



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 1/4 In. x 3/8 In. Sq. Notch Trowel on
6 Inch (152mm) Concrete Slab**

Report Number: NGC 7009143

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Assignment Number: G-568

Test Date: 12/31/2009

Report Date: 01/22/2010

Submitted by: _____

Craig G. Cooper
Craig G. Cooper
Test Engineer

Reviewed by: _____

Robert J. Menchetti
Robert J. Menchetti
Director of Laboratory Facilities
& Testing Services

The results reported above apply to specific samples submitted for measurement. No responsibility is assumed for performance of any other specimen. This report may not be reproduced except in full, without the written approval of the laboratory. The laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.



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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 1/4 in. x 3/8 in. square. 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 .303 in.) Platinum Ceramic glazed ceramic tile installed using LATICRETE® 125 Sound and Crack Adhesive applied with a 6.3mm x 9.5mm (1/4 in. x 3/8 in.) sq. notch trowel and LATICRETE® SpectraLOCK® PRO Grout. Adhesive mixture was 3.125 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: NGC7009143					Date: 12/31/2009	
Specimen Size [m ²]: 17.8					Page 3 of 4	
Source room			Receiving room			
Rm Temp [°C]: 17			Volume [m ³]: 63.9			
Humidity [%]: 33			Rm Temp [°C]: 16.5			
			Humidity [%]: 66			
Impact Insulation Class IIC [dB]:			42			
Sum of Unfavorable Deviations [dB]:			30			
Max. Unfavorable Deviation [dB]:			8 at 2500 Hz			
Frequency [Hz]	L _n [dB]	L ₂ [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL _n
50	58	64.2	15.49	-6.2		1.51
63	58	61.6	23.59	-3.6		1.62
80	56	63.1	11.83	-7.1		2.28
100	61	67.7	13.61	-6.7		4.76
125	65	70.4	3.50	-5.4		2.88
160	67	73.0	3.96	-6.0		2.61
200	66	71.5	3.90	-5.5		1.14
250	69	74.1	3.00	-5.1		0.94
315	67	71.5	3.05	-4.5		0.49
400	68	72.1	2.81	-4.1		0.40
500	67	70.8	2.74	-3.8		0.30
630	67	71.1	2.64	-4.1		0.22
800	66	69.9	2.62	-3.9		0.24
1000	65	68.8	2.43	-3.8		0.33
1250	64	67.3	2.18	-3.3	2	0.25
1600	64	66.8	2.09	-2.8	5	0.14
2000	63	65.5	1.96	-2.5	7	0.20
2500	61	63.7	1.80	-2.7	8	0.30
3150	58	59.7	1.63	-1.7	8	0.43
4000	55	55.9	1.42	-0.9		0.53
5000	51	51.6	1.25	-0.6		0.50

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

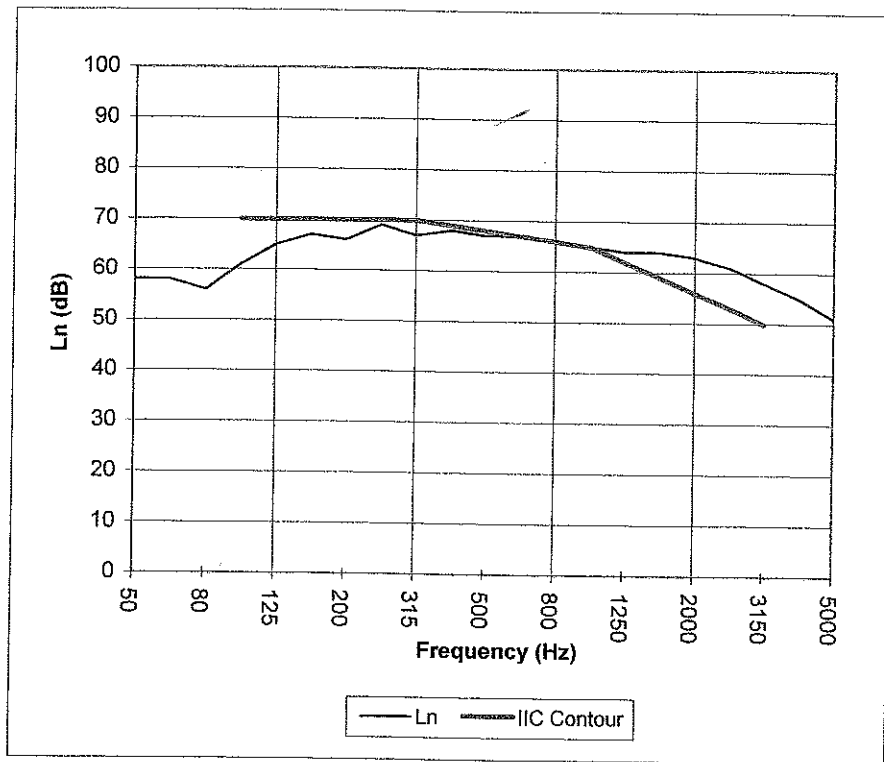
Test Report: NGC7009143

Test Date: 12/31/2009

Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 42

Frequency [Hz]	L _n [dB]
50	58
63	58
80	56
100	61
125	65
160	67
200	66
250	69
315	67
400	68
500	67
630	67
800	66
1000	65
1250	64
1600	64
2000	63
2500	61
3150	58
4000	55
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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