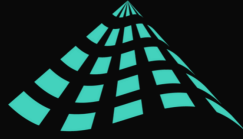


SoundAssured



# ACOUSTIC FOAM

## PRODUCT GUIDE



## Noise Reduction Ratings

Our standard size acoustic foam panels are lab tested for sound reduction. Below are the absorption coefficients and NRC ratings. Our acoustic foam panels are designed to eliminate echoes and reduce reverberation.



| Range   | 1" Wedge | 2" Wedge | 3" Wedge | 4" Wedge | Bass Traps |
|---------|----------|----------|----------|----------|------------|
| 125 Hz  | 0.14     | 0.2      | 0.25     | 0.39     | 1.18       |
| 250 Hz  | 0.17     | 0.29     | 0.47     | 0.61     | 1.27       |
| 500 Hz  | 0.36     | 0.66     | 0.83     | 0.91     | 1.26       |
| 1000 Hz | 0.47     | 0.8      | 0.82     | 0.79     | 1.19       |
| 2000 Hz | 0.51     | 0.89     | 0.92     | 0.95     | 1.16       |
| 4000 Hz | 0.61     | 1.02     | 1.04     | 1.03     | 1.16       |
| Overall | 0.4      | 0.65     | 0.75     | 0.8      | 1.2        |

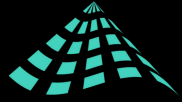


| Range   | 1" Pyramid | 2" Pyramid | 3" Pyramid | 4" Pyramid | Bass Traps |
|---------|------------|------------|------------|------------|------------|
| 125 Hz  | 0.14       | 0.19       | 0.24       | 0.28       | 1.18       |
| 250 Hz  | 0.13       | 0.22       | 0.29       | 0.39       | 1.27       |
| 500 Hz  | 0.31       | 0.45       | 0.55       | 0.74       | 1.26       |
| 1000 Hz | 0.43       | 0.55       | 0.56       | 0.69       | 1.19       |
| 2000 Hz | 0.46       | 0.6        | 0.61       | 0.75       | 1.16       |
| 4000 Hz | 0.54       | 0.76       | 0.85       | 0.96       | 1.16       |
| Overall | 0.35       | 0.45       | 0.5        | 0.65       | 1.2        |

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## Colors

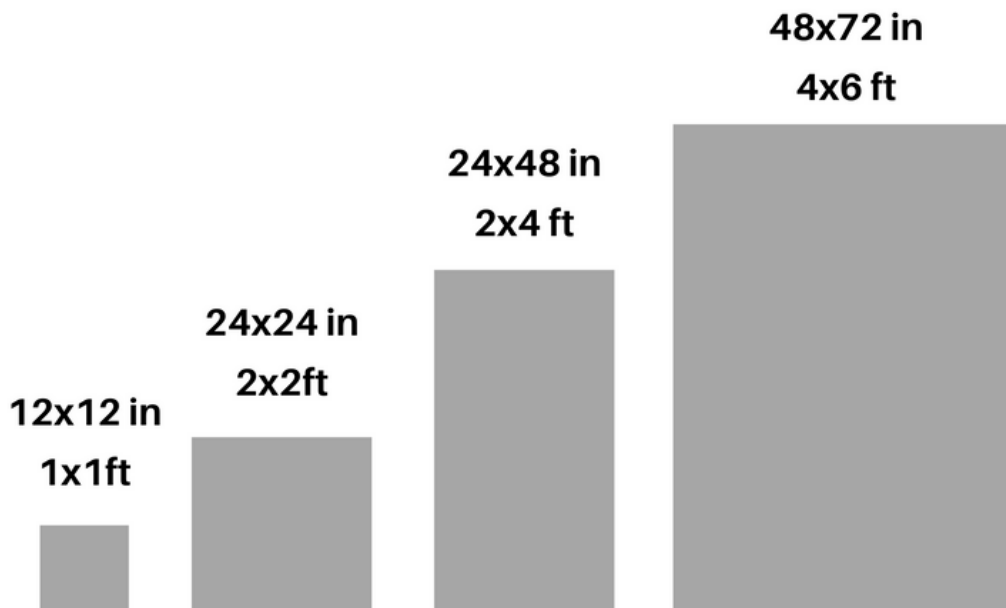
- Blue
- Brown
- Burgundy
- Charcoal
- Forest Green
- Kelly Green
- Orange
- Plum
- Purple
- Red
- Rosy Beige
- Teal
- Yellow



### Acoustic Foam Color Chart

|                   |                 |                     |               |
|-------------------|-----------------|---------------------|---------------|
| <b>Charcoal</b>   |                 |                     |               |
| <b>Yellow</b>     | <b>Burgundy</b> | <b>Teal</b>         | <b>Purple</b> |
| <b>Rosy Beige</b> | <b>Plum</b>     | <b>Kelly Green</b>  | <b>Orange</b> |
| <b>Brown</b>      | <b>Red</b>      | <b>Forest Green</b> | <b>Blue</b>   |

