



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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SINCE 1896

REPORT

Intertek ETL SEMKO

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Date: May 24, 2007

Order No. 3124190

REPORT NO. 3124190CRT-001

**IMPACT SOUND TRANSMISSION TEST AND
CLASSIFICATION OF LAMINATE FLOORING
OVER QUIET FLOOR ULTRA™.
ON A SIX INCH CONCRETE SLAB**

RENDERED TO

RENDERED BY MANUFACTURER AND RELEASED TO:

Acoustical Surfaces, Inc.
123 Columbia Court North
Chaska, MN 55318

INTRODUCTION

This report gives the results of an Impact Sound Transmission tests and the determination of the Impact Insulation Class of 8 mm thick Quiet Floor™ Laminate flooring over QUIET FLOOR ULTRA™. The panels were selected and supplied by the client and received at the laboratories on April 12, 2007. The panels appeared to be in a new, unused condition.

AUTHORIZATION

Signed Intertek Quotation No. 500033487.

TEST METHOD

The specimen was tested in general accordance with the American Society for Testing and Materials designation ASTM E2179-03, "Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors".

An independent organization testing for safety, performance, and certification.

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TEST METHOD – Cont'd

Two vertically adjacent rooms are used: the upper one being designated the source room and the lower one the receiving room (10,000 ft³). A standard concrete floor is installed in an opening between them. The rooms and the floor installation are designed so the only significant sound radiation into the receiving room is from the standard concrete floor.

A standard tapping machine is placed and activated on the standard concrete floor and the impact sound pressure levels are measured in the room below. The floor covering to be evaluated is then placed on the standard concrete floor and the impact sound pressure levels measured again.

The differences in impact sound pressure level are used to calculate two single number ratings. The first is an IIC rating calculated for the covering installed on the reference concrete floor. The second rating, Δ IIC, represents the calculated reduction in IIC when the covering is placed on the reference concrete floor, that is the improvement in IIC due to the covering.

DESCRIPTION OF THE FLOOR/CEILING ASSEMBLY

The floor system consisted of a six inch thick concrete slab that forms the horizontal separation between two rooms. The slab is not isolated from the receiving room walls.

DESCRIPTION OF TEST SPECIMEN

The test specimen consisted of 8 mm thick Quiet Floor™ Laminate Flooring over 36 inch wide by 60 inch long by nominal ½ inch thick ACOUSTI-BOARD™ laid on the concrete floor. The panels were butted together to make up the test specimen. They weighed 1.2 pounds per square foot.





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RESULTS OF TEST

8MM Quiet Floor™ LAMINATE FLOORING OVER QUIET FLOOR ULTRA™

1/3 Octave Band Sound Pressure Level dB re 0.0002 Microbar

1/3 Octave Band Center Frequency Hertz	Test		Difference In dB	Reference Floor	Calculated Levels
	Bare Concrete	Specimen on Concrete			
100	61.1	62.0	-0.9	67.0	67.9
125	63.9	64.0	-0.1	67.5	67.6
160	65.8	67.0	-1.2	68.0	69.2
200	66.8	68.4	-1.6	68.5	70.1
250	67.8	67.1	0.7	69.0	68.3
315	68.4	63.8	4.6	69.5	64.9
400	68.8	61.8	7.0	70.0	63.0
500	69.6	59.7	9.9	70.5	60.6
630	70.0	56.3	13.7	71.0	57.3
800	71.6	51.9	19.7	71.5	51.8
1000	72.1	46.0	26.1	72.0	45.9
1250	74.0	42.5	31.5	72.0	40.5
1600	76.0	39.5	36.5	72.0	35.5
2000	78.1	38.9	39.2	72.0	32.8
2500	78.2	37.3	40.9	72.0	31.1
3150	77.8	37.0	40.8	72.0	31.2

Impact insulation Class (IIC)*

28

48

Calculated improvement in Impact Insulation Class: IIC 48 – IIC 28 = ΔIIC 20

*Classified in accordance with ASTM E989-89 (Re-approved 1999), entitled, "Standard Classification for Determination of Impact Insulation Class (IIC)".

The uncertainty limit of the impact noise test data is less than 3 dB for the 1/3 octave bands centered in the range from 100 to 400 Hz and less than 2.5 dB for the bands centered on the range from 500 to 3150 Hz.



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REMARKS

1. Aging Period: None
2. Ambient Temperature: 71°F
3. Relative Humidity: 41%

CONCLUSION

The test method employed for this test has no pass-fail criteria, therefore, the evaluation of the test results is left to the discretion of the client.

Date of Test: May 23, 2007

Report Approved by:

Patrick J. Schoof
Engineering Team Leader
Acoustical Testing

Report Reviewed By:

James R. Kline
Engineer/Quality Supervisor
Acoustical Testing

Attachments: None

