

## LAKE CENTER CHRISTIAN SCHOOL - HARTVILLE, OHIO



ACOUSTIC MODELING OF THIS FACILITY INDICATED A SOUND REVERBERATION TIME EXCEEDING 7 SECONDS (500Hz).

SPEECH INTELLIGIBILITY WAS GREATLY HAMPERED. CONTINUED EXPENDITURES ON SOUND REINFORCEMENT WERE TO NO AVAIL. CALCULATIONS INDICATED 5,750 SABIN (UNITS OF SOUND ABSORPTION) WOULD BE REQUIRED TO ATTAIN THE TARGET GOAL OF 1.80 SECONDS.

PERFORATED STEEL PANELS (ECKEL, INDUSTRIES) WERE CHOSEN FOR DURABILITY AND EFFICIENCY. HEAVY DUTY WALL PANELS (18GA.) WERE USED WHERE BASKETBALL IMPACT WAS A CONCERN. LOW FREQUENCY ABSORPTION WAS AIDED BY THE USE OF FOUR INCH THICK PANELS, STRATEGICALLY LOCATED.

***WITH ACOUSTIC MODIFICATIONS THIS ROOM IS WELL SUITED FOR ATHLETIC ACTIVITIES, MUSICAL PROGRAMS AND STUDENT ASSEMBLIES.***

Acoustic Design By:

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

Volume: 274,619 cubic feet

Reverberation Time: 1.80 Seconds (500Hz)

Acoustic Function Criteria:

Primary - Gymnasium

**FULL DETAILS, SPECIFICATIONS AND TEST DATA ARE AVAILABLE UPON REQUEST.**

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

### LAKE CENTER CHRISTIAN SCHOOL GYMNASIUM ACOUSTICS

