



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) 448-0121

Email: sales@acousticalsurfaces.com

Visit our Website: www.acousticalsurfaces.com

"Building A Greener Tomorrow!"

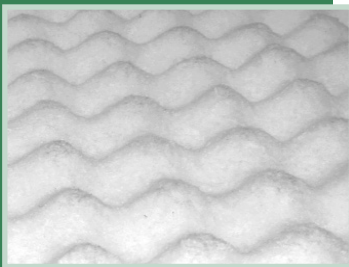
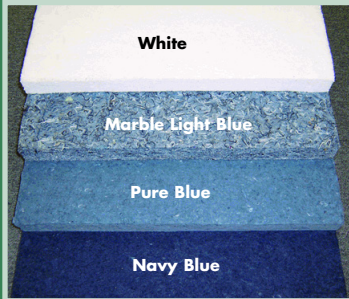
ECHO ELIMINATOR™

Bonded Acoustical Cotton

The Most Cost Effective Acoustical Absorbing Material On The Market



May Qualify for LEED Credits.



NEW! Soundwave Eggcrate Acoustical Panel

WHY GREEN?

- 100% Recyclable
- Manufacture from 85% Post Industrial Materials

- RECYCLED COTTON (GREEN MATERIAL)
- CLASS A NONFLAMMABLE (PER ASTM E-84)
- LIGHTWEIGHT ● DURABLE ● LOW COST
- EASY TO INSTALL (ADHESIVELY APPLIED)
- IMPACT RESISTANT ● HI-LIGHT REFLECTANCE
- HI-PERFORMANCE ACOUSTICAL ABSORPTION
- RELOCATABLE (IF REQUIRED)

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.

MATERIAL: Bonded Acoustical Cotton. Recyclable, Fiberglass Free, Recycled Cotton Material.

PATTERN: Soft Textured Surface.

FEATURES: Economical, multi-purpose, high performance, durable, lightweight, impact resistant.

APPLICATIONS: Bonded Acoustical Cotton panels are ideally suited for gymnasiums, auditoriums, classrooms, music rooms, arenas & stadiums, churches, offices, computer rooms, restaurants/cafeterias, residential, concert halls & theaters, pro audio, gun ranges, manufacturing plants, machine enclosures, water treatment plants, multi-purpose rooms, community centers and more.

Nom. Sizes: Standard Size: 2' x 4'. Also available in 12" x 12", 2' x 2', 4' x 4' and 4' x 8'. (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.)

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

Flammability: ASTM E-84, Flame Spread: 5. Smoke Developed: 35.

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. #TI-1367 Reg. #CA-T367AZ

Echo Eliminator PANEL:	Mount	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
1" 3 lb./cf.	A	.08	.31	.79	1.01	1.00	.99	.80
2" 3 lb./cf.	A	.35	.94	1.32	1.22	1.06	1.03	1.15
1" 6 lb./cf.	A	.07	.30	.86	1.10	1.05	1.03	.85

Echo Eliminator BAFFLE:	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	Sabins/Avg.
1" x 2' x 4'	2.43	4.93	8.43	12.35	15.57	16.73	10.30
2" x 2' x 4'	2.40	6.55	12.86	17.46	18.49	16.77	13.85



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UltraTouch



Natural Cotton Fiber Insulation

Safe For You & The Environment



UltraTouch Natural Cotton Fiber Insulation consists almost entirely of natural denim and cotton fibers that are 100% recyclable, reducing landfill waste. The denim and cotton are also 100% post-industrial, which assures that the fibers are free of any contaminants. UltraTouch requires a minimal amount of energy to manufacture aiding the environment with energy conservation and reduction in pollution. Fiberglass manufacturing consumes considerably more energy and creates more pollution, while not breaking down or decomposing in landfills.

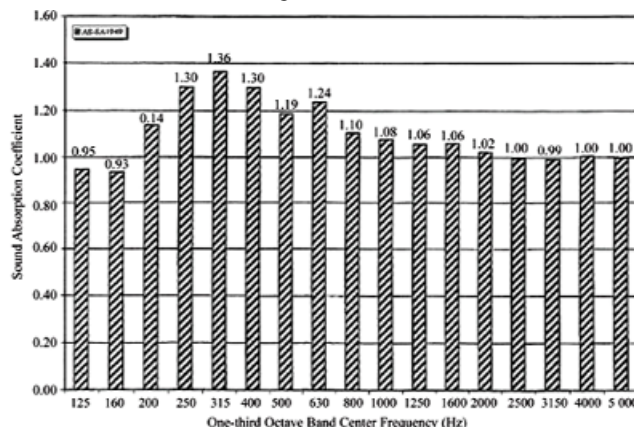
UltraTouch contains no chemical irritants and requires no warning labels compared to the carcinogenic warnings that fiberglass is required by law to display. UltraTouch contains no harmful airborne particles that can get into HVAC systems and the surrounding environment causing health concerns. UltraTouch also has no VOC outgassing concerns and contains no formaldehyde unlike fiberglass insulation. By installing UltraTouch, you are making both your building and the environment a safer place to live, work, and enjoy.

