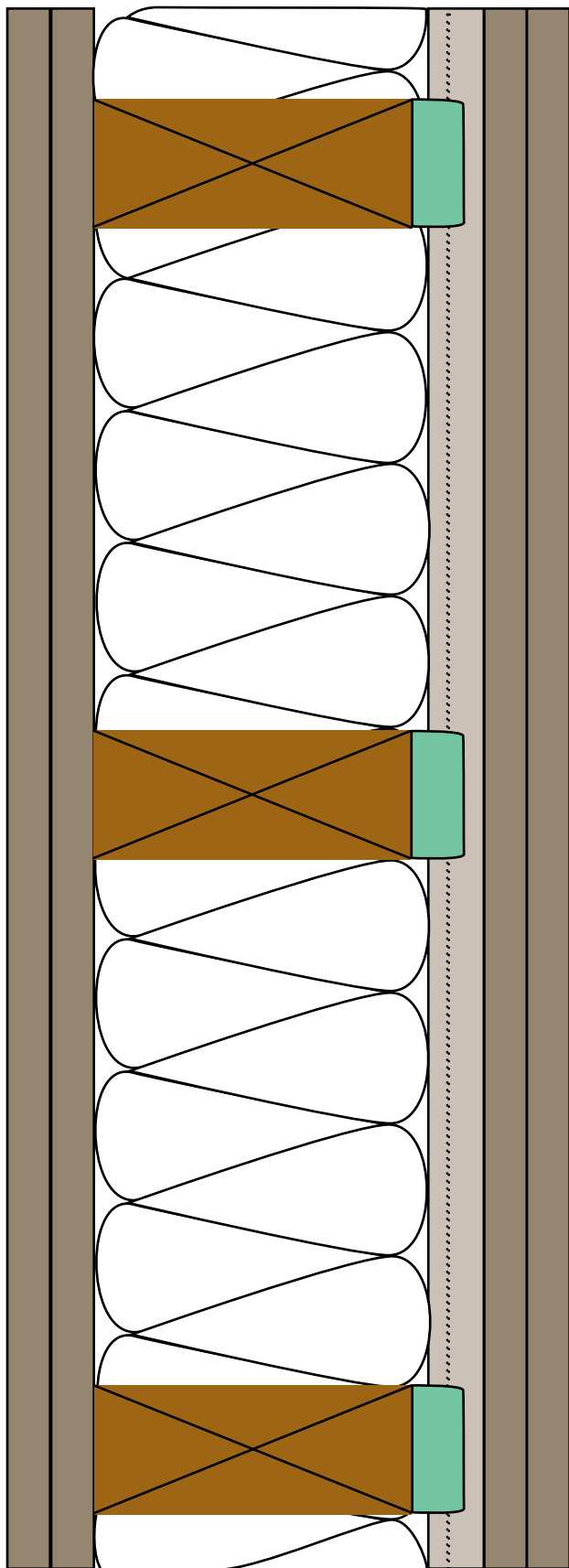


RC Assurance - 2/2 Layers - Wall Assembly



2x6

Sound Transmission Loss
Test Report No. TL07-345

STC - 61

Construction (Left to Right)

- 2 Layers 5/8" Gypsum Board
- 6" Batt Insulation
- 2x6 Wood Studs at 16" O.C.
- RC Assurance Clip
- Resilient Channel
- 2 Layers 5/8" Gypsum Board



P.O. Box 241353

Mayfield Heights, OH 44124

Info@KeeneBuilding.com

www.KeeneBuilding.com

877 | 514 | 5336

P 440 | 605 | 1020

F 440 | 605 | 1120



WESTERN ELECTRO - ACOUSTIC LABORATORY

A division of Veneklasen Associates, Inc.

T E S T I N G • C A L I B R A T I O N • R E S E A R C H

25132 Rye Canyon Loop Santa Clarita, California 91355 Tel: (661) 775-3741 Fax: (661) 775-3742 www.weal.com

SOUND TRANSMISSION LOSS TEST REPORT NO. TL07-345

CLIENT: **Veneklasen Associates, Inc.**
1711 16th Street
Santa Monica, CA 90404

Page 1 of 2
18 May 2007

TEST DATE: 17 May 2007

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.

