



# WEST COAST

## SOUND SOLUTIONS



solutions for living life

# Quietly

Soundproofing the West Coast



**Product** Catalog

providing the best products, the best service & the best results...

*is our goal*

## About Us

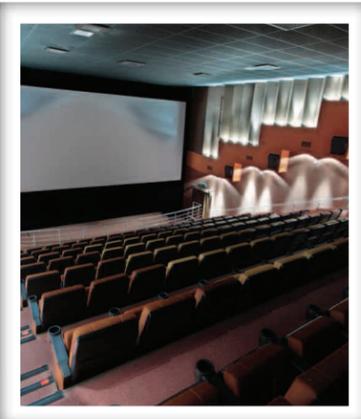
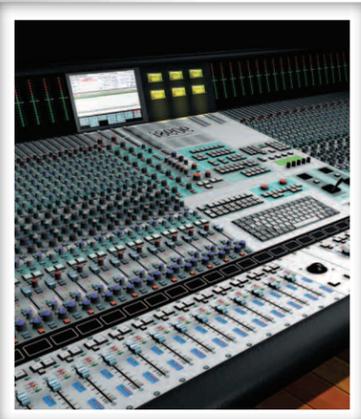
Working in home improvement for over 30 years, West Coast Sound Solutions (affiliated with A&M Carpets) has been the leader in revolutionary soundproofing technology. Coming from a background of concert audio installation and television sound recording, we know how important sound is and how annoying it can be. For this reason, it has always been our goal to provide the highest level of soundproofing for every application. Over the years, we have been responsible for inducting new products into the soundproofing industry, such as a new form of Underlayment, providing carpeted floors with some of the highest level of both soundproofing and comfort. Whether you are constructing a home studio or movie theatre, or just trying to reduce noise in your home, one of our sound designers personally guides you through your project every step of the way. We are here to make sure you get the results you desire.

West Coast Sound Solutions has worked with numerous leaders in the entertainment industry with names such as Sony, Apple, Twilight Solutions, etc. By working on large projects and with such reputable companies, we know the results that can be achieved. Our methodology is that these technologies shouldn't be limited to just commercial use, but incorporated into residential homes who also suffer from disruptive sound issues. For this reason, after thousands of projects, it still remains our goal to give you only the best products, the best service, and the best results.

*Elad Vaknin*  
Acoustics Consultant



Making homes peaceful and quiet...



We specialize in offering the latest and most effective environmentally friendly soundproofing products backed up by our expert advice and attentive customer service. Whether you are soundproofing a home theatre, studio, basement, garage, bedroom, or playroom, we can help you choose the perfect solution for your situation. Our full line of products includes Green Glue, Soundproof Barriers (Mass Loaded Vinyl), Recycled Rubber Underlay, Sound Isolation Clips, and all the accessories.



# measuring sound...explained

Noise affects us everyday; at home, at leisure, during sleep, when traveling and at work. Taking an active role in making a room soundproof is not only soothing but could also yield noticeable health benefits. Below are a few things you should know about sound and how its measured.

## What is STC?

STC stands for Sound Transmission Class. This is a method of gauging sound transmission loss through a wall. The American Standards and Testing Materials criteria is universally accepted by architects, designers, manufacturers, contractors and distributors of acoustical building products. The original acceptability of STC 34 walls must be reconsidered with the advent of increasing noise pollution.

## What are dBs?

While an STC rating is given in terms of points, the data is given in terms of decibels. A decibel, or dB, is a unit measure reflecting "how loud" a sound is. A sound pressure level of 0 dB represents the threshold of hearing in the most sensitive frequency range of a young, healthy ear, while the thresholds of tickling or painful sensations in the ear occur at about 120 to 130 dB.

## Types of Noise

### - Airborne Noise

Conversation, TV, radio and other noise that can actually pass through your wall is called airborne noise and is caused by walls that are too lightweight to sufficiently block the noise.

This is a common problem with modern construction as the codes have not evolved to meet the demands

of today's normal occurrences. Often office, residential and multi-family walls are built with 1/2" sheetrock more because it meets minimum code than for peaceful living or work environment.

### - Structure Borne Noise

The low frequency noise caused by home theaters, stereos or music practice is called structure borne noise. This noise can actually pass through a well insulated wall in the form of vibration. This is the kind of noise you can actually feel in your feet or with your hands.

