



ACOUSTICAL | SURFACES, INC.

Easy Soundproofing Fixes

Part 1 - Doors, Windows, Pipes & Ducts

The Big 3 for Surfaces: Doors, Windows, Pipes & Ducts

Whether for an office or a home, solving noise problems can be difficult. Noise control, often referred to as “soundproofing,” becomes even more important in an era of increasingly distracting and [un-healthy](#) noise pollution. While structural soundproofing — the topic of Part Two — is potentially more time-consuming, the noise-control products provided here are surface-oriented, and therefore easier and, for the most part, less costly to implement.

We’ve divided everything into three groups:

1. Doors



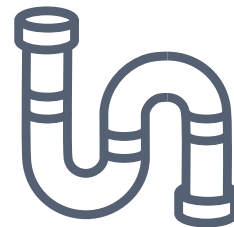
Every room
has at least one

2. Windows



It’s nice to be able to
view your surroundings

3. Pipes & Ducts



Because infrastructure noise
can be intrusive

The following noise-control solutions are presented as suggestions; expert assistance may be wise in complex situations but these products have been proven to work in the right applications.

If you’d like to know more about the concepts of soundproofing after finishing this guide, 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: Soundproof Doors

ASI is proud to offer the market's only affordable soundproof interior door. Our sound control doors have an STC value up to 56. Studio 3D soundproof doors are ideal for recording studios, offices, band rooms, hotels, dorm rooms, conference rooms and any application where a soundproof interior door is required. Standard doors are offered in oak and ready to stain with satin chrome hardware. Custom options and finishes are also available.



Features & Benefits

- Low cost – high performance
- STC Ratings up to 56
- Products tested per ASTM E-90
- Custom manufactured acoustic door to any size specification
- Approximately 300lb. door assembly
- 2⁷/₈" 13-Layer door assembly
- Delivered pre-hung and assembled
- Adjustable soundproof jambs & seals
- Ready to stain/paint to match your decor
- Best performance wood finished door assembly available
- Automatic sill
- Heavy-duty hinges (4)
- 3-Point latching system

Applications

Auditoriums, bars, restaurants, conference and board rooms, hotels, medical facilities, sports and entertainment venues, casinos, retail stores, theaters, schools, audiophile rooms, laboratories, recording studios, houses of worship, manufacturing and industrial facilities, gun ranges, music practice and band rooms, apartments, condos, and more.

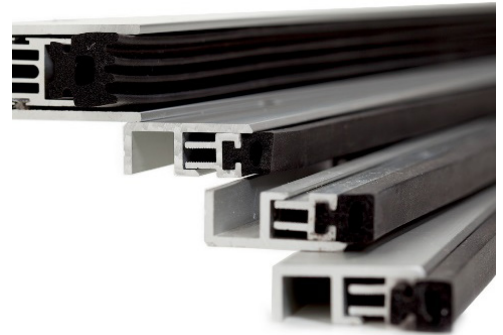
SOUNDPROOF DOORS
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**OUR PRODUCT
SPECIFICATIONS**



Next-Best: Door Seal Kits

Soundproofing a room starts with eliminating air gaps around the door. Our highly-effective and affordable Door Seal Kit features an automatic bottom seal and adjustable jamb seals, which create an airtight seal around your solid-core door. The self-leveling bottom seal lowers a heavy-duty neoprene gasket to the wood or metal door threshold when closed.



Features & Benefits

- Reduces sound transmission through door assemblies
- Economical
- Easy to install
- Durable

Applications

Conference and board rooms, bars, restaurants, hotels, retail stores, theaters, schools, audiophile rooms, recording studios, houses of worship, manufacturing and industrial facilities, music practice and band rooms, condos, and more.

DOOR SEAL KITS
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SPECIFICATIONS**



Best: Soundproof Windows

The Studio 6 Soundproof window is a world-class studio window with maximum performance and appearance, as well as an affordable price — especially compared with site-built alternatives. These beautiful studio windows have angled and flat glass options for maximum acoustical performance.

The Studio 6 model features two pieces of 1/4" laminated glass, an air cavity, an additional pane of 3/8" laminated glass, a 6-3/8" aluminum frame, and acoustically-treated frames and seals. By inseting or offsetting, they fit any wall thickness.



Features & Benefits

- STC Rating up to 56
- Custom sized to fit application
- Extra-large units available with mullions
- Frames available in clear, anodized, or bronze anodized
- Optional tinted, one-way mirror pane, safety glass, etc.
- 4° Angled glass for maximum acoustical performance; optional flat glass configuration

Applications

Auditoriums, conference and board rooms, hotels, medical facilities, sports and entertainment venues, casinos, theaters, schools, audiophile rooms, laboratories, recording studios, houses of worship, manufacturing and industrial facilities, music practice and band rooms, and more.

SOUNDPROOF WINDOWS
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Next-Best: Climate Seal™

Climate Seal acoustic and thermal window inserts are the ideal choice for residential, commercial, and historical applications where thermal and sound leakage through existing windows is a problem. The Climate Seal Retrofit Window System reduces heating costs, eliminates drafts, and lowers noise transmission and ultra-violet rays. These window inserts can be installed in museums, schools, residences and industrial facilities.



Climate Seal Window Inserts are easy to install, easy to use, and aesthetically invisible. They are removable for cleaning or maintenance and are easily reapplied to reduce exterior noise levels and interior sound leakage. There are Climate Seal solutions for homeowners, architects, interior designers and home improvement contractors.

