

TEST REPORT

for

Healthier Choice Flooring
401 Jones Street
Dalton, GA 30720
Andrew Stafford / 706-275-0345

Impact Sound Transmission Test

ASTM E 492 – 09 (2016)e1 / ASTM E 989 – 18

On

**8 Inch Concrete Slab Floor – Ceiling Assembly
Overlaid with Kahrs Life Selection Hardwood Flooring
over Kahrs Eco Plus Underlayment**


Report Number: NGC 7022007

Assignment Number: G-1793

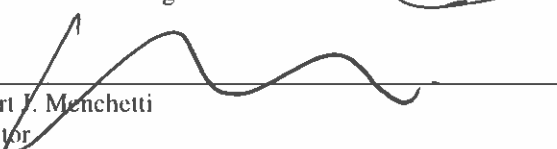
Test Date: 02/14/2022

Report Date: 02/17/2022

Submitted by: _____


Anthony J. Rivers
Acoustical Test Engineer

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: 02/17/2022	Original issue date: 02/17/2022 Original NGCTS report: NGC 7022007

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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)je1 / 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)je1.

Specimen Description: 8 inch concrete slab floor-ceiling assembly, overlaid with according to client, Kahrs Life Collection Hardwood Flooring over Kahrs Eco Plus Underlayment.

The test specimen was a floor-ceiling assembly and was observed to consist of the following:
All weights and dimension are averaged:

- 1 layer of, according to the client, KHARS Life Collection Hardwood Flooring. The flooring was floating on the Kahrs Eco Plus Underlayment. Measured thickness: 7.37 mm (0.29 in.). Measured weight: 5.62 kg/m² (1.15 PSF)
- 1 layer, according to the client, Kahrs Eco Plus Underlayment. The underlayment was floating on the concrete slab Measured thickness: 1.78 mm (0.07 in.), Measured weight: 0.68 kg/m² (0.14 PSF)
- 203.2 mm (8 in.) thick reinforced concrete slab, weighing: 488.2 kg/m² (100.00 PSF)

The overall weight of the test assembly is: 494.50 kg/m² (101.29 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 - 18						
Test Report: NGC7022007				Date: 2/14/2022		
Specimen Size [m ²]: 17.8				Page 4 of 5		
Source room			Receiving room			
Rm Temp [°C]: 25			Volume [m ³]: 127			
Humidity [%]: 50			Rm Temp [°C]: 25			
			Humidity [%]: 50			
Impact Insulation Class IIC [dB]:			56			
Sum of Unfavorable Deviations [dB]:			27			
Max. Unfavorable Deviation [dB]:			7 at 160 Hz			
Frequency [Hz]	L _n [dB]	L ₂ [dB]	d [dB/s]	Corr. [dB]	u.Dev. [dB]	ΔL _n
80	55	54.5	30.39	0.5		2.06
100	55	55.9	26.77	-0.9		2.14
125	59	60.6	19.22	-1.6	3	1.32
160	63	65.3	17.88	-2.3	7	1.54
200	61	63.1	17.84	-2.1	5	1.10
250	61	62.9	17.44	-1.9	5	1.06
315	61	63.3	16.36	-2.3	5	0.51
400	57	59.2	18.11	-2.2	2	0.62
500	53	55.4	19.12	-2.4		0.41
630	52	53.7	19.84	-1.7		0.38
800	50	51.8	20.99	-1.8		0.57
1000	50	51.6	20.90	-1.6		0.68
1250	44	45.4	22.19	-1.4		0.36
1600	37	37.8	24.60	-0.8		0.33
2000	31	32.3	27.24	-1.3		0.41
2500	27	29.1	28.89	-2.1		0.47
3150	25	26.5	30.51	-1.5		0.51
4000	23	23.4	33.88	-0.4		0.59
5000	19	19.8	38.32	-0.8		0.79

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

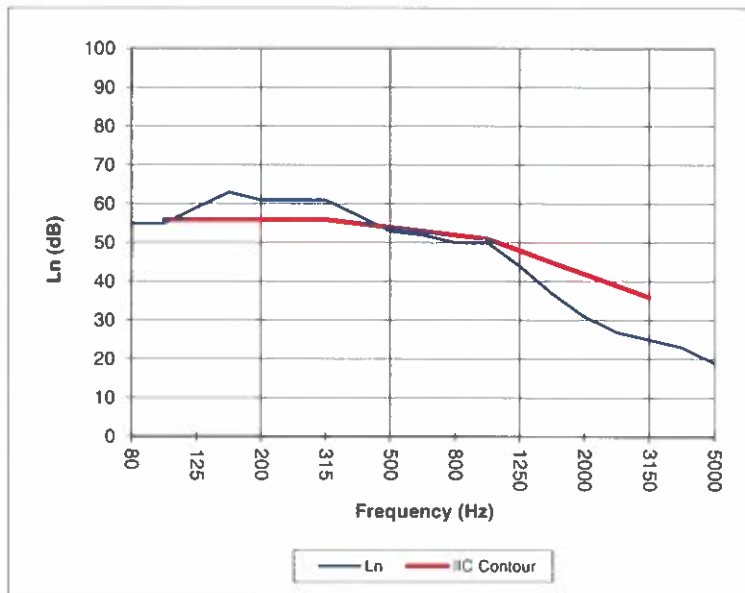
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Test Report: NGC7022007
 Test Date: 2/14/2022
 Specimen Size [m²]: 17.8

Impact Insulation Class IIC [dB]: 56

Frequency [Hz]	L_n [dB]
80	55
100	55
125	59
160	63
200	61
250	61
315	61
400	57
500	53
630	52
800	50
1000	50
1250	44
1600	37
2000	31
2500	27
3150	25
4000	23
5000	19



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

L_n = Normalized Sound Pressure Level, dB

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