



ACOUSTICAL BANNERS



Reducing Echo in a Florida Gymnasium with Acoustic Banners

Challenges

The Jacksonville Sports Center is a large multi-purpose gymnasium that serves as a hub for sports events, fitness classes, and community activities. However, the facility faced significant noise issues due to its high ceilings, hard concrete walls, and open layout. These structural elements caused excessive reverberation, making it difficult for athletes to hear coaches, for referees to make clear announcements, and for spectators to enjoy the games.

Additionally, the high noise levels created a distracting environment, reducing focus and communication effectiveness among players. The facility management sought a solution that would reduce echo, improve speech clarity, and create a more comfortable acoustic environment without making major structural modifications.

Solution

All Noise Control recommended acoustic banners as an effective and non-intrusive solution to improve the gym's sound environment. The banners were installed strategically throughout the facility to absorb excess noise and prevent sound waves from bouncing off hard surfaces.

Key Features

✓ High-quality fabric acoustic banners were used for superior sound absorption.

✓ Custom-sized banners were designed to fit the gym's layout and maximize acoustic coverage.

✓ Strategic placement along the walls and suspended from the ceiling to target key reflective areas.

✓ Lightweight and durable materials, ensuring long-term effectiveness without interfering with existing lighting or ventilation systems.

✓ Flame-resistant and easy-to-maintain design, ensuring compliance with safety regulations.

Installation Process

- The acoustic banners were suspended from the ceiling and mounted on high walls to absorb sound waves and break up reverberation.
- The installation was completed within a few days with minimal disruption to gym operations.
- Custom branding options were provided, allowing the banners to match the gym's color scheme and showcase its logo.

Results

- ✓ Noise reduction of up to 50%, significantly improving communication between coaches and athletes.
- ✓ Clearer game announcements, ensuring spectators could hear important updates.
- ✓ Improved focus and performance for players due to reduced background noise.
- ✓ A more enjoyable environment for community events and group fitness classes.

Sound Transmission Class (STC) Rating

The installed acoustic banners achieved an STC rating of 25-30, effectively absorbing mid-to-high-frequency sounds and reducing echo within the gymnasium.
