



Acoustical Testing Laboratory



Accredited by the National Voluntary
Laboratory Accreditation Program
for the specific scope of accreditation
under Lab Code 200291

TEST REPORT

For

SonoGrip, Inc.
923 Peachtree Street
Atlanta, GA 30309
Trent Trudeau / 404-934-0570

Sound Transmission Loss Test

ASTM E 90 - 04 / E 413 - 04

On

**6 Inch (152mm) Concrete Slab Overlaid with
1/2 Inch Quarry Tile on SonoGrip™ Adhesive Underlayment**

Report Number: NGC 5007056


Page 1 of 4
Reissue 01/22/2008

Assignment Number: G-387


Test Date: 08/15/2007

Report Date: 09/04/2007

Submitted by:


Craig G. Cooper
Test Engineer

Reviewed by:


Robert J. Menchetti
Director

The results reported above apply to specific samples submitted for measurement.
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Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements - Designation: E 90 - 04 / E 413 - 04.

Specimen Description: 6 inch (152mm) Concrete Slab Overlaid with; 12.7mm (1/2 in.) Quarry Tile over, Hand Troweled on SonoGrip™ Adhesive Underlayment.

The test specimen was a floor-ceiling assembly consisting of the following:

- 1 layer of 152mm x 152mm x 12.7mm (6 in. x 6 in. x 1/2 in.) unglazed clay quarry tile 27.3 kg/m² (5.6 PSF) installed using latex-modified Thin-set mortar and latex-modified sanded grout mixtures 4.9 kg/m² (1.0 PSF).
- 1 layer of SonoGrip™ adhesive underlayment, measured to be 1.90mm (0.075 in.) thick. Sample weight was 1.46 kg/m² (0.30 PSF). Adhesive was hand troweled on to 4 mil poly, using a 6.35mm x 9.52mm x 6.35mm (1/4 in. x 3/8 in. x 1/4 in.) trowel.
- 1 layer of 4 mil poly, edges were double sided taped to the floor.
- 152mm (6 in.) thick reinforced concrete slab 366.1 kg/m² (75.0 PSF).

The overall weight of the test assembly is nominal 399.8 kg/m² (81.90 PSF).

The perimeter of the concrete slab was sealed with rubber gasketing and a sand filled trough. The test assembly is structurally isolated from the receiving room.

Specimen size: 3658mm x 4877mm (12 ft x 16 ft.)

Conditioning: Adhesive cured for a minimum 24 hours. Mortar and Grout cured for 7 days. Concrete slab cured for a minimum of 28 days.

Test samples were submitted by client and tested as received.

Test Results: The results of the tests are given on pages 3 and 4.

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Sound Transmission Loss Test Data							
Test: ASTM E 90 - 04 / ASTM E 413 - 04							
No. of test report: NGC5007056						Date: 8/15/2007	
Size: 17.8 m ²							
Source room				Receiving room			
Volume V = 53.2 m ³				Volume V = 63.9 m ³			
Temperature [°C]: 25.0				Temperature [°C]: 24.2			
Humidity [%]: 47				Humidity [%]: 49			
Sound Transmission Class STC = 54 dB							
Sum of unfavorable deviations: 25.0 dB							
Max. unfavorable deviation: 5.0 dB at 250 Hz							
Frequency [Hz]	STL [dB]	L1 [dB]	L2 [dB]	T [s]	Corr. [dB]	u.Dev. [dB]	ΔSTL
50	33.0	92.1	66.6	3.45	7.8	--	4.276
63	39.0	92.0	61.0	3.49	7.8	--	2.888
80	43.0	97.2	62.6	4.36	8.8	--	2.606
100	34.0	96.4	70.2	3.15	7.4	--	2.865
125	38.0	94.1	63.9	3.64	8.0	--	0.762
160	38.0	101.5	71.2	3.67	8.1	3.0	0.748
200	41.0	96.7	63.6	3.73	8.1	3.0	0.566
250	42.0	95.6	60.9	2.95	7.1	5.0	0.616
315	48.0	98.7	57.7	2.95	7.1	2.0	0.520
400	48.0	100.9	59.5	2.73	6.8	5.0	0.787
500	51.0	98.9	54.8	2.62	6.6	3.0	0.424
630	53.0	97.1	50.3	2.53	6.4	2.0	0.557
800	54.0	96.8	48.8	2.51	6.4	2.0	0.400
1000	57.0	96.8	46.3	2.34	6.1	--	0.632
1250	59.0	99.3	45.4	2.06	5.6	--	0.520
1600	60.0	102.9	48.5	1.96	5.3	--	0.539
2000	63.0	100.1	41.7	1.82	5.0	--	0.265
2500	65.0	97.7	37.2	1.64	4.6	--	0.283
3150	66.0	95.1	33.4	1.48	4.1	--	0.469
4000	67.0	96.4	32.9	1.29	3.5	--	0.469
5000	69.0	95.3	29.1	1.15	3.0	--	0.300