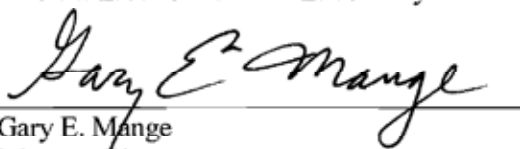
DESCRIPTION OF TEST SPECIMEN

The test specimen was a wall assembly constructed from wood studs, resilient channel, and type X gypsum board. In this report, all wood stud dimensions are nominal. The studs were 2 x 6 wood and were spaced horizontally at 16 inches (406 mm) O.C. with a single head and sill plate. The frame was isolated from the test opening with 1/4 inch (6.4 mm) neoprene pads. 6 inch (152 mm) thick R-19 fiberglass batts were installed in the stud space. On the source room side, Dicitrich single leg deluxe resilient channels were attached to the studs with Keene RC Assurance clips. The channels were oriented horizontally with the resilient leg above the screw leg at 24 inches (610 mm) O.C. Two layers of 5/8 inch (15.9 mm) thick type X gypsum board were screwed to the channels at 12 inches (305 mm) O.C. The gypsum board was oriented vertically and the joints were staggered. On the receiving room side, two layers of 5/8 inch (15.9 mm) thick type X gypsum board were screwed to the studs at 8 inches (203 mm) O.C. around the perimeter and 12 inches (305 mm) O.C. in the field. The gypsum board was oriented vertically and the joints were staggered. All joints and perimeters were sealed with a bead of caulking and metal foil tape. Screw heads were covered with metal foil tape. The overall dimensions of the wall assembly were 96 inches (2.44 m) wide by 96 inches (2.44 m) high by 8-3/4 inches (222 mm) thick. The overall weight of the assembly was estimated to be 792.5 lbs (359 kg) for a calculated surface density of 12.4 lbs./ft² (60.5 kg/m²).

