



Acoustical Surfaces, Inc.

Soundproofing, Acoustics, Noise & Vibration Control Specialists

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We Identify and **S.T.O.P.** Your Noise Problems

CASE HISTORY – High School Band Room UNDERWOOD PUBLIC SCHOOLS, UNDERWOOD, MINNESOTA



PROBLEM: Band Room too lively and noisy. Quality of music perception, difficult.

ARCHITECTURAL ROOM CONDITIONS: Hard surfaced walls and ceilings, carpeted floor. Following filling out the Acoustical Surfaces Inc. Questionnaire, a RASP (Reverberation Analysis Software Program) computerized analysis was conducted to determine the Reverberation Time (RT) in the existing space. The RT was calculated to be 2.26 seconds. A recommendation was calculated to reduce the RT to .51 seconds.

SOLUTION: Apply 32- 4'x8' white Echo Eliminator, Bonded Acoustical Cotton Panels to the painted concrete block walls. In addition, 78-2'x4' BAC panels were applied to the metal deck above.

RESULTS: Are reported in the testimonial letter which speaks for itself.

Letter



Underwood Public Schools
P0 Box 248 Southern Ave. Underwood, MN 56586
Superintendent Gary Sletten Ph. 218-826-6101 Fax. 218-826-6310 Principal John Hamann

Date: Sept 18, 2003

To: LeRoy S. MacKove
Acoustical Surfaces
123 Columbia Court North, Suite 201
Chaska, MN 55318

From: John Hamann, Principal
Underwood School District #550

RE: Band Room Improvements

Prior to our remodeling and placing the acoustical panels in the band room, the place sounded like a dead cave. The sound was terrible, the ambience was worse, and the sound production that our band produced was below our standards.

Since our project we have seen an immediate difference. Our students are enjoying music more than ever before. They like the sound that they are making, they rehearse with more enthusiasm, and because of that, the band's performances are up to our high expectations.

I would recommend these panels to all schools. They have made a difference in Underwood.

Untreated



Treated



Echo Eliminator, recycled cotton fiber **Bonded Acoustical Cotton** (BAC) panels are an extremely cost effective solution to providing acoustical correction and noise-reduction in Band Rooms, Gymnasiums, Classrooms, Cafeterias or other spaces in schools and colleges. The **BAC** acoustical panels were installed at a fraction of the cost of other conventional treated acoustical panels.