

### Acoustical Testing Laboratory



TESTING
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### **TEST REPORT**

for

#### Novateck USA dba Silent Blue

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

### **Sound Transmission Loss Test**

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

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 5019088

Assignment Number: G-1638

Test Date: 10/21/2019

Report Date: 10/28/2019

Submitted by:

Anthony J. Rivers

Test Technician

Reviewed by:

Robert J. Menchett

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.



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### **Revision Summary:**

Date	SUMMARY		
Approval Date: 10/28/2019	Original issue date: 10/28/2019		
	Original NGCTS report: NGC 5019088		

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Report Number:

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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:

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:  $8.25 \text{ kg/m}^2 (1.69 \text{ PSF})$
- 152.4 mm (6 in.) thick reinforced concrete slab, weighing: 366.2 kg/m<sup>2</sup> (75.00 PSF)

The overall weight of the test assembly is: 374.40 kg/m<sup>2</sup> (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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# Laboratory



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Test Report: NGC 5019088				Date: 10/18/2019			
Specimen Size	m²]:	17.8					
Source room					Receiving room	n	
/olume [m³]:	86	Volume [m³]: 127					
Rm Temp [°C]:	25	Rm Temp [°C]: 22					
Humidity [%]:	58		Humidity [%]: 56				
Sound Transmi	ssion Class ST	C [dB]:	50				
ium of Unfavorable		28					
Max. Unfavorable D	eviation [dB]:	5	at	500	Hz		
Frequency	STL	L1	L2	d	Corr.	u.Dev.	ΔSTL
[Hz]	[dB]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
80	35	102.0	70.2	23.0	3.2		2.18
100	36	103.9	71.4	25.8	3.5		4.85
125	31	103.6	77.2	20.1	4.6	3	2.04
160	36	106.1	75.5	14.4	5.4	1	2.01
200	39	106.8	73.0	14.9	5.2	1	0.65
250	41	102.7	66.5	16.2	4.9	2	0.83
315	43	101.3	63.1	16.4	4.9	3	1.25
400	45	100.6	60.9	16.9	5.3	4	1.09
500	45	101.6	61.2	17.8	4.6	5	0.90
630	46	101.5	60.4	18.2	4.9	5	0.57
800	49	100.0	55.7	19.0	4.7	3	0.73
1000	53	97.8	49.7	18.9	4.9		0.65
1250	53	96.0	47.2	19.9	4.2	1	0.74
	56	97.2	45.4	21.3	4.2		0.71
1600		1					
2000	62	99.4	40.9	24.2	3.5		0.94
2000 2500	62 64	101.1	40.1	26.5	3.0		0.95
2000 2500 3150	62 64 66	101.1 100.1	40.1 36.9	26.5 28.6	3.0 2.7		0.95 1.45
2000 2500	62 64	101.1	40.1	26.5	3.0		0.95

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# Laboratory



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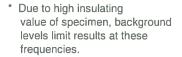
#### **Sound Transmission Loss Test Data**

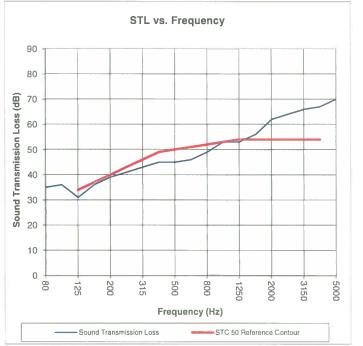
Test: ASTM E 90 - 09 (2016) / ASTM E 413 - 16

Test Report: NGC 5019088 Test Date: 10/18/2019 Specimen Size [m²]:

#### Sound Transmission Class STC = 50 dB

Frequency	STL	ΔSTL			
[Hz]	[dB]				
80	35	2.18			
100	36	4.85			
125	31	2.04			
160	36	2.01			
200	39	0.65			
250	41	0.83			
315	43	1.25			
400	45	1.09			
500	45	0.90			
630	46	0.57			
800	49	0.73			
1000	53	0.65			
1250	53	0.74			
1600	56	0.71			
2000	62	0.94			
2500	64	0.95			
3150	66	1.45			
4000	67	1.82			
5000	70	1.99			





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

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