



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, Inc.
2500 Drane Field Road – Suite 105
Lakeland, FL 33811
Gerard L. Gigon / 863-937-9623

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

**8" Concrete Slab and Suspended Acoustical Tile Ceiling Overlaid with:
Quarry Tile over PROFLEX SSC 70 Super Sound Control Membrane Underlayment**

Report Number: NGC 7003043

Page 1 of 4
Reissued 03/23/2012

Assignment Number: G-771

Specimen Receipt Date: NA

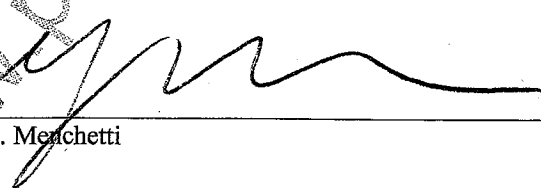
Test Date: 07/24/2003

Report Date: 08/04/2003

Submitted by:


Andrew E. Heuer
Test and Quality 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. 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

NVLAP®

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 7003043

Reissued 03/23/2012

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.

Specimen Description: 8" Concrete Slab and Suspended Acoustical Tile Ceiling overlaid with Quarry Tile over, according to client, PROFLEX SSC 70 Super Sound Control Membrane Underlayment. This specimen was originally submitted by Northern Elastomerics Inc., identified as "Proflex SSC Membrane Underlayment" and tested on 7/24/2003. This report reflects the current product name of the material tested.

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

- 1 layer of 6" x 6" x 1/2" unglazed clay quarry tile (5.6 PSF) installed using polymer modified MAPEI Kerabond mortar and polymer modified grout mixtures (1.0 PSF).
- 1 layer of 0.077" thick PROFLEX SSC 70 membrane floor underlayment with fabric side up. (0.32 PSF) Membrane was self-adhered to kraft paper that is adhered to the concrete at the perimeter and tapping machine areas with double-sided tape.
- 8" thick reinforced concrete slab (85.6 PSF).
- Suspended ceiling system consisting of nominal 24" by 24" USG 3/4" thick Acoustone Acoustical lay-in panels (1.44 PSF) installed into standard 15/16" face metal T grid ceiling tile suspension system. 10% plenum with 6" of fiberglass insulation (0.23 PSF).

The overall weight of the test assembly is 94.19 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: Tile, mortar, and grout cured for a minimum of 7 days. Concrete slab cured for a minimum of 28 days.

Test samples were submitted by client and tested as received.

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.

Normalized impact sound pressure level						
Test: ASTM E 492 - 90 / ASTM E 989 - 89						
Test Number: NGC7003043				Date: 7/24/2003		
Size: 17.84 m ²						
Source room			Receiving room			
Temperature [°C]: 23.5			Volume V = 45.7 m ³			
Humidity [%]: 70			Temperature [°C]: 23.0			
			Humidity [%]: 52			
Impact Insulation Class IIC = 54 dB						
Sum of unfavourable deviations: 27.0 dB						
Max. unfavourable deviation: 7.0 dB at 100 Hz						
Frequency	L _n	L2	T	Corr.	u.Dev.	ΔL _n
[Hz]	[dB]	[dB]	[s]	[dB]	[dB]	
100	65.0	65.3	0.82	-0.3	7.0	0.505
125	56.0	57.1	0.93	-1.1	--	0.358
160	55.0	56.7	1.16	-1.7	--	0.176
200	59.0	61.4	1.18	-2.4	1.0	0.260
250	49.0	51.5	1.24	-2.5	--	0.192
315	53.0	54.6	1.18	-1.6	--	0.154
400	52.0	53.6	0.97	-1.6	--	0.133
500	54.0	54.4	0.83	-0.4	--	0.144
630	58.0	58.0	0.69	0.0	3.0	0.141
800	58.0	57.3	0.60	0.7	4.0	0.140
1000	48.0	46.9	0.53	1.1	--	0.114
1250	52.0	50.0	0.47	2.0	2.0	0.128
1600	52.0	49.6	0.46	2.4	5.0	0.105
2000	47.0	44.9	0.45	2.1	3.0	0.112
2500	43.0	40.8	0.42	2.2	2.0	0.128
3150	38.0	35.4	0.41	2.6	--	0.096
4000	33.0	30.7	0.40	2.3	--	0.103
5000	28.0	25.3	0.39	2.7	--	0.104

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

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 - 90 / ASTM E 989 - 89

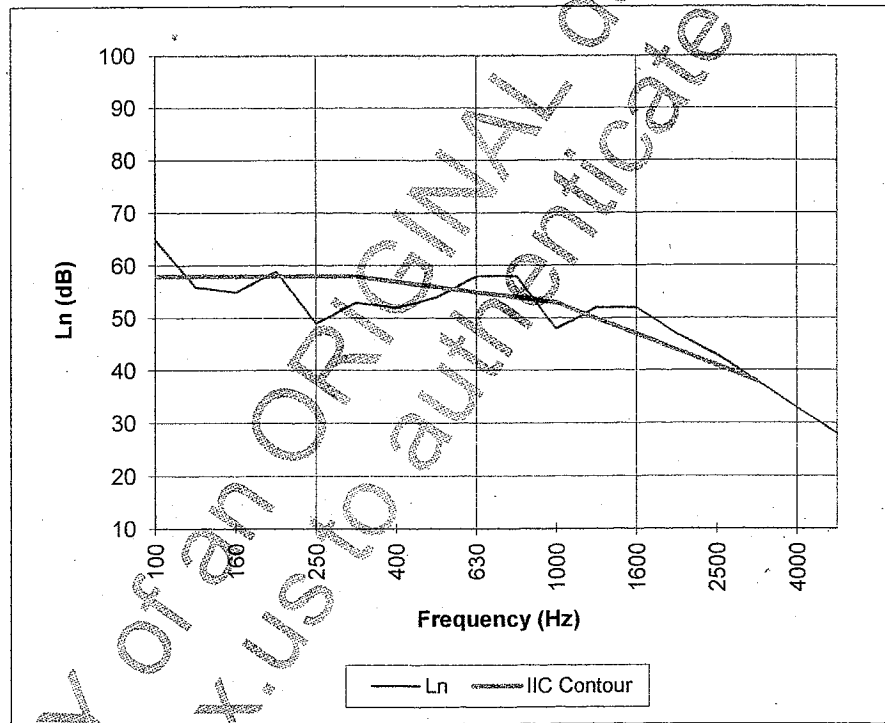
Page 4 of 4

Test Number: NGC7003043

Date: 7/24/2003

Impact Insulation Class IIC = 54 dB

Frequency [Hz]	L_n [dB]
100	65
125	56
160	55
200	59
250	49
315	53
400	52
500	54
630	58
800	58
1000	48
1250	52
1600	52
2000	47
2500	43
3150	38
4000	33
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.