## Panel Sizes



*Custom sizes and shapes are possible. Reach out to us for a quote.*



## Other Standard Foam Shapes



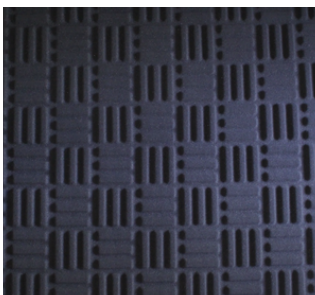
Bass Traps



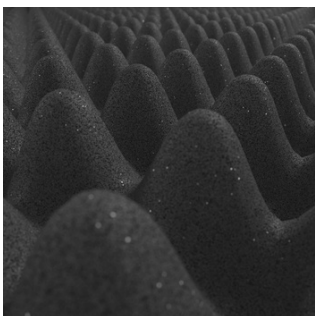
6" Wedges



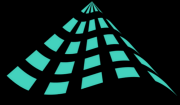
6" Triangles



Grid Foam Sheets



Egg Crate Foam Sheets



## Installation

[Click Here](#) to view the Youtube install video!

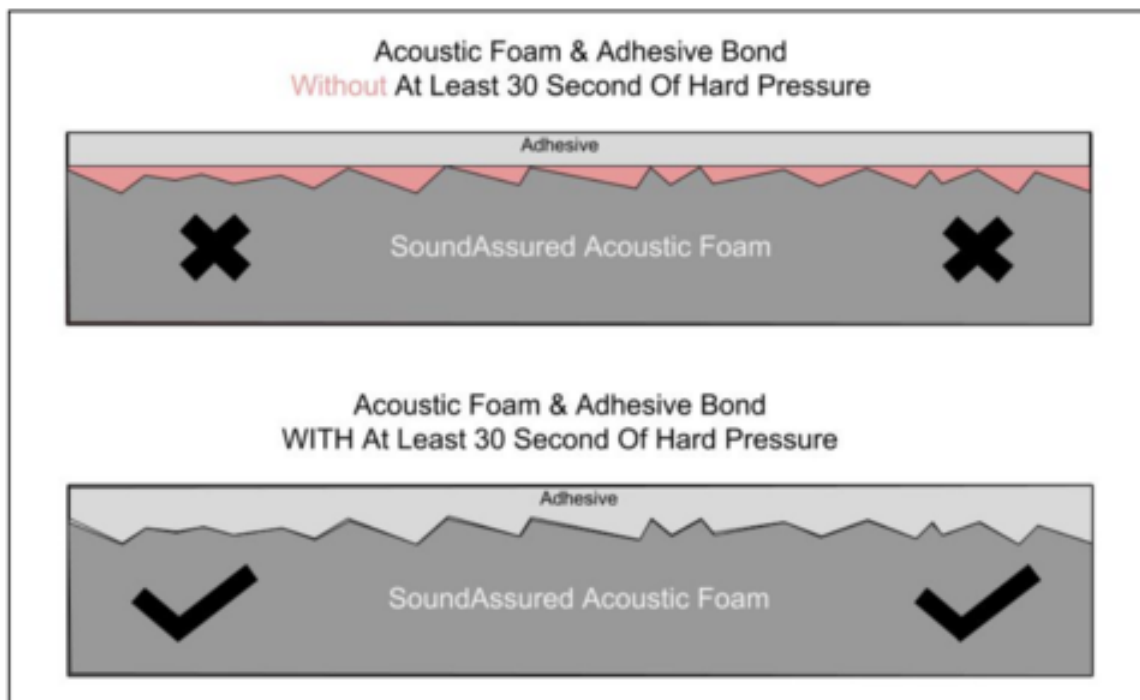
### Recommended Adhesives:

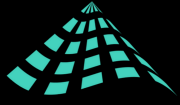
Drywall and smooth surfaces:

- Spray adhesive - see separate page below for spray adhesive instructions
  - Ex: [3M General Purpose 45](#) or [Loctite General Purpose](#) spray adhesive
- Push pins - longer [T shaped pins](#) work great
- [3M command strips](#)
  - Apply at least 30 seconds of very hard pressure to form bond between foam and adhesive
- Strong double sided tape
  - Ex: [SoundAssured Adhesive Squares](#) or [Gorilla Mounting Tape](#)
  - See separate page below for adhesive square instructions
  - Apply at least 30 seconds of very hard pressure to form bond between foam and adhesive

For concrete and textured surfaces:

- Construction adhesive
  - Ex: [Liquid nails](#)
- Make sure to brush off loose particles before installation.

