

# YOUR ACOUSTIC TREATMENT

This worksheet is a simple way for beginners to diagnose acoustic problems and choose the proper acoustic treatment. Don't worry - you'll find no confusing lingo here! Simply work through the steps to gather basic information you'll need to know in order to choose and make the most of an acoustic treatment.

## 1. PLAN AHEAD — You should know...

Room Dimensions Length= \_\_\_\_\_ Width= \_\_\_\_\_ Fire Suppression \_\_\_\_\_  
 Ceiling Height \_\_\_\_\_ New Build or Retrofit \_\_\_\_\_  
 Type of Lighting \_\_\_\_\_ Current Sound Treatments \_\_\_\_\_  
 Ventilation/Ductwork \_\_\_\_\_

## 2. DIAGNOSE — What are your main sound issues?

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> Echo          | <input type="checkbox"/> Sound Quality          | <input type="checkbox"/> Sound Transfer  | <input type="checkbox"/> Impact Noise    |
| <input type="checkbox"/> Loudness      | <input type="checkbox"/> Hearing Protection     | <input type="checkbox"/> Low Frequencies | <input type="checkbox"/> Vibration Noise |
| <input type="checkbox"/> Reverberation | <input type="checkbox"/> Speech Intelligibility |  |  |

If you checked these problems, you need a **sound absorption** product.

If you checked these problems, you need a **sound isolation** product.

## 3. OPTIMIZE YOUR — ABSORPTION TREATMENT

### A) WHAT LEVEL OF ABSORPTION DO YOU NEED?

- Light Absorption** — (5% - 25% coverage)  
For live recording or listening rooms, offices, conference rooms and rooms where people gather and converse.
- Moderate Absorption** — (25% - 50% coverage)  
Suits listening and control rooms that typically feature more subdued music, as well as larger business spaces. Moderate absorption of around 50 percent is a good estimate for many home theaters.
- Heavy Absorption** — (50% - 100% coverage)  
Suits drum rooms, music practice space, rooms that handle high-energy music. Vocal booths and recording isolation booths require the most absorption.

## OPTIMIZE YOUR — ISOLATION TREATMENT

### A) TIPS FOR ISOLATION

- Look for areas that sound may be escaping your space. Vents, ductwork, and loose-fitting doors are common culprits.
- Use thicker, less compressed material to reduce impact or vibrational noise. Thinner, denser material works best for sound isolation.
- "Seal" your room: make an effort to cover every surface with your chosen sound isolation material to prevent sound from escaping or entering. (Anti-vibrational material, on the other hand, need to be applied only in problem areas.)

## B) CALCULATE HOW MUCH PRODUCT YOU NEED:

	Length	x	Height	=	Sqft
Wall 1	_____	x	_____	=	_____
Wall 2	_____	x	_____	=	_____
Wall 3	_____	x	_____	=	_____
Wall 4	_____	x	_____	=	_____
			<b>TOTAL</b>	=	_____
	_____ x _____ %				
	<i>(Wall Sqft Total)</i>				<i>(Type of Space)</i>
=	_____				
	<i>(Total Sqft of Product Needed)</i>				



## 4. CHOOSE AN ABSORPTION PRODUCT

<b>ACOUSTIC PANELS</b>	Effective & Decorative	\$\$\$
<b>ECO-C-TEX™ PANELS</b>	Inexpensive & Versatile	\$\$
<b>ABSORPTION SHEETS</b>	Cheap & Portable	\$

### **CUSTOM ABSORPTION PRODUCTS:**

At Audimute we're able to **make your product exclusively your own**. There are virtually no limits to what can be done in your space with our products. We have the ability to custom cut, shape, print images, color coat and more. If you can imagine it, then we can create it!



## 5. INSTALLING ABSORPTION

**Absorption materials** are installed on wall surfaces. They always need to be exposed to the source of the sound problem in order to work. In most applications, they work best positioned evenly around the space you are treating, with exposed wall between. Place them at a height where sound is likely to hit the wall.

## 6. NEED SOME HELP?

Don't be afraid to call on an expert. At Audimute, we believe in making acoustic treatment as simple as possible. We will talk you through your options, and we won't let you buy something that won't work. Call us at (866) 505-6883, and ask for one of our acoustic specialists.

## B) WHAT TYPE OF ISOLATION DO YOU NEED?

### Use Anti-Vibration

#### Materials For:

- impact noise
- vibration from machinery or other electronics
- structural noise
- footfall
- noise transfer from ceiling

### Use Sound Isolation

#### Materials For:

- noise transfer from walls into your space
- sound escaping your space into neighboring spaces
- privacy concerns



## CHOOSE AN ISOLATION PRODUCT

<b>PEACEMAKER</b>	<b>6.4MM</b>	Anti-Vibration	\$\$\$
	<b>3.2MM</b>	Heavy Isolation	\$\$
	<b>2.0MM</b>	Moderate Isolation	\$



## INSTALLING ISOLATION

**Isolation materials** need to be installed between wall layers. If your room is a new construction, isolation material can be attached directly to the wall or floor studs. If your room is already finished, you may add isolation material to the existing wall and then install an additional layer of drywall over it. The more mass, the better!