

TEST REPORT

for

Regupol America LLC

11 Ritter Way

Lebanon, PA 17042

Florian Sassmannshausen / 717-675-2190

Impact Sound Transmission Test

ASTM E 492 – 09 / ASTM E 989 – 06

On

**6 Inch Concrete Slab Floor – Ceiling Assembly
Overlaid with 3 layers of Regupol Vibration 200 (17 mm)
and a 4 Inch Concrete Slab**

Report Number: NGC 7016080

Assignment Number: G-1296

Test Date: 05/09/2016

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 7016080

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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, 3 layers of Regupol Vibration 200 (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)
- 3 layers of, according to the client, Regupol Vibration 200 (17 mm). The Regupol Vibration 200 (17 mm) was floating on the 6 inch concrete slab. Measured thickness: 54.86 mm (2.16 in.). Measured weight: 15.52 kg/m² (3.18 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: 604.98 kg/m² (123.92 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: NGC7016080				Date: 5/9/2016		Page 4 of 5
Specimen Size [m ²]: 17.8						
Source room				Receiving room		
Rm Temp [°C]: 19				Volume [m ³]: 128		
Humidity [%]: 63				Rm Temp [°C]: 19		
				Humidity [%]: 63		
Impact Insulation Class IIC [dB]: 70						
Sum of Unfavorable Deviations [dB]: 29						
Max. Unfavorable Deviation [dB]: 7				at 160 Hz		
Frequency	L _n	L ₂	d	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
80	54	54.3	28.63	-0.3		0.83
100	46	47.4	20.12	-1.4	4	1.93
125	48	50.6	16.95	-2.6	6	1.35
160	49	51.1	16.01	-2.1	7	1.01
200	47	50.5	14.44	-3.5	5	0.46
250	45	47.4	15.16	-2.4	3	1.08
315	40	43.3	14.67	-3.3		0.63
400	39	41.4	15.91	-2.4		0.48
500	37	39.4	16.85	-2.4		0.36
630	36	38.7	16.99	-2.7		0.48
800	35	37.6	16.92	-2.6		0.81
1000	31	33.6	16.96	-2.6		0.67
1250	30	32.1	18.21	-2.1		0.55
1600	34	36.1	19.81	-2.1	3	0.57
2000	28	29.6	22.09	-1.6		0.74
2500	26	26.4	24.36	-0.4	1	0.66
3150	22	22.8	26.01	-0.8		0.77
4000	13	15.3	29.68	-2.3		1.02
5000	11	12.4	34.12	-1.4		1.05
L _n = Normalized Sound Pressure Level, dB L ₂ = 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

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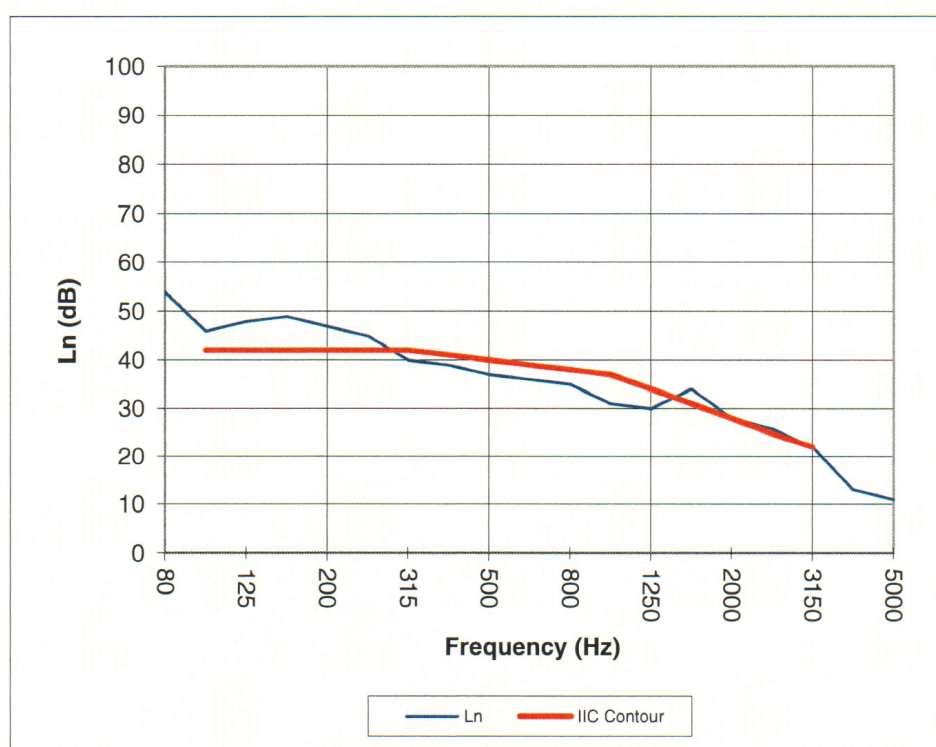
Test Date: 5/9/2016

Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 70

Frequency	L _n
[Hz]	[dB]
80	54
100	46
125	48
160	49
200	47
250	45
315	40
400	39
500	37
630	36
800	35
1000	31
1250	30
1600	34
2000	28
2500	26
3150	22
4000	13
5000	11

* 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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