TEST REPORT

For

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Lyndhurst, NJ 07071
Maren Feindler
Tel. 201-508-6654

Sound Transmission Loss Test
ASTM E 90 - 04 / E 413 - 04
On

8 Inch (203mm) Concrete Slab Overlaid with
Engineered Hardwood Flooring Adhered with Sikabond-T35 Adhesive over
10mm Impacta-Regupol Probosce Underlayment Adhered with Sikabond-T35 Adhesive

Report Number: NGC 7011099
Assignment Number: G-709

Test Date: 08/19/2011
Report Date: 09/13/2011

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.
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Acoustical Testing Laboratory

Report Number: NGC 7011099


Specimen Description: 8 inch (203mm) Concrete Slab overlaid with, according to client, Engineered wood flooring with Sikabond-T35 adhesive over 10mm impacta-Regupol Probase underlayment adhered with Sikabond-T35 adhesive.

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

- 1 layer of 13.1mm (0.515 in.) Hard Maple Select V Engineered Hardwood flooring. Samples were 127mm (5 in.) wide, by random length planks.
  Sample weight was 7.5 kg/m² (1.54 PSF).
- 1 layer of Sikabond-T35 adhesive. Sample was troweled on using client supplied P5 trowel.
- 10mm-Impacta Regupol Probase underlayment, 10.0mm (0.395 in.) thick.
  Sample weight was 7.7 kg/m² (1.58 PSF).
- 1 layer of Sikabond-T35 adhesive. Sample was troweled on using client supplied P5 trowel.
- 203.2mm (8 in.) thick reinforced concrete slab 488.2 kg/m² (100.0 PSF).

The overall weight of the test assembly is 503.4 kg/m² (103.12 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.

Test Floor Size: 3657.6mm x 4876.8mm (12 ft. x 16 ft.).

Conditioning: Adhesive cured for minimum of 24 hours.
Concrete cured minimum of 28 days.

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

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1650 Military Road • Buffalo, NY 14217-1198
(716)873-9750 • Fax (716)873-9753 • www.ngctestingservices.com
## Normalized impact sound pressure level

<table>
<thead>
<tr>
<th>Test Report: NGC7011099</th>
<th>Page 3 of 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen Size [m²]:</td>
<td>17.8</td>
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</table>

**Source room** | **Receiving room**
--- | ---
Rm Temp [°C]: 26 | Volume [m³]: 63
Humidity [%]: 56 | Rm Temp [°C]: 23.5
| Humidity [%]: 48 |

**Impact Insulation Class IIC [dB]:** 54

### Sum of Unfavorable Deviations [dB]: 32

### Max. Unfavorable Deviation [dB]: 8

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- L_n = Normalized Sound Pressure Level, dB
- L2 = Receiving Room Level, dB
- d = Decay Time, dB/decade
- ΔL_n = Uncertainty for 95% Confidence Level
Normalized impact sound pressure level

Test: ASTM E 492 - 09 / ASTM E 989 - 06

Test Report: NGC7011099
Test Date: 8/19/2011
Specimen Size \([m^2]\): 17.8

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Impact Insulation Class IIC \([dB]\): 54

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

\[ L_n = \text{Normalized Sound Pressure Level, dB} \]

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