## What Will Help Stop Noise?

**Space:** The more space, the more reduction in sound levels. Many have solved their soundproofing issues by building staggered stud walls, double stud walls or installing Sound Isolation Clips. All of these methods help decouple the wall and increase the sound isolation.

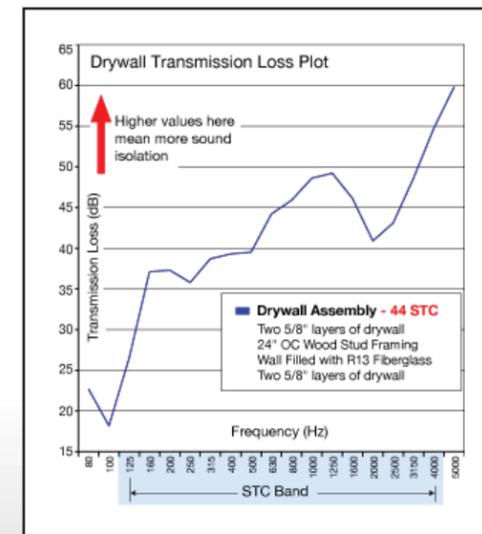
**Mass:** The heavier the wall, floor or ceiling assembly the better it will work at blocking sound.

**Dampening:** Like a wine glass when you make it ring...but you can keep it quiet by holding it. You have to dampened the noise by reducing the vibrations.

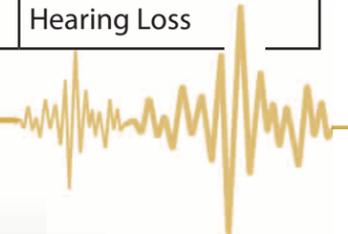
You can achieve remarkable results through combining space, mass and damping in your projects.



## understanding the range of sound



Common Sound	Noise Level	Effect
Hearing Begins	10 dB	Just Audible
Soft Whisper	30 dB	Very Quiet
Light Auto Traffic	50 dB	Quiet
Noisy Restaurant	70 dB	Intrusive
City Traffic	90 dB	Annoying
Rock Concert	110 dB	Very Loud
Thunderclap	130 dB	Extremely Loud
Rocket Launching	180 dB	Hearing Loss



# Walls & Ceilings

Soundproofing walls and ceilings has come a long way in the last 10 years. Creating truly private rooms is a simple process when you have the right products available. Using flexible membranes, isolation techniques and damping products in your walls, individually or in combination, makes even the most challenging projects possible.

Carefully consider our leading soundproofing products below. Take a moment to call us, we'll help you get it right the first time!

## Green Glue Soundproofing



### Green Glue is a simple and effective soundproofing solution

Green Glue can be used over any existing wall, floor or ceiling by simply adding another layer of material. No rolling, painting or troweling is necessary. Just open the tube and apply in random patterns. With a fast and easy installation, anybody can sound proof a room with Green Glue.



### Bulk Green Glue and Applicator

Green Glue is available in 5 Gallon Pails. Each pail covers 352 sq ft, or eleven sheets of 4' x 8' drywall. in the right project, using Green Glue Pails can be the correct choice. We offer a re-loadable dispenser and follower plate that prevents waste and saves time. Give us a call to see if Green Glue Pails are the right choice for you.

## Soundproof Barrier



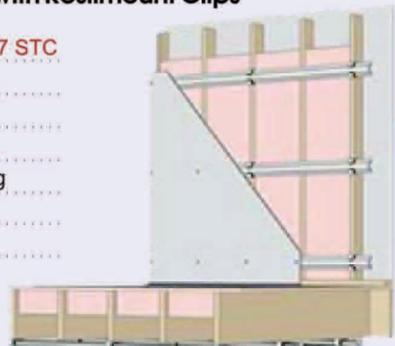
### Mass Loaded Vinyl (MLV)

Soundproof Barrier, also known as Mass Loaded Vinyl (MLV), is the most widely used noise control solution for walls, floors and ceilings. Used and tested in thousands of projects, it is a recognized and proven industry standard in sound mitigation.