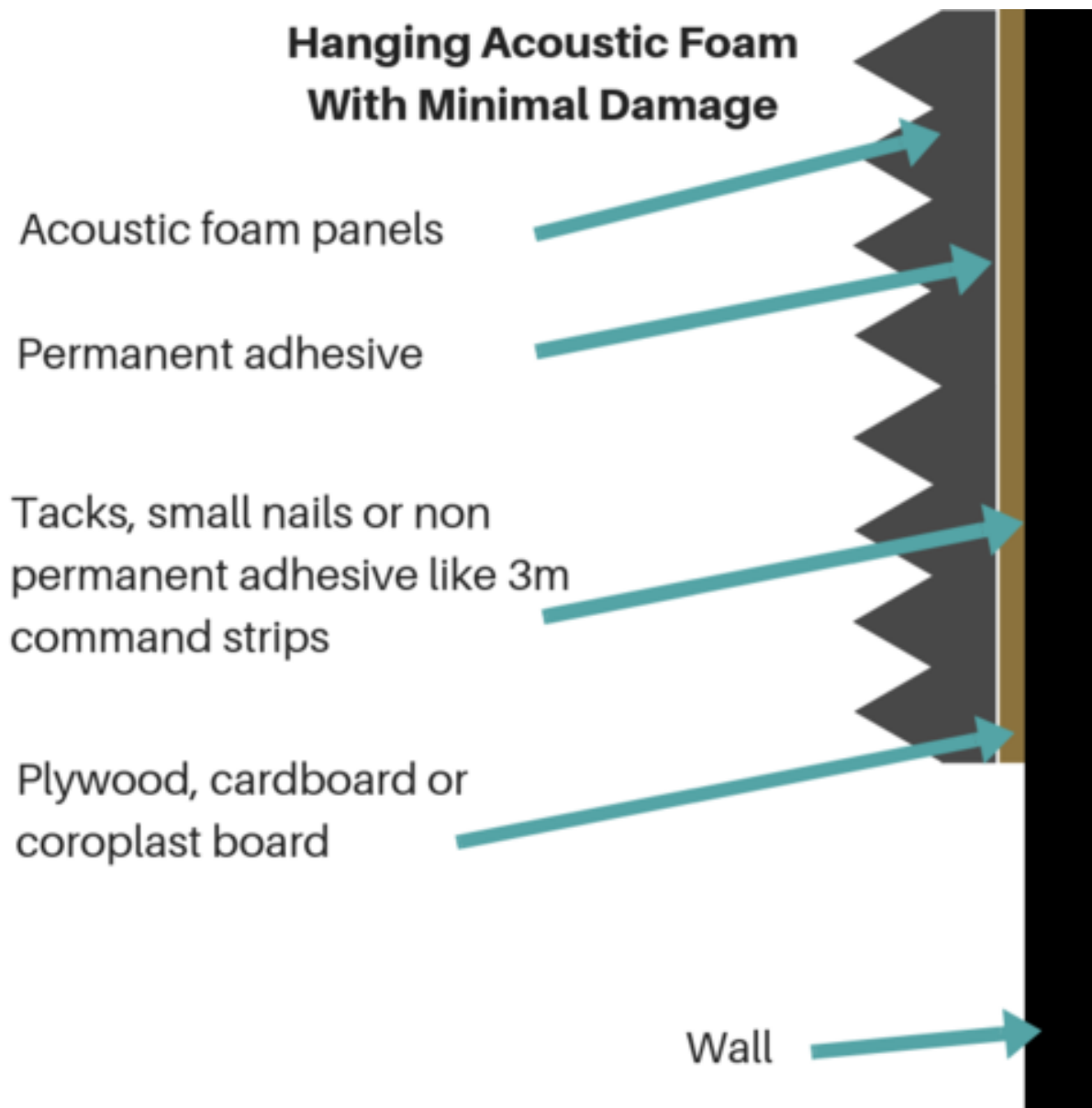


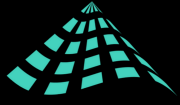


## Installing Acoustic Foam With Minimal Damage

If you are renting and do not want to leave the walls with residue from adhesive or holes from push pins then your best bet would be the 3M command strips for hanging pictures. These can be peeled off without leaving residue behind on the wall.

Another cool technique is to mount the acoustic foam to a piece of plywood, thick cardboard, coroplast or white boards with adhesive. Then, rest or hang the assembled panel on the wall. This not only saves your walls but it also gives you the freedom to move the panels around for sound testing or take them with you when you move.





## ***Installing Acoustic Foam With Spray Adhesive***

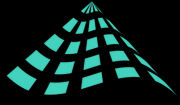
NOTE: Do not install foam with spray adhesive on textured surfaces or wallpaper. If you want to mount acoustic foam in a room with these features we recommend mounting the acoustic foam to a plywood board or thick cardboard using adhesive. Then, you can mount the assembled panels where desired.

1. Mark the foam panel position on your wall with pencil or masking tape.
2. Clean the wall surface with isopropyl or denatured alcohol. Wipe the area with a clean rag or paper towel and let dry. Avoid common cleaners because their ingredients may reduce the strength of your bond.
3. Assemble a spraying area with cloths, newspaper, or painters plastic to protect your room
4. When installing keep the room temperature around 70° F (21° C) for best adhesive performance
5. Generously apply adhesive to the back of the acoustic foam. Also, apply some adhesive to the mounting area.
6. Give 10 to 15 seconds for the adhesive to become sticky
7. Delicately place acoustic foam against the adhesive coated mounting spot. Then, apply hard pressure for at least 30 seconds.
8. Make sure the room temperature stays around 70° F (21° C) for a couple days following mounting for curing



## ***Installing Acoustic Foam With Adhesive Squares***

1. Mark the foam panel position on your wall with pencil or masking tape.
2. Clean the wall surface with isopropyl or denatured alcohol. Wipe the area with a clean rag or paper towel and let dry. Avoid common cleaners because their ingredients may reduce the strength of your bond.
3. Remove one of the paper liners from the adhesive square.
4. Apply the squares on the rear of the panel near the outside edges at each of four corners.
5. Apply very hard pressure for at least 30 seconds to make sure the adhesive squares form a strong bond with the acoustic foam.
6. Take off the second paper liner from the back side of the adhesive square. Mount the panel in desired location and press firmly for at least 30 seconds.



