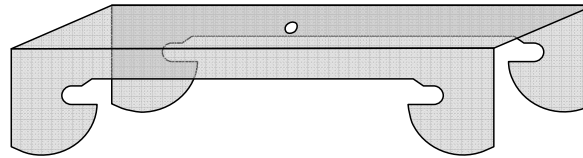


# RSIC-V CLIP ACOUSTIC ASSEMBLY

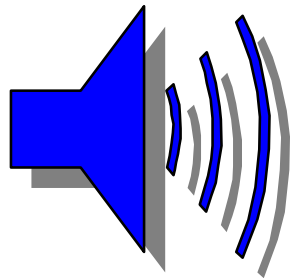
## WALL ASSEMBLY



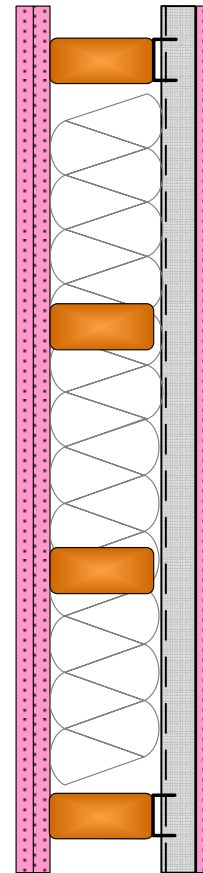
DIRECT FIX TO WOOD STUD



**WEAL 06-504 Assembly STC 59**



# STC 59



### CONSTRUCTION

- \* 5/8" Gypsum
- \* 7/8" x 25 guage furring Channel @ 24" o.c.
- \* RSIC-V clips at 48" o.c.
- \* 2x4 wood studs @ 16" o.c.
- \* 5.5" unfaced fiberglass insulation
- \* 2 Layers 5/8" Gypsum
- \* Test Number TL06-504
- \* UL 1 hour wall assemblies see website for more information



**1 HOUR**  
**U305**

**SOUND**  
**TRANSMISSION**  
**CLASS**

**STC 59**



# WESTERN ELECTRO - ACOUSTIC LABORATORY

A division of Veneklasen Associates, Inc.

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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. TL06-504

CLIENT: **PAC International**  
2620 Regatta Drive, Suite #102  
Las Vegas, NV 89128-6892  
TEST DATE: 14 December 2006

Page 1 of 2  
8 January 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](http://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.

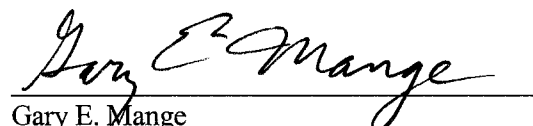
### DESCRIPTION OF TEST SPECIMEN

The test specimen was a wall assembly constructed from wood studs and Firecode "C" gypsum board. In this report, all wood stud dimensions are nominal. The frame used a single 2 x 4 wood head and sill plate and 2 x 4 wood studs at 16 inches (406 mm) O.C. 6 inch (152 mm) unfaced R-19 fiberglass batts were installed in the stud spaces. On the receiving room side, two layers of 5/8 inch (15.9 mm) thick Firecode "C" gypsum board were screwed to the studs. The first layer was oriented vertically and screwed using 1-1/4 inch (31.8 mm) screws at 12 inches (305 mm) O.C. around the perimeter and in the field. The second layer was oriented horizontally and screwed using 1-5/8 inch (41.3 mm) screws at 12 inches (305 mm) O.C. around the perimeter and in the field. On the source room side, RSIC-V claws were screwed directly to the studs using 1-1/2 inch (38.1 mm) screws at a vertical spacing of 24 inches (610 mm) O.C. and at a staggered horizontal spacing of 48 inches (1.22 m) O.C. 2-1/2 inch (63.5 mm) by 7/8 inch (22.2 mm) drywall furring channels were installed into the RSIC-V claws. One layer of 5/8 inch (15.9 mm) thick Firecode "C" gypsum board was screwed to the channels using 1-1/4 inch (31.8 mm) screws at 12 inches (305 mm) O.C. The gypsum board was oriented vertically. On both sides, the joints and perimeter were taped. All screw heads were covered. The overall dimensions of the wall assembly were 96 inches (2.44 m) wide by 96 inches (2.44 m) high by 6-1/2 inches (165 mm) thick. The overall weight of the assembly was estimated to be 616 lbs (279 kg) for a calculated surface density of 9.63 lbs./ft<sup>2</sup> (47.0 kg/m<sup>2</sup>).

