

Acoustical Testing Laboratory



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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 SM12MM Rubber Underlayment

Report Number: NGC 7017446

Assignment Number: G-1551

Test Date: 08/24/2020

Report Revision Date: 08/27/2020

Submitted by:

Anthony J. Rivers Test Technician

Reviewed by:

Robert J. Menchetti

Director

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Revision Summary:

Date	SUMMARY
Approval Date: 24/08/2020	Original issue date: 04/19/2020 Original NGCTS report: NGC 7017446

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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

SM12MM 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 SM12 MM 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 SM12MM 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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Test Report: Specimen Size		7446 17.8		Date: 24/0		Page 4 of 5
Source room Rm Temp [°C]: 18.7 Humidity [%]: 60				Receiving room Volume [m³]: 128 Rm Temp [°C]: 19.8 Humidity [%]: 61		
mpact Insulat Sum of Unfavorab Max. Unfavorable	le Deviations (d	dB]: 29	5 at	100 Hz		
Frequency	L,	L2	T	Corr.	u.Dev.	ΔL _a
[Hz]	[dB]	[d8]	[8]	[dB]	[dB]	
100	63.0	68.6	2.75	-5.6	6.0	0.232
125	60.0	65.2	2.59	-5.2	3.0	0.328
160	63.0	69.7	3.12	-6.7	6.0	0.340
200	63.0	68.8	3.03	-5.8	6.0	0.169
250	58.0	64.4	2.99	-6.4	1.0	0.172
315	61.0	67.2	2.91	-6.2	4.0	0.122
400	56.0	62.0	2.90	-6.0	-,-	0.117
500	54.0	59.3	2.71	-5.3	4.5	0.075
630	52.0	57.3	2.37	-5.3		0.097
800	48.0	53.4	2.43	-5.4	-,-	0.066
1000	53.0	57.7	2.26	-4.7	1.0	0.059
1250	51.0	55.8	2.03	-4.8	2.0	0.042
1600	44.0	48.0	1.96	-4.0	-,-	0.044
2000	37.0	41.1	1.86	-4.1		0.044
2500	34.0	38.1	1.66	-4.1	*.*	0.046
3150	31.0	34.7	1.50	-3.7		0.046
4000	28.0	31.1	1.35	-3.1	-,-	0.050
5000	24.0	26.2	1.21	-2.2	7,7	0.048

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TESTING NVLAP LAB CODE 2()0291-0

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Normalized impact sound pressure level

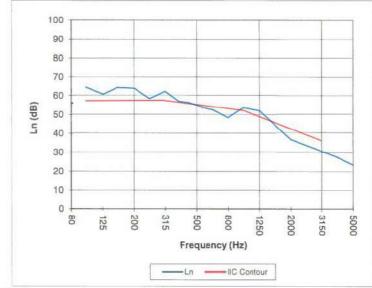
Test: ASTM E 492 - 09 (2016) / ASTM E 989 - 18

Test Report: NGC 7017446

Test Date: 24/08/2020 Specimen Size [m²]:

Impact Insulation Class IIC [dB]: 55

Frequency	Ln	
[Hz]	[dB]	
100	63	
125	60	
160	63	
200	63	
250	58	
315	61	
400	56	
500	54	
630	52	
800	48	
1000	53	
1250	51	
1600	44	
2000	37	
2500	34	
3150	31	
4000	28	
5000	24	



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

= Normalized Sound Pressure Level, dB

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