## ***General Maintenance***

- Do not let the foam get wet. If the foam gets water inside the pores then mold and mildew may form.
- Keep out of direct sunlight for maximum lifespan.
- Remove light dust from acoustic foam regularly. Depending on your room conditions you can expect to remove dust 1-3 times per year.
  - Use a vacuum and gently glide over the foam to remove any dust
  - Make sure to use an upholstery attachment to avoid damage to the foam
  - A damp rag can be used to wipe the panels and remove dust
    - Do not use a wet rag! Make sure the rag is damp not wet.

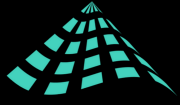
## ***Cleaning Acoustic Foam If Stained***

- To remove stains use isopropyl alcohol.
  - First, get a cloth and put some isopropyl alcohol on it and then rub your acoustic foam.
  - Then, dampen another portion of the cloth with warm water and rub over the same area to remove the smell of alcohol.
  - Finally, dry the foam with a hair dryer.
- Do not clean the foam with household or commercial cleaners! Many of these cleaners contain ingredients that will damage the foam.

## ***Cutting Acoustic Foam***

- For best results use an electric kitchen knife like the one you use to carve a turkey.
- You can also use box cutters or scissors for a less clean cut.





## Fire Ratings

### IMPORTANT:

ASTM E84 ratings are often sufficient for meeting fire safety standards. However, due to differences between local regulations, it is imperative that you always verify acceptable use of materials with local code enforcement authorities (e.g: Fire Department) in your area before purchasing any products. SoundAssured is not responsible for the purchase of any materials found to be incompatible with local codes and regulations.

Third-party test results can be found further down this document.

| Test Specimen                           | Flame Spread Index | Smoke Developed Index |
|---|--------------------|-----------------------|
| Fiber-Reinforced Cement Board, Grade II | 0                  | 0                     |
| Red Oak Flooring                        | 100                | 100                   |
| <b>Acoustic Foam – 2" Wedge</b>         | <b>25</b>          | <b>250</b>            |

### OBSERVATIONS

Specimen ignition over the burners occurred at 0.05 minute. Surface flame spread was observed to a maximum distance of 4.74 feet beyond the zero point at 0.40 minute. The maximum temperature recorded during the test was 521°F.

### CLASSIFICATION

The Flame Spread Index and Smoke Developed Index values obtained by ASTM E 84 tests are frequently used by code officials and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is described in the National Fire Protection Association publication NFPA 101 *Life Safety Code*, where:

|         |                             |                               |
|---------|-----------------------------|-------------------------------|
| Class A | 0 – 25 Flame Spread Index   | 0 – 450 Smoke Developed Index |
| Class B | 26 – 75 Flame Spread Index  | 0 – 450 Smoke Developed Index |
| Class C | 76 – 200 Flame Spread Index | 0 – 450 Smoke Developed Index |

Class A, B, and C correspond to Type I, II, and III respectively in other codes. They do not preclude a material being otherwise classified by the authority of jurisdiction.



