

Echo Eliminator™

Building a "Greener" Tomorrow...

**Acoustical Cotton,
Economical Sound
Absorbing Wall Panels,
Ceiling Tiles And More**

**"Why Not Use
Recycled Cotton For
Your Next Project!"**



- No Itch or Skin Irritation
- Class-A Fire Rated
- Resists Mold & Mildew
- Superior Acoustic Properties
- No Formaldehyde
- Environmentally Safe
- Leed Eligible
- Sustainable Building Product
- Durable, Impact-Resistant, Resilient, Lightweight, and Easy to Install
- Lower Cost, or Better Performance Than Many Other Acoustical Materials
- No Itchy Fiberglass – No Formaldehyde – No VOC's – Requires No Warning Labels
- Made in the U.S.A. 100% Recyclable "GREEN" Product

NEW!
Sculptured
Echo Eliminator™
Designer Acoustics



AVAILABLE EXCLUSIVELY FROM

Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

123 Columbia Court North – Suite 201 – Chaska, MN 55318

952-448-5300 Fax: 952-448-2613 (800) 626-7728

sales@acousticalsurfaces.com www.acousticalsurfaces.com

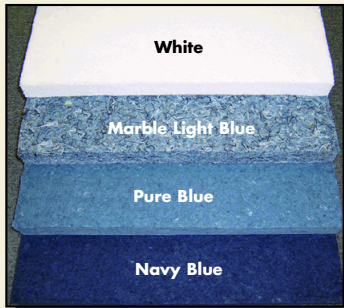


Volume R27

High Performance Sound Absorption Wall Panels And Hanging Baffles. "Green" Never Looked This Good

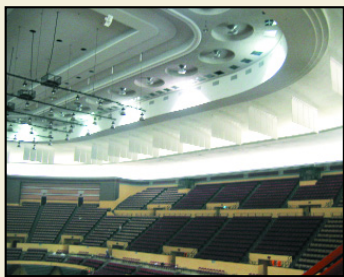


WALL PANELS



Noise Control Problem Solved – Woodbury Methodist Church

AUDITORIUM CEILING Baffles & WALL PANELS



Reverberation Problem Solved – Municipal Auditorium in Kansas City, MO

Echo Eliminator™ SOUND ABSORBING CEILING & WALL PANELS

Echo Eliminator Acoustical Cotton is an economical, multipurpose, high performance, Class A fire retardant, sound absorber. It is exceptionally durable and can be used anywhere cost effective noise control or reduced reverberation time (echo) is needed. Echo Eliminator installs easily to ceilings, walls, or equipment enclosures using contact or construction adhesive. Fabric, foil, Tuftane, Dupont Hypalon facings are also available for optimal aesthetics, easy cleaning or protection from chemicals, oil, or dust.

Acoustics: Controlling sound and noise transmissions through walls, ceilings, and floors can be a complex challenge in designing and building a project. Echo Eliminator offers an extremely high Noise Reduction Coefficient (NRC) to effectively reduce airborne sound transmissions including traffic, airplanes, radio, television, and conversation.

The cotton used to make Echo Eliminator contains excellent sound absorbing qualities while the patented manufacturing process used to create Echo Eliminator produces a three-dimensional infrastructure that effectively traps, isolates, and controls sound waves. The result is a quiet comfortable environment between rooms, walls, and floors.

Environmentally Safe: The natural materials used to manufacture Echo Eliminator are 100% recyclable, reducing landfill waste. The recycled materials are also 85% post-industrial, ensuring a high quality product.

Echo Eliminator requires a minimal amount of energy to manufacture, aiding the environment with energy conservation and reduction in pollution. Other insulation manufacturers consume considerably more energy while creating additional unwanted pollutions and landfill waste.

Echo Eliminator contains no chemical irritants and requires no warning labels compared to traditional products. Echo Eliminator contains no harmful airborne particulates that can enter your living area and the surrounding environment causing health concerns. Echo Eliminator has no VOC outgassing concerns and contains no formaldehyde or fiberglass.

