

TEST REPORT

for

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Impact Sound Transmission Test

ASTM E 492 – 09 / ASTM E 989 – 06

On

**6 Inch Concrete Slab Floor – Ceiling Assembly
Overlaid with 1 layer of Regupol Vibration 300 (17 mm)
and a 4 Inch Concrete Slab**

Report Number: NGC 7016085

Assignment Number: G-1296

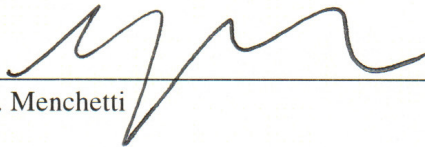
Test Date: 05/11/2016

Report Approval Date: 05/19/2016

Submitted by:


Anthony J. Rivers
Test Technician

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. The laboratory's accreditation or any of its test reports in no way constitute or imply product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government. This report may not be reproduced except in full, without written approval of the laboratory.

Revision Summary:

Date	SUMMARY
Approval Date: 05/19/2016	Original issue date: 05/19/2016 Original NGCTS report #: NGC 7016085

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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 concrete slab floor-ceiling assembly, overlaid with according to client, 1 layer of Regupol Vibration 300 (17 mm) and a 4 inch concrete slab.

The test specimen was a floor-ceiling assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 101.6 mm (4 in.) thick reinforced concrete slab, weighing: 223.30 kg/m² (45.74 PSF)
- 1 layer of, according to the client, Regupol Vibration 300 (17 mm). The Regupol Vibration 300 (17 mm) was floating on the 6 inch concrete slab. Measured thickness: 18.03 mm (0.71 in.). Measured weight: 7.23 kg/m² (1.48 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.15 kg/m² (75.0 PSF)

The overall weight of the test assembly is: 596.68 kg/m² (122.22 PSF)

The perimeter of the test frame was sealed with a rubber gasket and a sand filled trough.

The test frame was structurally isolated from the receiving room.

Specimen size: 3657.6 mm x 4876.8 mm (12 ft. x 16 ft.)

Conditioning: Concrete slab cured for a minimum of 28 days.

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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Normalized impact sound pressure level						
Test: ASTM E 492 - 09 / ASTM E 989 - 06						
Test Report: NGC7016085					Date: 5/11/2016	
Specimen Size [m ²]: 17.8					Page 4 of 5	
Source room			Receiving room			
Rm Temp [°C]: 20			Volume [m ³]: 128			
Humidity [%]: 60			Rm Temp [°C]: 20			
			Humidity [%]: 60			
Impact Insulation Class IIC [dB]:			61			
Sum of Unfavorable Deviations [dB]:			27			
Max. Unfavorable Deviation [dB]:			8 at 160 Hz			
Frequency	L _n	L2	d	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
80	58	58.1	30.22	-0.1		1.98
100	54	55.8	21.70	-1.8	3	2.80
125	57	58.6	18.06	-1.6	6	0.91
160	59	61.4	16.48	-2.4	8	1.01
200	55	58.4	13.60	-3.4	4	0.90
250	55	57.5	15.60	-2.5	4	0.80
315	53	56.3	14.27	-3.3	2	0.71
400	50	52.7	15.73	-2.7		0.45
500	46	48.2	17.05	-2.2		0.28
630	44	46.2	17.20	-2.2		0.50
800	41	43.5	17.28	-2.5		0.32
1000	40	41.9	16.64	-1.9		0.32
1250	38	40.5	17.96	-2.5		0.56
1600	38	39.6	19.52	-1.6		0.59
2000	33	34.3	21.89	-1.3		0.61
2500	28	29.1	23.90	-1.1		0.79
3150	23	24.5	25.84	-1.5		0.72
4000	23	22.5	29.86	0.5		0.99
5000	19	19.3	34.39	-0.3		1.20
L _n = Normalized Sound Pressure Level, dB L2 = Receiving Room Level, dB d = Decay Rate, dB/second ΔL _n = Uncertainty for 95% Confidence Level						

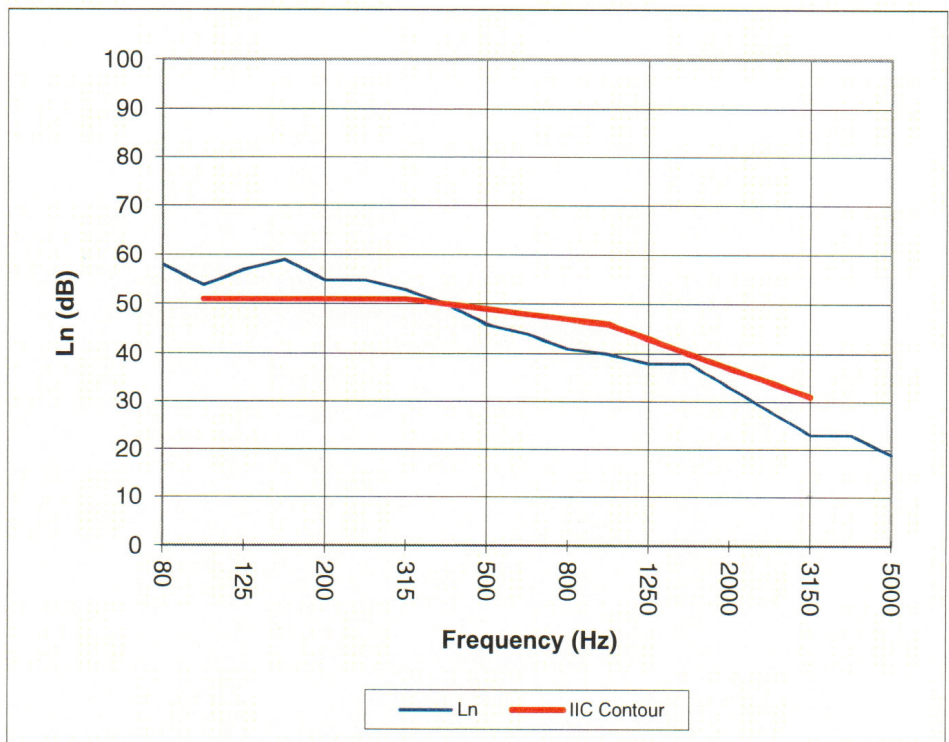
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Normalized impact sound pressure level
 Test: ASTM E 492 - 09 / ASTM E 989 - 06

Test Report: NGC7016085
 Test Date: 5/11/2016
 Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 61

Frequency [Hz]	L _n [dB]
80	58
100	54
125	57
160	59
200	55
250	55
315	53
400	50
500	46
630	44
800	41
1000	40
1250	38
1600	38
2000	33
2500	28
3150	23
4000	23
5000	19



* 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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