



# ACOUSTIC CEILING PANELS

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# Noise Reduction in a School Auditorium

**Client:**

Public High School in Orlando, Florida

**Product:**

**Perforated Metal Acoustical Ceiling Panels with Acoustic Backing**

**Location:**

Orlando, Florida

## CHALLENGES

A large high school in Orlando struggled with excessive noise and poor sound clarity in its 1,200-seat auditorium. The space had a high ceiling, reflective surfaces, and minimal sound absorption materials, which created a long reverberation time and made it difficult for audiences to clearly hear lectures, performances, and announcements.

The school administration sought a solution that would:

- **Improve sound clarity** for speeches, presentations, and performances.
- **Reduce excessive noise levels** and echoes.
- **Blend with the existing architecture** of the auditorium.
- **Be fire-rated and compliant with commercial safety standards.**

## Solution

All Noise Control recommended **perforated metal ceiling panels with an acoustic backing**, which offered both sound absorption and durability.

The installation process included:

- **Lightweight aluminum ceiling panels** with a modern **perforated design** to enhance aesthetics.
  - **NRC 0.95 panels** to absorb unwanted sound waves and reduce echoes.
  - **Class A fire-rated materials** to ensure safety compliance in a school setting.
  - **Strategic placement** across the ceiling to distribute sound evenly throughout the auditorium.
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