



Acoustical Testing Laboratory



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

TEST REPORT

For

Proflex Products, Incorporated
3406 Dean Street
Naples, FL 34104
Gerard Gigon / 617-749-5648

Sound Transmission Loss Test

ASTM E 90 - 04 / E 413 - 04

On

8 Inch (203mm) Concrete Slab Overlaid with Quarry Tile Flooring over a Layer of 0.250 Inch (6.4mm) Proflex RCU 250 Underlayment

Report Number: NGC 5009042


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Assignment Number: G-508

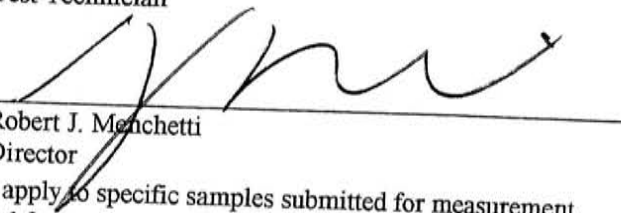
Test Date: 06/22/2009

Report Date: 07/24/2009

Submitted by:


Steven M. Armenia
Test Technician

Reviewed by:


Robert J. Menchetti
Director

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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: 8 inch (203mm) Concrete Slab overlaid with, according to client, unglazed clay quarry tile flooring on a layer of 0.250 inch (6.4mm) Proflex RCU-250 underlayment.

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

- 152mm x 152mm x 12.7mm (6 in. x 6 in. x ½ in.) unglazed clay quarry tile installed using a latex-modified thin set mortar mixture meeting ANSI Specification 118.11 and a polymer enhanced sanded grout mixture meeting ANSI Specification 118.6 and 118.7. Mortar troweled on with 1/4 in. by 3/8 in. notch trowel. Mortar and grout mixtures sample weight was 32.2 kg/m² (6.6 PSF).
- 1 layer of 6.4mm (0.250 in.) thick Proflex RCU 250 underlayment. Sample weight was found to be 3.6 kg/m² (0.74 PSF). Sample thickness measured 6.7mm (0.265 in.).
- 203mm (8 in.) thick reinforced concrete slab 488.2 kg/m² (100 PSF).
- No ceiling

The overall weight of the test assembly is 524.0 kg/m² (107.34 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: Concrete cured minimum of 28 days.
Tile mortar and grout cured for 7 days.

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

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Size: 17.84 m²

Source room

Volume V = 53.2 m³

Temperature [°C]: 21.5

Humidity [%]: 66

Receiving room

Volume V = 63.0 m³

Temperature [°C]: 21.5

Humidity [%]: 58

Sound Transmission Class STC = 56 dB

Sum of unfavorable deviations: 29.0 dB

Max. unfavorable deviation: 8.0 dB at 250 Hz

Frequency [Hz]	STL [dB]	L1 [dB]	L2 [dB]	T [s]	Corr. [dB]	u.Dev. [dB]	ΔSTL
100	34	104.5	79.6	4.63	9.1	--	2.236
125	37	105.9	76.6	3.34	7.7	3	1.063
160	44	108.1	72.3	4.11	8.6	--	1.109
200	39	105.6	74.7	3.80	8.3	7	0.748
250	41	104.9	71.0	3.19	7.5	8	1.136
315	49	106.6	65.3	3.07	7.3	3	1.030
400	53	105.7	60.1	2.89	7.1	2	0.693
500	56	104.4	55.3	2.59	6.6	--	0.707
630	56	103.8	54.4	2.40	6.3	1	0.900
800	55	102.5	53.3	2.33	6.1	3	0.316
1000	57	100.4	48.8	2.17	5.8	2	0.224
1250	60	101.3	46.5	2.02	5.5	--	0.300
1600	62	102.1	45.1	2.00	5.5	--	0.447
2000	67	104.0	42.5	1.88	5.2	--	0.548
2500	66	105.6	44.1	1.73	4.9	--	0.806
3150	68	105.5	41.6	1.56	4.4	--	0.889
4000	73	104.6	35.5	1.34	3.7	--	1.204
5000	74	104.3	33.3	1.22	3.3	--	1.470

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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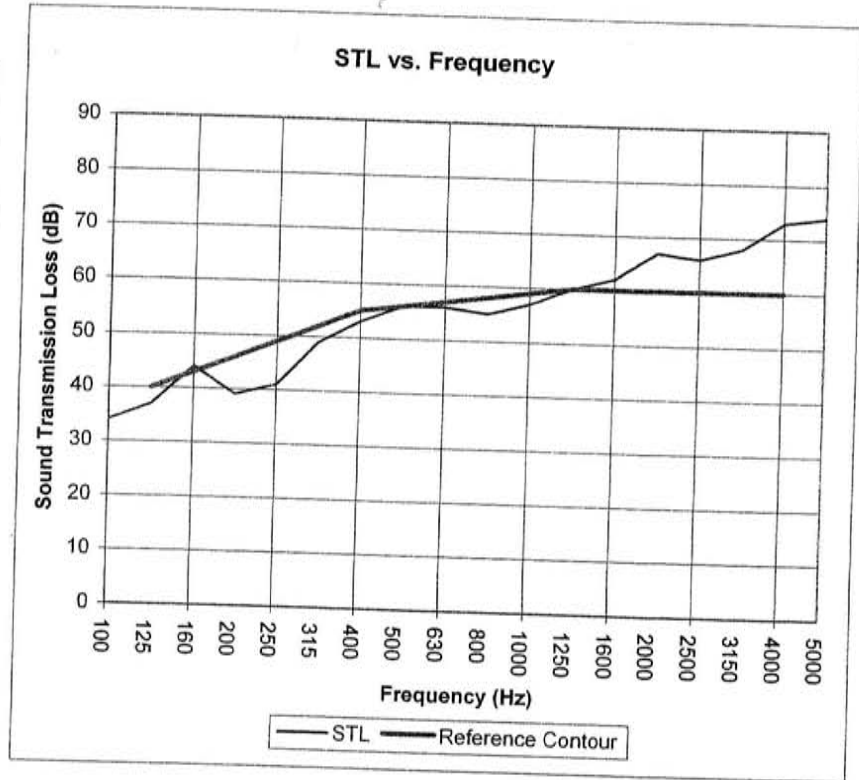
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No. of test report: NGC5009042
 Test Date: 6/22/2009
 Size: 17.84 m²

Sound Transmission Class STC = 56 dB

Frequency [Hz]	STL [dB]	ΔSTL
100	34	2.236
125	37	1.063
160	44	1.109
200	39	0.748
250	41	1.136
315	49	1.030
400	53	0.693
500	56	0.707
630	56	0.900
800	55	0.316
1000	57	0.224
1250	60	0.300
1600	62	0.447
2000	67	0.548
2500	66	0.806
3150	68	0.889
4000	73	1.204
5000	74	1.470



* 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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