

Green Timbers School

Application: Cross-talk / Transfer Duct

! CHALLENGE

> Acoustical Duct Lining

Lined transfer ducts are costly and do not have performance ratings.

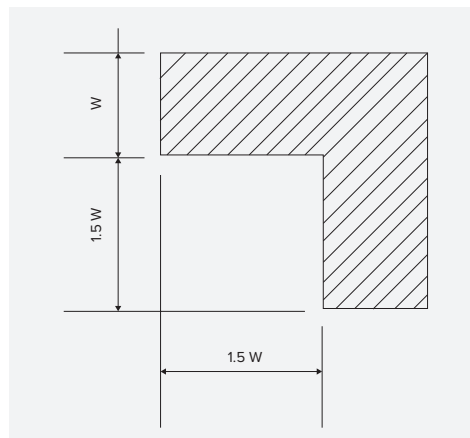
✓ SOLUTION

CROSS-TALK SILENCERS

Vibro-Acoustics submitted acoustic performance for a variety of silencer sizes. These sizes were selected to pass the air quantities specified without excessive pressure drops. All pressure drops selected were less than 0.05 inches.

A table of cost comparisons revealed that the cross-talk silencers were approximately half the price of sheet metal elbows plus lining. The acoustic performance was doubled in the lower and mid-frequency range and equal in the higher. As a result the substitution was successfully completed.

Cross-talk silencers replace lined transfer elbows at a lower cost and improved performance.



The sizes from the chart below were specified for the airflow quantities listed. Locations were noted on the drawings. Lengths were to be determined from the drawing to the left.

ACOUSTICALLY LINED TRANSFER ELBOW LEGEND

A	12" x 12"	0 – 500 CFM
B	12" x 12"	500 – 1000 CFM
C	12" x 12"	
D	12" x 12"	1000 – 1500 CFM
E	12" x 12"	
F	12" x 12"	
G	12" x 12"	1500 – 2500 CFM
H	12" x 12"	
I	12" x 12"	