



Acoustical Testing Laboratory



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under Lab Code 200291

TEST REPORT

for

Unifloor Underlay Systems BV
Munsterstraat 24
7418EV DEVENTER
The Netherlands
Gerry Maatjes/ 31 570 85 55 33

Impact Sound Transmission Test
ASTM E 492 - 90 / ASTM E 989 - 89
On

Bare 6" Concrete Slab

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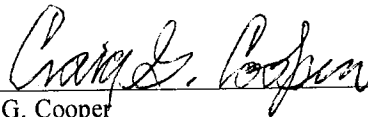
Report Number: NGC 7003008

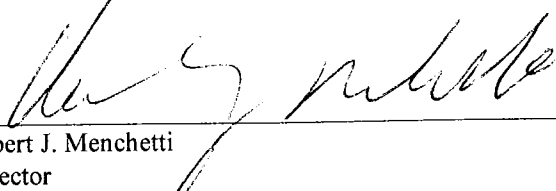
Assignment Number: G-171

Specimen Receipt Date: NA

Test Date: 03/18/2003

Report Date: 03/26/2003

Submitted by: 
Craig G. Cooper
Test Engineer

Reviewed by: 
Robert J. Menchetti
Director

The results reported above apply to specific samples submitted for measurement.
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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 - 90.

The uncertainty limits of each tapping machine location met the provision requirements of section 10.3 of ASTM E 492-90.

Specimen Description: 6" Concrete Slab.

The test specimen was a floor-ceiling assembly consisting of the following:

- No floor topping.
- 6" thick reinforced concrete slab (75.00 PSF)
- No Ceiling Applied.

The overall weight of the test assembly is 75.00 PSF.

The perimeter of the concrete slab was sealed with fiber gasketing and a sand filled trough. The test assembly is structurally isolated from the receiving room.

Specimen size: 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 3 and 4.

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Normalized impact sound pressure level						
Test: ASTM E 492 - 90 / ASTM E 989 - 89						
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Test Number: NGC7003008			Date: 03/18/2003			
Size: 17.8 m ²						
Source room			Receiving room			
Temperature [°C]: 20.8			Volume V = 49.0 m ³			
Humidity [%]: 37			Temperature [°C]: 20.2			
			Humidity [%]: 59			
Impact Insulation Class IIC = 27 dB						
Sum of unfavourable deviations: 14.0 dB						
Max. unfavourable deviation: 8.0 dB at 3150 Hz						
Frequency	L _n	L2	T	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[s]	[dB]	[dB]	
100	59.0	63.9	2.69	-4.9	--	0.222
125	66.0	70.8	2.64	-4.8	--	0.166
160	72.0	77.5	2.60	-5.5	--	0.225
200	69.0	75.0	2.93	-6.0	--	0.146
250	73.0	79.1	2.94	-6.1	--	0.121
315	66.0	71.9	2.94	-5.9	--	0.099
400	69.0	74.2	2.76	-5.2	--	0.084
500	68.0	73.4	2.46	-5.4	--	0.083
630	70.0	75.2	2.43	-5.2	--	0.071
800	69.0	74.7	2.64	-5.7	--	0.060
1000	71.0	76.0	2.61	-5.0	--	0.057
1250	72.0	76.0	2.13	-4.0	--	0.060
1600	73.0	76.6	1.96	-3.6	--	0.062
2000	72.0	75.4	1.76	-3.4	1.0	0.054
2500	73.0	75.6	1.57	-2.6	5.0	0.056
3150	73.0	75.6	1.44	-2.6	8.0	0.055
4000	75.0	77.1	1.26	-2.1	--	0.043
5000	73.0	74.8	1.13	-1.8	--	0.046
<p>L_n = Normalized Sound Pressure Level, dB L2 = Receiving Room Level, dB T = Reverberation Time, seconds ΔL_n = Uncertainty for 95% Confidence Level</p>						

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Normalized impact sound pressure level

Test: ASTM E 492 - 90 / ASTM E 989 - 89

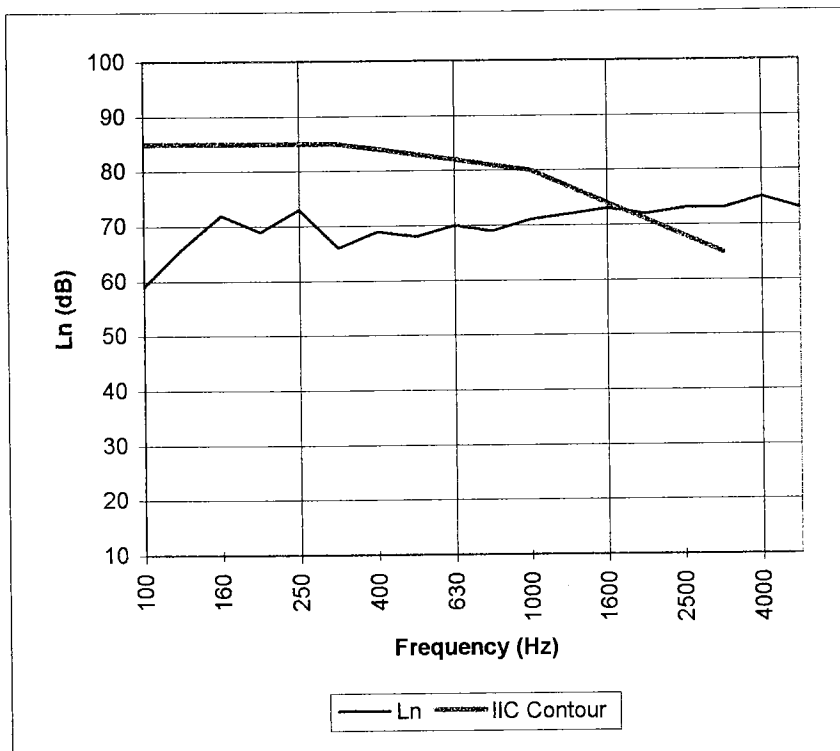
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Test Number: NGC7003008

Date: 03/18/2003

Impact Insulation Class IIC = 27 dB

Frequency [Hz]	L_n [dB]
100	59
125	66
160	72
200	69
250	73
315	66
400	69
500	68
630	70
800	69
1000	71
1250	72
1600	73
2000	72
2500	73
3150	73
4000	75
5000	73



* 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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