

# ACOUSTICAL PRODUCTS for home theater applications



Media Specialty Resources, Ltd. supplies a full line of acoustical products for sound reflection control, sound isolation, noise control, and more. Tony Grimani and his staff of experts will help you obtain the right acoustical products for

your application. Contact MSR today to experience the performance and profit advantages of acoustical products.

This Home Theater catalog is divided into four application sections: Acoustical Treatments, Sound Isolation, Noise Control, and Audio Calibration. You will also find more detail on the MSR web site.

Visit [www.msr-inc.com](http://www.msr-inc.com) for deeper information.  
Call **1-800-497-2087** for advice and pricing.



*The products and support you need to realize the full potential of every sound environment*

# ACOUSTICAL TREATMENTS

www.msr-inc.com/treatments

VISIT WWW.MSR-INC.COM FOR PRODUCT DETAILS

Dollar for dollar, there is no surer way to improve the home theater experience than through acoustical treatments. That's because the incremental gains one might achieve with upgraded audio gear are dwarfed by the fundamental gains achieved with proper acoustical treatment. Most acousticians agree that acoustics account for at least 50 percent of the sound quality in a listening space. In a glowing review of the MSR CinePanel system, *Home Theater* magazine came right out and said it: **"Adding acoustic treatment is probably the easiest and most effective thing you can do to improve your sonic environment."** Acoustical treatments are either absorbers or diffusers, and MSR offers several varieties of both types.

## CINEPANEL® KITS

CinePanel kits are economical, easy-to-install acoustic treatment solutions that improve focus, imaging, localization, dialog intelligibility, and surround envelopment – all without complex acoustical calculations or placement adjustments. Based on scientifically designed building blocks of absorbers and diffusers, each kit is calculated to provide optimum absorption and diffusion for a given room size. Ideal for both home theater and pure-audio applications, the kits provide control over the entire range of 30 Hz to 20 kHz. Dozens of fabrics are available to complement any décor, and the new Cinergy™ diffuser features a built-in surround speaker.



*"[The] CinePanel kit is probably one of a select few products that I can recommend without hesitation to anyone who's looking to upgrade their home theater system."* Home Theater, May 2003



### CINEPANEL®

The Absorber core is made of mineral wool clad in a fiberglass lining.



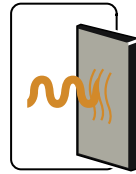
The Diffuser core is made of low-resonance styrene.

- CinePanel Absorbers remove reflections for clearer sound
- CinePanel Diffusers redistribute reflections to enhance spaciousness
- Special Cinergy™ panels combines diffuser with surround speaker
- Each panel measures 2' x 4' and tapers from 3½" to 1" thick
- Absorbers and diffusers hang side-by-side to form a wedge profile

Room Size	200 ft²	300 ft²	400 ft²	500 ft²	600 ft²
Panels in Kit	12	14	16	18	20
Kit Order No.	CP66	CP77	CP88	CP99	CP1010

## ABSORBERS

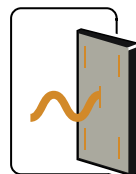
Absorbers remove reflections and echoes for a clearer sound that dramatically enhances the home theater experience. MSR offers a variety of absorbers that handle frequencies down to 30 Hz. All are available in a choice of finishes. Salon Acoustics panels even allow custom printing of artwork directly onto the fabric.



### Wedge Absorber

Size: 2' x 4' with taper from 3½" to 1" thick

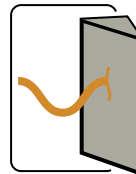
The Wedge absorber's tapering shape provides both superior absorption and improved aesthetic appeal. Unlike traditional fiberglass absorbers, the Wedge absorber is filled with mineral wool clad in a fiberglass sheath, which has a higher absorption rating and operates to a lower frequency (250 Hz) than pure fiberglass.



