



Acoustical Testing Laboratory



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under Lab Code 200291

TEST REPORT

For

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Impact Sound Transmission Test

ASTM E 492 - 09 / ASTM E 989 - 06

On

**6 Inch (152mm) Concrete Slab Overlaid with
Engineered Hardwood Flooring Adhered with Sikabond-T35 Adhesive over
10mm Impacta-Regupol Probase Underlayment Adhered with Sikabond-T35 Adhesive**

Page 1 of 4


Report Number: NGC 7011093

Assignment Number: G-709


Test Date: 08/08/2011

Report Date: 09/12/2011

Submitted by: _____


Andrew E. Heuer
Test and Quality Engineer

Reviewed by: _____


Robert J. Menchetti
Director

The results reported above apply to specific samples submitted for measurement.
No responsibility is assumed for performance of any other specimen.
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Report Number: NGC 7011093

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 (152mm) Concrete Slab overlaid with, according to client, Engineered wood flooring with Sikabond-T35 adhesive over 10mm Impacta-Regupol Probase underlayment adhered with Sikabond-T35 adhesive.

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

- 1 layer of 13.1mm (0.515 in.) Hard Maple Select V Engineered Hardwood flooring. Samples were 127mm (5 in.) wide, by random length planks. Sample weight was 7.5 kg/m² (1.54 PSF).
- 1 layer of Sikabond-T35 adhesive. Sample was troweled on using client supplied P5 trowel.
- 10mm-Impacta Regupol Probase underlayment, 10.0mm (0.395 in.) thick. Sample weight was 7.7 kg/m² (1.58 PSF).
- 1 layer of Sikabond-T35 adhesive. Sample was troweled on using client supplied P5 trowel.
- 152.4mm (6 in.) thick reinforced concrete slab 366.2 kg/m² (75.0 PSF).

The overall weight of the test assembly is 381.4 kg/m² (78.12 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.

Test Floor Size: 3657.6mm x 4876.8mm (12 ft. x 16 ft.).

Conditioning: Adhesive cured for minimum of 24 hours.
Concrete cured minimum of 28 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: NGC7011093					Date: 8/8/2011	
Specimen Size [m ²]: 17.8					Page 3 of 4	
Source room			Receiving room			
Rm Temp [°C]: 26.5			Volume [m ³]: 63.9			
Humidity [%]: 64			Rm Temp [°C]: 23.5			
			Humidity [%]: 47			
Impact Insulation Class IIC [dB]: 52						
Sum of Unfavorable Deviations [dB]: 32						
Max. Unfavorable Deviation [dB]: 8			at 200 Hz			
Frequency [Hz]	L _n [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL _n
50	57	63.8	13.36	-6.8		3.15
63	57	62.3	16.76	-5.3		1.67
80	56	61.2	16.92	-5.2		1.88
100	60	65.9	16.34	-5.9		3.72
125	63	67.9	3.54	-4.9	3	3.01
160	64	70.1	3.75	-6.1	4	1.55
200	68	73.1	3.48	-5.1	8	0.85
250	67	71.5	3.08	-4.5	7	0.51
315	64	68.9	3.10	-4.9	4	0.60
400	64	69.0	2.92	-5.0	5	0.40
500	59	63.5	2.94	-4.5	1	0.45
630	55	59.5	2.79	-4.5		0.36
800	50	53.8	2.74	-3.8		0.21
1000	44	48.4	2.57	-4.4		0.25
1250	38	41.4	2.21	-3.4		0.20
1600	33	36.3	2.00	-3.3		0.26
2000	28	30.8	1.84	-2.8		0.40
2500	27	29.2	1.67	-2.2		0.27
3150	26	27.3	1.50	-1.3		0.21
4000	25	25.8	1.28	-0.8		0.25
5000	24	24.6	1.12	-0.6		0.22

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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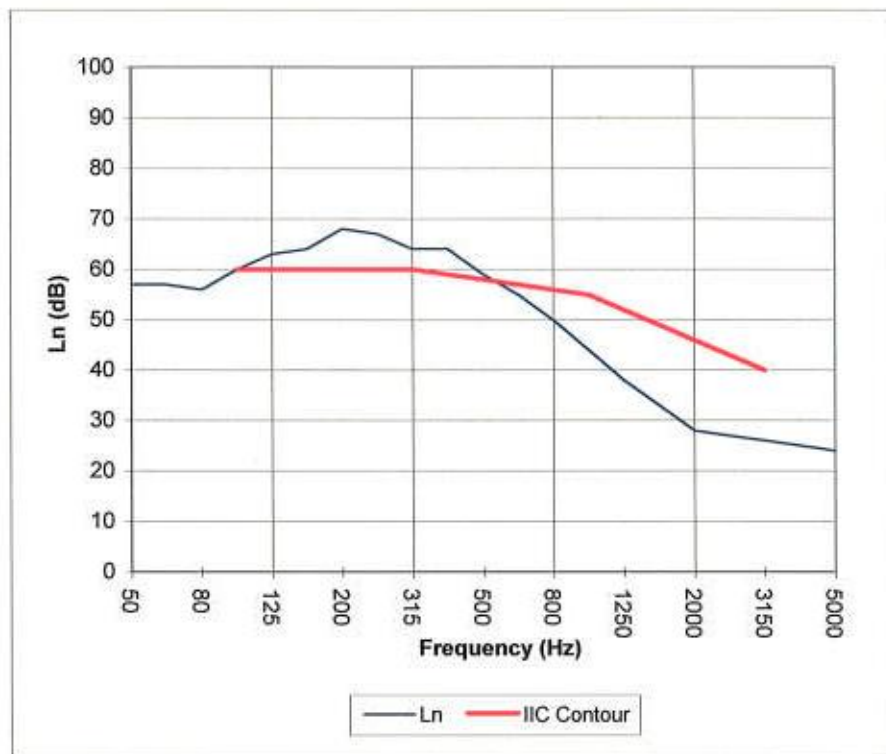
Normalized impact sound pressure level

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

Test Report: NGC7011093
 Test Date: 8/8/2011
 Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 52

Frequency [Hz]	L _n [dB]
50	57
63	57
80	56
100	60
125	63
160	64
200	68
250	67
315	64
400	64
500	59
630	55
800	50
1000	44
1250	38
1600	33
2000	28
2500	27
3150	26
4000	25
5000	24



* 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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