

WESTERN ELECTRO - ACOUSTIC LABORATORY

A division of Veneklasen Associates, Inc.

TESTING

CALIBRATION

RESEARCH

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SOUND TRANSMISSION LOSS TEST REPORT NO. TL09-120

CLIENT:

AMSCO Windows

Page 1 of 2

1880 South 1045 West

21 January 2009

P.O. Box 25368

Salt Lake City, Utah 84125

TEST DATE:

20 January 2009

INTRODUCTION

The methods and procedures used for this test conform to the provisions and requirements of ASTM E 90-04, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions. Copies of the test standard are available at www.astm.org. The test chamber source and receiving room volumes are 204 and 148.4 cubic meters respectively. Western Electro-Acoustic Laboratory is accredited by NVLAP (National Voluntary Laboratory Accreditation Program) Lab Code 100256-0 for this test procedure. NVLAP is part of the United States Department of Commerce, National Institute of Standards and Technology (NIST). This test report relates only to the item(s) tested. Any advertising that utilizes this test report or test data must not imply product certification or endorsement by WEAL, NVLAP, NIST or the U.S. Government.

DESCRIPTION OF TEST SPECIMEN

The test specimen was an AMSCO Serenity Series vinyl casement double sash assembly. The specimen was installed by sliding it completely into the test chamber opening and capturing it with screws on both sides. The specimen was sealed into the test chamber opening with a heavy duct seal putty around the entire perimeter on both sides. The primary glazing consisted of a 7/8 inch (22.2 mm) thick dual glazed unit which was 1/8 inch (3.2 mm) double strength glass, 5/8 inch (15.9 mm) air space, and 1/8 inch (3.2 mm) double strength glass. The secondary interior sound panel glazing consisted of 1/8 inch (3.2 mm) double strength glass. The primary unit was glazed into the sash frame and the secondary lite was glazed into its individual frame with glazing tape and a vinyl snap in bead. The secondary panel was sealed into the sash frame with 260 high 187 back (.260 inch x .187 inch) fin seal around the entire perimeter on the sash panel and was held in place with a vinyl snap in bead. The nominal spacing between the primary and secondary windows was 2-3/8 inches (60 mm) glass to glass. The weather stripping used for the sash panel was 260 high 187 back fin seal around the entire perimeter at the interior and at an intermediate location and QLon leaf seal around the entire exterior perimeter. The sash was held in the closed position with a multi-point latching system. The net outside frame dimensions of the window assembly were 35-1/2 inches (.902 m) wide by 59-1/2 inches (1.51 m) high by 5-5/16 inches (135 mm) deep. The overall weight of the assembly was 95 lbs. (43.1 kg) for a calculated surface density of 6.48 lbs./ft² (31.6 kg/m²). The operable portion of the assembly was opened and closed five times prior to the test.

RESULTS OF THE MEASUREMENTS

Mange

One-third octave band sound transmission loss values are plotted and tabulated on the attached sheet. ASTM minimum volume requirements are met at 80 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E 413-04 was STC-40.

Approyed:

Respectfully submitted,

Western Electro-Acoustic Laboratory

Gary E. Mange Laboratory Director

Raul Martinez

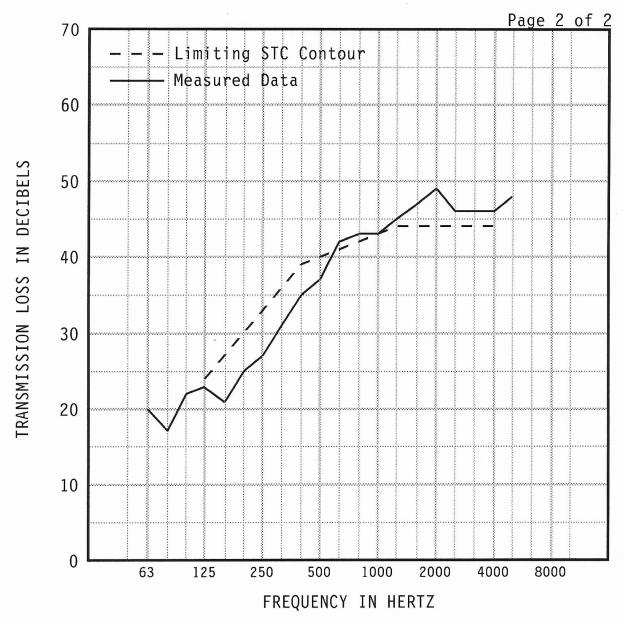
Acoustical Test Technician

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Report No. TL09-120



500 37
37
1000
0.38
(3)
5000
48
0.50
STC
40

Relative Humidity: 32 %

(30)

Test Date: 20 January 2009

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