



ACOUSTICAL | SURFACES, INC.

Easy Soundproofing Fixes

Part 2 - Walls, Ceillings, & Floors

The Big 3 for Structures: Walls, Ceillings, & Floors

Businesses and residences alike have noise problems that can be difficult to solve. Noise control, or soundproofing, becomes even more difficult when greater degrees of sound isolation are required. To achieve significant decreases in noise, structural changes are nearly always necessary – which brings us to Part 2 of our series, *structural* soundproofing. These fixes should be done early in your noise reduction efforts – in some cases at the beginning stages of construction.

We've placed the solutions shown here into three easy-to-remember categories:



These three structural surfaces define rooms in nearly any type of environment. The noise-control solutions here are suggestions; expert assistance is most often needed in structural situations and, fortunately, ASI is well-staffed to help you choose a solution that's best for your situation and budget.

If you'd like to know more about the concepts of soundproofing, please visit our [YouTube Channel](#) to watch "[What Is Soundproofing](#)," a fast-paced three-and-a-half-minute video simplifying the science of isolation and mass.

Best: RSIC Clips

RSIC-1 Resilient Sound Isolation Clips with Channel provide a maximum potential performance approach to sound privacy that will prevent the sound of noisy neighbors from transmitting through your walls or floor/ceiling assemblies. Customers using RSIC-1 Clips have recorded remarkable improvements of up to an additional 20 STC points on walls.

The RSIC-1-R (Retro) is designed to retrofit and improve existing walls and ceilings, and has been shown by actual field tests to improve existing walls by as much as 8-10dB.



Features & Benefits

- Contains noise
- Reduces noise transmission through ceilings, walls, and floors
- Many models available to solve a range of difficult noise issues

Applications

Bars, restaurants, conference and board rooms, hotels, theaters, schools, audiophile rooms, recording studios, houses of worship, music practice and band rooms, apartments, condos, and more.

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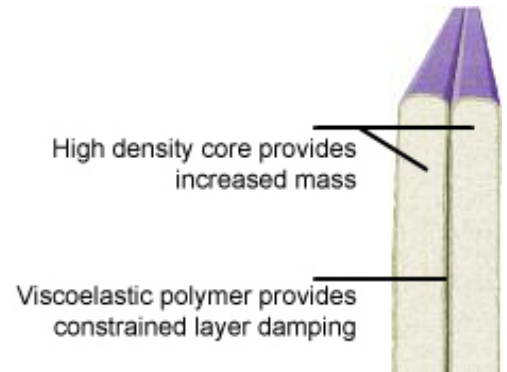


Next-Best: SoundBreak® XP®

SoundBreak XP Gypsum Board is an acoustically-enhanced gypsum board used in the construction of high-STC (Sound Transmission Class) wall assemblies. This innovative gypsum board allows for construction of high-STC wall assemblies that are thinner, more cost-effective, and more reliable than traditional methods of constructing these types of assemblies.

Features & Benefits

- Thinner wall partitions lead to increased usable floor space
- Superior sound damping
- Cost-efficient
- Easily finished and decorated in the same manner as standard drywall
- Abuse and abrasion resistant paper
- 5/8" Fire resistant type X Core – UL Classified
- GREENGUARD Children & SchoolsSM certified for indoor air quality
- Approved for use on walls and ceilings



Applications

Bars, restaurants, conference and board rooms, hotels, retail stores, theaters, schools, audiophile rooms, recording studios, houses of worship, music practice and band rooms, apartments, condos, and more.

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Cost-Effective: Rubber Stud Isolators

Rubber Stud Isolators effectively and affordably decouple walls and ceilings. Simply attach to studs and/or joists and continue construction to experience improved sound transmission performance for stud-based construction methods.

Features & Benefits

- Reduces sound transmission
- Contains noise
- Reduces noise transmission through ceilings, walls, floors, machinery enclosures, and ductwork
- Can be applied over suspended ceilings on studs and/or joists
- Material can be nailed, screwed, or stapled



Applications

Bars, restaurants, retail stores, theaters, schools, audiophile rooms, recording studios, music practice and band rooms, apartments, condos, and more.

RUBBER STUD ISOLATORS
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Even More Cost-Effective: Acousti-Gasket™ Tape

Acousti-Gasket Tape uses a cellular membrane to dramatically reduce vibration transfer between hard surfaces. The peel-and-stick application makes Acousti-Gasket Tape easy to apply.