### CineBass™ Absorber

Size: 2' x 4' with taper from 3½" to 1" thick

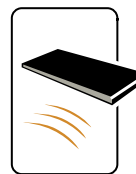
The CineBass provides Helmholtz engineered absorption from 250 Hz down to 100 Hz. Core is made of slotted formed low resonance styrene with mineral wool fill.



### CineTrap™ Absorber

Size: 4' tall; 25" wide face; 18" deep sides

Designed to fit into corners. Ported MDF form with a spring-loaded MDF mass stuffed with mineral wool. Provides a highly efficient trap from 100 Hz down to 30 Hz.



### Cloud Absorber

Size: 2' x 4'; 1" thick

Cloud absorbers treat ceiling reflections, shown to be among the most damaging to imaging and soundstaging. They provide absorption down to 250 Hz. Core is made of mineral wool clad in a fiberglass lining. Built-in loops for easy hanging.

## SōN™ Acoustics

Size: 2' x 4'; choice of 1", 2", 4" thick

SōN absorbers answer the call wherever acoustic control is needed. These flat panels can be ordered in just about any shape, size, thickness, and fabric cover. They are equally at home in a media room, a home theater, a performance hall, or a restaurant!



### Salon Acoustics

Size: Variety of standard and custom sizes

Salon Acoustics dispels the myth that absorption panels cannot be attractive additions to a room. Using a unique fabric printing process, favorite photographs and paintings become the elegant covers for high-quality absorbers that will dramatically enhance your listening experience. Choose

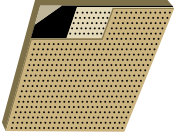
from stock images of artwork, photography and film posters, or supply your own high-resolution file. Salon panels are available in a wide variety of frame styles, and a matte can also be printed into the panel.

## DECORATIVE ABSORPTION SOLUTIONS



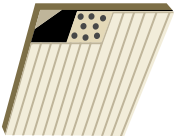
### Porous Plaster

Some projects require a smooth plastered or painted finish that also satisfies the acoustical requirements of the space. Porous plaster is a field-applied system that provides exceptional absorption with a seamless finish. Can be applied to flat, inclined, curved, vaulted or domed surfaces.



### Perforated Wood Paneling

When fabric-covered absorbers do not fit into the décor, these attractive wood panels with unique perforation patterns create an absorptive wall surface, making the walls themselves into the acoustic treatment. Various hole diameters and spacings are offered to obtain absorption over a wide variety of frequencies.

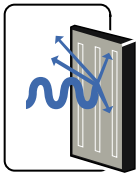


### Slotted Wood Paneling

Like perforated paneling, but uses a series of deep parallel grooves with holes that provide a sound path through the panel. Various groove spacings, hole diameters and air cavity depth are offered to obtain absorption over a wide variety of frequencies.

## DIFFUSERS

**Diffusers break up sound reflections and enhance soundfield spaciousness. MSR offers a wide range of models to meet every demand. All are available in a wide choice of finishes. The innovative Cinergy™ model even contains a built-in surround speaker!**



### Wedge Diffuser

*Size: 2' x 4' with taper from 3½" to 1" thick*  
Slotted-well design disperses reflected sound energy in a 2D plane. Exterior appearance is identical to the Wedge absorber. Provides even dispersion down to 500 Hz. Core is made from a low resonance styrene.



### Cinergy™

#### Cinergy™ Surround Diffuser

Cinergy™ panels are Wedge diffusers with a built-in two-way surround speaker. Ideal for home theaters, this combo provides enhanced spaciousness while completely concealing the surround speakers.



### 2D Diffusers

*Size: 2' x 2'; choice of 2" or 4" deep*  
Redistribute incident sound vectors into a two-dimensional plane. Especially useful on side walls near front speakers to polarize reflected sound energy in the horizontal direction. Deeper models function to lower freqs for enhanced performance.



### 3D Diffusers

*Size: 2' x 2'; choice of 2" or 6" deep*  
Redistribute incident sound vectors into a 3D hemisphere. Especially useful near surround speakers on side and rear walls, to scatter reflected sound energy throughout rear of room. Deeper models function to lower freqs for enhanced performance.