Flexible soundproof vinyl barriers resist the passage of noise waves, and reduce the transmission of airborne noise. Our barriers will not rot, shrink, or cause corrosion and all have been UL tested and approved for use in walls and floors -- a requirement for commercial applications.

### Build your walls with Resilmount Clips

- Assembly Rating: 57 STC
- 5/8" Drywall
- ISOMAX Clips
- Furring Channel
- 24" oc Stud Spacing
- R-13 Insulation
- 5/8" Drywall



### How Kinetics ISOMax Sound Isolation Clips Work

Kinetics ISOMax Sound Isolation Clips are used to eliminate the hard connection of the wall or ceiling substrate to the actual structural members (studs, joists and trusses). Because of their unique design and the use of furring channels, the Kinetics Clip System actually supports the drywall effectively floating and decoupling the assembly.

Noise creates energy waves that can actually vibrate through a partition; the lower the frequency, the harder the waves are to stop. Floating/decoupling a wall or ceiling is the only way to effectively reduce the low frequency noise. Using our clips system in combination with acoustical sealant will help you do that.



QuietClips dramatically improve STC ratings for any wall, floor or ceiling. Quietclips are some of the best clips on the market.

- lowest cost solution for STC ratings over 55.
- Innovative new design.

Using QuietClips in your new or existing wall construction will improve the noise blocking from average to remarkable.



### Resilmount Clips

West Coast Sound Solutions is proud to introduce the Resilmount line of Clips. With many innovative designs, Resilmount clips can accommodate a variety of construction challenges. Multi-family housing, mixed-use commercial, studio and home theaters are just a few perfect projects for Resilmount clips.



### Resilmount A96R

Resilmount A96R are designed for use where an additional drop for HVAC, Plumbing or Electrical Chases is needed while retaining the superior acoustical performance. This clip gives you the flexibility to drop a ceiling as much as 4" from its original height. The Resilmount A96R is also used to level out uneven floor joists. This clip has proven to be very popular with the Home Theater industry.



### Ultratouch Denim Insulation

Controlling sound and noise transmission through walls, ceilings and floors can be a complex design and construction challenge. UltraTouch offers an extremely high Noise Reduction Coefficient (NRC) to effectively reduce airborne sound transmission including traffic, airplane, radio, television, and everyday human conversation. The natural fibers in UltraTouch provide excellent sound absorption, while the patented manufacturing process used to create UltraTouch produces a three dimensional infrastructure that effectively traps, isolates, and controls sound waves. The result is a quiet comfortable environment between rooms, walls, and flooring.



# Green Glue...simple & effective sound solution

Green Glue can be used over any existing wall, floor or ceiling by simply adding another layer of material. No rolling, painting or troweling is necessary. Just open the tube and apply in a random pattern. With a fast and easy installation, anybody can soundproof a room with Green Glue.

## Green Glue Transmission Loss

### DRYWALL ONLY WALLS - NO GREEN GLUE

STC	Source Side	Receive Side	Stud Spacing
40	One 5/8" layer of drywall	One 5/8" layer of drywall	24"
42	Two 5/8" layers of drywall	One 5/8" layer of drywall	24"
44	Two 5/8" layers of drywall	Two 5/8" layers of drywall	24"

### GREEN GLUE WALLS - WOOD STUDS

STC	Source Side	Receive Side	Stud Spacing
52	Two 5/8" layers of drywall	One 5/8" layer of drywall	24"
55	Two 5/8" layers of drywall	Two 5/8" layers of drywall	24"
56	Two 5/8" layers of drywall	Two 1/2" layers of drywall	24"
56	Two 1/2" layers of drywall	Two 5/8" layers of drywall	24"
57	Two 1/2" layers of drywall	Four 5/8" layers of drywall (2 layers of Green Glue)	24"

### GREEN GLUE WALLS - STEEL STUDS

STC	Source Side	Receive Side	Stud Spacing
59	Two 1/2" layers of drywall	Two 1/2" layers of drywall	24"

### RESILIENT CHANNEL WALLS WITH GREEN GLUE

STC	Source Side	Receive Side	Stud Spacing
57	Two 1/2", RC + GG	Two 1/2" layers of drywall + GG	16"
57	Two 1/2", RC + GG (one short circuit)	Two 1/2" layers of drywall + GG	16"
56	Two 1/2", RC + GG (two short circuits)	Two 1/2" layers of drywall + GG	16"
56	Two 1/2", RC + GG (four short circuits)	Two 1/2" layers of drywall + GG	16"
55	Two 1/2", RC + GG (8 short circuits)	Two 1/2" layers of drywall + GG	16"
55	Two 1/2", RC + GG (16 short circuits)	Two 1/2" layers of drywall + GG	16"



## How It Works

- Green Glue is a constrained layer damping system, which as a damping material is sandwiched between two other rigid materials. For example, Green Glue sandwiched between two layers of drywall. Damping occurs when the viscoelastic center of the "sandwich" is sheared.

