.21	0.80	0.65	0.75	0.45
Sound Silencer 1"	Wall with 3/4" air space	0.06	0.13	0.51	0.79	0.62	0.79	0.50
Sound Silencer 1"	Wall with 1" B.A.C.**	0.11	0.58	1.07	0.71	0.74	0.72	0.80
Sound Silencer 2"	Wall Mounted	0.07	0.21	0.81	0.85	0.93	0.88	0.70
Sound Silencer 2"	Wall with 3/4" air space	0.10	0.29	0.99	0.74	0.90	0.93	0.75
Sound Silencer 2"	Wall with 1" B.A.C.**	0.17	0.81	0.97	0.85	0.89	0.92	0.90
Sound Silencer 1"	Ceiling E400	0.46	0.59	0.42	0.49	0.76	0.86	0.55
Sound Silencer 2"	Ceiling E400	0.51	0.52	0.52	0.77	0.89	0.98	0.70
Sound Silencer 1"	Wall C423 12" spacing	0.04	0.07	0.20	0.83	0.81	1.00	0.50
Sound Silencer 2"	Wall C423 12" spacing	0.09	0.21	0.82	1.11	1.11	1.12	0.80

\*Noise Reduction Coefficient \*\*Echo Eliminator Bonded Acoustical Cotton

## Sizes and Dimensions



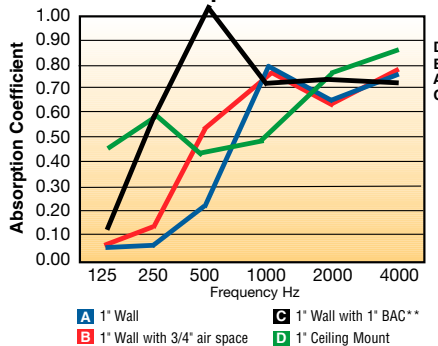
Available in 1" and 2" thicknesses.  
 Weight: 1" 1/4 lb./sf 2" 1/2 lb./sf  
 Panels available: Nominal 2' x 2' and 2' x 4'.  
 Quotes available for custom sizes.



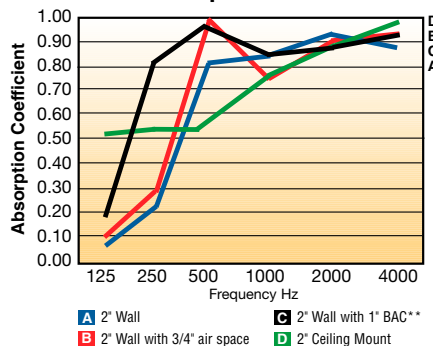
White, Actual Size

Charcoal Grey, Actual Size

### 1" Sound Absorption / Noise Reduction



### 2" Sound Absorption / Noise Reduction



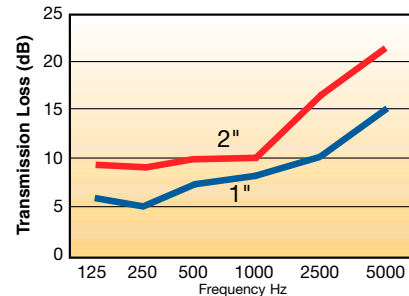
## Sound Transmission Loss

	125 Hz	250 Hz	500 Hz	1000 Hz	2500 Hz	5000 Hz	STC* Rating
Sound Silencer 1"	6	5	7	8	10	15	9
Sound Silencer 2"	9	8	10	10	17	22	13
Sound Silencer with 5/8" gypsum both sides	27	27	29	31	32	45	32

\*Sound Transmission Coefficient

Sound Transmission Loss independently tested to ASTM E-90 standards

## Sound Transmission Loss



## Flammability

Thickness	Flame Spread	Smoke Development	ASTM E-84 Class
1"	3	84	A
2"	5	113	A

This test data reflects performance of Sound Silencer acoustical panels, made from porous expanded polypropylene bead board, under specific controlled test conditions and is subject to normal manufacturing variations. In addition, the numerical flame spread rating is not intended to be indicative of the characteristics that would be displayed by Sound Silencer acoustical panels, made from porous expanded polypropylene bead board or any other materials under actual fire conditions.

Sound Silencer panels, made from porous expanded polypropylene bead board, are sold subject to the limited warranties and disclaimers in the manufacturer's limited warranty. Acoustical Surfaces Inc. makes no other warranties express or implied, including, without limitation, any warranty of merchantability or fitness for a particular purpose with respect to Sound Silencer acoustical panels, made from porous expanded polypropylene bead board.

**FOR SOUND SILENCER™ P.E.P.P. INSTALLATION INSTRUCTIONS AND SPECIFICATIONS VISIT:**

[http://www.acousticalsurfaces.com/sound\\_silencer/sswall\\_panel.htm](http://www.acousticalsurfaces.com/sound_silencer/sswall_panel.htm)

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