

RIVERBANK ACOUSTICAL LABORATORIES

OF IIT RESEARCH INSTITUTE

1512 BATAVIA AVE., BOX 189
GENEVA, ILLINOIS 60134

FOUNDED 1918 BY WALLACE CLEMENT SABINE

REPORT

FOR: Panelfold Doors, Inc.

Sound Absorption Test
A 77-20

ON: Sonicwal Partition

CONDUCTED: 14 October 1976

Page 1 of 1

TEST METHOD

The test method conforms explicitly with the requirements of the American Society for Testing and Materials Method of Test for Sound Absorption of Acoustical Materials in Reverberation Rooms, ASTM Designation: C423-66. A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The Sonicwal Partition was constructed as follows: Each face of the door was vinyl laminated to 5/16 inch (7.94 mm) particleboard which was perforated. Each face was backed with 1 inch (25.4 mm) fiberglass. Each face panel was 7-9/16 inches (192.0 mm) wide by 93-1/2 inches (2.37 m). This was a complete folding partition with sweep strips. The weight was 3.86 pounds per sq ft (18.9 kg/m²). The total area was 72 sq ft (6.69 m²). The mounting was a vertical number 7 mounting built against a wall. A 16 inch (0.41 m) airspace was maintained.

TEST RESULTS

	1/3 Octave Band Center Frequency, Hz						
	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	<u>NRC</u>
Absorption Coefficients	.79	.77	.87	.69	.53	.51	.70

Ninety percent confidence limits for measured coefficients are less than 0.03 at 125 Hz and less than 0.015 at higher frequencies. No adjustments were made in coefficient values. The noise reduction coefficient (NRC) is the average of the coefficients at 250, 500, 1000, and 2000 Hz, expressed to the nearest integral multiple of 0.05, or to 0.95, whichever is the lower.

Approved



Dr. Renny S. Norman
Manager

Submitted by



L. D. Williams
Assistant Research Engr.