

# CARDINGTON - LINCOLN AUDITORIUM



Acoustic Design By:

**The D.H. Kaiser Co.**  
**P.O. Box 21035**  
**Canton, Ohio 44701**

Occupancy: 535

Volume: 116,310 cubic feet

Reverberation Time: .75 Seconds (500 Hz)

Acoustic Function Criteria:

Primary - Choral Performance

Secondary - Instrumental Music - Theater & Speech

WITHIN TWO YEARS THIS SPACE HAS BEEN TRANSFORMED FROM A REVERBERANT GYMNASIUM INTO AN BEAUTIFUL, ACOUSTICALLY SOUND, AUDITORIUM DESIGNED FOR CHORAL PERFORMANCES, INSTRUMENTAL MUSIC, THEATER AND SPEECH.

ACOUSTIC RENOVATION OF THIS ROOM WAS FUELED BY A PROACTIVE WALL DESIGN. VERTICAL GYPSUM WALL SPIKES AIDE IN THE DIFFUSION AND REFLECTION OF SIDEWALL SOUND IN THE NEAR FIELD. THE REAR WALL WAS TREATED WITH 2" ESSI ACOUSTICAL PANELS. PYRAMIDAL FIBERGLASS DIFFUSERS WERE USED TO COVER PORTIONS OF THE EXISTING TECTUM ROOF DECK. THE FLOOR IS LAYERED WITH CARPETING ACROSS THE MAIN TRAFFIC AREAS AND CONCRETE UNDERNEATH THE PADDED, UPHOLSTERED SEATS.

THE IMPROVEMENTS IN THIS ROOM ARE HEARD AFTER TESTING AND ARE VISIBLE IN THE CONSISTENT REVERBERATION CURVE ACROSS THE FREQUENCY SPECTRUM. AFTER ACOUSTIC TREATMENT THIS ROOM CAN NOW BE USED FOR ITS INTENDED PURPOSE.

FULL DETAILS, SPECIFICATIONS AND TEST DATA  
 ARE AVAILABLE UPON REQUEST

**CALL D.H. KAISER CO. 330-456-7000 / 1-800-550-**

