



Acoustical Testing Laboratory



Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 200291

TEST REPORT

For

MP Global Products, LLC
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Impact Sound Transmission Test ASTM E 492 – 04 / ASTM E 989 – 06 On

**Engineered Wood Flooring over Quiet Walk™ Underlayment on
8 In. (203mm) Concrete Slab with Suspended Gypsum Board Ceiling**

Page 1 of 4

Report Number: NGC 7007098

Assignment Number: G-383

Test Date: 07/16/2007

Report Date: 08/22/2007

Submitted by: Craig G. Cooper
Craig G. Cooper
Test Engineer

Reviewed by: Robert J. Monchetti
Robert J. Monchetti
Director

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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 - 04 / E 989 - 89. The uncertainty limits of each tapping machine location met the precision requirements of section 11.3 of ASTM E 492-04.

Specimen Description: 8 inch (203mm) concrete slab floor-ceiling assembly overlaid with, 9/16 in. Engineered Wood Flooring and Quiet Walk™ Underlayment, with suspended grid ceiling system and 5/8 in. (15.9mm) gypsum board ceiling.

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

- 1 layer of Engineered wood flooring, Twin Brazilian Cherry Classic. 14mm (9/16 in.) thick, 180mm (7 in.) wide and 2200mm (86.6 in.) long planks. The sample weight was 9.37 kg/m^2 (1.92 PSF).
- 1 layer of nominal 3.00mm (0.125 in.) Quiet Walk™ underlayment. Observed to be 4.5mm (0.178 in.) thick. The sample weight was 0.88 kg/m^2 (0.18 PSF). Sample made of nonwoven fibers with layer of polyethylene film attached to up side. Joints were taped.
- 8 inch thick reinforced concrete slab 417.9 kg/m^2 (85.6 PSF).
- Gypsum board ceiling grid suspension system consisting of concrete anchors located 1219mm (48 in.) o.c. along the longitudinal axis secure the 16 gauge galvanized tie wire which supports the grid system. A 305mm (12 in.) plenum is created and a layer of 89mm (3-1/2 in.) fiberglass insulation 0.78 kg/m^2 (0.16 PSF) is laid over grid. A single layer of 15.9mm (5/8 in.) type X gypsum board 11.2 kg/m^2 (2.3 PSF) attached with 25.4mm (1 in.) screws, 305mm (12 in.) o.c. to suspended grid suspension system mains and runners.

The overall weight of the test assembly is nominal 440.2 kg/m^2 (90.16 PSF).

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

Specimen size: 3658mm x 4877mm (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 - 04 / ASTM E 989 - 89						
Test Number: NGC7007098					Date: 7/16/2007	
Size: 17.84 m ²						
Source room			Receiving room			
Temperature [°C]: 22.6			Volume V = 60.0 m ³			
Humidity [%]: 60			Temperature [°C]: 22.6			
			Humidity [%]: 52			
Impact Insulation Class IIC = 68 dB						
Sum of unfavorable deviations: 22.0 dB						
Max. unfavorable deviation: 5.0 dB at 100 Hz						
Frequency	L _n	L2	T	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[s]	[dB]	[dB]	
100	49.0	52.3	1.92	-3.3	5.0	0.226
125	45.0	48.8	2.23	-3.8	1.0	0.272
160	46.0	51.0	3.22	-5.0	2.0	0.254
200	46.0	51.8	3.31	-5.8	2.0	0.147
250	46.0	51.2	3.38	-5.2	2.0	0.114
315	47.0	52.3	3.18	-5.3	3.0	0.078
400	43.0	48.0	2.93	-5.0	--	0.063
500	37.0	42.1	2.86	-5.1	--	0.056
630	37.0	41.9	2.66	-4.9	--	0.072
800	34.0	38.5	2.68	-4.5	--	0.062
1000	32.0	36.4	2.48	-4.4	--	0.039
1250	33.0	37.1	2.23	-4.1	--	0.052
1600	33.0	36.9	2.12	-3.9	--	0.045
2000	31.0	34.0	1.91	-3.0	1.0	0.051
2500	29.0	31.8	1.70	-2.8	2.0	0.041
3150	28.0	30.1	1.56	-2.1	4.0	0.028
4000	26.0	28.0	1.40	-2.0	--	0.030
5000	23.0	23.7	1.26	-0.7	--	0.042

L_n = Normalized Sound Pressure Level, dB
 L2 = Receiving Room Level, dB
 T = Reverberation Time, seconds
 ΔL_n = Uncertainty for 95% Confidence Level

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Normalized impact sound pressure level

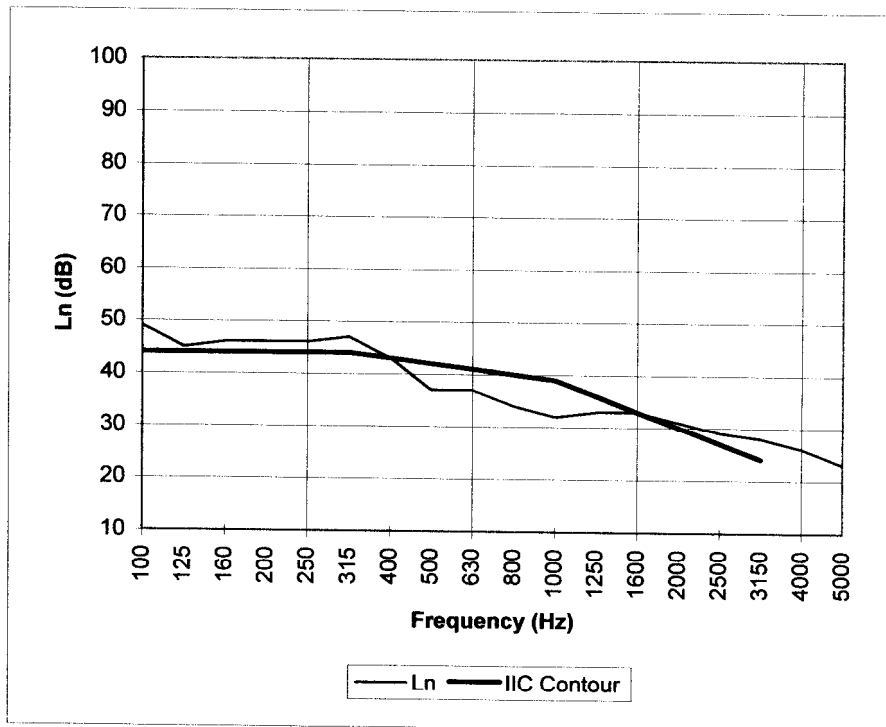
Test: ASTM E 492 - 04 / ASTM E 989 - 89

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Impact Insulation Class IIC = 68 dB

Frequency [Hz]	L_n [dB]
100	49
125	45
160	46
200	46
250	46
315	47
400	43
500	37
630	37
800	34
1000	32
1250	33
1600	33
2000	31
2500	29
3150	28
4000	26
5000	23



* 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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