

ASC-CoolTrap



- ◆ Poly diffusive bass trap designed for grouped arrays
- ◆ Excellent acoustic option for small tight spaces
- ◆ Black, or Choose any Guilford 701 color
- ◆ NRC = 0.95
- ◆ Provides Control down to 110Hz
- ◆ Mix and match 12" x 12" color tiles
- ◆ Proudly Made in the USA

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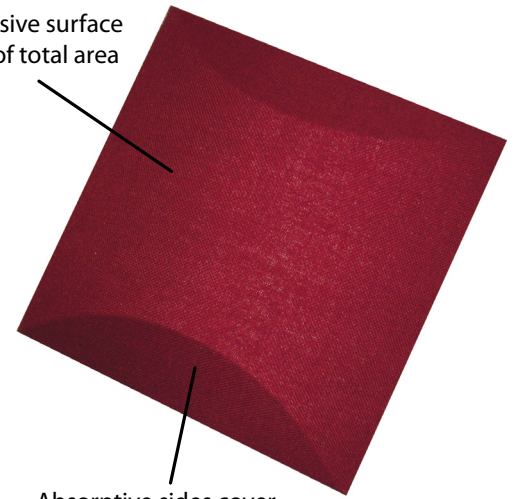
1 800 272 8823

ASC Treble Diffusion Plus Bass Trapping

We were recently asked by a major audio manufacturer to develop and manufacture a special run of studio grade acoustic products. They had to match a profile visualized by the interior designer of their huge trailer road show display. We ended up with a fantastic sounding, great looking new acoustic product. It was so good that we decided to tool up the production line and provide this product to the audio/architectural community at large.

We call it what we've always called it: **The CoolTrap.**

Curved diffusive surface cover 75% of total area



Absorptive sides cover 25% of total area



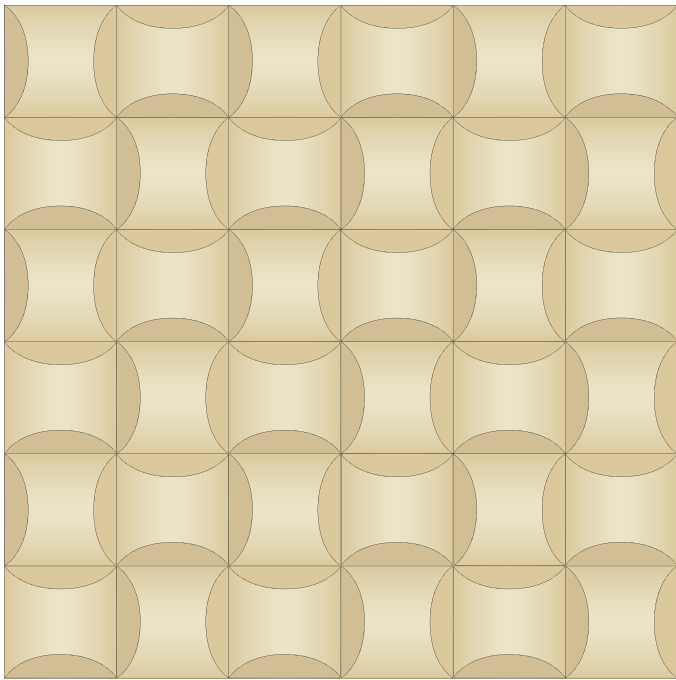
CoolTraps in Yamaha's New Live Sound Demo Trailer

Its design is a curved barrel face with beveled ends. This is not a particularly new shape in the acoustic world but its small size is certainly new. The CoolTrap is only 12" square and just over 3" deep. It is curved in one direction and angled in another. This makes fitting them together into larger and more complicated patterns a breeze. Best of all is that the visual and sonic results from these patterns are simply amazing.



Uniform Dispersion and Absorption

The designer specified the shape and pattern of the CoolTrap but we had to specify what it would sound like. For our client's application, we decided that the barrel curved polycylinder face needed to be diffusive while the angled ends needed to be absorptive. We set up a temporary production line and ran a batch through. Then we stood back and checked out what we had done. They sounded great, tested great and looked great. The original layout pattern was alternating as shown below.

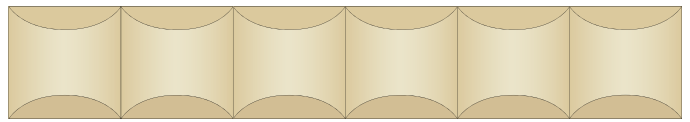


This alternating arrangement is shown in a vertical and horizontal alignment. It could as easily be aligned on an angle, with the border squares stair stepping in and out.

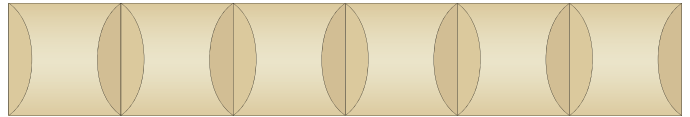
This is the most efficient arrangement for both diffusion and absorption. By alternating, the diffusion pattern is distributed uniformly, both in the vertical and horizontal directions. The absorption is well distributed and separated as far apart as can be. Additionally, the outer edge of each diffusion panel is always adjacent to an absorptive zone. This reduces the brightness of the array and enhances the edge effect, the diffractive diffusion process. We call it the Wave Pattern.

Novelty Configurations

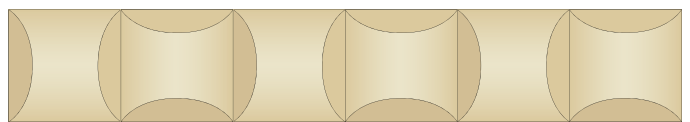
CoolTrap configurations nearly unlimited, and can be adapted to fit almost any space on walls or ceilings. They can also be color coordinated to blend into the background. If desired, they can become a color accent within your overall interior design. Alignment of individual CoolTraps can alternate, or be all the same. Whatever you envision for your project, the CoolTrap is up to the challenge.



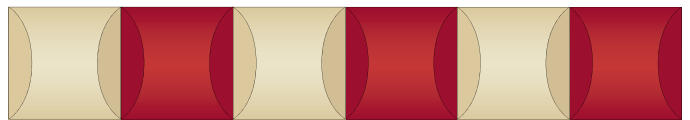
Above is a scalloped stripe, 12" wide and extending in length in 1' increments. This type of diffusion stripe would be suitable on the wall, at the wall-ceiling corner, all around the room.



Above is a notched beam and if it is laid vertical it appears to be a notched column. This same acoustic element produces significantly different visual and sonic effects depending on how it is set up.



Above is a horizontal line of alternating panels.



Mix and match complimentary colors to create stunning visual accents.

