

SOUNDCELL®

The SOUNDCELL unit's design innovation is your practical solution to effectively absorb problem noise, diffuse sound energy, and more thoroughly capture flutter echo, standing waves and sound intensity annoyances — with style.

These unique ACMUs form stacking volume resonators, which are highly effective at reducing low frequency noise.



Optional Grout Shields
(only available with
12" units as shown)

Sound Absorption Coefficients

Frequency (Hertz)

Size	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	NRC	SAA
8"	.50	.67	.94	1.16	.89	.68	.59	.51	.55	.66	.75	.78	.79	.77	.71	.68	.69	.69	.75	.74
12"	1.20	.95	.96	.89	.64	.55	.54	.55	.60	.72	.74	.76	.79	.81	.75	.73	.72	.73	.70	.70

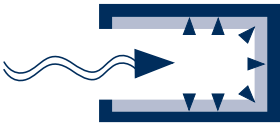
The above sound absorption data was determined by tests conducted at Riverbank Acoustical Laboratories in strict compliance with ASTM C423 and E795. Actual installed performance may vary.



SOUNDCELL® & ACOUSTADE™

Absorption / Helmholtz Resonator (Capture & Eliminate Noise)

SOUNDCELL & ACOUSTADE ACMUs utilize a stacking, slot-type, Helmholtz volume resonator to achieve sound absorption at all frequencies. The 12½" unit offers an unmatched 100% average absorption efficiency at the 100-125-160-200 Hz frequency bandwidth. This low frequency absorption is invaluable in supplying sound control that cannot be captured by carpets, drapes, acoustical tiles and similar items.



Flutter Echo (Arrest Sound Annoyance)

Often heard as a high frequency 'ringing' or 'buzzing', flutter echo can be an annoyance to speech intelligibility as well as confusing to the ear. Flutter can be reduced by skewing walls as little as one inch to one foot (1:12). SOUNDCELL & ACOUSTADE have 77% of its surface area skewed to a (3:12) ratio in order to arrest this flutter echo annoyance.



Standing Wave / Resonate Frequencies (Control Room Resonance)

A typical square room design with parallel surfaces supports standing waves at frequencies which are determined by the size of the room. The fundamental resonant frequencies associated with room dimensions fall primarily in the bass (low frequency) range and give the building space a "boomy" quality. SOUNDCELL & ACOUSTADE do not produce opposite parallel surface planes and has an effective 1.2 absorption coefficient at the difficult-to-treat 125 Hz octave band to control the standing wave - resonant frequency effect.



Diffusion (Improve Sound Quality)

Many rooms utilizing flat, exposed masonry promote sound 'bounce' and problematic reflections. SOUNDCELL & ACOUSTADE improve the quality and nature of sound by providing desirable diffusion with their innovative grid and impressed forms.

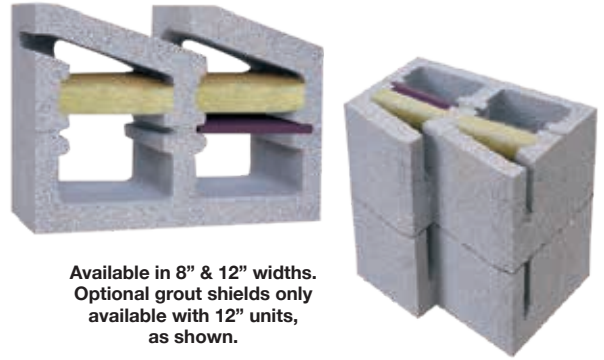


ACOUSTADE™

ACOUSTADE™ Masonry Units

Now even more design options are available. ACOUSTADE masonry units offer the same noise absorption capabilities as SOUNDCELL units, but with a unique design appearance.

Strong vertical lines are formed, and the skews are reversible by turning the units over. This feature offers enhanced diffusion and better distribution of directional sound.



Available in 8" & 12" widths.
Optional grout shields only
available with 12" units,
as shown.



www.soundseal.com