### 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-59.

Respectfully submitted,  
Western Electro-Acoustic Laboratory

  
Gary E. Mange  
Laboratory Director

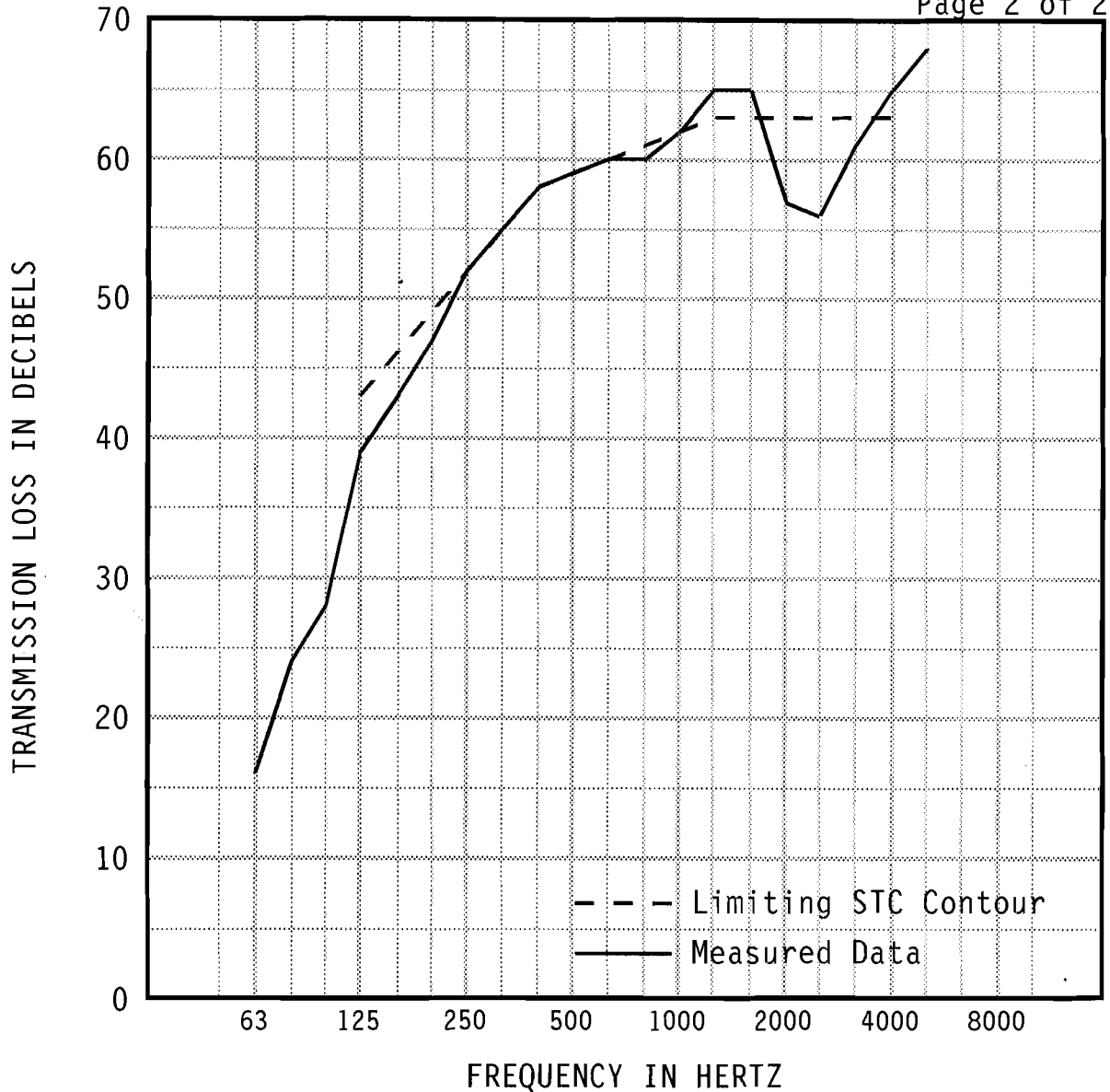
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NVLAP LAB CODE 100256-0

# WESTERN ELECTRO-ACOUSTIC LABORATORY

Report No. TL06-504



1/3 OCT BND CNTR	FREQ	63	80	100	125	160	200	250	315	400	500
TL in dB		16	24	28	39	43	47	52	55	*58	59
95% Confidence in dB deficiencies		1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38
					(4)	(3)	(2)	(0)	(0)	(0)	(0)
1/3 OCT BND CNTR	FREQ	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB		60	60	62	65	65	57	56	61	65	68
95% Confidence in dB deficiencies		0.29	0.44	0.38	0.39	0.36	0.56	0.55	0.31	0.32	0.50
		(0)	(1)	(0)			(6)	(7)	(2)		

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: 72.3 deg. F Relative Humidity: 47 % Test Date: 14 December 2006	STC
60	41			59 (25)

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