## Fire Ratings

### ASTM E 84 TEST DATA

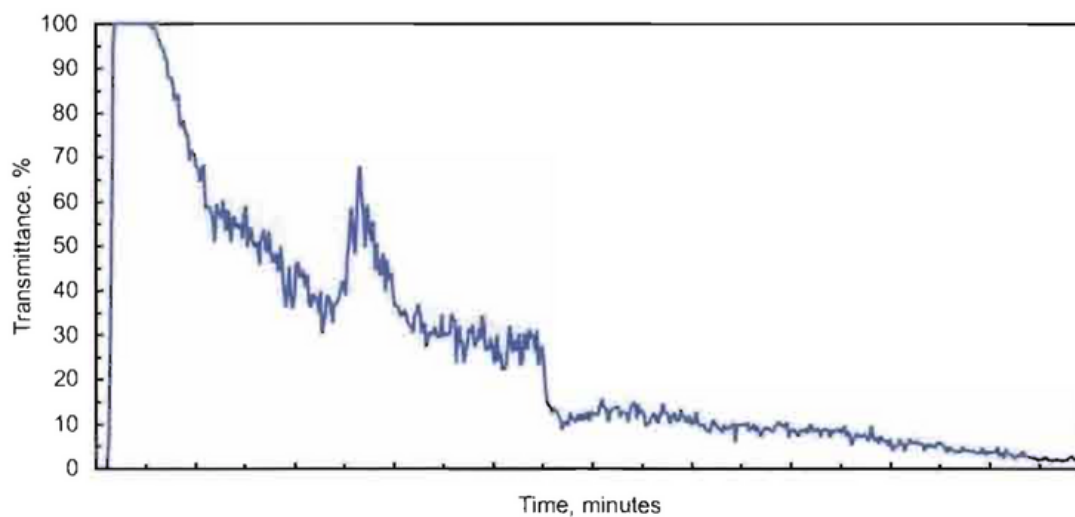
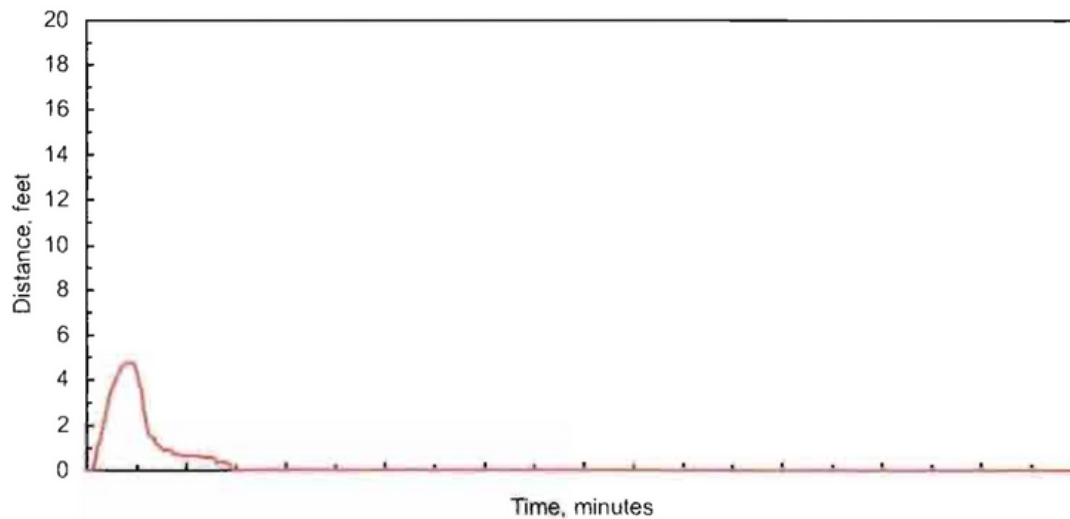
Test Number: 4133-9361

Material Tested: Acoustic Foam - 2" Wedge

Date: March 8, 2010

#### Test Results:

Time to Ignition = 00.05 minutes  
Maximum Flamespread Distance = 04.74 feet  
Time to Maximum Spread = 00.40 minutes  
  
Flame Spread Index = 25  
Smoke Developed Index = 250





## Foam Properties

SoundAssured Acoustic foam is an open cell polyurethane foam that is specially formulated to ensure high acoustical performance. Acoustic foam is used for sound absorption, echo reduction, sound filtering and sound deadening. 13 colors are available. Average lifespan is 5 to 10 years.

| Property                          | Test Method            | Values                               |
|-----------------------------------|------------------------|--------------------------------------|
| Density (LB/Cubic Ft.)            | ASTM D 3574            | 1.3                                  |
| Fire Retardant Classification     | CA TB #117<br>ASTM E84 | Pass<br>Class A (Self Extinguishing) |
| Contains Fire Retardant Additives | ---                    | Yes<br>Contains NO PBDEs             |
| 25% ILD (LB)                      | ASTM D 3574            | 45                                   |
| Support Factor (65%/25% Min.)     | ASTM D 3574            | 2                                    |
| Tensile (PSI) Min.                | ASTM D 3574            | 15                                   |
| Elongation (%) Min.               | ASTM D 3574            | 200                                  |
| Tear (PPI) Min.                   | ASTM D 3574            | 1.4                                  |
| Resiliency (%) Min.               | ASTM D 3574            | 35                                   |

*All values reported are typical values. Acoustic foam tolerance is +/- 5%. We cannot guarantee the applicability or the accuracy of this information or the suitability of the product for any particular purpose. This product is sold without warranty, expressed or implied. (Unless stated otherwise.) Buyer assumes all responsibility for loss or damage arising from the handling and use of this product, whether done in accordance with directions or not. Statements concerning the possible use of this product are not intended as recommendation to use this product in the infringement of any patent.*

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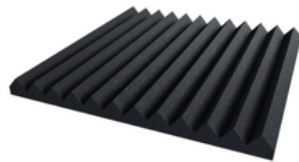
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## Panel Sizes - Wedge

1" Thick



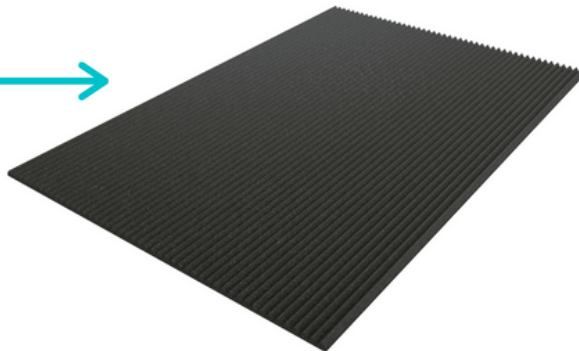
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24"x24" →



← 24"x48"