Product	R-Value	Length	Width	Pieces/Bundle	Sq. Ft. Bundle	Bundle Weight
UTR1316	R-13	94"	16.25"	10	106.07	48 lbs.
UTR1324	R-13	94"	24.25"	8	126.63	58 lbs.
UTR1916	R-19	94"	16.25"	5	53.04	30 lbs.
UTR1924	R-19	94"	24.25"	4	63.32	35 lbs.
UTR2116	R-21	94"	16.25"	5	53.04	37 lbs.
UTR2124	R-21	94"	24.25"	4	63.32	45 lbs.
UTR3024	R-30	48"	24.25"	8	64.64	57 lbs.

UltraTouch Sound Absorption - ASTM C423							
Frequency	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	NRC
3"	0.95	1.30	1.19	1.08	1.02	1.00	1.15
5"	0.97	1.37	1.23	1.05	1.00	1.01	1.15



**R-13 UltraTouch Cotton Fiber Insulation (Thickness 3")
Type A Mounting, AS-SA1949; NRC 1.15**



Class A Material



SGS U.S. Testing Company Inc.
ASTM E-84, Flame Spread Index
Flame Spread Index = 5
Smoked Developed Value = 35



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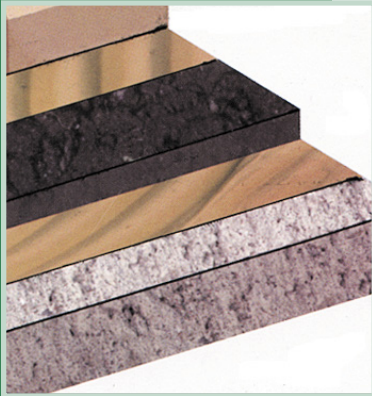
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"Building A Greener Tomorrow!"

Acoustik™

acoustic subflooring

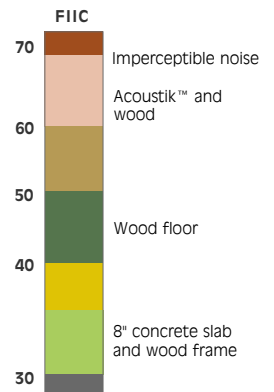
A "GREEN" PRODUCT



Soundproof Your Floors with An Innovative Product Made from 100% Recycled Rubber

- COMFORTABLE AND RESILIENT
- PROVIDES HIGH THERMAL INSULATION
- DAMPENS VIBRATIONS ● PASSES ROBINSON TEST
- FULLY WATERPROOF, 100% VAPOR BARRIER
- COST EFFECTIVE
- EASY TO INSTALL AND WORK WITH

- Acoustik™ subflooring is made from 100% recycled tires. Ideal under wood, ceramic or marble floors. It provides better resistance to impact noise and enhances the floors acoustic performance.
- Acoustik™ has been tested by renowned acousticians and/or architects specializing in acoustics.
- This high-quality product is suitable for all types of structures and floor coverings.



Material: Recycled rubber.

Pattern: Flat, semi-smooth.

Applications: Effective impact noise control and soundproofing. For use as a subfloor in new and renovation construction projects. Reduces impact noise and vibrations while reducing airborne sound transmission. Great under hardwood, ceramic or carpet.

Roll Size: 4' x 25' - Sold in full rolls.

Nom. Thickness: 1/4", 3/8", 1/2".

Color: Black.

Installation: Adhesive, DA5 & Poly 300, both are MAPEI adhesives.

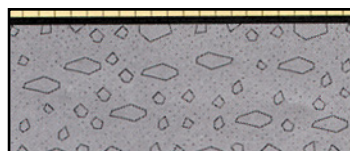
Flammability: ASTM E-84, Flame Spread: 83 Class C. Smoked developed: 315.



WHY GREEN?

