

Acoustical Testing Laboratory



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

TEST REPORT

For

Regupol America 33 Keystone Drive Lebanon, PA 17042 John Aten Tel. 800-537-8737 Sound Seal P.O. Box 545 Agawam, MA 01001 Bill Devin Tel. 413-789-1770 Sika Corporation 201 Polito Avenue 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 Probase Underlayment Adhered with Sikabond-T35 Adhesive

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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.

No responsibility is assumed for performance of any other specimen.

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Report Number: NGC 7011099

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 492-09 / E 989-06.

The uncertainty limits of each tapping machine location met the precision requirements of section

A1.4 of ASTM E 492-09.

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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Normalized impact sound	pressure le	evel
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17.8

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

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Test Report:

NGC7011099

Date: 8/19/2011

Specimen Size [m²]:

Source room

Receiving room Volume [m3]:

Rm Temp [°C]: 26

Rm Temp [°C]: 23.5

Humidity [%]:

Humidity [%]:

u.Dev.

Impact Insulation Class IIC [dB]:

Sum of Unfavorable Deviations [dB]:

54

315

Hz 8 Max. Unfavorable Deviation [dB]: at Corr. Frequency

Frequency	<u>-n</u>	Ln LZ		0011.	4.50	11-2-11
[Hz]	[dB]	[dB]	[dB/s]	[dB]	[dB]	
100	60	65.3	16.9	-5.3	2	3.24
125	58	63.4	18.0	-5.4		3.01
160	61	67.1	15.7	-6.1	3	1.44
200	62	67.5	15.8	-5.5	4	0.95
250	64	68.6	18.8	-4.6	6	0.53
315	66	71.1	18.3	-5.1	8	0.65
400	63	67.7	19.7	-4.7	6	0.43
500	59	63.4	20.7	-4.4	3	0.27
630	54	58.3	22.5	-4.3		0.31
800	47	51.3	22.9	-4.3		0.23
1000	41	45.2	25.0	-4.2		0.20
1250	37	40.4	27.6	-3.4		0.25
1600	31	34.2	30.1	-3.2		0.28
2000	26	28.8	32.9	-2.8		0.24
2500	21	24.3	35.6	-3.3		0.18
3150	18	21.2	40.3	-3.2		0.29
4000	18	20.3	44.9	-2.3		0.35
5000	14	16.4	51.3	-2.4		0.47

= Normalized Sound Pressure Level, dB

L2 = Receiving Room Level, dB

= Decay Time, dB/second d

= Uncertainty for 95% Confidence Level ΔL_n

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Normalized impact sound pressure level

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

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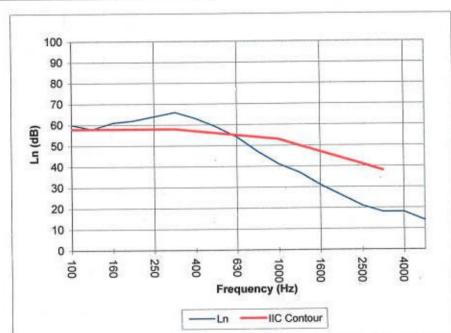
Test Report: NGC7011099 Test Date: 8/19/2011

Specimen Size [m2]:

17.8

Impact Insulation Class IIC [dB]: 54

requency	Ln		
[Hz]	[dB]		
100	60		
125	58		
160	61		
200	62		
250	64		
315	66		
400	63		
500	59		
630	54		
800	47		
1000	41		
1250	37		
1600	31		
2000	26		
2500	21		
3150	18		
4000	18		
5000	14		



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

L_n = Normalized Sound Pressure Level, dB

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