This self-stick tape is made of low-density viscoelastic cellular rubber, which makes it a poor transmitter or conductor of sound, as it will dissipate sound energy. The tape can be placed between floor joists and sub-floor sheathing, on studs, or between layers of drywall to greatly reduce sound and vibration transfer.



Features & Benefits

- Builds quieter walls
- Reduces footstep impact noise in floor and ceiling construction
- Greatly increases floor, ceiling, and wall STC and IIC
- Reduces vibration transmission by dissipating sound energy
- Easy to apply – peel and stick application
- Goes on quickly – 1200 sq. ft. area in approximately 30 minutes
- Reduces noise transfer in a variety of uses

Applications

Excellent for common walls, bathrooms, offices, classrooms, conference rooms, home theaters, laundry rooms, mechanical rooms, bedrooms, quiet rooms, recording studios, and more.

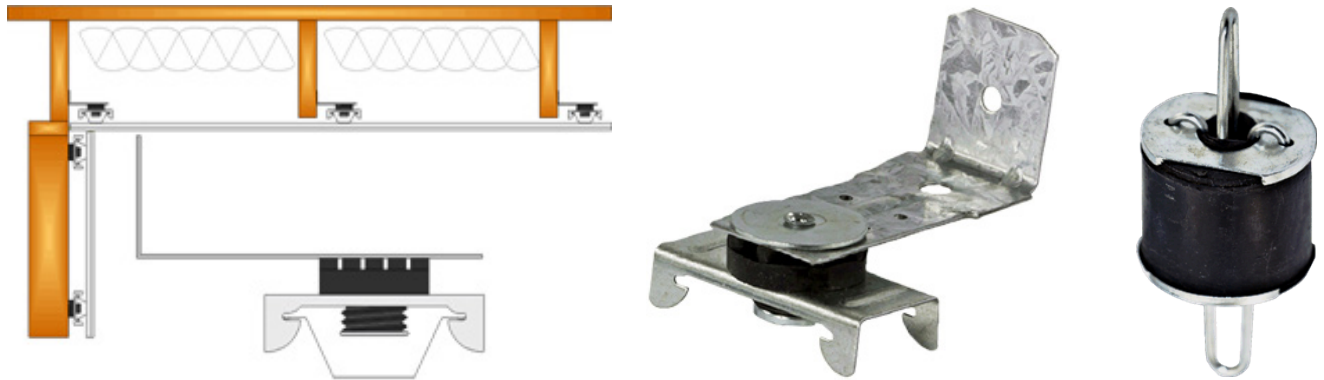
ACOUSTI-GASKET™ TAPE
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Best: RSIC Clips

Yes, RSIC-1 Resilient Sound Isolation Clips with Channel **also** provide a maximum potential performance approach for ceilings. These RSIC-Clip models are specifically made to isolate ceiling assemblies from the structure above, with proven results.



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Next-Best: Barrier Ceiling Tiles

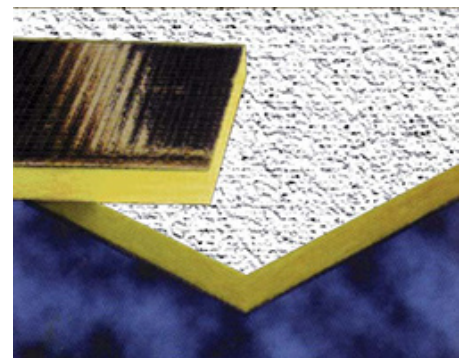
Sound Barrier Ceiling Tiles offer excellent acoustics with customized options to enhance visual aesthetics while satisfying acoustical requirements. This tile offers high STC and NRC values and is available in a variety of finishes.

Features & Benefits

- Installs in T-Bar grid
- Available in standard 2'x2', 2'x4' or custom sizes.
- Nonflammable Class 1-A per ASTM E-84

Applications

Anywhere paintable, non-toxic acoustical panels are indicated.