The unique shapes of the 2D and 3D diffusers make them interesting architectural elements when they are left exposed, but they are also easily hidden by stretched fabric for a more classic look.

### RPG – Authorized Dealer

MSR supplies the full line of RPG® products, the industry's broadest range of acoustical diffusers.

Home theaters are sources of very high sound energy. For increased usage flexibility and performance, sound leakage from and to theaters should be kept to a minimum. Soundproofing is typically achieved through a combination of strategies: mass, decoupling, and vibration damping. MSR offers solutions for all three approaches. Mass is achieved through high-density loaded vinyl barriers. Decoupling devices are used to break the sound transmission path by suspending the surfaces from the building structure. Decouplers are available in many form factors. Sound-induced vibrations can be further controlled with specialty damping materials in place of or in addition to conventional construction materials.

## DECOUPLING SYSTEMS



### Wall and Ceiling Bushings

Suspension bushings turn an ordinary wall into an extraordinary sound isolation and bass-absorption device. These rubber suspension units are inserted between the studs and the layers of wall surface to break the sound vibration transfer path. They make the wall resilient so that sound energy is absorbed by the wall system rather than passing through it or reflecting off of it.



### Isolation Hangers

Sound isolation hangers mechanically decouple ceilings, reducing sound transmission and improving sound containment. They are available in rubber or metal spring types, in several depths and load ratings. Isolation hangers can also be used to decouple and isolate plumbing and ductwork.



### Floating Floor Systems

Built on rubber mats or a tight network of rubber pads to improve sound isolation and control standing waves. They effectively break the sound vibration transfer path.

## DAMPING MATERIALS

### Mass-Loaded Vinyl Barrier

A thin, heavy, pliable sheet placed between wall layers to reduce vibration and resonance within the wall. Also used to seal small openings through which sound may leak.

### Damped Wallboard

Multilayered engineered wallboard with vibration damping viscoelastic polymer core. Reduces sound transmission between adjacent rooms. Straightforward way to increase isolation capacity of sheetrock walls.

### Damped Plywood

A multi-layer engineered wood panel with vibration damping viscoelastic polymer core. Reduces sound transmission from exterior or adjacent rooms. Can be used in place of standard plywood and also installed over an existing floor. Straightforward way to increase isolation capacity of walls or floor/ceiling systems.

### Viscoelastic Damping Compound

High-damping viscoelastic formulation for use as a glue layer where one or both materials are porous. May be applied during or after construction. Ideal for creating laminated curved surfaces that need to be soundproofed. May be used as an extra layer of isolation in conjunction with damped wallboard and damped plywood.

## MISCELLANEOUS

### Sound Doors

Doors constructed specially for sound isolation are the important finishing touch of any listening environment. MSR carries several types of doors to meet your size and soundproofing needs.

### Acoustical Sealant

Acoustically rated walls need proper sealants to prevent leakage through their perimeter, perforations and cutouts. Acoustical sealant stays pliable and will not crack or degrade with time.



# NOISE CONTROL

[www.msr-inc.com/noise](http://www.msr-inc.com/noise)

Projectors and HVAC systems are the main culprits for unwanted sound in a theater environment. MSR offers a variety of solutions.



### MSR SilentLight™ Projector Enclosures

Fan noise from a projector is distracting during quiet passages and masks low-level detail during louder ones. A projector enclosure keeps the noise inside, but dissipates heat, so even the most sensitive projector will be safe for hours on end. MSR's SilentLight enclosures serve the dual purpose of silencing and hanging the projector, and are available in several models to fit most popular projectors.



### Duct Silencers

Silencers, suspension systems, and plenums are all used to reduce noise from HVAC equipment. Silencers and plenums use absorptive material and redirection of air to reduce the noise inherent in moving air. Suspension systems are used to decouple compressors, air handlers, and even ducts from structural surfaces that would transmit vibration noise.