48"x72" →



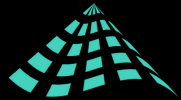
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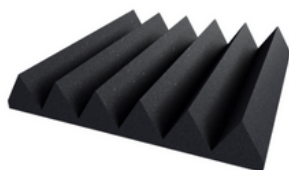
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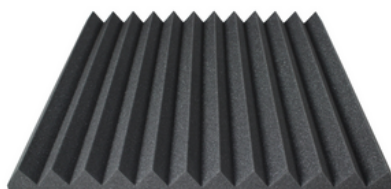
## Panel Sizes - Wedge

2" Thick

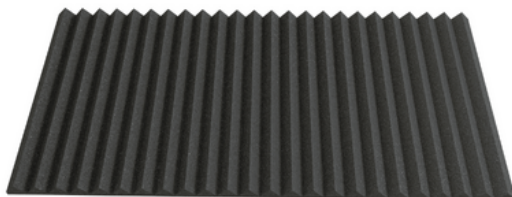


12"x12"

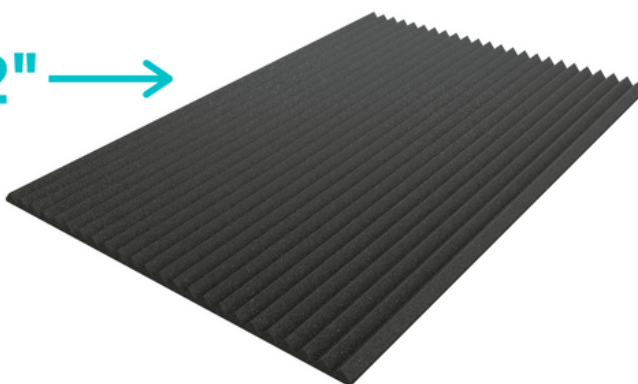
24"x24" →



← 24"x48"



48"x72" →



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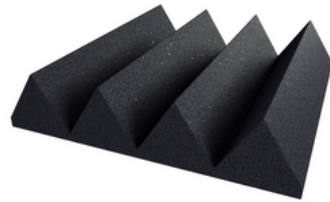
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## Panel Sizes - Wedge

**3" Thick**



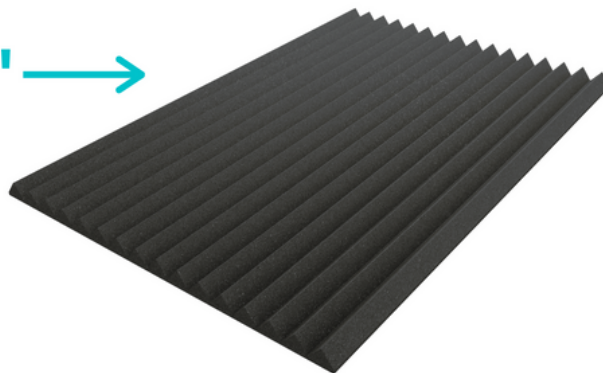
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**24"x24"** →



← **24"x48"**

**48"x72"** →



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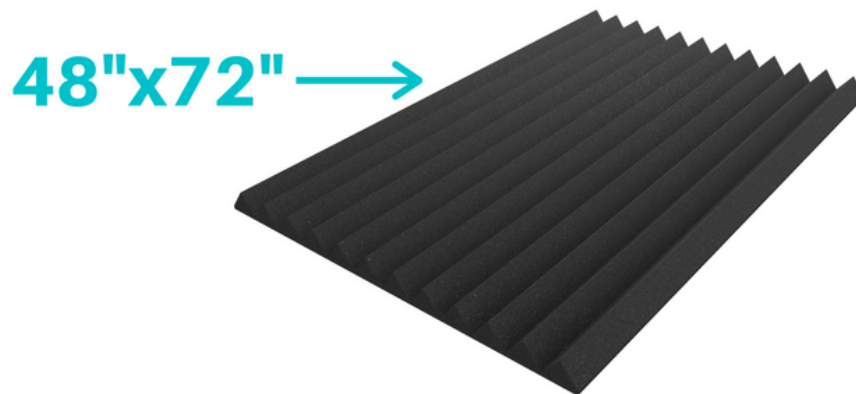
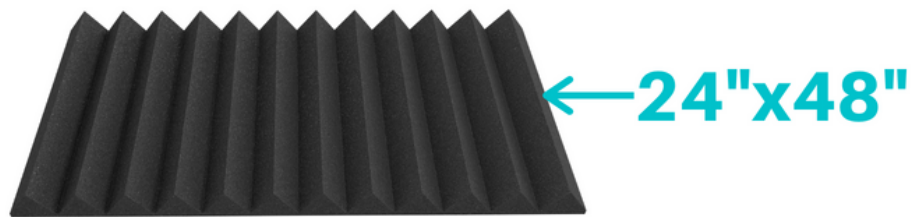
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## Panel Sizes - Wedge

