

TEST REPORT

for

CAC Group Investment LLC

12879 SW 62 Lane
Miami, FL 33183
Carlos Gaitan / 786-285-6005

Impact Sound Transmission Test

ASTM E 492 – 09 (2016) / ASTM E 989 – 06 (2012)

On

**8 Inch (203 mm) Concrete Slab Floor- Ceiling Assembly
Overlaid Ceramic Tile and SoundMiami SM05MM Rubber Underlayment**

Report Number: NGC 7019171_R1

Assignment Number: G-1653

Test Date: 12/26/2019

Report Revision Date: 03/25/2020

Submitted by:

Anthony J. Rivers
Test Technician

Reviewed by:

Robert J. Menchetti
Director

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Revision Summary:

Date	SUMMARY
Approval Date: 01/03/2020	Original issue date: 01/03/2020 Original NGCTS report: NGC 7019171
Reissue Date: 03/25/2020	Report #: NGC 7019171_R1 The report was revised to correct a typographical error

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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 (2016) / E 989-06 (2012).

The uncertainty limits of each tapping machine location met the precision requirements of section A1.4 of ASTM E 492-09 (2016).

Specimen Description: 8 inch concrete slab floor-ceiling assembly overlaid with, according to client, Ceramic Tile over SoundMiami SM05MM Rubber 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, according to client, Ceramic Tile. The tile was adhered to the SoundMiami SM05MM Rubber Underlayment using Versabond mortar. The mortar was applied using a 6.35 mm x 9.53 mm x 6.35 mm (1/4 in. x 3/8 in. x 1/4 in.) square notch trowel. The tile was grouted using Mapei Keracolor S grout. The measured thickness of the tile was 8.13 mm (0.32 in.), Measured weight of 17.43 kg/m² (3.57 PSF)
- 1 layer of, according to client, SoundMiami SM05MM Rubber Underlayment. The underlayment was adhered to the concrete slab using SMCAC08 Multi-Purpose adhesive. The adhesive was applied using a 4.76 mm x 3.97 mm (3/16 in. x 5/32 in.) square notch trowel. The measured thickness of the underlayment was 5.08 mm (0.20 in.), Measured weight of 3.81 kg/m² (0.78 PSF)
- 203.2 mm (8 in.) thick reinforced concrete slab, weighing: 488.2 kg/m² (100.0 PSF)

The overall weight of the test assembly is: 509.44 kg/m² (104.35 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. Adhesive cured a minimum of 24 hours.

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 (2016) / ASTM E 989 - 18						
Test Report: NGC7019171_R1				Date: 12/26/2019		
Specimen Size [m²]: 17.8						
Source room				Receiving room		
Rm Temp [°C]: 25				Volume [m³]: 128		
Humidity [%]: 55				Rm Temp [°C]: 23		
				Humidity [%]: 55		
Impact Insulation Class IIC [dB]: 52						
Sum of Unfavorable Deviations [dB]: 32						
Max. Unfavorable Deviation [dB]: 6				at 2500 Hz		
Frequency	L _n	L ₂	d	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
80	56	56.0	26.59	0.0		2.22
100	57	58.0	24.14	-1.0		1.76
125	61	63.2	19.47	-2.2		0.98
160	64	67.0	15.89	-3.0	1	1.07
200	62	65.5	13.83	-3.5		1.06
250	63	65.8	16.00	-2.8		0.59
315	67	69.5	15.10	-2.5	4	0.95
400	63	65.7	17.09	-2.7	1	0.55
500	64	66.0	18.46	-2.0	3	0.51
630	63	64.6	19.59	-1.6	3	0.46
800	60	61.9	20.06	-1.9	1	0.73
1000	62	63.5	20.00	-1.5	4	0.71
1250	58	59.8	20.44	-1.8	3	0.57
1600	52	53.8	21.59	-1.8		0.47
2000	50	51.0	23.58	-1.0	1	0.42
2500	52	52.1	25.85	-0.1	6	0.48
3150	48	48.0	28.22	0.0	5	0.69
4000	38	37.6	32.59	0.4		0.62
5000	31	30.4	36.19	0.6		0.86

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 (2016) / ASTM E 989 - 18

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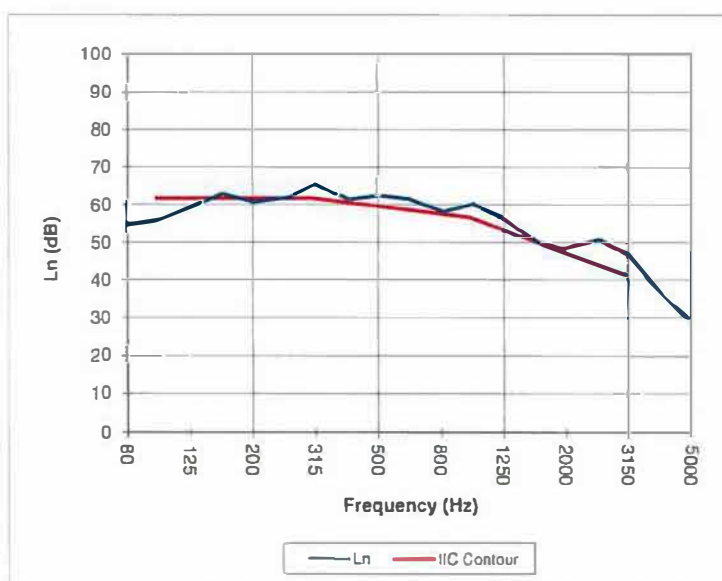
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Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 52

Frequency	L_n
[Hz]	[dB]
80	56
100	57
125	61
160	64
200	62
250	63
315	67
400	63
500	64
630	63
800	60
1000	62
1250	58
1600	52
2000	50
2500	52
3150	48
4000	38
5000	31



* 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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