- 100% Recyclable
- Made from Recycled Rubber

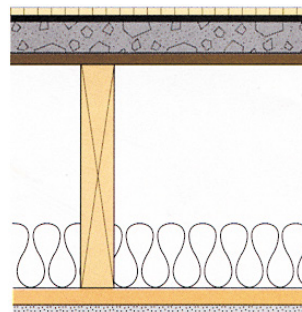
FIC 62



COMPOSITION:

- Wood Floor Adhesive
- 8-mm (5/16") Acoustik Membrane Adhesive
- Concrete slab (8")

FIC 61



COMPOSITION:

- Wood Floor Adhesive
- 8-mm (5/16") Acoustik Membrane Adhesive
- 38-mm Concrete Slab
- 11.1-mm (7/16") Particleboard
- 38 x 235-mm (2" x 10") Floor Joist
- RSI 1.470-mm (2-3/4") Sound Insulation

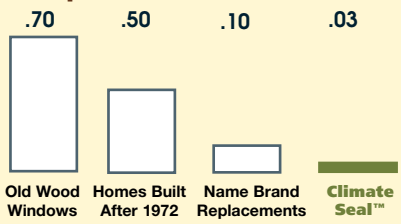


Climate SEAL™

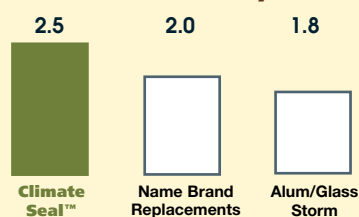
The World's Best Thermal, Acoustic, Preservation Window Inserts!



Comparison of Air Infiltration



R-Value Comparison of Various Window Systems



TYPES OF INSTALL



In Jamb.



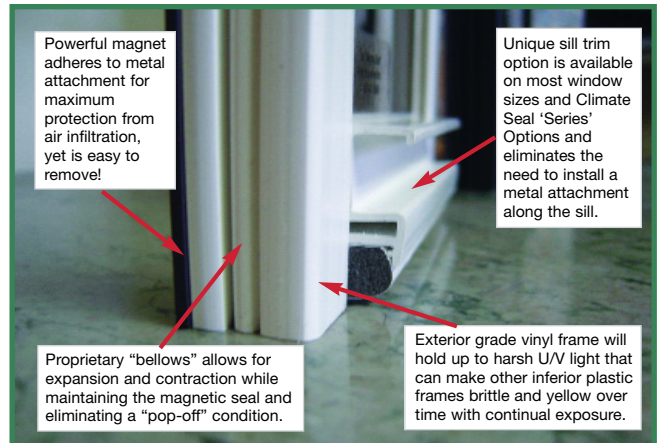
Flush Mount.

THERMAL SERIES

Relief from high fuel prices is here...just in the nick of time! Actually, the Climate Seal™ Thermal Series window insert has been slashing heating and cooling costs for its customers for over 30 years. Our Thermal Series offers immediate payback and a swift overall return on your new interior storm window investment. The secret is in our magnetic and proprietary bellowed design (see diagram) and superior insulating materials such as exterior-grade vinyl instead of aluminum and domestic acrylic glazing instead of single-paned glass. These unique and essential frame features create virtual elimination of air infiltration while adding additional insulating performance from the harsh elements just on the other side of your primary windows.



The Above Thermal Camera Image Shows the #1 Source of Heat Loss...
YOUR WINDOWS!



Climate Seal™ Window Insert vs. Replacement Windows: Which is the BETTER Choice?

When considering a window improvement project there is a lot to consider. Locations vary and existing conditions fluctuate. Every building is different. An ideal solution for one residence may not be for another. Appearance, condition, function and performance must be considered when determining the next step. The Climate Seal™ Thermal Series will unquestionably outperform any comparably priced replacement window in terms of performance and payback. That is certainly a bold statement, but very true for these simple reasons:

RETROFIT:

When you retrofit with our Climate Seal™ Thermal Series window insert, you are improving your existing windows performance by upwards of 40-60%¹. This combination (primary + Climate Seal™) is more effective and cost-friendly than typical replacement options².

REPLACEMENT:

Replacing your windows introduces an improved product over your primary window, but when compared to our retrofit option, you are taking whatever performance you were currently experiencing and reducing it to "0" and are left with only the improved benefits of the replacement option instead of both the existing primary and a secondary layer.

1. Actual performance improvement is determined by the type, age, condition and size of the primary window when retrofitted with our Climate Seal™ window insert.
2. Most, if not all comparable replacement window options have been shown to cost 2 or 3 times more than a same-sized Climate Seal™ window insert.



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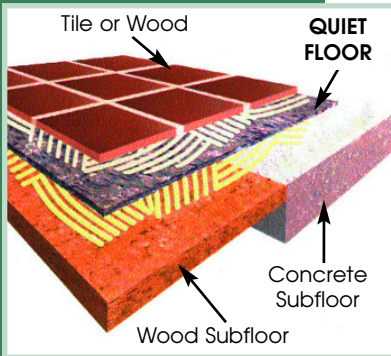
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"Building A Greener Tomorrow!"

QUIET FLOOR™ ACOUSTIC UNDERLAY Impact Reduction Pad for Floors

- ECONOMICAL
- RECYCLE "GREEN" PRODUCT
- EASY TO INSTALL
- LIGHTWEIGHT - SMOOTHS MINOR FLOOR IMPERFECTIONS



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. Quiet Floor™ 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.

