

# Gymnasium Sound Control Solutions - Case Study

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Unger Technologies has often been contacted with the problem of unwanted sound reverberation in gymnasiums, multi-purpose rooms and churches. The client has complained about the room being too loud, difficult to hear, and poor sound quality. Unger's goal is to control the echo and make the environment comfortable for audiences, sporting events, and social functions. This is achieved with a Class A fire rated wall or ceiling acoustical product to intercept the path of the sound reflection and dissipate the noise problem – with the right product we can drop the echo to an acceptable level and control the acoustical environment.



## Product Options:

### *Wall Products –*

#### 1. Fabric Wrapped Wall Panels

These are compressed fiberglass panels designed for installation to wall surfaces. They come in a variety of colors and sizes and are ideal for gymnasiums, multipurpose rooms and churches for their sound absorption qualities.

#### 2. Fibrous Wood Panel

Unger's FWP acoustical panels are composed of aspen wood fibers, bonded with an exclusive inorganic hydraulic cement binder, and are formed in a continuous process under heat and pressure. Our Interior Wall Panels offer an effective, permanent and attractive solution for any kind of activity that produces undesirable noise levels within an enclosed space. They are abuse resistant and are able to withstand the impact of thrown or kicked balls in gyms, yet are lightweight.

### *Ceiling Products –*

#### 3. Baffles

Baffles are 2' x 4' (other sizes available) fiberglass panels wrapped in PVC vinyl covering with grommets for vertical suspension from the ceiling. This free hanging suspension allows the material to interrupt the path of noise and curb the sound levels in a room. Baffles are available in a wide variety of colors and are a cost effective means of sound control for gymnasiums.

#### 4. Acoustic Banners

Multi-purpose facilities require a sound environment conducive to both athletic events and musical performances. Acoustic banners combine ideal acoustical properties with cost-effective shipping and installation methods. Acoustical banners can be hung in a loose catenary fashion or installed flush to the roof deck for a flat appearance with minimum festoon. They allow free flow of air and integrate exceptionally well with existing sprinklers, lighting, and HVAC systems and banners are completely encapsulated in moisture-resistant PVC. Acoustic banners reduce reverberation time and sound intensity levels in harsh acoustical environments which results in increased speech intelligibility, better communication and improved quality of sound systems. Arenas and Athletic Facilities now become multi-functional due to a sound environment that is conducive to not just sporting events but also musical concerts, vocalists, and public speaking events.

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