

Acoustical Testing Laboratory



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TEST REPORT

for

Novateck USA dba Silent Blue

1040 SW 10th Avenue #6 Pompano Beach, Florida 33069 Frederick Leonard / 954-960-5425

Impact Sound Transmission Test

ASTM E 492 – 09 (2016) / ASTM E 989 – 18

On

6 Inch (152 mm) Concrete Slab Floor- Ceiling Assembly Overlaid with SPC Floor, 1220mm x 178mm x 5.5mm (0.5mm / 21mil) + Ceramic Bead overlay with 1.5mm W23 underlayment attached, Unilin clikc, embossed surface, virgin material

Report Number: NGC 7019114

Assignment Number: G-1638

> Test Date: 10/21/2019

Report Date: 10/28/2019

Submitted by:

Anthony J. Bivers

Test Technician

Reviewed by:

Rober J. Menchetti

Director

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Revision Summary:

Date	SUMMARY
Approval Date: 10/28/2019	Original issue date: 10/28/2019
	Original NGCTS report: NGC 7019114

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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 989-18.

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

Specimen Description:

6 inch concrete slab floor ceiling assembly overlaid with, according to client, SPC Floor, 1220mm x 178mm x 5.5mm (0.5mm / 22mil) + Ceramic Bead overlay with 1.5mm W23 underlayment attached, Unilin click, embossed surface, virgin material.

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 the client, SPC Floor, 1220mm x 178mm x 5.5mm (0.5mm / 22mil) + Ceramic Bead overlay with 1.5mm W23 underlayment attached, Unilin click, embossed surface, virgin material. The flooring was floating on the concrete slab. Measured average thickness: 5.59 mm (0.22 in.). Measured average weight: 8.25 kg/m² (1.69 PSF)
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m² (75.00 PSF)

The overall weight of the test assembly is: 374.40 kg/m² (76.69 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.

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 - 06 (2012)							
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Test Report:	NGC7019114			Date:	10/18/2019		
Specimen Size	[m²]:	17.8					
Source room Receiving room						m	
					Volume [m³]:	127	
Rm Temp [°C]:	24				Rm Temp [°C]:	22	
Humidity [%]:	58				Humidity [%]:	56	
Impact Insulati	on Class IIC [dB]:	51		-		
Sum of Unfavorable	_	32					
Max. Unfavorable D	eviation [dB]:	8	at	125	Hz		
Frequency	Ln	L2	d	Corr.	u.Dev.	ΔLn	
[Hz]	[dB]	[dB]	[dB/s]	[dB]	[dB]		
80	58	59.6	22.60	-1.6		1.80	
100	59	60.5	22.31	-1.5		2.10	
125	69	71.0	18.14	-2.0	8	2.03	
160	67	69.5	16.05	-2.5	6	1.56	
200	68	70.6	14.91	-2.6	7	0.56	
250	68	70.7	15.60	-2.7	7	1.01	
315	63	65.4	16.18	-2.4	2	0.65	
400	62	64.4	17.40	-2.4	2	0.55	
500	55	56.8	17.65	-1.8		0.44	
630	52	53.6	18.46	-1.6		0.42	
800	53	54.7	19.05	-1.7		0.60	
1000	44	46.4	18.52	-2.4		0.64	
1250	40	41.5	19.86	-1.5		0.51	
1600	36	37.1	21.37	-1.1		0.55	
2000	31	31.9	24.00	-0.9		0.65	
2500	27	27.1	26.37	-0.1		0.86	
3150	22	22.4	28.78	-0.4		0.75	
4000	20	20.0	32.68	0.0		0.80	
5000	17	16.8	37.71	0.2		0.87	
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

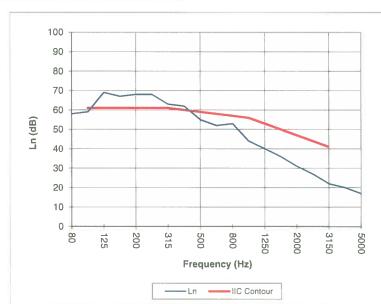
Test: ASTM E 492 - 09 (2016) / ASTM E 989 - 06 (2012)

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Test Report: NGC7019114 Test Date: 10/18/2019 Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 51

Frequency	L _n			
[Hz]	[dB]			
80	58			
100	59			
125	69			
160	67			
200	68			
250	68			
315	63			
400	62			
500	55			
630	52			
800	53			
1000	44			
1250	40			
1600	36			
2000	31			
2500	27			
3150	22			
4000	20			
5000	17			
* Due to high inculati				



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

= Normalized Sound Pressure Level, dB

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