

# PCAD Panel™



- ◆ Strong and durable with excellent acoustics
- ◆ Easily mounts on walls using "Z" clips
- ◆ Can be floor-standing if desired
- ◆ Durable surface for easy care
- ◆ Quick and simple installation
- ◆ Low cost turnkey acoustic treatment without the clutter
- ◆ Won't clash with existing decor

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## A Unique Acoustic Absorber

The ASC PCAD Panel is a high-quality freestanding curved absorber and treble diffuser.

The PCAD allows you to fine-tune the performance of your room by providing broadband absorption to reduce the "echo" in the room. These unique panels have the added benefit of treble reflectors distributed evenly throughout the panel. This is the perfect product for fine tuning your listening room, studio or home theater, calming the room just enough without overly deadening the sound.



## Simple, yet Incredibly Effective

Maintain even sound throughout the space and keep the live "ambient" feel of the room while effectively reducing the resonance that degrades the live sound of a performance.

PCAD Panels come in three sizes: 18" x 48", 24" x 48" & 36" x 60". Standard frame color is black, oak is optional, and a floor standing version is also optional. Choose from our 7 stock colors or from over 60 custom fabrics.

The curved fabric covered front is made of acoustically absorptive fiberglass, with diffusion strips added underneath. Wall mounting is achieved using the included "Z" clips. ASC provides a complete PCAD installation guide with every order.

As always, ASC gives you incredible finish detail that you can be proud to display in your room.



## Custom PCAD Panels

For a modest up charge, ASC can adapt PCAD Panels to fit your exact custom requirements. Almost any size up to 4' x 8' is possible, and many custom fabrics are available.



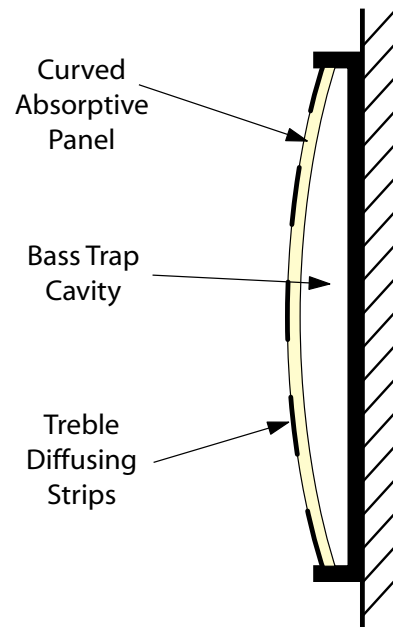
## How The PCAD Panel Works

There are three basic elements to the PCAD (Poly cylindrical Absorbing Diffuser) Panel.

**One:** The overall shape is made by a curved 1" acoustic fiberglass sound panel.

**Two:** Behind this is a bass trap cavity that allows the sound absorbing panel to "breathe deep" and absorb low frequency sound.

**Three:** Treble reflecting strips are set on the face of the sound panel, hidden under the surface fabric cover. The width and weight of these reflector strips are adjusted for the desired crossover frequencies, around 1 kHz.

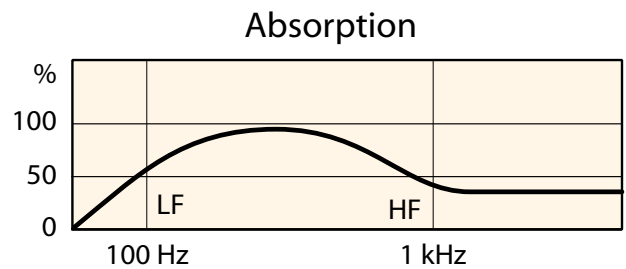


## Wall Mounted or Variable Roll off

The PCAD Panel has a built-in absorption/diffusion roll off curve that peaks at 500 Hz and begins treble diffusion at 1 kHz. When mounted directly to the wall using "Z" clips, you can expect this standard curve.

The back panel of the PCAD can be vented which allows the panel to be tuned to trap even lower bass frequencies. By furring the PCAD's out from the wall, typically by a 2 x 2 frame, sealed on all 4 sides, trapping at frequencies all the way down to 45 Hz is possible. The LF roll off for the PCAD can be adjusted in this way depending on the gap size behind.

This chart shows how roll off typically looks when the PCAD is furred out from the wall.



## Not a Poly Diffuser

The treble diffusion system used in the PCAD might look like a Poly Diffuser, but it's actually quite different. It's a set of varying width reflecting strips that use edge diffusion format for diffusion. This generates a fine grain enhancement of lateral diffusion through the room. The resultant sound is bright and lively without creating "hot spots" within the room.

