RIVERBANK ACOUSTICAL LABORATORIES

1512 S. BATAVIA AVENUE
GENEVA, ILLINOIS 60134

Alion Science and Technology

630/232-0104
FOUNDED 1918 BY
WALLACE CLEMENT SABINE

TEST REPORT

FOR: Radial Engineering Ltd.
Port Coquitlam, British Columbia, Canada

Sound Absorption Test
RAL™-A06-221

ON: 2" Broadway™ 4 Inches Apart

CONDUCTED: 9 October 2006

TEST METHOD

The test method conformed explicitly with the requirements of the ASTM Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method: ASTM C423-02a and E795-05. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure (NVLAP Lab Code: 100227-0). A description of the measuring procedure and room qualifications is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the manufacturer as 2" Broadway™ 4 inches apart. The specimen consisted of twenty-seven (27) panels. Each panel was 305 mm (12 in.) wide by 1.22 m (48 in.) long and 50 mm (2 in.) thick. The specimen was tested in the laboratory's 292 m^3 (10,311 ft^3) test chamber.

The manufacturer's description of the specimen was as follows: Model F102-1248; Description: Control Columns; Size: 12" x 48" - 2" thick; Construction: Fiberglass - 6 lbs per cu. ft.; Finish: Acoustic fabric; Edge: Square, hardened. A visual inspection verified the manufacturer's description of the specimen.

The weight of the entire specimen as measured was 67.4 kg (148.5 lbs). The room temperature at the time of the test was 21ºC (69ºF) and 58±1% relative humidity.

MOUNTING J

The twenty seven panels were laid directly against the test surface in nine parallel rows containing three panels in each row. The rows were spaced 102 mm (4 in.) apart. The panels were spaced 102 mm (4 in.) apart end to end in each row. Panels were at an oblique angle to all walls.

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TEST RESULTS

1/3 Octave Center Frequency (Hz)	Absorption Sabins/Unit	Total Absorption In Sabins
100	1.13	30.60
** 125	1.49	40.36
160	1.83	49.46
200	2.66	71.69
** 250	3.34	90.05
315	4.39	118.64
400	4.73	127.78
** 500	4.87	131.42
630	5.01	135.27
800	4.68	126.34
** 1000	4.56	123.12
1250	4.71	127.14
1600	4.71	127.14
** 2000	4.74	128.10
2500	4.62	124.61
3150	4.49	121.31
** 4000	4.54	122.67
5000	4.40	118.68

Tested by _____ Approved by _____

Marc Sciaky
Senior Technician

David L. Moyer
Laboratory Manager

SOUND ABSORPTION REPORT
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