

Acoustical Testing Laboratory



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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 300 (17 mm) and a 4 Inch Concrete Slab

Report Number:

NGC 7016083

Assignment Number:

G-1296

Test Date:

05/10/2016

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.



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Revision Summary:

Date	SUMMARY
Approval Date: 05/19/2016	Original issue date: 05/19/2016
	Original NGCTS report #: NGC 7016083

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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 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)

- 3 layers 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: 54.10 mm (2.13 in.). Measured weight: 21.68 kg/m² (4.44 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: 611.13 kg/m² (125.18 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

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Specimen Size [m²]: 17.8 Date: 5/10/2016

Source room

Receiving room

Rm Temp [°C]: 19

Volume [m³]: 128 Rm Temp [°C]: 19

Humidity [%]: 58

Humidity [%]:

Impact Insulation Class IIC [dB]: 67

Sum of Unfavorable Deviations [dB]: 28

Hz

Max. Unfavorable Deviation [dB]: 8 250 at L2 d Frequency Ln Corr. u.Dev. ΔL_n [Hz] [dB] [dB] [dB/s] [dB] [dB] 52 80 52.3 27.74 -0.3 0.70 100 48 49.2 20.36 -1.2 3 2.31 125 48 50.8 14.94 -2.8 3 1.15 160 52 54.8 16.27 -2.8 7 0.99 200 49 52.1 14.37 -3.1 4 0.75 250 53 55.2 16.13 -2.2 8 0.93 315 48 51.2 15.17 -3.23 0.51 400 44 46.7 16.39 -2.7 0.38 500 37 40.3 16.97 -3.30.59 630 17.07 35 36.8 -1.8 0.72 800 32 34.3 17.05 -2.3 0.93 1000 27 30.7 16.82 -3.70.66 1250 27 30.0 18.17 -3.0 0.79 1600 28 30.0 19.83 -2.0 0.84 26 2000 27.0 21.80 -1.0 0.74 2500 24 25.0 24.15 -1.0 0.82 17 3150 18.9 26.09 -1.9 0.99 4000 14 15.4 29.98 -1.4 1.23 5000 14.4 34.95 -0.4 1.27

> = Normalized Sound Pressure Level, dB Ln

L2 = Receiving Room Level, dB = Decay Rate, dB/second d

= Uncertainty for 95% Confidence Level ΔL_n

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Normalized impact sound pressure level

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

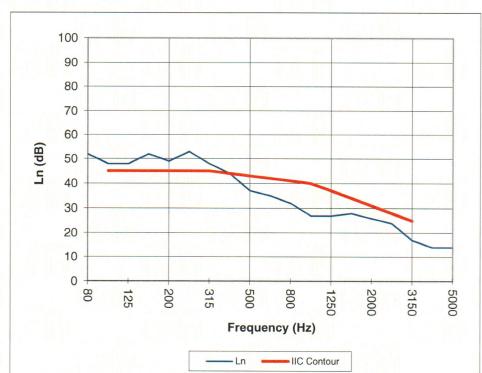
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Test Report: NGC7016083 Test Date: 5/10/2016

Specimen Size [m2]: 17.8

Impact Insulation Class IIC [dB]: 67

Frequency	L _n
[Hz]	[dB]
80	52
100	48
125	48
160	52
200	49
250	53
315	48
400	44
500	37
630	35
800	32
1000	27
1250	27
1600	28
2000	26
2500	24
3150	17
4000	14
5000	14



Due to high insulating value of specimen, background levels limit results at these frequencies.

= Normalized Sound Pressure Level, dB

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