



## Large Room Acoustical Consulting Services, Methods & Approaches

Hedback Designed Acoustics specializes in the art and science of small room acoustics (recording studios, home theaters, dedicated listening rooms) by choice and passion. However, the needs of large rooms are well within the scope of services provided, large rooms as defined by > 10,000 cu. ft in volume.

Hedback Designed Acoustics applies a (7) point protocol to large room acoustical analysis. Each point is in itself the tip of more detailed concerns that may lie beneath.

- 1) **Clarity:** which encompasses frequency response through speech intelligibility
- 2) **Envelopment:** the listener should feel bathed in sound from all sides while being able to identify origin. The acoustical aspects of this point are all too frequently downplayed given advances in PA technology.
- 3) **Freedom from Echo:** reflections must blend together smoothly
- 4) **Reverberation:** the manner that sound decays in the space must have an appropriate loudness relative to the original sound, a pleasing rate of decay & be consistent with the function of the space.
- 5) **Performer satisfaction:** the stage must be free from distracting echoes while providing a group sense between performers. Again, given advances in personal monitor technology, the acoustical aspects of this point are too frequently disregarded.
- 6) **Freedom from Noise:** the noise level of the space: general ambient background, specific acute sound invasions & mechanical system noise: must be appropriate to room function

Hedback Designed Acoustics offers services via on-site & off-site methods using the most current technology & software. Behind the use of proper analysis tools is the experience gained from years as professional musician performing in venues ranging in size from 60,000 seat stadiums, outdoor amphitheaters, sports arenas, performance halls, large format worship spaces, intimate worship spaces and clubs...we understand the possibilities and practical limitations of large room spaces.

Select Large Room Accomplishments: Spirit Bank Event Center (Bixby, OK), Second Baptist Church Woodway campus Youth Multi-Purpose Room (Houston, TX), Butterfield Assemblies of God (Van Buren, AR), East Side Church of God (Anderson, IN), St John Lutheran Church (Mansfield, TX).

Select Small Room Accomplishments: **Ozzy Osbourne private studio, Lifehouse Studio (for the band Lifehouse), Cabo Wabo Radio (Cabo Wabo, Mexico), Electrowerks Recording**

**(Chicago...worked on latest Britney Spears record), Mitch Easter private studio (Record Producer: REM, etc.)**

Media recognition: **contributed articles published in Technology for Worship & Church Production Magazine.**

Protocol:

- 1) Discovery: client conversations, review of client supplied room data, field review of space to understand conditions, concerns and goals.
- 2) Scope of Work defined: ranging from off-site predictive analysis to on-site testing/verification, clearly defined tasks and fees are agreed. Fees typically range from \$500> \$7,000 to be paid with an initial retainer and at predetermined job markers.
- 3) Analysis/Design: ranging from pure acoustical data to conceptual drawings of the completed space.
- 4) Communication: with client in their best regards, architects, interior designers, materials vendors, & possible contractors.
- 5) Note: *Hedback Designed Acoustics does NOT sell any materials, but does have advantageous relationships with quality vendors. In same regard, Hedback Designed Acoustics does not install materials but does recommend qualified/experienced contractors who do provide such services.*



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