When bent, shear forces pull and stretch on the damping material. Under these conditions, Green Glue efficiently converts and dissipates this mechanical vibration energy to heat, effectively eliminating the noise.

Green Glue is the simplest, most effective and most affordable soundproofing product for your walls, floors and ceilings.

- Green Glue has ultra low VOC's, is non-toxic and cleans up with soap and water.
- Green Glue drastically reduces impact and airborne noise. It is one of the few products that can solve both.
- Green Glue beats the cost and performance of Quiet Sheetrock or any other high-cost "special" sheetrock.
  - Ideal for home theaters, recording studios, playrooms; wood, tile and carpet floors; anywhere you want some peace and quiet!
  - Already used thousands of times with astounding results. Stop neighbor noise and create a quieter home, workplace, condo, or conference room.

## Green Glue Frequently Asked Questions

### 1. What is Green Glue and how does it work?

Sound travels as a wave through the air. It's an airborne vibration. The waves hit a wall or ceiling and the energy becomes structure-borne. Unless the wall or ceiling material is damped, the vibration will travel through the building framing and exit somewhere else as sound again.

### 2. How does Green Glue Work?

Green Glue constrained damping image in a constrained layer damping system, sometimes referred to as CLD, a damping material is sandwiched between two other (usually stiff/rigid) materials. For example, Green Glue sandwiched between two layers of drywall. Damping occurs when the viscoelastic center of the "sandwich" is sheared.

When bent, shear forces pull and stretch on the damping material. Under these conditions, the unique polymeric construction of Green Glue very efficiently converts this mechanical energy to heat. The vibration energy is not isolated, it's dissipated and gone.

### 3. How is it applied?

Green Glue comes in 29 oz. tubes. You can use any quart size caulk gun, available at most hardware and building material stores. It is very fast and easy to apply. No special skills whatsoever are required. Application Instructions.

### 4. Can I use Green Glue with only one layer of drywall?

No. Green glue needs to be a constrained layer, meaning that Green Glue is sandwiched between two rigid, dense layers of building material. There is no limit to how many drywall / Green Glue layers you can utilize, and performance will improve as the # of layers goes up.

### 5. Do I use nails or screws in conjunction with Green Glue?

Yes. Audio Alloy recommends the use of screws in accordance with local building codes. Screws assist with the compression of the Green Glue layer into a thin film.

### 6. Should I use conventional adhesive along with Green Glue?

No. The presence of rigid, low-damping materials alongside Green Glue between layers is not desirable.

### 7. How thick is the Green Glue layer?

About 0.5 mm.

### 8. Can Green Glue be used in floors?

Absolutely, in fact when used in floors, Green Glue yields a double benefit - it helps with both impact (footstep) noise and airborne sound, and is very effective at both. Green Glue may be used between layers of subfloor, between subfloor and tile backer board, and between thinset mortar and the surfaces below. You may be able to use 2 layers of thinner subfloor if convenient.

### 9. Can I treat just the ceiling, or should all surfaces be dealt with?

If you have a situation where you want, for example, to stop sound from moving upstairs, the most logical path for the sound is through the floor/ceiling into the room above, this is called the direct path. However, sound can make its way upstairs through the walls (or even floor) as well in the form of mechanical vibration. Sound in your room vibrates the walls, this vibration makes its way up where it creates sound by vibrating the surfaces of the upstairs room. Sound making its way through these indirect paths is called flanking noise.

An analogy that is sometimes used when discussing sound isolation is that of an aquarium. If your aquarium has a hole in any of the 5 sides, then the water can spill into the floor, regardless of how tight the other 4 are. The same applies to sound.