Material: Recycled cotton fiber.

Features: Lightweight – smooths minor floor imperfections. Absorbs moisture and reduces impact noise.

Applications: Flooring underlay to reduce impact floor noise in commercial and residential construction.

Color: Gray.

Nom. Thickness: 1/8".

Nom. Size: 3' x 33-1/3" & 61' x 60' rolls. **Nom. Weight:** 2.22 oz./sq. ft. **Density:** 13.3#/cub. ft.

Installation: ASI Noise S.T.O.P. Acoustical Adhesive.

Flammability: Meets Federal Flammability Standard CPSC-FFI-70 (Pill Test).



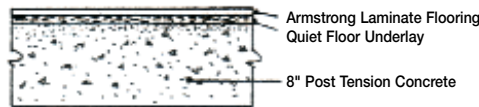
May Qualify for LEED Credits.



**STC up to 52
IIC up to 58**

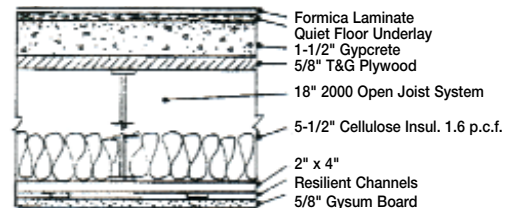
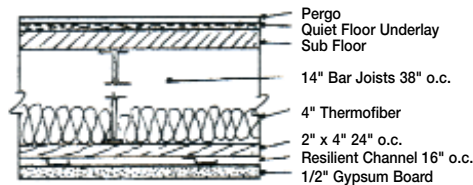
WHY GREEN?

- 100% Recyclable
- Made from Recycled Materials



FFIC 60

FFIC 39 20" Porcelain Tile



STC 52

**STC 53
IIC 52**

2" x 12" Ceramic Glazed Tile

IIC per ASTM E-492-92 (Impact)						
125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	IIC
58	56	44	30	20	18	58

STC per ASTM E-90-97 (Airborne)						
125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	STC
35	40	54	63	70	71	52



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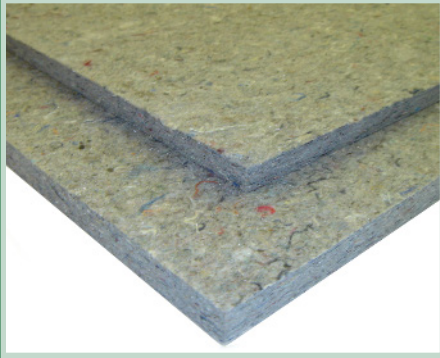
"Building A Greener Tomorrow!"

ACOUSTI-BOARD™ Soundproofing Backer

- ECONOMICAL
- RECYCLE "GREEN" PRODUCT
- 95% POST-MANUFACTURER/PRE-CONSUMER, RECYCLED MATERIAL
- TACKABLE



May Qualify for
LEED Credits.



WHY GREEN?

- 100% Recyclable
- Manufacture from 95% Post Industrial Materials

Material: Synthetic fiber. Synthetic fiber binder materials.

Features: Certified 95% Post-manufacturer/Pre-consumer recycled material. Will contribute to LEED MRc4.1-4.2 credits.

Applications: Soundproof backer for Wallmate, flooring underlayment, behind drywall and other applications.

Nom. Thickness: 0.50" (+/- 2%).

Nom. Size: 2' x 4' or 4' x 8' panels.

Flammability: Meets or exceeds the ASTM E-84-07 parameters for 'Class A' Interior Wall & Ceiling Finish Category.

Volatile Organic Compounds: Certified SCS Indoor Advantage – Gold. Passed Section 01350 VOC test to comply with Collaborative High Performance Schools (CHPS) and Office Spaces.

Sound: Impact Insulation Class (IIC) The method is designed to measure the change in impact sound transmission of a floor-ceiling assembly in a controlled laboratory environment. ASTM E2179-03. **IIC = 20.**

Sound Transmission Class (STC) The sound-insulating property of a partition element is expressed in terms of the sound transmission loss. (Stand alone product – no ceiling or wall assembly) ASTM E90-04, ASTM E413-04 **STC = 15.**

Noise Reduction Coefficient (NRC) A single number rating obtained by taking the arithmetic average of the absorption coefficients at specified frequencies, rounded to the nearest 0.05. **NRC = 0.50**

Sound Absorption Average (SAA) A single number rating obtained by taking the arithmetic average of the one-third octave bands at specified frequencies, rounded to the nearest 0.01. **SAA = 0.49**

Installation: Acoustical Adhesive.