

TEST REPORT

for

CAC Group Investment LLC

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Miami, FL 33183
Carlos Gaitan / 786-285-6005

Sound Transmission Loss Test

ASTM E 90 – 09 (2016) / E 413 – 16

On

**8 Inch (203 mm) Concrete Slab Floor- Ceiling Assembly
Overlaid Ceramic Tile and SoundMiami SM10MM Rubber Underlayment**

Report Number: NGC 501941_R1

Assignment Number: G-1653

Test Date: 12/26/2019

Report Revision Date: 03/25/2020

Submitted by:

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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: 01/03/2020	Original issue date: 01/03/2020 Original NGCTS report: NGC 501941
Reissue Date: 03/25/2020	Report #: NGC 501941_R1 The report was revised to correct a typographical error

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Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements – Designation: E 90 – 09 (2016) / E 413 - 16.

Specimen Description: 8 inch concrete slab floor-ceiling assembly overlaid with, according to client, Ceramic Tile over SoundMiami SM10MM 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 SM10MM 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 SM10MM 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 9.8 mm (0.41 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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Sound Transmission Loss Test Data							
Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16							
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Specimen Size [m²]:		17.8					
Source room				Receiving room			
Volume [m³]: 83.5		Volume [m³]: 124					
Rm Temp [°C]: 25		Rm Temp [°C]: 22					
Humidity [%]: 50		Humidity [%]: 55					
Sound Transmission Class STC [dB]: 55							
Sum of Unfavorable Deviations [dB]: 14							
Max. Unfavorable Deviation [dB]: 8		at		125 Hz			
Frequency	STL	L1	L2	d	Corr.	u.Dev.	ΔSTL
[Hz]	[dB]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
80	34	102.7	71.2	27.8	2.5		4.53
100	34	103.0	73.3	22.2	4.3		5.71
125	28	105.0	80.8	20.0	3.8	8	2.20
160	41	106.5	70.5	15.5	5.0		1.55
200	45	107.5	68.1	14.4	5.6		1.77
250	47	104.8	63.3	16.2	5.5		1.08
315	45	101.5	61.9	15.9	5.4	3	0.62
400	49	101.0	57.0	17.6	5.0	2	1.23
500	51	101.8	54.8	19.1	4.0	1	0.65
630	54	102.6	53.0	19.6	4.4		0.85
800	56	101.5	49.9	20.3	4.4		1.06
1000	59	99.2	44.9	19.8	4.7		0.94
1250	61	97.2	40.1	20.2	4.0		0.77
1600	63	98.2	39.0	21.7	3.9		0.82
2000	63	99.5	39.7	23.8	3.2		1.18
2500	65	101.2	39.3	25.9	3.1		1.14
3150	69	100.7	34.4	27.9	2.8		1.36
4000	74	97.9	26.3	32.4	2.4		1.57
5000	78	91.4	15.1	36.5	1.7		1.95
STL = Sound Transmission Loss, dB L1 = Source Room Level, dB L2 = Receiving Room Level, dB d = Decay Rate dB/second Δ STL = Uncertainty for 95% Confidence Level							

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Sound Transmission Loss Test Data

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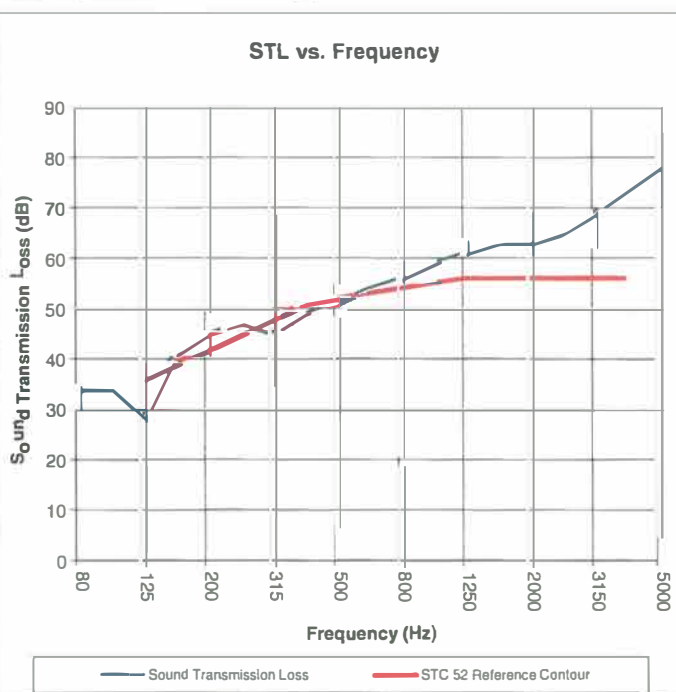
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Specimen Size [m²]: 17.8

Sound Transmission Class STC = 55 dB

Frequency [Hz]	STL [dB]	ΔSTL
80	34	4.53
100	34	5.71
125	28	2.20
160	41	1.55
200	45	1.77
250	47	1.08
315	45	0.62
400	49	1.23
500	51	0.65
630	54	0.85
800	56	1.06
1000	59	0.94
1250	61	0.77
1600	63	0.82
2000	63	1.18
2500	65	1.14
3150	69	1.36
4000	74	1.57
5000	78	1.95



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

STL = Sound Transmission Loss, dB
 Δ STL = Uncertainty for 95% Confidence Level

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