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Acoustical Testing Laboratory

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TEST REPORT

for

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

Sound Transmission Loss Test
ASTM E 90 - 02

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 5003019 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.
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Test Method: This test method generally follows * the American Society for Testing and Materials Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements - Designation: E 90 - 02.

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 Elastomeric, 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 ¾" 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.

* Tests conducted in Floor-Ceiling chambers do not meet all requirements of the most recent ASTM E 90 Standard.

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Sound Transmission Loss Test Data

Per: ASTM E 90 - 02 / ASTM E 413 - 87

No. of test report: NGC5003019
Test Date: 7/24/2003
Size: 17.8 m²
Temperature [°C]: 22.9

Sound Transmission Class STC = 62 dB
Sum of unfavourable deviations: 14.0 dB
Max. unfavourable deviation: 8.0 dB at 125 Hz

Frequency [Hz]	STL [dB]	L1 [dB]	L2 [dB]	T [s]	Corr. [dB]	u.Dev. [dB]	ΔSTL
100	33	104.0	74.2	0.82	3.0	-.-	1.229
125	38	99.0	64.9	0.93	3.6	8.0	1.296
160	48	100.6	57.6	1.16	4.5	1.0	0.721
200	49	98.9	54.4	1.18	4.6	3.0	0.548
250	55	100.0	49.6	1.24	4.8	-.-	0.412
315	63	100.7	42.7	1.18	4.6	-.-	0.714
400	63	104.0	45.2	0.97	3.7	-.-	0.374
500	63	102.8	43.1	0.83	3.1	-.-	0.700
630	61	100.7	41.7	0.69	2.2	2.0	0.332
800	64	100.3	38.4	0.60	1.6	-.-	0.300
1000	72	99.2	28.4	0.53	1.1	-.-	0.200
1250	73	99.9	27.2	0.47	0.6	-.-	0.374
1600	75	100.4	25.8	0.46	0.5	-.-	0.387
2000	80	101.8	22.4	0.45	0.4	-.-	0.200
2500	86	103.4	17.8	0.42	0.1	-.-	0.173
3150	91	103.5	12.8	0.41	0.0	-.-	0.566
4000	92	102.8	10.6	0.40	-0.1	-.-	0.374
5000	87	97.6	10.1	0.39	-0.2	-.-	0.510

STL = Sound Transmission Loss, dB
L1 = Source Room Level, dB
L2 = Receiving Room Level, dB
T = Reverberation Time, seconds
Δ STL = Uncertainty for 95% Confidence Level

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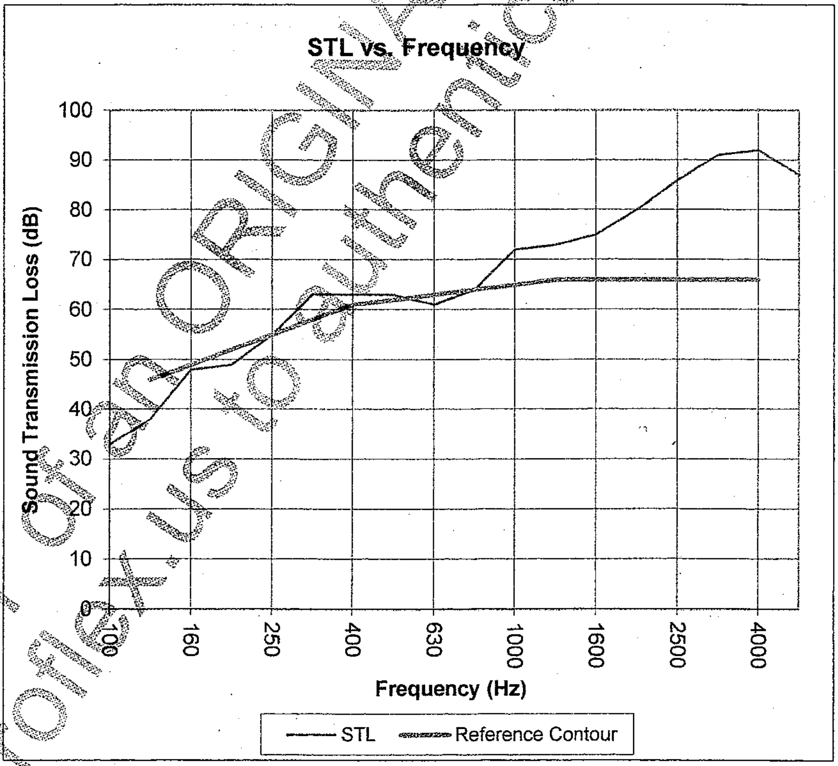
800	64	0.300
1000	72	0.200
1250	73	0.374
1600	75	0.387
2000	80	0.200
2500	86	0.173
3150	91	0.566
4000	92	0.374
5000	87	0.510 *

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



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