For best results, you should consider treating all the surfaces of your room. You may also have to pay attention to other sound paths, such as noise going in and out of doors, and noise making its way through duct work. Read more about how sound can travel along non-linear paths.

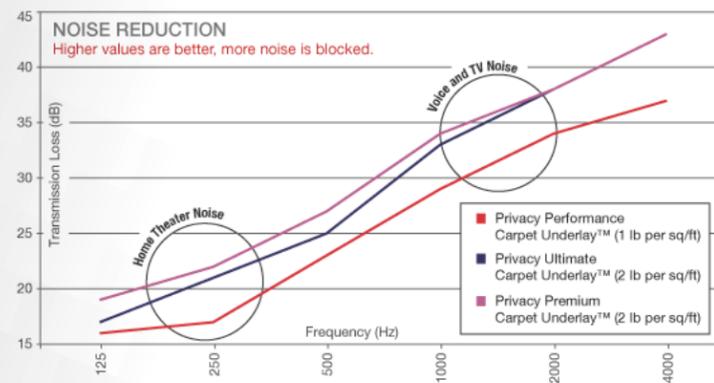
### 10. Can GG make a high performance wall without decoupling methods such as resilient channel?

Yes, without a doubt. In fact, Green Glue has performance advantages in many applications compared to the decoupling method.



# Floor Soundproofing

Blocking noise from floor-to-floor is the most common yet challenging request in soundproofing. As trends continue towards higher population densities in urban settings, privacy in the home has become of greater and greater importance. Multi-level housing brings with it special "neighbor noise" issues that need special solutions. We have the right products for your project -- ranging from thin underlays appropriate for floating wood floors on concrete to thick underlays for nailed down floors, as well as underlays for carpet or tile/stone. Our suggested uses below should be used as a general guide .

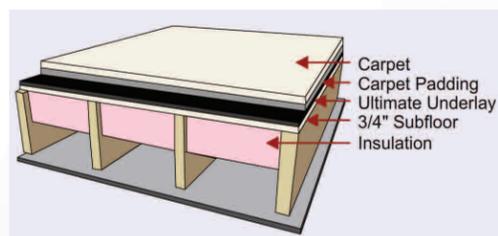
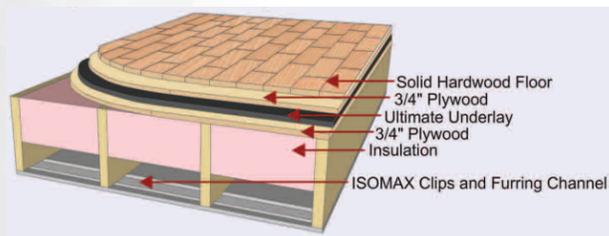
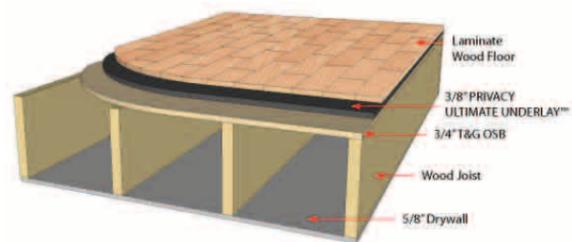


Frequency (Hz)	125	250	500	1000	2000	4000	STC
Performance Carpet Underlay	16	17	23	29	34	37	27
Ultimate Carpet Underlay	17	21	25	33	38	43	32
Premium Carpet Underlay	19	22	27	34	38	43	32

Soundproofing floors is a process that requires a careful evaluation of the current construction and conditions; then the selection of a floor underlay product that will actually work given your specific requirements. There is not a "cookie cutter" product that will work for all floors--we will help you choose the best one for your needs.

We consider it our responsibility to make sure you understand how products will work in your project. Products for concrete buildings don't always work for wood buildings; and there are even buildings where both are present! Your experience with West Coast Sound Solutions should be one where you are provided with relevant information that you can use to make an informed decision.

As we have done with every solution we offer, we do not settle for average results. We are only interested in products that will produce remarkable soundproofing for your floor.



Different types of flooring have very different sound transfer qualities. Rather than just offering a one-size-fits-all approach, West Coast Sound Solutions offers effective, custom solutions that result in higher performing floors. Reduce footfall and impact noise with our fully tested floor underlay solutions.



