

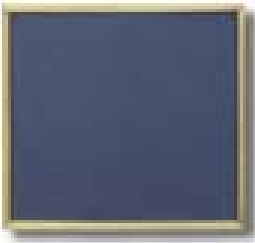
ZSOUND™ ACOUSTIC TREATMENTS

About ZSound

ZSound specialty acoustic treatments from MSR, Inc. provide superior acoustic control for individuals with a pure passion for sound. Developed by top acoustic researchers and musicians at ZS International, these acoustic treatments are ideal for all recording, mixing, and monitoring environments - ranging from traditional 2-channel stereo music applications to 5.1 surround sound mixing for DTV broadcast.

ZSound acoustic treatments include absorbers, wood 2D diffusers, wood 3D diffusers, and bass traps. These innovative acoustic modules improve room acoustics for professional recording studios, project studios, performance environments, broadcast studios, media rooms, game developers, and home theaters.

Using a combination of exotic hardwoods and environmentally friendly absorber composites that are available in four standard finishes, Zsound products are at home in the most demanding acoustic environments.



Absorbers

The wide-bandwidth (200 Hz to 20 kHz) absorbers are 2'x2'x4" thick Rockwool/fiberglass composite modules covered in acoustically transparent fabric. They are bordered by a wood frame that incorporates a mounting plate for easy installation.

Absorption Coefficients:

125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
0.6	1.0	1.2	1.3	1.3	1.1



2D Diffusers

These 2'x2' diffuser modules are a unique construction of solid wood and MDF that provides planar 2D sound reflection scattering for optimal acoustic performance. 2D diffusers come in three depths: The 4" deep unit operates on mid and high frequencies; the 6" deep unit operates on mid frequencies; and the 9" deep unit diffuses low mid frequencies. Like the absorbers, the diffusers incorporate a mounting plate for easy installation.

Diffusion Range: IF version: 400 Hz to 5 kHz

125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
0.4	0.8	1.0	0.9	0.8	0.7



3D Diffusers

The 3D diffuser modules are similar in size to the 2D diffusers, but feature a hemispherical 3D sound scattering pattern rather than 2D planar. The triangular cell form factor allows low frequency Helmholtz-style bass absorption. 3D diffusers come in two depths: The 4" deep unit operates on mid and high frequencies; the 6" deep unit operates on mid frequencies.

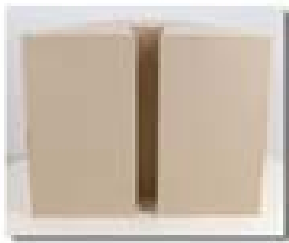
Includes mounting plates for easy installation.

Diffusion Range: 400 Hz to 5 kHz

125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
0.4	0.8	1.0	0.9	0.8	0.7

Absorption Coefficients:

125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
0.8	0.8	0.5	0.3	0.2	0.2



Bass Absorbers

The bass absorbers pick up where the wall absorbers leave off, providing deep low-frequency reflection control (60 Hz to 200 Hz) through resonator and frictional methods. Like the ZSound absorber, the 24"x31"x12" bass absorber modules are enclosed in a wood frame covered by acoustically transparent fabric.

Absorption Coefficients:

31Hz	63Hz	125Hz	250Hz	500Hz	1kHz
0.2	0.8	1.4	0.9	0.5	0.3