Mold Resistant: Every natural material used to manufacture Echo Eliminator is treated with an EPA registered, non-toxic, borate solution and then "flash-dried" in our manufacturing process to offer complete and safe mold/mildew protection. Borates are a very effective natural biostat that actively inhibit mold, mildew, bacteria, and fungi growth. Borates also act as an excellent fire retardant and pest inhibitor. Echo Eliminator mold-resistant cottons offer long-lasting protection and help reduce health and safety concerns.

Applications: Echo Eliminator Acoustical Cotton panels are ideally suited to school gymnasiums, cafeterias, classrooms, churches, multipurpose rooms, community centers, industrial noise control and more.

Sizes: Standard Sizes: 24" x 48", 24" x 24" and 12" x 12". Also available in 48" x 48" and 48" x 96" (minimum quantities may apply, please call for details). (1" thickness panels available in #3 lb or #6 lb per cubic foot, 2" thick panels available in #3 lb density only).

Colors: White, Marble Light Blue, Light Grey, Beige, Charcoal, Pure Blue, Navy Blue, Burgundy and Hunter Green.

ASTM E-84 Class A Fire Retardant



Echo Eliminator™ Acoustical Cotton is fire retardant, fungi, mold & mildew resistant and has been tested for numerous acoustical and thermal insulating properties including the following ASTM specification and test methods:

E84, C665, C518, E96, E970, C423-98, E97-97, E413-87, E492-90, E989-89; C739-97 Sec. 9, 11, 13, 15; CA. Lic.#11-1367 Reg.#CA-T367AZ

Echo Eliminator™ Acoustical Cotton Panel – Sound Absorption / Noise Reduction

Product	Nom. Size	Weight	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
Echo Eliminator	1" x 2' x 4'	1/4 lb./sf 3 lb./cf	.08	.31	.79	1.01	1.00	.99	.80
Echo Eliminator	2" x 2' x 4'	1/2 lb./sf 3 lb./cf	.35	.94	1.32	1.22	1.06	1.03	1.15
Echo Eliminator	1" x 2' x 4'	1/2 lb./sf 6 lb./cf	.07	.30	.86	1.10	1.05	1.03	.85

Echo Eliminator™ HANGING BAFFLE SOUND ABSORBERS

Baffles are a popular solution for noise control when high levels of sound or long reverberation times (echo) are present and there is limited wall or ceiling surface area available for sound absorption. Baffles utilize both front and rear surfaces and panel edges to provide optimal sound absorption while creating a unique visual appearance. Echo Eliminator baffles feature exceptional durability and will not easily fracture from impact. Fabric wrapped and cleanable surfaces also available.

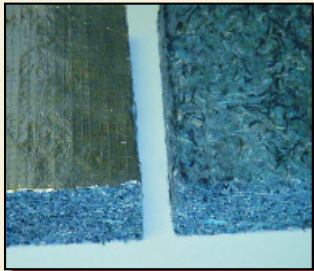
Echo Eliminator Hanging Baffles™ – Sound Absorption / Noise Reduction

Product	Nom. Size	Weight	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Sabins/Avg.
Echo Hanging Baffles	1" x 2' x 4'	6 lb./cf	2.43	4.93	8.34	12.35	15.57	16.73	10.30
Echo Hanging Baffles	2" x 2' x 4'	3 lb./cf	2.40	6.55	12.86	17.46	18.49	16.77	13.85

Echo Eliminator Acoustical Cotton is an Economical Alternative to Fabric Wrapped Panels

