



Acoustical Testing Laboratory



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

TEST REPORT

For

Proflex Products, Incorporated
3406 Dean Street
Naples, FL 34104
Gerard Gigon / 617-749-5648

Impact Sound Transmission Test ASTM E 492 – 04 / ASTM E 989 – 06 On

**8 Inch (203mm) Concrete Slab Overlaid with Quarry Tile Flooring
over a Layer of 0.250 Inch (6.4mm) Proflex RCU 250 Underlayment**

Report Number: NGC 7009064


Page 1 of 4

Assignment Number: G-508


Test Date: 06/22/2009

Report Date: 07/24/2009

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.
This report may not be reproduced except in full, without the written approval of the laboratory.
The laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval,
or endorsement by NVLAP or any agency of the U.S. Government.



Acoustical Testing Laboratory



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

Page 2 of 4

Report Number: NGC 7009064

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: 8 inch (203mm) Concrete Slab overlaid with, according to client, unglazed clay quarry tile flooring on a layer of 0.250 inch (6.4mm) Proflex RCU-250 underlayment.

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

- 152mm x 152mm x 12.7mm (6 in. x 6 in. x ½ in.) unglazed clay quarry tile installed using a latex-modified thin set mortar mixture meeting ANSI Specification 118.11 and a polymer enhanced sanded grout mixture meeting ANSI Specification 118.6 and 118.7. Mortar troweled on with 1/4 in. by 3/8 in. notch trowel. Mortar and grout mixtures sample weight was 32.2 kg/m² (6.6 PSF).
- 1 layer of 6.4mm (0.250 in.) thick Proflex RCU 250 underlayment. Sample weight was found to be 3.6 kg/m² (0.74 PSF). Sample thickness measured 6.7mm (0.265 in.).
- 203mm (8 in.) thick reinforced concrete slab 488.2 kg/m² (100 PSF).
- No ceiling

The overall weight of the test assembly is 524.0 kg/m² (107.34 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 cured minimum of 28 days.
Tile mortar and grout cured for 7 days.

Test Results: The results of the tests are given on pages 3 and 4.

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

No responsibility is assumed for performance of any other specimen.

This report may not be reproduced except in full, without the written approval of the laboratory.

The laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.



Acoustical Testing Laboratory



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

Normalized impact sound pressure level						
Test: ASTM E 492 - 04 / ASTM E 989 - 06						
Test Number: NGC7009064					Date: 6/22/2009	
Size: 17.8 m ²						
Source room			Receiving room			
Temperature [°C]: 21.5			Volume V = 63.0 m ³			
Humidity [%]: 66			Temperature [°C]: 21.5			
			Humidity [%]: 58			
Impact Insulation Class IIC = 54 dB						
Sum of unfavorable deviations: 30.0 dB						
Max. unfavorable deviation: 8.0 dB at 160 Hz						
Frequency	L _n	L2	T	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[s]	[dB]	[dB]	
100	57	63.7	4.63	-6.7	--	0.420
125	61	65.7	3.34	-4.7	3	0.208
160	66	71.8	4.11	-5.8	8	0.237
200	66	71.5	3.80	-5.5	8	0.162
250	62	67.0	3.19	-5.0	4	0.145
315	62	67.0	3.07	-5.0	4	0.085
400	60	64.2	2.89	-4.2	3	0.105
500	56	60.1	2.59	-4.1	--	0.067
630	53	57.1	2.40	-4.1	--	0.071
800	51	54.6	2.33	-3.6	--	0.068
1000	49	52.2	2.17	-3.2	--	0.054
1250	44	46.7	2.02	-2.7	--	0.056
1600	41	43.7	2.00	-2.7	--	0.040
2000	40	42.4	1.88	-2.4	--	0.044
2500	39	40.9	1.73	-1.9	--	0.039
3150	36	37.6	1.56	-1.6	--	0.037
4000	31	32.6	1.34	-1.6	--	0.032
5000	28	28.5	1.22	-0.5	--	0.031
<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>						

The results reported above apply to specific samples submitted for measurement. No responsibility is assumed for performance of any other specimen. This report may not be reproduced except in full, without the written approval of the laboratory. The laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.

Normalized impact sound pressure level

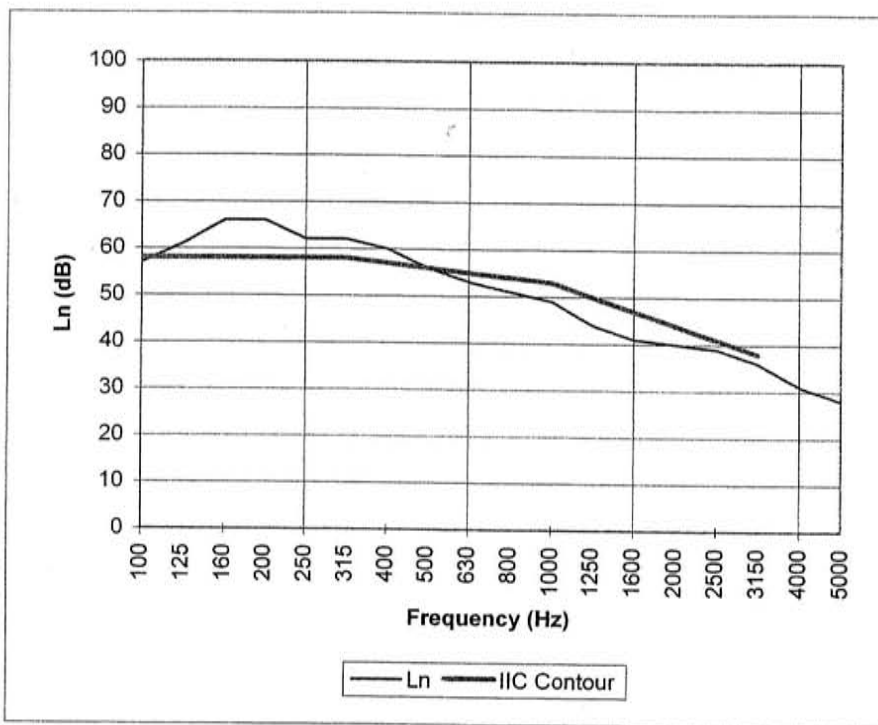
Test: ASTM E 492 - 04 / ASTM E 989 - 06

Test Number: NGC7009064

Date: 6/22/2009

Impact Insulation Class IIC = 54 dB

Frequency [Hz]	L_n [dB]
100	57
125	61
160	66
200	66
250	62
315	62
400	60
500	56
630	53
800	51
1000	49
1250	44
1600	41
2000	40
2500	39
3150	36
4000	31
5000	28



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

L_n = Normalized Sound Pressure Level, dB

The results reported above apply to specific samples submitted for measurement. No responsibility is assumed for performance of any other specimen. This report may not be reproduced except in full, without the written approval of the laboratory. The laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.