



Acoustical Testing Laboratory



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

TEST REPORT

For

LATICRETE International, Inc.
One Laticrete Park North
Bethany, CT 06524
Jay B. Conrod / 800-243-4788

Impact Sound Transmission Test ASTM E 492 – 09 / ASTM E 989 – 06 On

Glazed Ceramic Tile Using
LATICRETE® SpectraLOCK® PRO Grout over
LATICRETE® 125 Sound and Crack Adhesive
Applied with 1/2 In. x 1/2 In. x 1/2 In. Sq. Notch Trowel on
6 Inch (152mm) Concrete Slab

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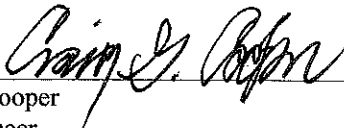
Report Number: NGC 7009139

Assignment Number: G-560

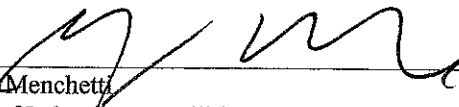
Test Date: 12/15/2009

Report Date: 12/24/2009

Submitted by: _____


Craig G. Cooper
Test Engineer

Reviewed by: _____


Robert J. Menchetti
Director of Laboratory Facilities
& Testing Services

The results reported above apply to specific samples submitted for measurement.
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Test Method: This test method is in accordance with American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine - Designation: E 492-09 / E 989-06. The uncertainty limits of each tapping machine location met the precision requirements of section A1.4 of ASTM E 492-09.

Specimen Description: 6 inch (152.4mm) concrete slab floor-ceiling assembly overlaid with, according to client, glazed ceramic tile using LATICRETE® SpectraLOCK® PRO Grout over LATICRETE® 125 Sound and Crack Adhesive applied with 1/2 in. x 1/2 in. x 1/2 in. sq. notch trowel.

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

- 298.5mm x 298.5mm x 7.5mm (11 3/4 in. x 11 3/4 in. x .295 in.) Platinum Ceramic glazed ceramic tile installed using LATICRETE® 125 Sound and Crack Adhesive applied with a 12.7mm x 12.7mm x 12.7mm (1/2 in. x 1/2 in. x 1/2 in.) sq. notch trowel and LATICRETE® SpectraLOCK® PRO Grout. Adhesive mixture was 3 quarts of water per bag of adhesive. Tiles were back buttered. Estimated tile, adhesive, and grout weight was 17.6 kg/m² (3.6 PSF).
- 6 inch (152.4mm) thick reinforced concrete slab 366.1 kg/m² (75.0 PSF).

The overall weight of the test assembly is 383.7 kg/m² (78.6 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 slab cured for a minimum of 28 days. Adhesive cured for seven days.

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

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Normalized impact sound pressure level						
Test: ASTM E 492 - 09 / ASTM E 989 - 06						
Test Report: NGC7009139					Date: 12/15/2009	
Specimen Size [m ²]: 17.8					Page 3 of 4	
Source room			Receiving room			
Rm Temp [°C]: 17.5			Volume [m ³]: 63.9			
Humidity [%]: 41			Rm Temp [°C]: 17.5			
			Humidity [%]: 64			
Impact Insulation Class IIC [dB]: 43						
Sum of Unfavorable Deviations [dB]: 27						
Max. Unfavorable Deviation [dB]: 6			at 2500 Hz			
Frequency [Hz]	L _n [dB]	L ₂ [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL _n
50	60	66.2	12.54	-6.2		2.60
63	55	60.3	18.55	-5.3		1.56
80	55	62.1	12.18	-7.1		1.73
100	61	67.5	13.13	-6.5		3.78
125	64	69.0	3.40	-5.0		2.25
160	67	72.8	4.16	-5.8		2.70
200	68	73.5	3.89	-5.5		0.92
250	70	75.2	3.20	-5.2	1	0.76
315	67	71.5	3.14	-4.5		0.46
400	68	73.0	3.01	-5.0		0.22
500	66	70.2	2.84	-4.2		0.48
630	66	70.2	2.67	-4.2		0.38
800	65	69.6	2.70	-4.6		0.24
1000	65	68.7	2.51	-3.7	1	0.30
1250	65	67.9	2.23	-2.9	4	0.21
1600	63	66.6	2.14	-3.6	5	0.14
2000	60	63.3	1.98	-3.3	5	0.22
2500	58	60.3	1.82	-2.3	6	0.20
3150	54	56.0	1.63	-2.0	5	0.29
4000	51	52.8	1.41	-1.8		0.40
5000	51	51.8	1.24	-0.8		0.49

L_n = Normalized Sound Pressure Level, dB
 L₂ = Receiving Room Level, dB
 d = Decay Time, dB/second
 ΔL_n = Uncertainty for 95% Confidence Level

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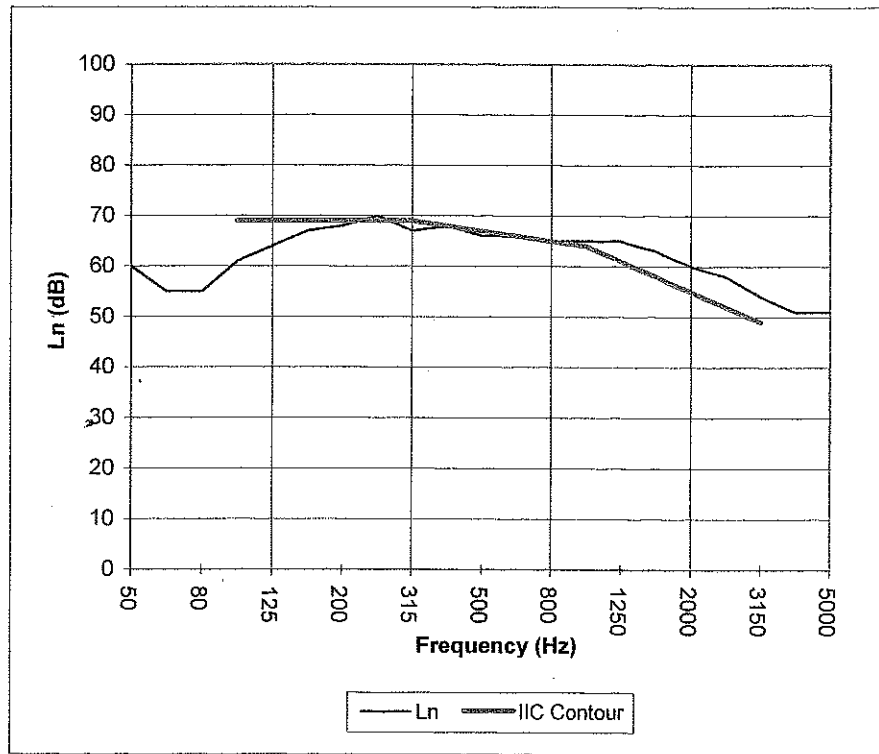
Normalized impact sound pressure level

Test: ASTM E 492 - 09 / ASTM E 989 - 06

Test Report: NGC7009139
 Test Date: 12/15/2009
 Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 43

Frequency [Hz]	L _n [dB]
50	60
63	55
80	55
100	61
125	64
160	67
200	68
250	70
315	67
400	68
500	66
630	66
800	65
1000	65
1250	65
1600	63
2000	60
2500	58
3150	54
4000	51
5000	51



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

L_n = Normalized Sound Pressure Level, dB

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