



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and **S.T.O.P.** Your Noise Problems

PROJECT NUMBER: 3018 98-75790.2

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DATE: October 15, 1998

TEST METHOD:

ASTM C 423-90a, "Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method" was followed in every respect.

Absorption coefficients are the fraction of diffuse incident sound absorbed by the specimen and are expressed in sabins per square foot. The NRC is the average of the absorption coefficients for 250, 500, 1000, and 2000 Hertz and is reported to the nearest integral of 0.05.

The temperature and relative humidity of the chamber during the tests were 72°F and 58%, respectively.

TEST EQUIPMENT:

<u>Manufacturer</u>	<u>Model</u>	<u>Serial #</u>	<u>Description</u>
Norwegian Electronics	NE830	11511	Real Time Spectrum Analyzer
Brüel & Kjær	3923	815424	Rotating Microphone Boom
Larson-Davis	2560	1032	Pressure Condenser Microphone

2" Wall Panel

<u>Frequency Hz</u>	<u>Abs. Coefficients</u>	<u>Uncertainty %</u>
125	0.22	5.7
250	0.81	2.9
500	1.24	1.8
1000	1.30	1.3
2000	1.21	0.8
4000	1.16	0.8

Noise Reduction Coefficient (NRC) = 1.15

Freq. = Octave band center frequency.

Abs. Coefficient = Sound absorption coefficient (extended plane applications)

Uncertainty = % uncertainty of the absorption coefficient for 95% confidence

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