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Acoustical Testing Laboratory

NVLAP

Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 200291

TEST REPORT

For

Specialized Supplies & Services Inc.
PO box 650515
Miami. Florida. 33265
Ozzie Lopez / 305-724-7366

Impact Sound Transmission Test

ASTM E 492 – 90 / ASTM E 989 - 89

On

8" Concrete Slab Covered with Porcelain Tile over SFR0006 Underlayment

Report Number: NGC 7016069

Assignment Number: G-129

Test Date: 05/22/2002

Report Date: 04/01/2016

Submitted by: _____
Andrew E. Heuer
Senior Test Engineer

Reviewed by: _____
Robert J. Menchetti
Director

1650 Military Road • Buffalo, NY 14217-1198
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Revision Summary:

Date	SUMMARY
Approval Date: 04/01/2016	Original issue date: 04/01/2016 Original NGCTS report: NGC 7016069, this report corresponds to the original test report: NGC 7002032

Report Number: NGC 7016069

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" Concrete slab covered with, according to client; porcelain tile over SFR0006 underlayment.

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

- 1 layer of 8"x 8"x 5/16" porcelain tile (3.49 PSF) installed using standard mortar and grout mixtures (0.50 PSF)
- 1 layer of SFR0006 underlayment. (0.95 PSF)
- 8" thick reinforced concrete slab (85.6 PSF)

The overall weight of the test assembly is: 442.02 kg/m^2 (90.54 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. Tile, mortar, and grout cured for a minimum of 7 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 - 90 / ASTM E 989 - 89

Test Number: NGC 7016069 Date: 5/22/2002
Size: 17.84 m²

Source room
Temperature [°C]: 18.5
Humidity [%]: 43

Receiving room
Volume V = 45.71 m³
Temperature [°C]: 18.9
Humidity [%]: 63

Impact Insulation Class IIC = 52 dB

Sum of unfavourable deviations: 30.0 dB
Max. unfavourable deviation: 6.0 dB at 200 Hz

Frequency [Hz]	L_n [dB]	L2 [dB]	T [s]	Corr. [dB]	u.Dev. [dB]	ΔL_n
100	54.0	59.1	2.26	-5.1	-.-	0.179
125	58.0	63.2	2.70	-5.2	-.-	0.363
160	62.0	67.2	2.59	-5.2	2.0	0.295
200	66.0	71.7	2.83	-5.7	6.0	0.105
250	61.0	66.5	2.84	-5.5	1.0	0.126
315	66.0	71.5	2.85	-5.5	6.0	0.086
400	63.0	68.7	2.73	-5.7	4.0	0.084
500	63.0	68.4	2.62	-5.4	5.0	0.105
630	62.0	67.3	2.32	-5.3	5.0	0.058
800	57.0	62.7	2.56	-5.7	1.0	0.041
1000	54.0	58.6	2.34	-4.6	-.-	0.063
1250	52.0	56.1	1.97	-4.1	-.-	0.050
1600	47.0	51.3	1.80	-4.3	-.-	0.051
2000	42.0	45.5	1.64	-3.5	-.-	0.041
2500	39.0	41.6	1.47	-2.6	-.-	0.043
3150	34.0	36.4	1.35	-2.4	-.-	0.037
4000	31.0	32.8	1.19	-1.8	-.-	0.049
5000	29.0	30.4	1.08	-1.4	-.-	0.051

L_n = Normalized Sound Pressure Level, dB
L2 = Receiving Room Level, dB
T = Reverberation Time, seconds
ΔL_n = Uncertainty for 95% Confidence Level

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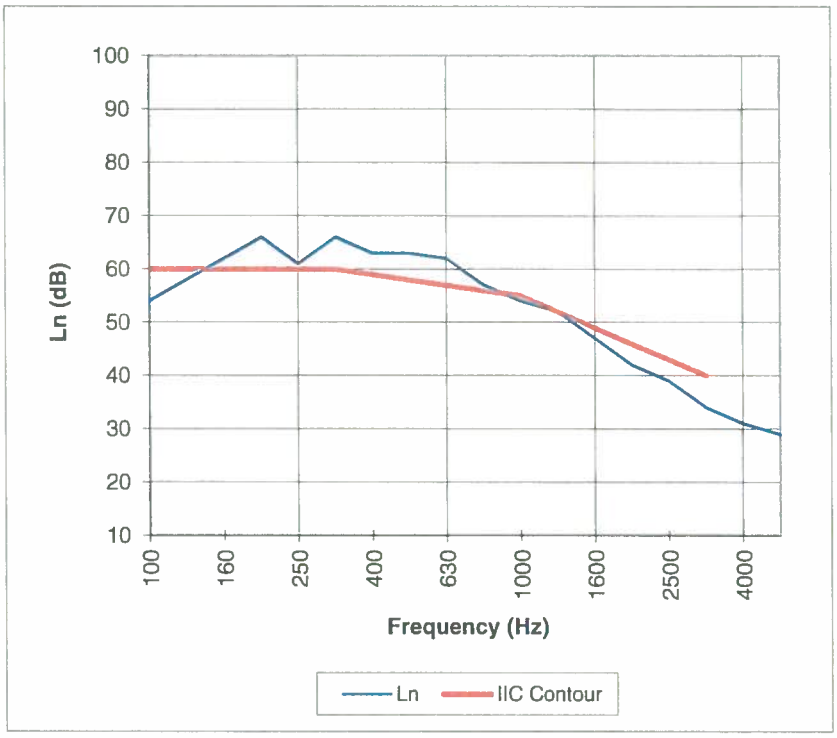
Normalized impact sound pressure level

Test: ASTM E 492 - 90 / ASTM E 989 - 89

Test Number: NGC 7016069 Date: 5/22/2002

Impact Insulation Class IIC = 52 dB

Frequency [Hz]	L_n [dB]
100	54
125	58
160	62
200	66
250	61
315	66
400	63
500	63
630	62
800	57
1000	54
1250	52
1600	47
2000	42
2500	39
3150	34
4000	31
5000	29



* 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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