- Environmentally friendly acoustical cotton sound absorber
- Use cotton rather than fiberglass for your next acoustical project
- High performance – noise reduction coefficient NRC to 1.15
- Excellent low frequency absorption coefficient 2" = 1.32 @ 500Hz
- ASTM E84 Class A Fire Retardant
- Fungi, mold and mildew resistant
- Durable, impact resistant, resilient, lightweight and easy to install
- Lower cost, or better performance than many other acoustical materials
- No itchy fiberglass – no formaldehyde – no VOC's – requires no warning labels
- Soft textured surface is pleasing to the eye and touch – "impact friendly"
- Acoustical and thermal insulating properties superior to foam, fiberglass and cementitious wood fiber
- Environmentally friendly and 100% recyclable "GREEN" product
- Made in the USA with recycled denim and cotton materials
- LEED (Leadership in Energy and Environmental Design) eligible

Five More Ways To Go "Green"! HVAC Duct Wrap, Equipment Enclosures, Ceiling Tiles, Industrial Noise Control, Low Frequency Sound Absorption

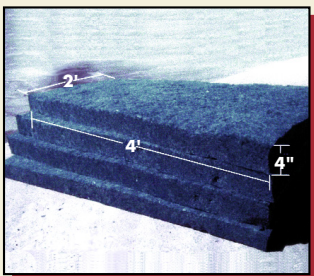


Echo Eliminator™ COMPOSITE NOISE BARRIER AND SOUND ABSORBER

The composite panel is a dual functional "Green" noise control panel made from 8 lb./sf recycled acoustical cotton. When soundproofing is your goal, Echo Eliminator composite is the choice of professionals. Several variations are available for different uses. Install above ceiling tiles in standard T-grid. Apply to any ceiling or wall surface, use as machine enclosure lining, or HVAC duct wrap. Excellent pipe wrap for water noise reduction and thermal insulation for PVC and metal pipes. Laminated foil or other washable facing available for easy cleaning, radiant heat, moisture and air barriers.

Echo Eliminator™ COMPOSITE – Sound Absorption / Noise Reduction

Nom. Size	Mount	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC/STC
1" x 2' x 4'	A	.09/12	.24/12	.86/14	.98/13	.98/20	1.03/29	.75/17



Echo Eliminator™ BASS BUSTER™ LOW FREQUENCY SOUND ABSORBER

Low frequency sound is the most difficult to control. Bass Buster is designed to perform in the most demanding situations like clubs, band rooms, studios, home AV rooms, theaters, manufacturing plants and enclosures. Install in ceiling, wall or floor cavities, or leave exposed to noise source for optimal noise control. When appearance is critical use Bass Buster behind perforated panels, Wallmate® or Woodgrilles from Architectural Surfaces, Inc. Bass Buster also provides excellent thermal insulation.

Echo Eliminator BASS BUSTER™ – Sound Absorption / Noise Reduction

Nom. Size	Mount	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
4" 1.2lb./cf.	A	.97	1.37	1.23	1.05	1.00	1.01	1.15



Echo Eliminator™ ACOUSTICAL COTTON CEILING TILES

Echo Eliminator is also an economical, high performance, Class A fire retardant, sound absorbing ceiling tile. It's exceptionally durable and cost effective compared to fabric-wrapped panels. Echo Eliminator is best suited for environments that need to reduce reverberation time (echo) or where sound absorption or noise reduction is needed.

To install Echo Eliminator in a standard T-grid, glue to existing ceiling tiles or any other suitable substrate, i.e. sheet rock and set into place.

