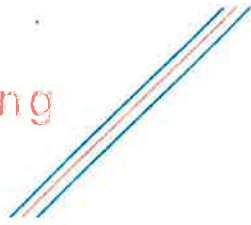




Acoustical Testing Laboratory



TEST REPORT

for

Midwest Padding, L.L.C.
P.O. Box 2283
2500 Old Hadar Road
Norfolk, NE 68702-2283
Robert Pratt / 888-379-9695

Sound Transmission Loss Test
ASTM E 90 - 02
On

**Laminate Flooring on QuietWalk™ Underlayment over
8" Concrete Slab Floor-Ceiling Assembly**

Page 1 of 4


Report Number: NGC 5004020

Assignment Number: G-231

Specimen Receipt Date: 09/09/2004

Test Date: 09/29/2004

Report Date: 10/01/2004

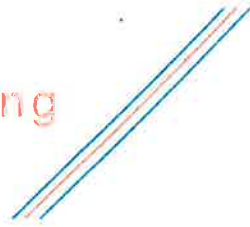
Submitted by: 
Craig G. Cooper
Test Engineer

Reviewed by: 
Robert J. Menchetti
Director

The results reported above apply to specific samples submitted for measurement.
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Report Number: NGC 5004020

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 floor-ceiling assembly overlaid with;
Laminate flooring on QuietWalk underlayment.

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

- 1 layer of T&G wood laminate flooring, 5/16" thick, 7-3/4" wide planks, (1.58 PSF).
- 1 layer of 1/8" Midwest Padding QuietWalk™ underlayment, made of nonwoven fibers with layer of polyethylene film attached to one side. (0.14 PSF)
- 8" thick reinforced concrete slab (85.6 PSF).

The overall weight of the test assembly is 87.32 PSF nominal.

The perimeter of the floor assembly 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.

Test samples were submitted by client and tested as received.

Conditioning: Concrete cured for a minimum of 28 days.

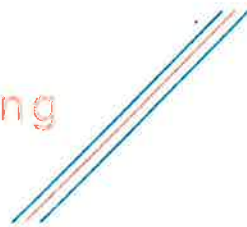
Test Results: The results of the tests are given on pages 3 and 4.

* 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: NGC5004020
 Test Date: 9/29/2004
 Size: 17.8 m²
 Temperature [°C]: 22.9

Sound Transmission Class STC = 54 dB
 Sum of unfavorable deviations: 32.0 dB
 Max. unfavorable deviation: 8.0 dB at 125 Hz

| Frequency [Hz] | STL [dB] | L1 [dB] | L2 [dB] | T [s] | Corr. [dB] | u.Dev. [dB] | ΔSTL |
|----------------|----------|---------|---------|-------|------------|-------------|-------|
| 100 | 38 | 105.8 | 75.7 | 2.24 | 7.5 | -- | 1.005 |
| 125 | 30 | 99.7 | 77.6 | 2.37 | 7.7 | 8.0 | 1.849 |
| 160 | 36 | 99.5 | 71.1 | 2.51 | 8.0 | 5.0 | 1.688 |
| 200 | 37 | 97.7 | 68.6 | 2.74 | 8.4 | 7.0 | 0.361 |
| 250 | 42 | 96.6 | 62.4 | 2.59 | 8.1 | 5.0 | 0.781 |
| 315 | 44 | 95.5 | 60.3 | 2.80 | 8.5 | 6.0 | 0.954 |
| 400 | 52 | 100.0 | 56.3 | 2.68 | 8.3 | 1.0 | 0.529 |
| 500 | 55 | 99.3 | 52.0 | 2.55 | 8.1 | -- | 0.748 |
| 630 | 55 | 98.3 | 50.9 | 2.24 | 7.5 | 0.0 | 0.387 |
| 800 | 56 | 98.6 | 50.1 | 2.38 | 7.8 | 0.0 | 0.200 |
| 1000 | 59 | 97.7 | 46.7 | 2.36 | 7.7 | -- | 0.332 |
| 1250 | 60 | 96.5 | 44.1 | 2.06 | 7.1 | -- | 0.245 |
| 1600 | 60 | 96.4 | 42.7 | 1.84 | 6.6 | -- | 0.265 |
| 2000 | 64 | 96.7 | 39.4 | 1.67 | 6.2 | -- | 0.245 |
| 2500 | 64 | 98.3 | 40.1 | 1.49 | 5.7 | -- | 0.200 |
| 3150 | 66 | 98.4 | 37.4 | 1.37 | 5.4 | -- | 0.346 |
| 4000 | 67 | 97.8 | 35.4 | 1.20 | 4.8 | -- | 0.500 |
| 5000 | 69 | 95.3 | 30.4 | 1.07 | 4.3 | -- | 0.548 |

