

TEST REPORT

for

CAC Group Investment LLC

12879 SW 62 Lane

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 SM12MM Rubber Underlayment**

Report Number: NGC 6038921

Assignment Number: G-1764

Test Date: 24/08/2020

Report Revision Date: 27/08/2020

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.

Revision Summary:

Date	SUMMARY
Approval Date: 24/08/2020	Original issue date: 04/19/2020 Original NGCTS report: NGC 6038921

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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 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 SM12MM 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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Sound Transmission Loss Test Data							
Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16							
Test Report:		6038921		Date:		24/08/2019	
Specimen Size [m²]:		17.8					
Source room				Receiving room			
Volume [m³]:		83.5		Volume [m³]:		124	
Rm Temp [°C]:		21.5		Rm Temp [°C]:		19.8	
Humidity [%]:		58		Humidity [%]:		61	
Sound Transmission Class STC [dB]:				57			
Sum of Unfavorable Deviations [dB]:				29			
Max. Unfavorable Deviation [dB]:				8 at 200 Hz			
Frequency	STL	L1	L2	d	Corr.	u.Dev.	ΔSTL
[Hz]	[dB]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
80	43	109	65				3.30
100	41	111	71				2.40
125	41	112	73			0	1.70
160	38	112	76			6	1.70
200	39	108	70			8	1.50
250	43	107	64			7	0.80
315	48	111	65			5	0.90
400	53	107	56			3	0.40
500	59	105	49				0.40
630	63	107	46				0.30
800	63	106	46				0.30
1000	64	106	45				0.40
1250	67	106	42				0.30
1600	66	106	43				0.30
2000	66	106	42				0.40
2500	67	105	41				0.30
3150	68	105	37				0.50
4000	72	105	33				0.40
5000	74	104	30				0.50
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

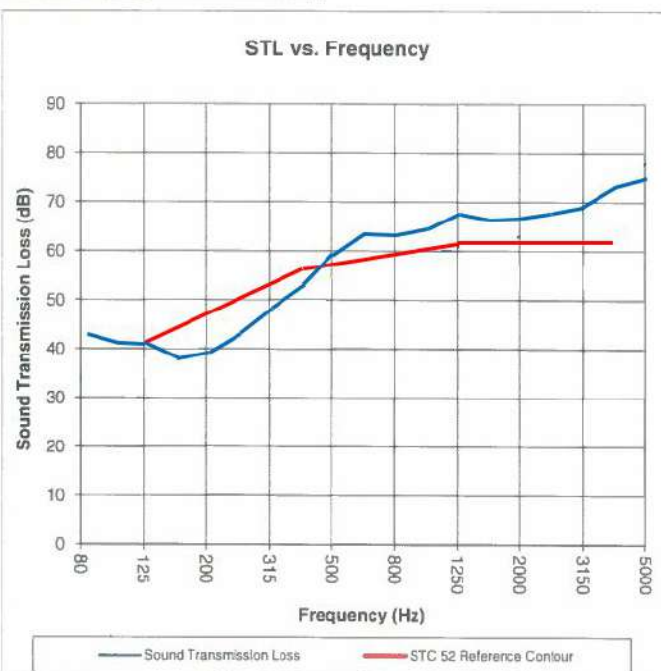
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Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: 6038921
 Test Date: 24/08/2020
 Specimen Size [m²]: 17.8

Sound Transmission Class STC = 57 dB

Frequency [Hz]	STL [dB]	ΔSTL
80	43	3.30
100	41	2.40
125	41	1.70
160	38	1.70
200	39	1.50
250	43	0.80
315	48	0.90
400	53	0.40
500	59	0.40
630	63	0.30
800	63	0.30
1000	64	0.40
1250	67	0.30
1600	66	0.30
2000	66	0.40
2500	67	0.30
3150	68	0.50
4000	72	0.40
5000	74	0.50



* 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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