STL = Sound Transmission Loss, dB
 L1 = Source Room Level, dB
 L2 = Receiving Room Level, dB
 T = Reverberation Time, seconds
 Δ STL = Uncertainty for 95% Confidence Level

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Sound Transmission Loss Test Data

Per: ASTM E 90 - 04 / ASTM E 413 - 04

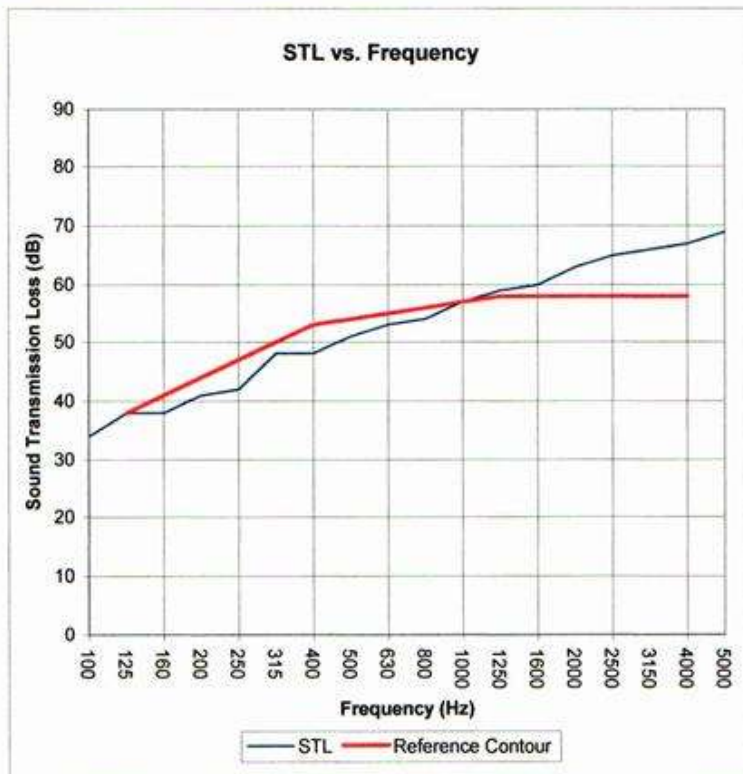
No. of test report: NGC5007056

Test Date: 8/15/2007

Size: 17.8 m²

Sound Transmission Class STC = 54 dB

Frequency [Hz]	STL [dB]	ΔSTL
50	33	4.276
63	39	2.888
80	43	2.606
100	34	2.865
125	38	0.762
160	38	0.748
200	41	0.566
250	42	0.616
315	48	0.520
400	48	0.787
500	51	0.424
630	53	0.557
800	54	0.400
1000	57	0.632
1250	59	0.520
1600	60	0.539
2000	63	0.265
2500	65	0.283
3150	66	0.469
4000	67	0.469
5000	69	0.300



* Due to high insulating value of specimen, background levels limit results at these frequencies.

STL = Sound Transmission Loss, dB
 Δ STL = Uncertainty for 95% Confidence Level

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