## Privacy Performance Underlay

You will experience the ULTIMATE in peace and quiet from noise above and below, without the cost and inconvenience of tearing up your current floor. Made in the USA from 93% recycled rubber, Privacy Ultimate Underlay™ has been designed to benefit our environment, and provide unequalled performance in your soundproofing project. Our soundproofing underlay can be installed underneath any carpet or any hardwood floor, providing valuable LEED points to your project as well.

Privacy Ultimate Carpet Underlay™ is available in a variety of thicknesses 3.2mm, 6mm, 9mm and 11.5mm. When significant low frequency noise blocking is required we suggest the 11.5mm thickness which will add 28% more mass and insure that heavy bass noise will be significantly defeated.



## Tile/Stone Floor Underlay

Privacy Tile/Stone Underlay™ can be used over any sub-floor to create measurable footstep noise reduction. By creating a resilient layer directly below hard floor materials, the actual vibration from footsteps is captured at the source.

Privacy Tile/Stone Underlay™ has been treated to prevent mold and mildew and will not absorb water, preventing rot and shrinkage. With a peel and stick adhesive already in place, the product installs up to 4 times faster than traditional concrete board, and provides a bonded crack prevention system.



## Performance Carpet Underlay

Privacy Performance Carpet Underlay™ combines the noise-blocking effect of 1 lb per square foot soundproof barrier with impact-absorbing 1/4" premium foam backing to provide excellent results under carpet flooring.

Privacy Performance Carpet Underlay™ is an excellent choice for most carpet installations and will add measurable privacy to your home. Specifically designed for soundproofing under carpet, the Performance Carpet Underlay eliminates the need for a carpet pad in most cases.



## Premium Carpet Underlay

Our Privacy Premium Carpet Underlay™ is the best choice for the most demanding applications. It combines the noise-blocking effect of a hefty 2 lbs per square foot soundproof barrier with impact-absorbing 1/2" premium foam backing to provide premium results under carpet flooring.

At a total thickness of 3/4" our Privacy Premium Carpet Underlay™ is the top performer for adding privacy under carpet flooring. In most cases it eliminates the need for a carpet pad. Adding 2 lbs per square foot of weight insures maximum privacy. Typical uses for this product are recording studios, commercial spaces, high-end residential and luxury yacht staterooms.



# Soundproofing Accessories

They say the devil is in the details. Sound isolated walls, ceilings and floors are only as good as their weakest link. Sound can leak through assemblies like water dripping from a faucet. Make sure to seal and isolate every seam and penetration to maintain the highest level of performance for your assembly.

## Acoustical Sealants



SilenSeal Acoustical Sealant is a water-based sealant designed to reduce sound transmissions in walls and partition systems. The Sealant's primary function is to achieve and maintain the specific STC (Sound Transmission Class) value of the system design.

SilenSeal Acoustical Sealant remains permanently flexible and adheres firmly to wood or metal studs, concrete, gypsum board and most other types of building substrates.

Maintains a tough rubber-like seal against air-borne sound, air infiltration and moisture. Our SilenSeal Acoustical Sealant offers fast, smooth, easy application. Clean up is also quick and easy with just soap and water.

## Recessed Light Covers



Maintaining a sound rated ceiling with can lights, or downlights, continues to be a difficult task.

Using Privacy Recessed Downlight Covers involves simply placing the cover over your recessed fixture and constructing your ceiling as you normally would. It's really that simple. The benefits are two fold, soundproofing and thermal insulation through the ceiling. Our covers are also UL Rated, and will meet the International Building Code for any type ceiling. Both one-hour and two-hour fire rated covers are available.

## Integrity Gaskets



Our Integrity Gasket is more than just joist tape -- its unique properties provide acoustical separation, reduction of impact noise in floors and ceilings, and excellent thermal separation in exterior walls, basement floors and ceilings. It can be applied between wood or metal framing members, sub-flooring, exterior sheathing or gypsum board."

Integrity Gasket can Eliminate squeaky floors, Reduce impact noise on hard floors, Improve STC and thermal protection in roof construction, Eliminate hard connections at intersecting walls, floors, etc.