Echo Eliminator™ Acoustical Cotton Ceiling Panels – Sound Absorption / Noise Reduction

Product	Nom. Size	Weight	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
Echo Eliminator	1" x 2' x 4'	1/4 lb./sf 3 lb./cf	.08	.31	.79	1.01	1.00	.99	.80
Echo Eliminator	2" x 2' x 4'	1/2 lb./sf 3 lb./cf	.35	.94	1.32	1.22	1.06	1.03	1.15
Echo Eliminator	1" x 2' x 4'	1/2 lb./sf 6 lb./cf	.07	.30	.86	1.10	1.05	1.03	.85



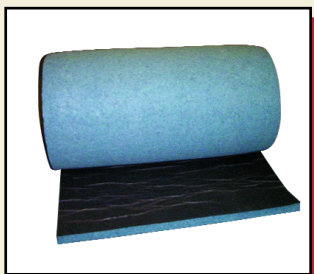
Quiet-Duct Wrap™ RECYCLED COTTON ACOUSTICAL DUCT WRAP

Quiet-Duct Wrap Thermal/Acoustic Insulation is a lightweight, foil faced, fire retardant blanket-type insulation with multiple uses. The Quiet-Duct Wrap offers excellent thermal and acoustical performance and carries a Class-A Fire rating. Made from durable natural acoustical cotton, Quiet-Duct Wrap contains no fiberglass and does not itch or cause skin irritation. The materials used to manufacture the Quiet-Duct Wrap offer excellent sound absorption properties, and every material used is individually treated with an EPA registered anti-microbial agent that offers excellent protection from mold, mildew, fungi, and pests as well as fire resistance. The Quiet-Duct Wrap's pure aluminum barrier reflects unwanted radiant heat and offers excellent protection from air currents, moisture, and vapors. Use Quiet-Duct Wrap in homes, offices or wherever unwanted heat or noise control is necessary.

Quiet-Duct Wrap™ Recycled Cotton Acoustical Duct Wrap – Sound Absorption / Noise Reduction

Sound Absorption was tested in accordance with ASTM C 423 using a Type A mounting per ASTM E 795

Product	Absorption Coefficients @ Octave Band Frequencies (Hz)							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC	
3/8" Pad	12	.10	.23	.56	.81	.89	.45	



Quiet-Liner™ RECYCLED COTTON ACOUSTICAL MULTI-PURPOSE LINER

Quiet-Liner is a thermally bonded insulation that offers superior acoustic and thermal performance. Made from acoustical cotton, Quiet-Liner contains no fiberglass and does not itch or cause skin irritation. The materials used to manufacture Quiet-Liner offer excellent sound absorption properties. The air stream surface of Quiet-Liner is overlaid with a durable, fire-resistant black facing providing additional strength to the product. Both the insulation and the facing are treated with an EPA registered anti-microbial agent. Quiet-Liner is used primarily as an acoustical liner designed for equipment enclosures, HVAC, large volume ceilings, walls and corrugated metal ceilings to absorb unwanted noise. Quiet-Liner also reduces heat gain or loss. Quiet-Liner contains no harmful irritants and is safe to handle and install.

Quiet-Liner™ Recycled Cotton Acoustical Liner – Sound Absorption / Noise Reduction

Nom. Size	Mount	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
1" 1.5 lb./cf	A	.07	.33	.72	.99	.99	.96	.75
2" 1.5 lb./cf	A	.35	.94	1.32	1.22	1.06	1.03	1.15
1-1/2 1.5 lb./cf	A	.07	.30	.86	1.10	1.05	1.03	.85

Don't Like The Itch Of Fiberglass? Use UltraTouch Acoustical Thermal "Green" Insulation In Your Next Building Project



UltraTouch HIGH PERFORMANCE ACOUSTICAL COTTON INSULATION, NO FIBERGLASS, NO ITCH OR SKIN IRRITATION & NO FORMALDEHYDE

Material: Recycled cotton. **Features:** No itch, no fiberglass. Environmentally friendly green product. Low frequency sound is the most difficult to control. UltraTouch is designed to perform in the most demanding situations like clubs, band rooms, studios, home AV rooms, theaters, manufacturing plants and enclosures. Install in ceiling, wall or floor cavities, or leave exposed to noise source for optimal noise control. When appearance is critical, use UltraTouch behind fabric panels, Wallmate® or Woodgrilles from Architectural Surfaces, Inc. UltraTouch also provides excellent thermal insulation. 3" = R-13, 5" = R-19. Available in Batts, Nominal 16.25" or 24.25" W x 94". **NRC 1.37 @250Hz.** Also available R-21 & R-30.

