



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

**8 Inch (203mm) 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 7011098

Assignment Number: G-709

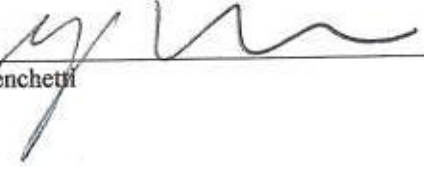
Test Date: 08/15/2011

Report Date: 09/13/2011

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.
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Report Number: NGC 7011098

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: 8 inch (203mm) 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.
- 203.2mm (8 in.) thick reinforced concrete slab 488.2 kg/m² (100.0 PSF).

The overall weight of the test assembly is 499.6 kg/m² (102.3 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: NGC7011098						Page 3 of 4
Specimen Size [m ²]: 17.8						Date: 8/15/2011
Source room			Receiving room			
Rm Temp [°C]: 24			Volume [m ³]: 63			
Humidity [%]: 64			Rm Temp [°C]: 23			
Impact Insulation Class IIC [dB]: 53				Humidity [%]: 49		
Sum of Unfavorable Deviations [dB]: 32						
Max. Unfavorable Deviation [dB]: 7			at 315 Hz			
Frequency [Hz]	L _n [dB]	L2 [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL _n
100	62	67.6	16.2	-5.6	3	2.98
125	57	62.1	18.3	-5.1		2.39
160	64	70.2	15.1	-6.2	5	2.32
200	62	68.2	15.5	-6.2	3	0.97
250	64	69.3	18.9	-5.3	5	0.72
315	66	71.1	18.4	-5.1	7	0.57
400	64	68.5	19.8	-4.5	6	0.43
500	60	64.4	20.8	-4.4	3	0.27
630	55	59.0	22.2	-4.0		0.28
800	49	53.6	22.9	-4.6		0.31
1000	44	47.3	24.8	-3.3		0.16
1250	38	41.5	27.5	-3.5		0.18
1600	34	36.6	30.3	-2.6		0.22
2000	29	31.2	33.2	-2.2		0.26
2500	25	27.5	35.8	-2.5		0.53
3150	23	25.1	39.9	-2.1		0.66
4000	22	24.0	44.9	-2.0		0.53
5000	21	22.2	51.5	-1.2		0.66

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

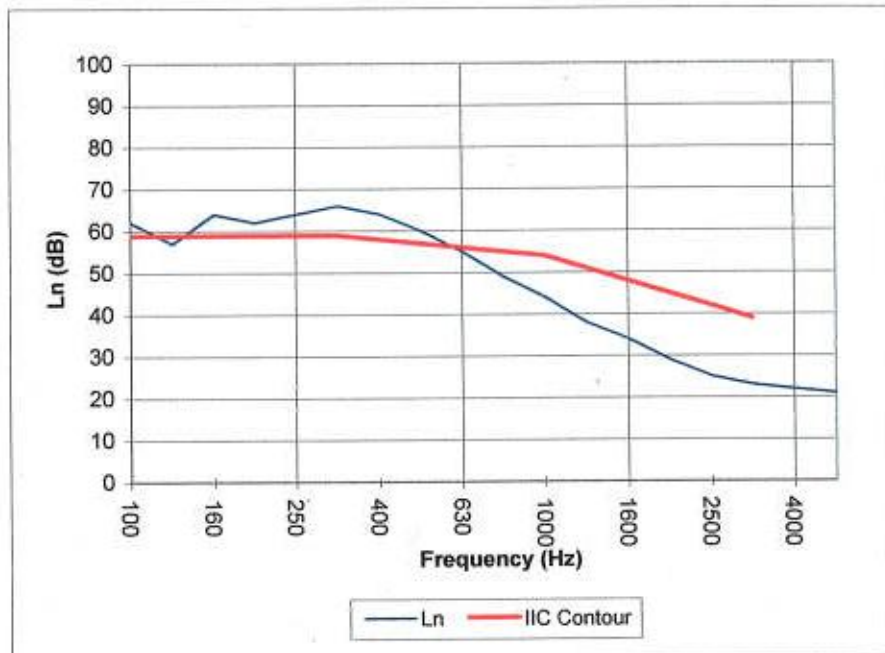
Test Report: NGC7011098

Test Date: 8/15/2011

Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 53

Frequency [Hz]	L _n [dB]
100	62
125	57
160	64
200	62
250	64
315	66
400	64
500	60
630	55
800	49
1000	44
1250	38
1600	34
2000	29
2500	25
3150	23
4000	22
5000	21



* 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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