### Mechanical Isolation Mounts and Pads

Reduce vibration and structure-borne noise from HVAC fans and compressors, motors, pumps, and other devices. Isolator mounts are available in rubber or metal spring types, in several sizes and load ratings.

# AUDIO CALIBRATION

[www.msr-inc.com/calibration](http://www.msr-inc.com/calibration)

Audio systems must be calibrated and tuned in order to reach their maximum potential. This calibration process requires the help of special tools. MSR Kits are comprised of audio calibration equipment and test material carefully selected from a variety of sources to provide the most complete pre-packaged kits available.



### MSR Calibration Kits

*Basic Kit 1* – includes the essentials any audio calibrator needs to get started, including a Real Time Analyzer, a test signal generator and a copy of the critically-acclaimed 5.1 Audio Toolkit DVD.

*Intermediate Kit 2* – adds tools for more advanced calibrations, including a multi-meter, polarity tester, impedance meter and more.

*Advanced Kit 3* – the most comprehensive array of tools available can be used for complex and sophisticated calibration work. In addition to the components of Kits 1 and 2, Kit 3 contains a digital oscilloscope, a multiplexer for the Real Time Analyzer and much, much more.



### Audio Toolkit DVD

The 5.1 Audio Toolkit contains over 80 test signals, laid out in logical progression, for quick calibration and debugging of 5.1, 6.1, and 7.1-channel systems with Surround EX.

**Gold Line Audio Calibration Equipment – Authorized Distributor**  
MSR distributes the full range of Gold Line audio calibration tools, including sound level meters, Real Time Analyzers, TEF time-based measurement systems, measurement microphones, polarity detectors and digital EQs.

# MISCELLANEOUS

[www.msr-inc.com/misc](http://www.msr-inc.com/misc)

### MSR Projector Port Glass

A special, low-refractance glass for use in hush boxes or for projection room port windows. Fan noise is trapped in the box or projection room, but the picture comes through clean, clear, and undistorted.

### Screen Research Acoustically Transparent Projection Screens – Authorized Dealer

The Screen Research ClearPix2™ is the first acoustically transparent screen that allows use of pixel-based projectors without causing moiré patterns. Speakers can now be placed in the ideal location – behind the screen – for perfect fusion of image and sound. ClearPix2 is certified by both THX and ISF, so you know that you can trust it. Screen Research screens are available in several fixed and motorized models.

For the ultimate in performance, Screen Research offers the XMask™ motorized masking screen. Integrated into a frame of unequalled compactness and elegance, the XMask's motorized masks frame the image with the black border it deserves for the proper aspect ratio and significantly improve contrast and perceived image quality. Built with the acoustically transparent ClearPix2™ screen material, it looks as good as it sounds.

### Ashly Equalizers – Authorized Dealer

Ashly makes ultra-flexible, high-quality all-digital EQs. The Protea series is ideal for fine-tuning speakers to the acoustics of the listening environment.

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CALL 1-800-497-2087 FOR EXPERT ADVICE

### Destiny Networks – Authorized Dealer

The Domain 3000 is an affordable, open-architecture controller that rivals the capabilities of high-end systems – without the programming nightmares. It uses simple menus to select and configure all connected AV components. The software does the rest. The user gets both a simple-to-use handheld remote and an elegant GUI available on any networked PC. The Domain 3000 has 25 ports to handle everything that needs to be controlled in the theater room.

### Fabric

MSR supplies a wide variety of acoustically transparent fabrics that can be used to cover speakers or acoustical panels without affecting a room's acoustical performance.

### Fabric Track Systems

MSR offers a wide array of fabric mounting tracks. Create a sophisticated upholstered room with these self-tensioning track systems. Choose from several edge types, depths, and lengths.

### Other

MSR can help with virtually any aspect of your project, including speakers, electronics, seating and sound-proof doors and windows.



### Consulting Services

MSR has partnered with world-renowned Acoustical Design and Engineering firm Performance Media Industries (PMI) and can facilitate the design and engineering of any acoustical project. Call MSR for details.