4" Thick



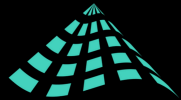
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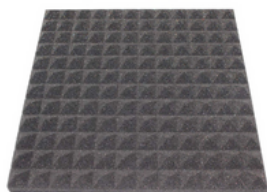
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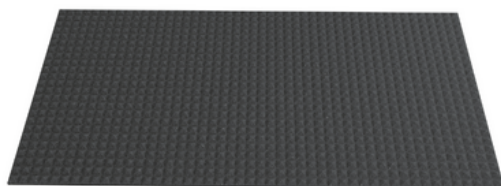
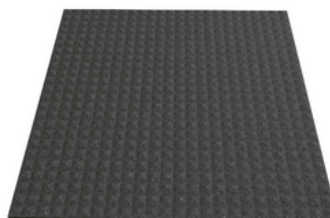
## Panel Sizes - Pyramid

1" Thick



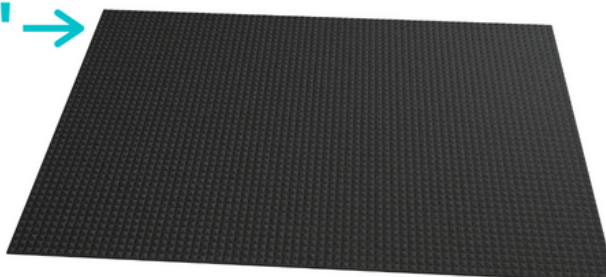
12"x12"

24"x24" →



← 24"x48"

48"x72" →



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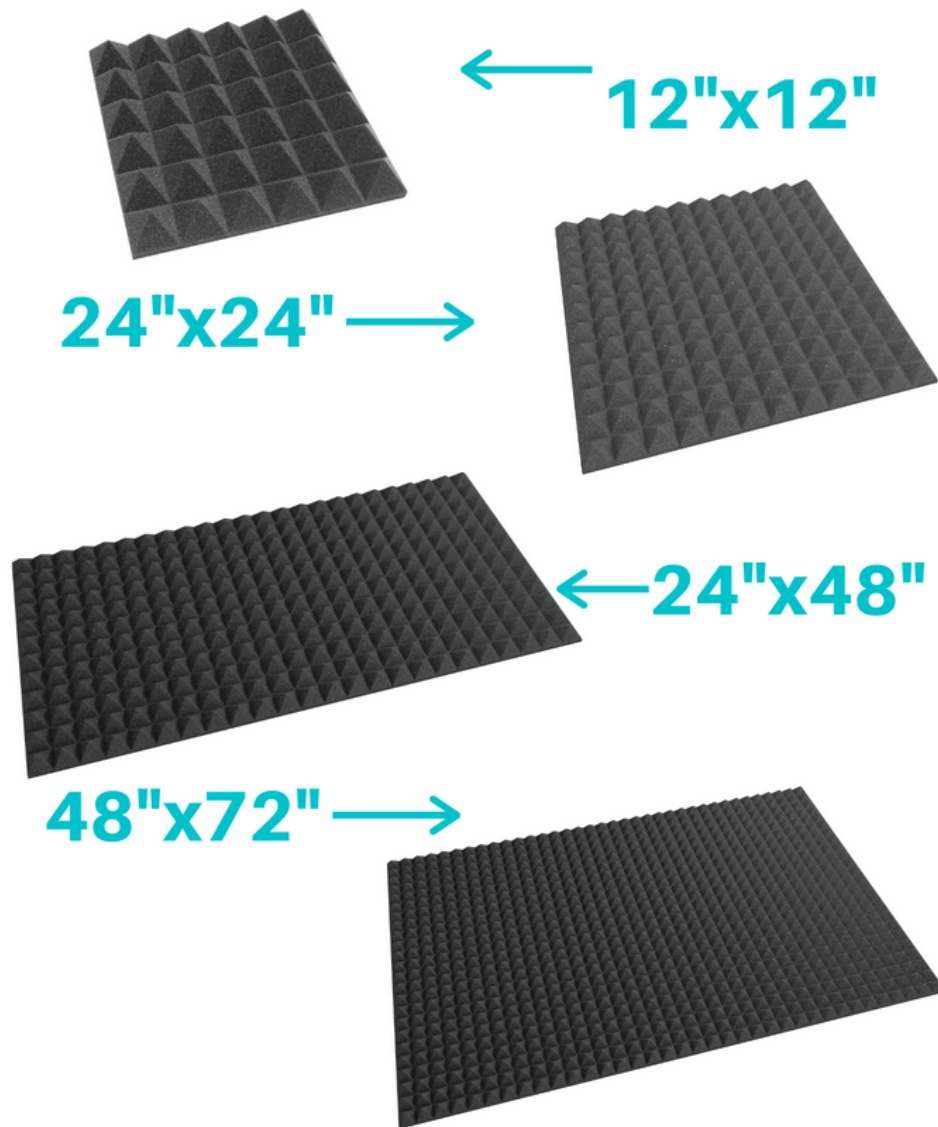