Features & Benefits

- Impact resistant
- UV-blocking
- High-performance acoustical weather strip
- Half the weight of glass
- Easy to install and removable for cleaning or maintenance
- Proprietary bellows allows for expansion and contraction without bowing
- Magnetic strength is an industry-best 12-14lbs./lin. ft. and will not lose contact over time

Applications

Hotels, schools, audiophile rooms, recording studios, houses of worship, music practice and band rooms, airports, apartments, condos, and more.

CLIMATE SEAL™
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Pipe & Duct Lag (Wrap)

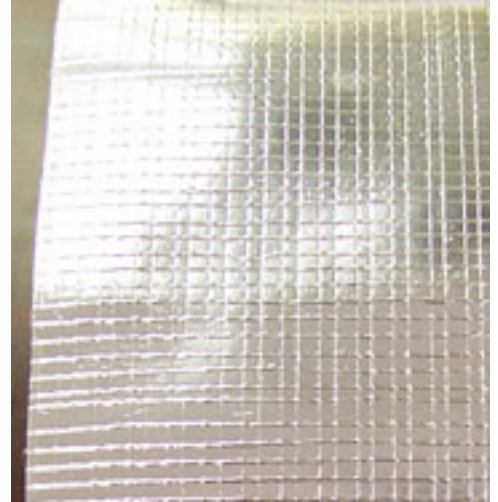
Our acoustical pipe and duct lag flexible noise barriers are a composite material featuring a flexible, reinforced, foil-faced, mass loaded vinyl noise barrier bonded to a scrim-faced quilted decoupler/sound absorber. They are used to wrap noisy pipes, ducts, valves and fan housings.

Features & Benefits

- Class A (or 1) flammability rating per ASTM E-84
- Standard roll is 54" wide x 30' long
- Accepts matching lag tape for easy installation

Applications

Typically used to wrap noisy pipes and ducts to block the noise that transmits through the walls of the pipe or duct. The quilted fiberglass decoupler improves the performance of the noise barrier and provides sound absorption and thermal insulation around the duct or pipe. Suitable for both indoor and outdoor applications, the reinforced foil exterior readily accepts a matching lag tape for easy installation.



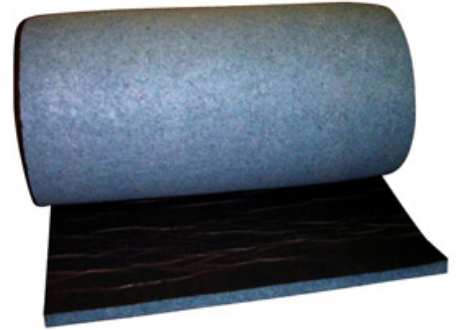
PIPE AND DUCT LAG (WRAP)
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Quiet Liner™ Recycled Cotton Acoustical Liner

Quiet Natural Fiber Liner (Patent Pending) is a thermally-bonded HVAC insulation solution that offers superior acoustic and thermal performance. Made from natural fibers, Quiet Liner contains no fiberglass and does not itch or cause skin irritation. The fibers used to manufacture Quiet Liner offer excellent sound absorption properties. The product's air stream surface is overlaid with a durable, fire-resistant black facing to provide additional strength. Both the insulation and the facing are treated with an EPA registered anti-microbial agent.



Features & Benefits

- Excellent noise absorption
- Class-A fire rating
- Reduces heat loss/gain
- No formaldehyde
- Resists microbial growth
- Low air resistance
- No itching or skin irritation

Applications

Quiet Natural Fiber Liner is designed for HVAC sheet metal ducts and used primarily as an acoustical liner to absorb unwanted noise from multiple sources. This product also reduces heat gain and loss, contains no harmful irritants, and is safe to handle and install.

QUIET LINER™
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Quiet-Duct Wrap™

Quiet-Duct Wrap Thermal/Acoustic Insulation is a lightweight, foil-faced, fire retardant, blanket-type insulation with multiple uses. The Duct Wrap offers excellent thermal and acoustical performance and carries a Class-A fire rating.

Made from durable natural fibers, Quiet-Duct Wrap contains no fiberglass and does not itch or cause skin irritation. The fibers used to manufacture the Duct Wrap offer excellent sound absorption properties and every fiber used is individually treated with an EPA registered anti-microbial agent offering excellent protection from mold, mildew, fungi, pests, and fire. The Quiet-Duct Wrap's pure aluminum barrier reflects unwanted radiant heat and offers excellent protection from air currents, moisture, and vapors.



Features & Benefits

- Recycled cotton acoustical duct wrap
- Excellent noise absorption
- Reduces unwanted heat
- No itching or skin irritation
- Resist microbial growth
- Easy to handle and install
- Durable and long-lasting

Applications

Use the Quiet-Duct Wrap in homes, offices, or wherever heat or noise control is necessary.

QUIET-DUCT WRAP™
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SPECIFICATIONS**



The common element tying all of these noise-control solutions together is their ease of use. With the exception of Soundproof Doors and Windows, which involve construction installation, the products featured in Part 1 are simple to install and utilize, and are all highly cost-effective. For doors, think solid and layered-core wood materials. For windows, think multiple glass layers with an air gap between, and for duct work, think wraps and liners.

Why Acoustical Surfaces?

Acoustical Surfaces, Inc. (ASI) is the industry leader in acoustics, vibration, soundproofing, and noise control. With over 35 years of experience, we are proud to offer a broad range of innovative acoustical solutions including wood wool-cement composite panels, panels, and slabs.

Our extensive portfolio includes work in indoor and outdoor commercial, industrial, religious, educational, and residential settings, among many others. At ASI, no job is too big or too small. Let us help you with your next project.

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

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Easy Soundproofing Fixes – Part 2: The Big 3 for Structures: Walls, Ceilings, & Floors

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.

DOWNLOAD PART 2