

## Case Study – Trek Torrent

Architect: *smartDESIGN architecture*, Batavia, NY  
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Contractor: D.R. Chamberlain, Lockport, NY



Figure 1: Concrete deck BEFORE

Figure 2: Concrete deck AFTER

**STC Hi-Sabin™ Panels** were used to control a reverberant noise problem in the cafeteria and presentation area at an electronic equipment manufacturing facility in Lockport, NY.

**The Problem:** A large open room 108' long x 33' wide x 11' high was remodeled to house a flexible space with folding panel partitions for an employee cafeteria, conference and training area. Interior finishes with painted exposed concrete deck and beams, vinyl floor, and glass window wall at the long side resulted in an excessive average reverberation time of **2.6 seconds**. Lunchtime was disturbingly noisy and presentations could not be clearly heard with so much reverberant energy.

**The Solution:** Approximately 1,080 sf of 2-inch-thick **STC Hi-Sabin™ Panels** were mounted with foam standoffs and adhesive onto the deck between the concrete beams. Reverberation time has been cut to **0.9 second** and provides an ideal acoustical environment for lunchtime and presentations.

