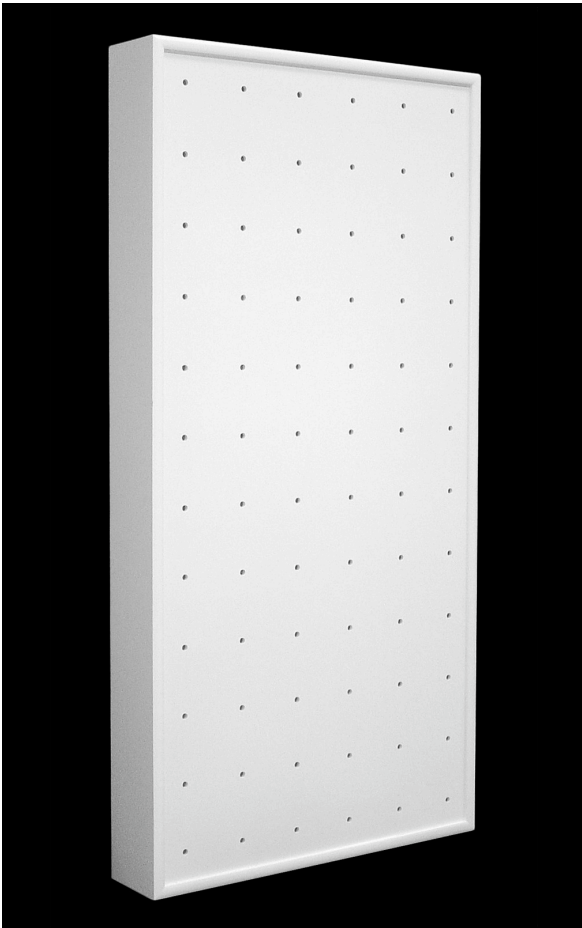




## ACOUSTIC PRODUCTS ACOUSTIC RESONATOR®



The **Acoustic Resonator**® is a Helmholtz Type Resonator which achieves outstanding absorption performance at low frequencies.

Commonly, reverberation within low frequency range tends to be much longer than the rest of the spectrum. Consequently, the quality of the sound perceived is poor, unbalanced, “boomy”, and airless. The **Acoustic Resonator**® is a powerful element to control the excess of reverberation, as well as modal interference in any acoustical environment. Correctly tuned, it is one of the most effective low frequency absorbers available. The sound not absorbed is re-radiated from the resonator openings to the room in a hemispherical pattern resulting in energy being diffused, something very desirable in low frequencies.

The **Acoustic Resonator**® is made of MDF. Standard finishes are: unfinished wood, light wood, dark wood or colored lacquer. Please contact us for special color matching.

The **Acoustic Resonator**® is manufactured under custom specs for every room. Standard dimensions are: 2'-0" (0.61m) wide by 4'-0" (1.22m) high. Please contact us to submit your room information.

The **Acoustic Resonator**® installation can be implemented to any wall via customized "J" Type clips. Two pairs of clips per unit are supplied. A real panel size template with pre-drilled holes is also provided in order to accommodate mounting hardware locations. Please refer to schematic for mounting details

The following information applies for reference only:

<b>Absorption Coefficients</b> <sup>(1)</sup>					
125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz
0.4	0.7	0.3	0.12	0.1	0.05

<sup>(1)</sup> For a sample panel of 4" (10cm) depth, 0.18% of front panel perforations and 2" (5cm) fiberglass insulation in cavity.

©2009 Malvicino Design Group Inc.

99-34 67<sup>th</sup> Road, Suite#1H – Forest Hills– NY – 11375 – USA – (1) (347) 455-0862  
info@malvicinodesigngroup.com