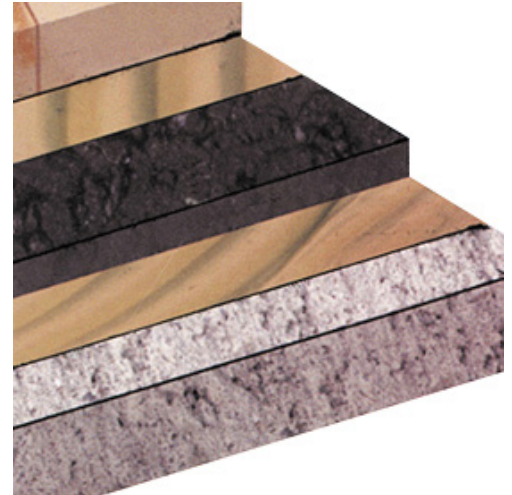
BARRIER CEILING TILES
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Best: ACOUSTIK™

Acoustik sound-absorbing subflooring/underlayment is a high-performance, cost-effective, and easy-to-install sound absorbing subflooring system. It reduces impact noise, airborne noise, and vibration. Made from recycled rubber, this solution is highly effective in most floor assemblies including homes, offices, condos, home theaters, and sound rooms. Acoustik provides high thermal insulation and water resistance, creating a 100% vapor barrier between slab and finish material.



Features & Benefits

- High-performance noise control
- Cost-effective
- Made from recycled rubber materials
- Provides STC and IIC ratings
- Dampens vibrations
- Comfortable and resilient
- Easy to install and work with
- Sold by the roll
- Available in many thicknesses
- Works with all flooring assemblies
- May contribute toward LEED® credits

Applications

Bars, restaurants, conference and board rooms, open office areas, hotels, medical facilities, retail stores, theaters, schools, audiophile rooms, recording studios, houses of worship, music practice and band rooms, apartments, condos, and more.

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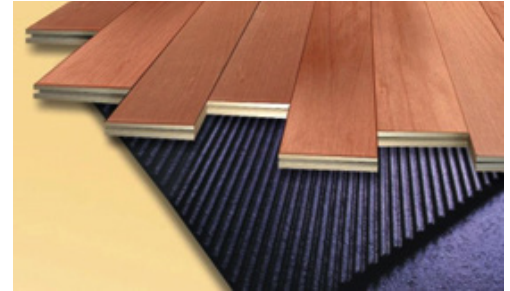


Next-Best: Quiet-Floor NP™ Sound Control Floor Underlayment

How do you keep your floors soundproof? It's no secret: Install QUIET FLOOR NP sound control floor underlayment for excellent results in floor isolation and superior sound control.

Features & Benefits

- Cost-effective
- Made of recycled rubber material
- Provides high performance noise control



Applications

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. Can be used as finished floor.

QUIET-FLOOR NP™
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GREENchoice™ Acoustical Sound Sealant

GREENchoice Professional Acoustical Sound Sealant is a non-flammable, latex-based product designed specifically for the reduction of sound transmission in wall partition and ceiling systems. Its primary function is to achieve and maintain the specific Sound Transmission Class (STC) value of the system designed.

GREENchoice Acoustical Sound Sealant remains permanently flexible and adheres firmly to wood or metal studs, concrete, gypsum board, and most other types of building substrates. Its unique formulation is non-drying, non-hardening, non-staining and non-migrating. The sealant is used for unexposed applications at perimeter joints, floor and ceiling runners (either wood or metal), cutouts in gypsum board, veneer plaster systems, and other areas where a sound rated assembly is required.



Features & Benefits

- Environmentally safe – VOC-compliant
- Eliminates sound transmission and seals air gaps
- Improves STC values and upgrades sound quality
- Repairs cracks and eliminates rattles in drywall and plaster
- Mold and mildew resistant
- Easily tools with one pass

GREENCHOICE™
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Why Acoustical Surfaces?

Dealing with unwanted sound — in any situation — can be stressful and intimidating. From corporate boardrooms with too much hallway foot-traffic noise to living room conversations drowned out by your neighbor's no-muffler motorcycle, noise pollution is everywhere these days. Many studies show it's increasingly responsible for health problems, both at home and in the workplace. The amount of sound isolation your situation requires will vary, but a comforting fact is that our highly-experienced staff can help you solve the soundproofing problems you face.

[Contact Acoustical Surfaces](#), Inc. today to tell us about your noise problem.

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Easy Soundproofing Fixes – Part 1; The Big 3 for Surfaces: Doors, Windows, Pipes & Ducts

Learn about the foremost noise issues and their ideal fix in Acoustical Surfaces' latest guide. Each of the solutions includes the product, benefits, applications, and next-to-best solutions accordingly.

DOWNLOAD PART 1