RESULTS OF THE MEASUREMENTS

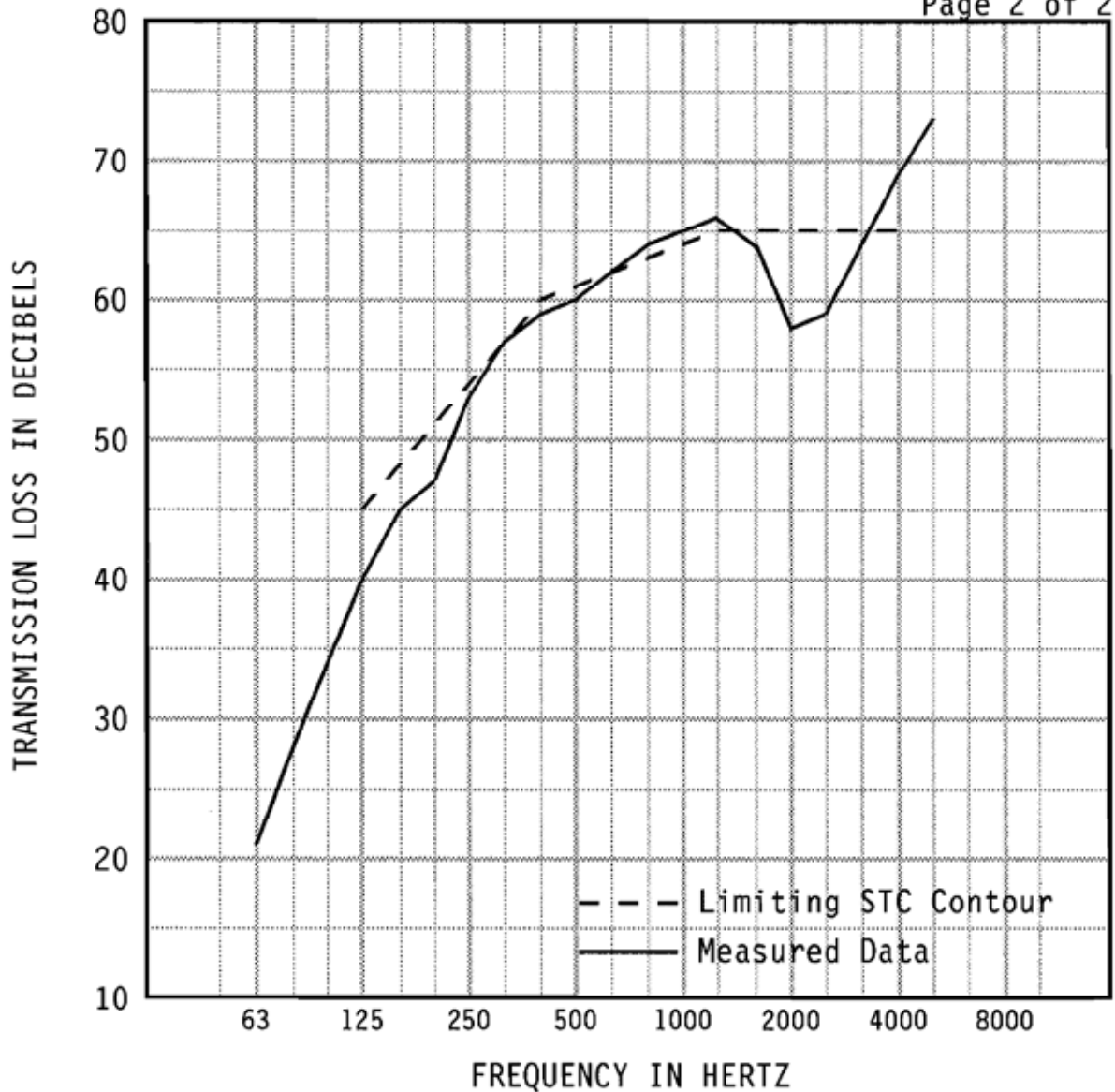
One-third octave band sound transmission loss values are plotted and tabulated on the attached sheet. ASTM minimum volume requirements are met at 80 Hz and above. The Sound Transmission Class rating determined in accordance with ASTM E 413-04 was STC-61.

Respectfully submitted,
Western Electro-Acoustic Laboratory


Gary E. Mange
Laboratory Director

WESTERN ELECTRO-ACOUSTIC LABORATORY

Report No. TL07-345



| | | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|
| 1/3 OCT BND CNTR | FREQ | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 |
| TL in dB | | 21 | 28 | 34 | 40 | 45 | 47 | 53 | *57 | *59 | *60 |
| 95% Confidence in dB | | 1.42 | 1.92 | 2.07 | 1.47 | 0.89 | 0.76 | 0.80 | 0.52 | 0.36 | 0.38 |
| deficiencies | | | | | (5) | (3) | (4) | (1) | (0) | (1) | (1) |
| 1/3 OCT BND CNTR | FREQ | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
| TL in dB | | *62 | 64 | 65 | 66 | 64 | 58 | 59 | 64 | 69 | 73 |
| 95% Confidence in dB | | 0.29 | 0.44 | 0.38 | 0.39 | 0.36 | 0.56 | 0.55 | 0.31 | 0.32 | 0.50 |
| deficiencies | | (0) | | | | (1) | (7) | (6) | (1) | | |

| | | | | |
|-----|------|---|---|------------|
| EWR | OITC | * Minimum estimate of transmission loss. Measurement limited by filler wall. Actual TL will be equal to or greater than value reported. | Specimen Area: 64 sq.ft. Temperature: 72.5 deg. F Relative Humidity: 46 % Test Date: 17 May 2007 | STC |
| 61 | 45 | | | 61 (30) |

Report must be distributed in its entirety except with written authorization from Western Electro-Acoustic Laboratory



NVLAP LAB CODE 100256-0