

TRIUNE LUTHERN CHURCH



Acoustic Design By:

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

Volume: 18,591 cubic feet

Reverberation Time: .90 Seconds (500Hz)

Acoustic Function Criteria:

Primary - Worship and Fellowship
4810 West Mill Road
Broadview Heights, 44147

**FULL DETAILS, SPECIFICATIONS AND TEST DATA ARE AVAILABLE
CALL D.H. KAISER CO. 330-456-7000 / 1-800-550-7007(OH)**

A new fellowship hall was added to the Triune Luthren Church. Upon completion of construction, it became apparent that the room was unusable for its intended purpose. Excessive sound reverberation made speech intelligibility nearly impossible. Recorded music, audio visual presentations and small group meetings were not able to be fully enjoyed. As a remedy, the entire wall surface area (to 8' A.F.F.) was carpet covered.

After assessing the impact of this expenditure, the building committee contacted the D.H. Kaiser Co. Computer analysis shows that vast amounts of carpet only absorbs the high frequency sounds. A design goal was established with the intention to provide a more usable facility for church use. Reduction in sound reverberation occurred from 3.61 to 0.90 seconds at 500 Hz (critical speech frequency). Perforated steel acoustic panels, highly efficient at required frequencies, were spot installed on ceiling surfaces. Shaped 2" thick fiberglass/fabric panels were used to balance the placement of sound absorbing products. The most pleasing result is depicted in the graph.

TRIUNE LUTHERAN CHURCH
FELLOWSHIP HALL