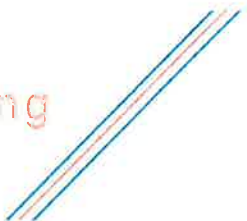
STL = Sound Transmission Loss, dB
 L1 = Source Room Level, dB
 L2 = Receiving Room Level, dB
 T = Reverberation Time, seconds
 Δ STL = Uncertainty for 95% Confidence Level

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Sound Transmission Loss Test Data

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

No. of test report: NGC5004020

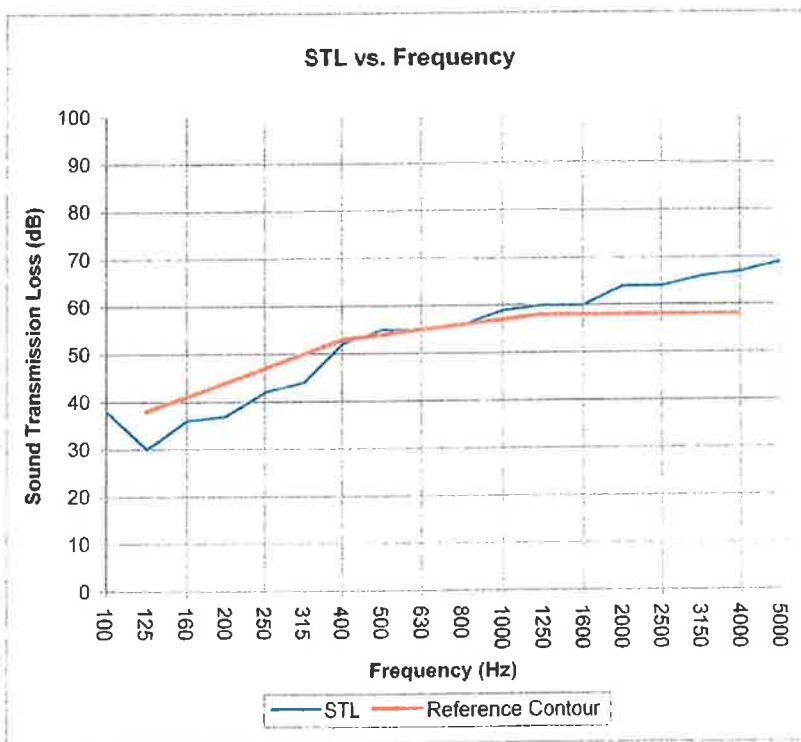
Test Date: 9/29/2004

Size: 17.8 m²

Temperature [°C]: 22.9

Sound Transmission Class STC = 54 dB

| Frequency [Hz] | STL [dB] | ΔSTL |
|----------------|----------|-------|
| 100 | 38 | 1.005 |
| 125 | 30 | 1.849 |
| 160 | 36 | 1.688 |
| 200 | 37 | 0.361 |
| 250 | 42 | 0.781 |
| 315 | 44 | 0.954 |
| 400 | 52 | 0.529 |
| 500 | 55 | 0.748 |
| 630 | 55 | 0.387 |
| 800 | 56 | 0.200 |
| 1000 | 59 | 0.332 |
| 1250 | 60 | 0.245 |
| 1600 | 60 | 0.265 |
| 2000 | 64 | 0.245 |
| 2500 | 64 | 0.200 |
| 3150 | 66 | 0.346 |
| 4000 | 67 | 0.500 |
| 5000 | 69 | 0.548 |



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

STL = Sound Transmission Loss, dB
 Δ STL = Uncertainty for 95% Confidence Level

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