

# Acoustic Foams

In large interior spaces, such as gyms, cafeterias, function halls, airport terminals, and even churches, noise from conversations, speakers, music, and applause, has a two-fold problem. First, there is the accumulation of the noise itself: we want to hear the person who is speaking to us, but we don't want to hear the chaotic buzz of every other conversation. The second factor in evaluating the total noise in an interior space is reverberation. All of the sounds created in an interior space, reverberate off of the walls and other non-absorbent surfaces. The overall buildup of conversation, music, activities, and reverberation can cause decibels to soar to very loud, even painful, ranges.

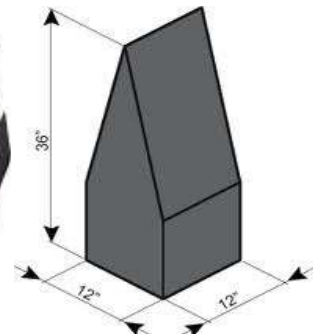
To treat your walls and hard surfaces, you need to add **Acoustic Foams** to three non-parallel surfaces. For example, this can be achieved by resurfacing the ceiling and two walls. This would trap the noise as it ricochets from surface to surface and back to your occupants.

## Acoustic Wedge Foams

Three goals were established for the Cutting WEDGE: performance, appearance, and fire rating. The Cutting Wedge pattern was carefully designed to maximize the acoustical properties of a superior grade Ester foam material. The pattern is cut by a computer controlled dustless saw to maintain perfect tolerance.

The finished products has been tested for performance and flame spread. This ensures that Cutting Wedge has the best performance response, fire rating, and finish of any acoustic foam you can buy.

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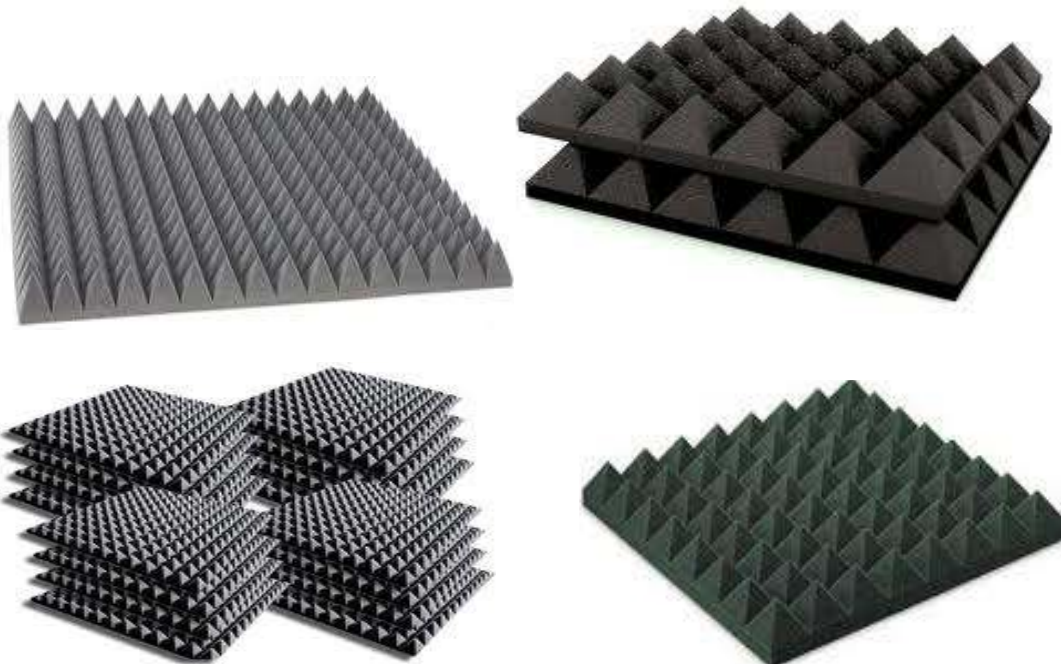


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## Acoustic Pyramid Foams

As with 4" Acoustic Wedges, **4" Acoustic Pyramids** are recommended for larger spaces, rooms with pronounced low frequency problems or where sonic accuracy is mandatory and stronger acoustic absorption is required.

Having 4 sides exposed on each pyramid also yields more sound wave diffusion, which is desirable in some spaces. Thus, 4" Acoustic Pyramids will yield less overall dryness than 4" Acoustic Wedges.



## Properties

- Product: P.U. Foam
- Foam Type: 32 FR
- Colour: Grey

S.no	Parameter	Specified Value	Test Method	Observed Values
1.	Density (kg/m <sup>3</sup> )	30 ± 1	IS-7888	31
2.	Tensile Strength (kg/cm <sup>2</sup> )	>= .80	IS-7888	1.07
3.	Elongation (%)	>= 120	IS-7888	130
4.	Hardness value (IFD) Kg/323 Cm <sup>2</sup> @ 50% Compression	30 To 40	IS-7888	37.03
5.	% Resilience	>=30	IS-7888	34
6.	F.R. Properties			Comply to UL 94

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**TABLE I: Values of RISAC for PU Foam Grey at 1/3rd Octave Frequencies**

Central Frequency (Hz)	RISAC For PU Foam
125	0.08
160	0.08
200	0.11
250	0.14
315	0.13
400	0.34
500	0.41
630	0.50
800	0.65
1000	0.76
1250	0.76
1600	0.74
2000	0.76
2500	0.77
3150	0.81
4000	0.78
5000	0.74
6300	0.70
8000	0.72
NRC	0.52

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