



Acoustical Testing Laboratory



Accredited by the National Voluntary
Laboratory Accreditation Program
for the specific scope of accreditation
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
5mm Impacta-Regupol Probase Underlayment Adhered with Sikabond-T35 Adhesive**

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Report Number: NGC 7011088

Assignment Number: G-709


Test Date: 07/28/2011

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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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 5mm 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.
- 5mm-Impacta Regupol Probase underlayment, 5.18mm (0.204 in.) thick. Sample weight was 3.7 kg/m² (0.76 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 377.4 kg/m² (77.30 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						
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Test Report: NGC7011088			Date: 7/28/2011			
Specimen Size [m ²]: 17.8						
Source room			Receiving room			
Rm Temp [°C]: 27			Volume [m ³]: 63.9			
Humidity [%]: 52			Rm Temp [°C]: 24			
			Humidity [%]: 47			
Impact Insulation Class IIC [dB]: 51						
Sum of Unfavorable Deviations [dB]: 30						
Max. Unfavorable Deviation [dB]: 8			at 200 Hz			
Frequency [Hz]	L _n [dB]	L ₂ [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL _n
50	58	64.1	15.34	-6.1		2.92
63	57	61.9	18.57	-4.9		1.64
80	56	62.1	14.54	-6.1		1.92
100	60	66.1	16.19	-6.1		3.23
125	64	70.0	4.04	-6.0	3	3.49
160	64	70.1	3.98	-6.1	3	1.89
200	69	74.3	3.81	-5.3	8	0.99
250	67	71.5	3.18	-4.5	6	0.82
315	64	69.1	3.23	-5.1	3	0.57
400	65	69.5	2.92	-4.5	5	0.28
500	61	65.4	2.87	-4.4	2	0.38
630	58	62.0	2.69	-4.0		0.33
800	53	57.5	2.56	-4.5		0.29
1000	49	52.5	2.41	-3.5		0.24
1250	41	44.6	2.14	-3.6		0.24
1600	35	38.2	2.00	-3.2		0.31
2000	29	31.8	1.82	-2.8		0.30
2500	25	27.2	1.66	-2.2		0.28
3150	20	22.6	1.49	-2.6		0.37
4000	19	20.9	1.28	-1.9		0.60
5000	16	17.2	1.12	-1.2		0.56
<p>L_n = Normalized Sound Pressure Level, dB L₂ = Receiving Room Level, dB d = Decay Time, dB/second ΔL_n = Uncertainty for 95% Confidence Level</p>						

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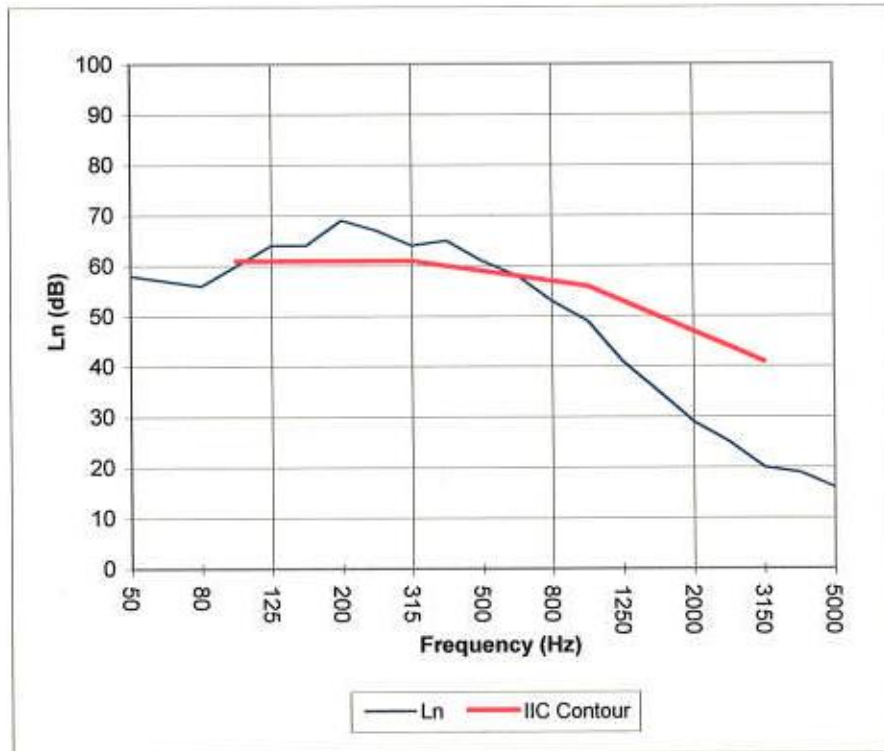
Normalized impact sound pressure level

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

Test Report: NGC7011088
 Test Date: 7/28/2011
 Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 51

Frequency [Hz]	L_n [dB]
50	58
63	57
80	56
100	60
125	64
160	64
200	69
250	67
315	64
400	65
500	61
630	58
800	53
1000	49
1250	41
1600	35
2000	29
2500	25
3150	20
4000	19
5000	16



* 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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