

PROJECT: 267.811

February 18, 1981

REPORT OF SOUND ABSORPTION TEST 267.811-2

The material tested is 'Monoglas' a fine glass fibre spray on material produced by Douglas Eyrl Associates Ltd. The test was conducted at 1200 W. 73rd Ave., Vancouver, B.C. on February 6, 1981, for Douglas Eyrl Associates Ltd.

The same method used to determine the absorption of the material is described in ASTM C423-77.

Description of Test Specimen

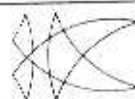
The material was sprayed onto two 4' x 9' sheets of 1/2" drywall and allowed to dry for 5 days. Ten depth measurements averaged 17 mm (0.7"). The sample tested was 6.69 sq. m (8' x 9').

Result of Measurement

The measured sound absorption coefficients are as follows:

Freq. (Hz)	125	250	500	1000	2000	4000
Coefficient (α)	0.020	0.123	0.385	0.736	0.859	0.835
95% confidence	0.087	0.044	0.062	0.107	0.083	0.112

Noise Reduction Coefficient: NRC = 0.5 - 0.55.



Brown Strachan Associates
Consulting Engineers in Acoustics

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Description of Test

The test room was a concrete room with dimensions 8.8 m x 5.8 m x 3.25 m, and a volume of 167 cu. m. The test specimen was 2.44 meters by 2.74 meters (8' x 9'), which is the recommended size for ASTM C423-77.

Twelve sets of reverberation measurements were made in the empty room and the average absorption coefficient was 0.05.

Twelve sets of reverberation measurements were made with the sample in the room. The average NRC was 0.53 ± 0.04 , which is reported as 0.5 - 0.55 and the most probable value is 0.55.

BROWN STRACHAN ASSOCIATES



R. A. Strachan, P. Eng.

