



Acoustical Testing Laboratory



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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

**Laminate Flooring over Quiet Walk™ Underlayment on
6 Inch (152mm) Concrete Slab with Suspended Gypsum Board Ceiling**

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Report Number: NGC 7009062

Assignment Number: G-515


Test Date: 06/17/2009

Report Date: 07/14/2009

Submitted by:


Steven M. Armenia
Test Technician

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.

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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 - 06.

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

Specimen Description: 6 inch (152mm) concrete slab floor-ceiling assembly overlaid with, 8mm laminate flooring and Quiet Walk™ underlayment, with suspended grid 5/8 inch gypsum board ceiling system.

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

- 1 layer of laminate flooring, 8mm (0.31 in.) thick, 200mm (7.86 in.) wide, 1208mm (47.56 in.) long planks. Sample weight was 7.29kg/m² (1.49 PSF).
- 1 layer of 3.0mm (0.121 in.) Quiet Walk™ underlayment. The sample weight was 0.68 kg/m² (0.14 PSF). Sample made of nonwoven fibers with layer of polyethylene film attached to top side. Joints were taped.
- 6 inch (152mm) thick reinforced concrete slab 366.1 kg/m² (75.0 PSF).
- 88.9mm (3-1/2 in.) fiberglass unfaced batt insulation. Sample weight was 0.68 kg/m² (0.23 PSF). The insulation was laid over the suspended grid system parallel with the Main Tee's.
- Gypsum board ceiling grid suspension system manufactured by Armstrong®. System is comprised of Main Tee's (part number HD8906E) and Cross Tee's (part number XL8945P). The main tees were placed 1218mm (48 in.) on center and the cross tees were placed 609mm (24 in.) on center. 16 gauge galvanized tie wire was used to attach the main tees to concrete anchors, located 1219mm (48 in.) o.c. along the longitudinal axis, suspending the grid 305mm (12 in.) below the concrete slab.
- 1 layer of 15.9mm (5/8 in.) Type X gypsum board. Sample was observed to be 15.9mm (0.628 in.) thick and weighed 11.2 kg/m² (2.3 PSF). The board was attached 304.8mm (12 in.) o.c. parallel to suspended grid suspension system mains, using 25.4mm (1 in.) fine thread bugle head drywall screws. The board joints were taped.

The overall weight of the test assembly is 386.4 kg/m² (79.16 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 - 06						
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Test Number: NGC7009062			Date: 6/17/2009			
Size: 17.8 m ²						
Source room			Receiving room			
Temperature [°C]: 23.0			Volume V = 60.0 m ³			
Humidity [%]: 56			Temperature [°C]: 22.0			
			Humidity [%]: 56			
Impact Insulation Class IIC = 67 dB						
Sum of unfavorable deviations: 29.0 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	50	52.8	1.89	-2.8	5	0.154
125	50	53.8	2.35	-3.8	5	0.260
160	49	54.1	3.30	-5.1	4	0.136
200	49	54.5	3.27	-5.5	4	0.127
250	48	52.6	3.07	-4.6	3	0.113
315	47	52.5	3.13	-5.5	2	0.110
400	42	46.9	3.06	-4.9	--	0.100
500	35	40.1	2.91	-5.1	--	0.065
630	35	39.9	2.72	-4.9	--	0.055
800	32	36.5	2.68	-4.5	--	0.047
1000	31	34.9	2.49	-3.9	--	0.048
1250	31	35.0	2.25	-4.0	--	0.044
1600	30	33.8	2.17	-3.8	--	0.043
2000	29	31.9	1.90	-2.9	--	0.036
2500	29	31.8	1.71	-2.8	1	0.033
3150	30	32.4	1.62	-2.4	5	0.034
4000	29	30.3	1.43	-1.3	--	0.029
5000	25	26.4	1.29	-1.4	--	0.029
<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

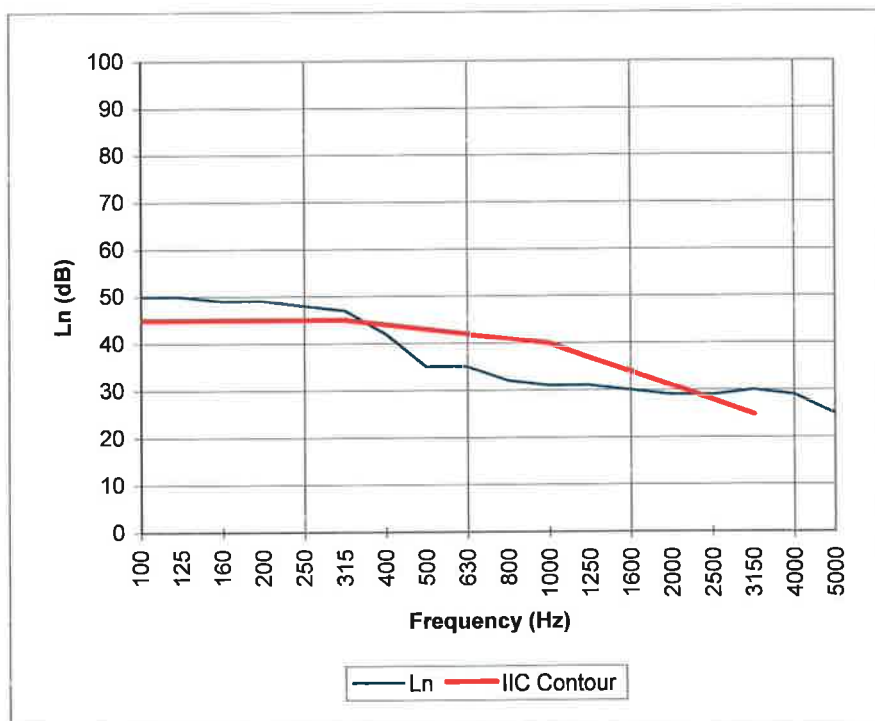
Test: ASTM E 492 - 04 / ASTM E 989 - 06

Test Number: NGC7009062

Date: 6/17/2009

Impact Insulation Class IIC = 67 dB

Frequency [Hz]	L_n [dB]
100	50
125	50
160	49
200	49
250	48
315	47
400	42
500	35
630	35
800	32
1000	31
1250	31
1600	30
2000	29
2500	29
3150	30
4000	29
5000	25



* 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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