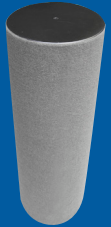


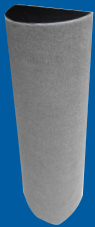
# ASC Acoustics 101



## The SmartTrap Family



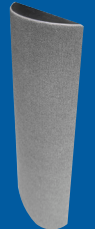
13" x 3'  
Full-Round



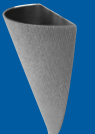
11" x 3'  
Half-Round



14" x 3' x 2"  
Wall Panel



14" x 3'  
Diffuser Panel



11" x 1.5'  
Acoustic Sconce

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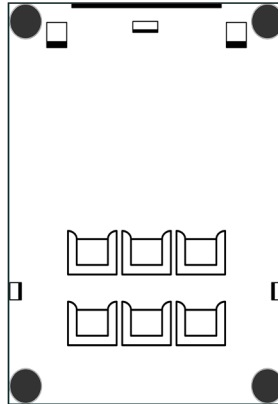
## Home Theater Optimization

### STEP 1.

Add Full-Round TubeTraps to all four corners, start at the speaker end of room.

2X's tall is better.

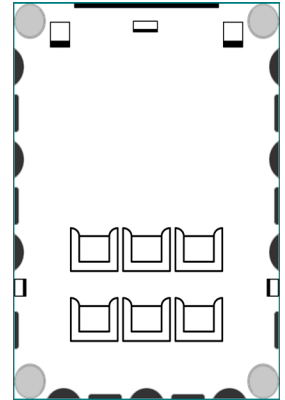
Chrome dots point to the audience. Rotate Tubes to increase treble absorption.



### STEP 2.

Add a combination of Wall Panels and Diffuser Panels to the side and rear walls.

Diffusers turn hard reflections into ambiance, while Panels absorb hard reflections.



Increase dynamic range, improve intelligibility, reduce "room boom".

Launching a clean wavefront at the front of the room, and cleaning up the excess energy at the rear makes the most dramatic improvements.

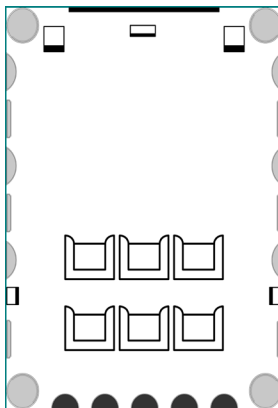
The Diffusers create a large "social listening" sweet spot, where the soundtrack becomes synched to the image on the screen. This makes every seat a good seat.

The Wall Panels absorb excess treble "zing", taking the harshness out of sound effects.

### STEP 3.

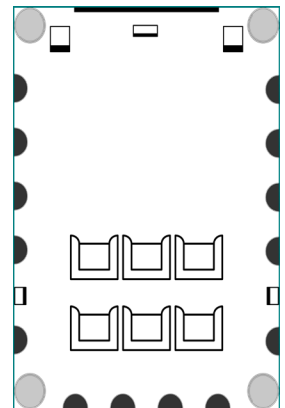
Use Half-Rounds instead of Diffusers and Panels on the rear wall.

2X's tall is better.



### STEP 4.

Add Sconces to the side and rear walls.



Venting more bass energy at the rear of the room actually increases the power of each low bass sound effect. Treble reflectors on the face of Half Rounds enhance ambiance.

Sconces are an easy way to add decorative style and good acoustics. They control flutter echo, improve ambiance, and reduce reverb.