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SOUND TRANSMISSION LOSS TEST NGC # 2075

Assignment 6 079

May 2, 1988

Tested For:

Icunene Inc.

Mississauga, Ontario Canada

Test Procedure:

The sample was tested in accordance with the American Society for Testing and Materials (ASTM) Test Method E 90-83. The Sound Transmission Class (STC) was determined in accordance with ASTM E413.

Test Specimen:

A general description of the construction is as

follows:

A Wood Stud Partition was constructed. Nominal 2 inch by 4 inch wood members were used in this construction. The 14 foot long top and bottom plates were caulked and secured respectively to the ceiling and floor surfaces of the test opening. Nominal 2 inch by 4 inch wood studs were spaced 16 inches on centers. The termination studs were also caulked and attached to the sides of the test opening.

A single layer of Gold Bond 5/8 inch thick FSW-6 Wallboard was screw attached to one side of the wood framework. The wallboard was attached using 1 inch long Type S screws spaced 12 inches o.c. The wallboard weight was 2.4 pounds per square foot.

At this point of construction the Icynene Inc.'s GOLDSEAL polyicynene micro-cellular plastic foam was sprayed to the interior of the partiton. The foam was trimmed to the 3 1/2 inch width of the wood studs. The measured density of the foam was .52 pounds per cubic foot.

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The remaining face of the framework was then covered using the same material and geometries as was the opposite face.

The test specimen measured 9 foot high by 14 foot long by 4 3/4 inches wide and weighed 6 pounds per square foot. The perimeter of the specimen was caulked to insure against acoustical leakage.

<u>Test Results:</u>	Test	Transmission
	Frequency	Loss
	(in Hz)	<u>(in dB)</u>
	125	19
	160	16
	200	18
	250	30
	315	36
	400	31
	500	31
	630	37
	800	39
	1000	42
	1250	43
	1600	43
	2000	38
_	2500	38
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This measured data translates to a Sound Transmission Class (STC) of 37. A graphical representation of the data and the standard STC curve are given on Page 4 of this report.

Submitted By

Andrew E. Heuer

Acoustical Project Engineer

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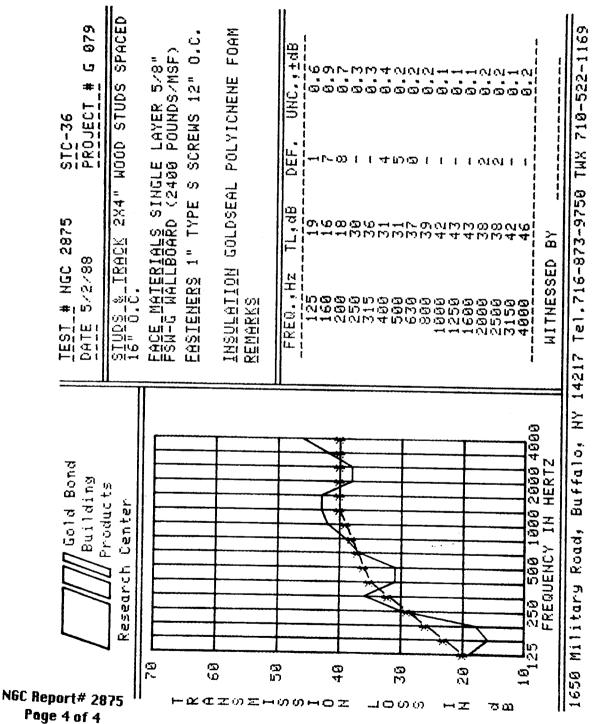
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