

ELYRIA HIGH SCHOOL - PERFORMING ARTS CENTER



Acoustic Design By:

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

Volume: 319,455 cubic feet

Reverberation Time: 1.25 Seconds (500 Hz)

Occupancy: 832

Acoustic Function Criteria:

Primary - Vocal & Instrumental Music

Secondary - Theatre & Speech

FULL DETAILS, SPECIFICATIONS AND TEST DATA
ARE AVAILABLE UPON REQUEST

CALL D.H. KAISER CO. 330-456-7000 / 1-800-550-7007(OH)

www.kaiseracoustics.com

ELYRIA HIGH SCHOOL AUDITORIUM ACOUSTICS

Acoustic design of this performance space required planning for vocal and instrumental music, as well as theatre and speech. The ideal combination of building materials such as split face block and gypsum board were calculated. Ceiling treatment consisted of Eckel Type II panels (4" & 2" thick) suspended from above. Fabric wrapped fiberglass panels were installed on rear and side walls. Gypsum board sound diffusers were designed and installed on the side walls providing low frequency absorption and early side wall reflection. (Recent studies indicate that the perception of "good acoustics" is based upon early side wall reflection of desired sound.) Predicted sound reverberation time, as specified was 1.42 seconds (500 Hz). Tested (unoccupied) reverberation time was 1.25 seconds at 500 Hz.. Nearfield reflection of sound allows performers to "hear themselves" and naturally amplifies sounds generated on stage - there are no "dead spots" in the center!