## Isolation Pads



We carry a selection of isolation pads, vibration mounts and isolation hangers for structure-borne sound problems. These simple-to-use, effective vibration control products are ideal for hard-to-solve problems, like the hum from a garage door opener or the shaking of a washing machine or dryer

Rather than tearing things out to fix the problem, our little isolation kits can be the simple, effective noise solution you are after.

## Silencer Ducts



Many times the ducting for heat and air is overlooked as a potential flanking path, sometimes reducing the effectiveness of our soundproofing design by up to 15%. Our Privacy Duct Silencers are designed to be the best performing insertable option for privacy between rooms. At 60" long and less than 10 lbs, these silencers are a cost effective and easy to install solution that will significantly reduce sound transmission from the fan motor and other airborne noises.

## Pipe Wrap



Acoustical Pipe Wrap is typically used to wrap noisy pipes and ducts to block the noise that transmits through the walls of the pipe or duct as air or other contents move through it. The quilted fiberglass decoupler improves the performance of the noise barrier as well as to provide sound absorption and thermal insulation around the pipe or duct work. The reinforced foil facing on the barrier readily accepts Reinforced Foil Tape for easy installation and also serves as a protective jacket for indoor or outdoor applications.

## Sealtight Putty Pads



The Sealtight Putty Pads primary function is to achieve and maintain the specific STC (Sound Transmission Class) value of the system design. Sealtight Putty Pads are easy to use and simple to install -- no tools are required and they are soft and pliable, even at low temperatures. No drying or curing is required.

## Acoustical Tape



Acoustical Seal tapes high-tack adhesive backing adheres tightly to your soundproofing surfaces. Apply Acoustical Seam Tape over Soundproof Barrier and Floor Underlayment seams to reduce sound leaks between rooms.



# Testimonials

I was invested in improvements to my apartment, that faces the **very busy and noisy Van Ness Ave** in San Francisco. The building is old and the noise was overwhelming.

I accidentally discovered "West Coast Sound Solutions"; that turned out to be a very nice family business, run by very friendly and helpful people. They especially helped me with specific issues, particular to noisy floors in some rooms or noisy walls in another. Their expert help, advice and willingness to help reduce costs as well as maximize efficiency was tremendously helpful to a happy end to my projects. They curtailed, devised and help plan a proper strategy for each problem, providing continual assistance along the way or when required. The sales staff was not pushy nor did they try to sell me material that was not needed.

I would strongly recommend this company to anyone interested in working towards noise reduction or sound absorption. They are honest, hard working & have the customer's needs ever present in mind. Since I started using their help, I have seen this company grow as the demand for their products and services increases. It is clear that the company is well on it's way to becoming a very "hot item", as people become aware of the quality and value they have to offer.

~ Humberto Alvarez

**These guys did a fantastic job and I would highly recommend them to anyone!** ~Jeremy Mann

Tony and the other man did an **EXCELLENT** job. They had a difficult task with the transitions but persisted and put immense effort into getting them right. I appreciate that! They were skillful at fitting them and they were very courteous. Please tell them I am VERY GRATEFUL for their work.

I have slept 1 night in my new room. The high pitched noises are gone. I can hear airplanes faintly. The lower noises are 65-70% gone. I am happy with that. The vibration is 50-60% diminished. I have not yet added the extra small underlayment squares under the bed legs so that may help a little more. I can definitely sleep!!!!!!

~ Marsha Young



“ I have nothing **but** good to say about West Coast Sound Solutions. Their team was friendly and professional. Great job! ”

*Claudia Dougal*

Our project was a strange one, requiring a lot of ingenuity to **fix acoustical problems in an old building**. West Coast Sound Solutions worked at a professional and friendly level above our expectations, handling unforeseen problems as they arose, and making every effort to make sure we were satisfied along the way. They minimized most of the old floors squeaking, glued down new subfloor, filled every possible crack and crevice with acoustical Sealant, laid down acoustical underlayment, and then installed a beautiful hardwood floor. The work only took a few days, faster than predicted, super efficient and working with our time constraints, while also minimizing any construction debris. All in all, these guys did a fantastic job, and I would highly recommend them to anyone.

~ Jeremy Mann



**WEST COAST**  
**SOUND SOLUTIONS**  
Product Catalog



**West Coast Sound Solutions**  
Solutions for Living Life...*Quietly*

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