## Panel Sizes - Pyramid

**2" Thick**



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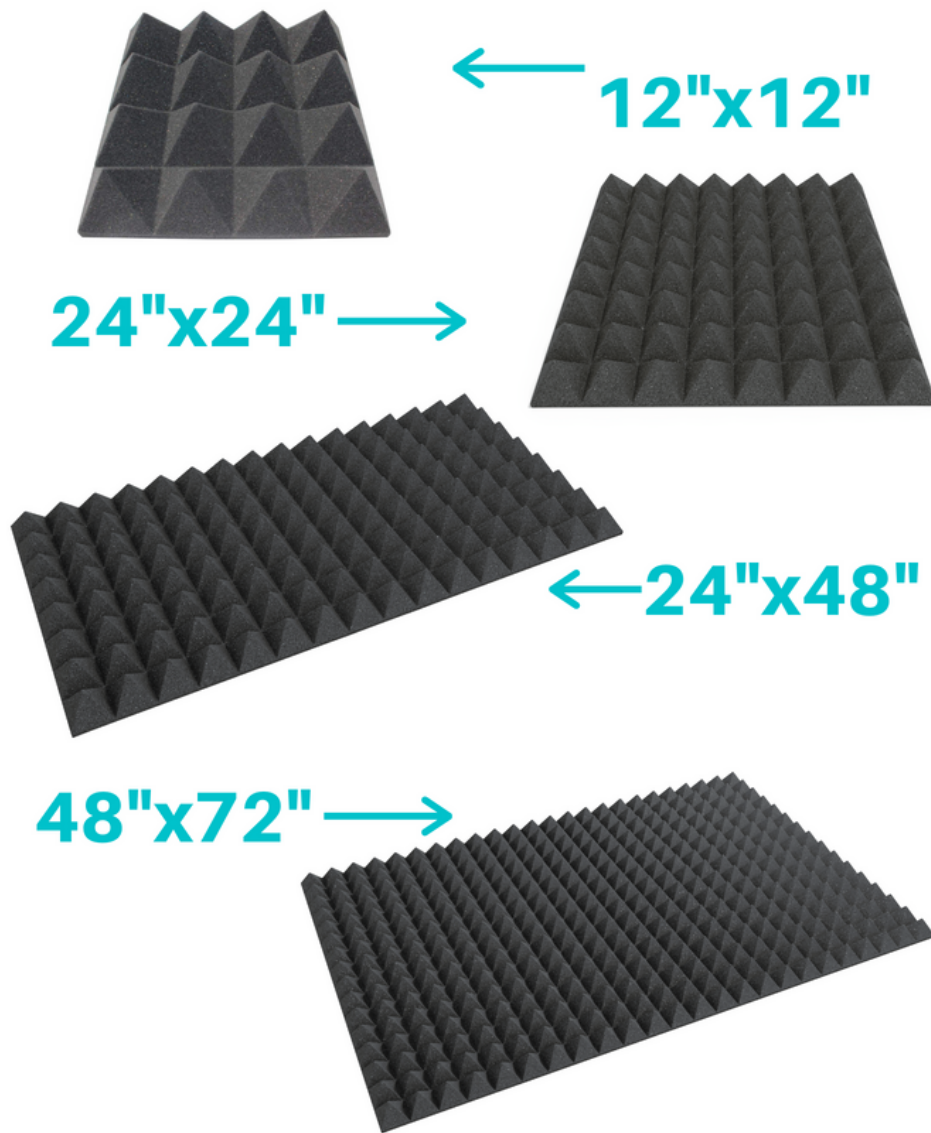
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## Panel Sizes - Pyramid

3" Thick



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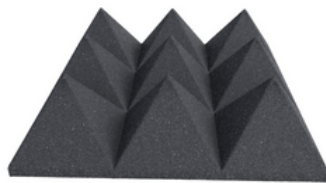
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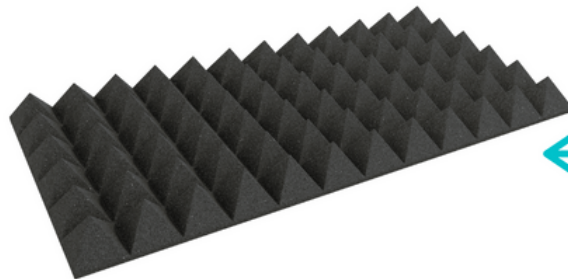
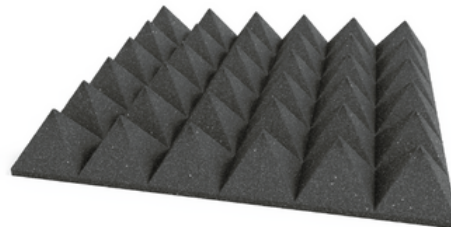
## Panel Sizes - Pyramid

4" Thick



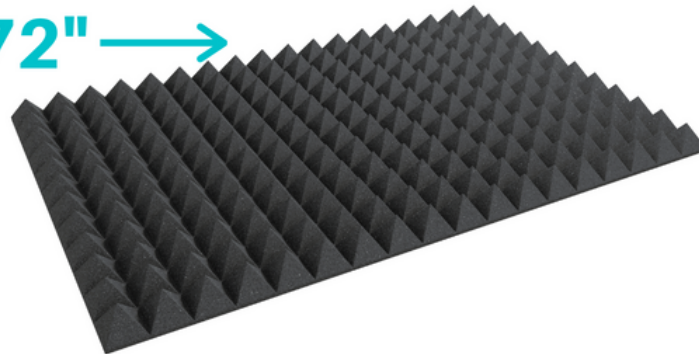
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24"x24" →



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48"x72" →



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