UltraTouch Acoustical Insulation - Sound Absorption / Noise Reduction								
Product	Nom. Size/Density	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
UltraTouch Insulation	3" 1.2 lb./cf	.95	1.30	1.19	1.08	1.02	1.00	1.15
UltraTouch Insulation	5" 1.2 lb./cf	.97	1.37	1.23	1.05	1.00	1.01	1.15

UltraTouch is manufactured in "oversized" widths and is installed with a friction fit to provide maximum fill capacity. This also reduces the chance for air convection and infiltration that can occur with smaller sized insulation.

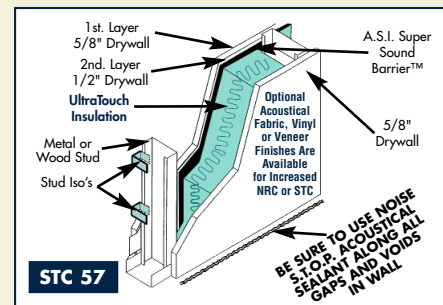
UltraTouch + Sound Control

UltraTouch offers an exceptional NRC (Noise Reduction Coefficient) rating and can be used for ceilings, interior/exterior walls, and between floors where soundproofing is critical. UltraTouch's patented manufacturing process creates thousands of tiny air pockets throughout each batt of insulation providing superior sound absorption at multiple octave band frequencies. So whether you are trying to reduce noise in office spaces, between classrooms, or for home theaters, UltraTouch offers peace of mind knowing that what's in your walls is safe, effective, and healthy.

UltraTouch + The Environment

The acoustical cotton used to make UltraTouch is diverted from potential landfill waste and used to create a Class-A fire-rated, fungi-resistant, superior performing insulation. Borates are used to treat the cotton and provide excellent resistance to fire, fungi, and pests. The borates used are safe and effective as well as an EPA registered fungal inhibitor. UltraTouch offers peace of mind in knowing that what's in your walls is safe, effective, and healthy.

Acoustically Treated New Wall Construction



STC 57

"UltraTouch will help improve your heating and cooling efficiency, resulting in energy and cost savings."



Building a "Greener" Tomorrow

ACOUSTICAL FLOOR & CEILING ASSEMBLY

- 3/4" Engineered or solid wood
- Floor furring strip 5/8" x 3-1/2" every 10"
- Quiet Floor™
- 3/4 or 5/8" plywood
- Joist or beam
- UltraTouch
- Resilient bar
- 2 x Gypsum

Estimated Test Results

Engineered or solid wood: wood frame
Quiet Floor™ 1/8" (3 mm)

FSTC	STC	FIC/IIC
55	60	48/53

Quiet Floor™ ACOUSTIC UNDERLAYMENT IMPACT NOISE REDUCTION FOR FLOORS

Impact noise through floors to occupied spaces below and the "click" or hollow sound occurring within a space from foot traffic is a common problem. Apply Quiet Floor 1/8" acoustic underlayment under laminate, wood or ceramic floors to improve soundproofing. Acoustic underlayment also reduces squeaks, provides thermal insulation and a moisture barrier. It absorbs over 5 times its own weight of water without swelling. Quiet Floor outperforms 1/8" cork underlayment and 40% thicker rubber pad in a majority of test band frequencies. Add our 1/8" Mass Loaded Vinyl noise barrier to also control airborne noise.

Quiet Floor™ Sound Transmission Class & Impact Isolation Class - Concrete Subfloor							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC IIC
Sound Trans. Loss	5dB	40dB	54dB	63dB	70dB	71dB	52 58

For more information on these products, specifications, test data, acoustical adhesives and other soundproofing and acoustical products please visit www.acousticalsurfaces.com

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