REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 101696388 Date: April 13, 2015

REPORT NO. 101696388CRT-007m

IMPACT SOUND TRANSMISSION TEST AND CLASSIFICATION OF TEST # 218273 ID: 5714 ZERO VINYL FLOORING OVER A SIX INCH CONCRETE SLAB

RENDERED TO

UPOFLOOR

INTRODUCTION

This report gives the result of an Impact Sound Transmission test on Test # 218273 ID: 5714 Zero flooring. The flooring was selected and supplied by the client and received at the laboratories on April 3, 2015. The flooring appeared to be in new, unused condition upon arrival.

AUTHORIZATION

Signed Intertek Quotation No. 500549055.

TEST METHOD

The specimen was tested in general accordance with the American Society for Testing and Materials designation ASTM E2179-09, “Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors”.

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 ft^3). 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, △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 UPOFLOOR Test # 218273 ID: 5714 Zero vinyl sheet flooring. The sheet vinyl measured 2 mm thick and weighed 0.63 $lbs./ft.^2$.

RESULTS OF TESTS

TEST # 218273 ID: 5714 ZERO VINYL FLOORING

1/3 Octave Band Center Frequency Hertz	1/3 Octave Band Sound Pressure Level dB re 0.0002 Microbar: Bare Concrete	Floor Tested	Difference in dB	Reference Floor	Final Array
100	67.3	65.6	1.7	67.0	65.3
125	68.3	67.1	1.2	67.5	66.3
160	71.0	69.9	1.1	68.0	66.9
200	71.4	70.3	1.1	68.5	67.4
250	72.1	71.1	1.0	69.0	68.0
315	74.0	72.2	1.8	69.5	67.7
400	73.5	72.1	1.4	70.0	68.6
500	74.6	72.9	1.7	70.5	68.8
630	74.6	72.8	1.8	71.0	69.2
800	75.7	73.3	2.4	71.5	69.1
1000	77.0	74.0	3.0	72.0	69.0
1250	79.1	75.3	3.8	72.0	68.2
1600	81.0	76.3	4.7	72.0	67.3
2000	83.3	77.7	5.6	72.0	66.4
2500	82.7	75.7	7.0	72.0	65.0
3150	82.2	72.8	9.4	72.0	62.6

Impact insulation Class (IIC)* 37

Calculated improvement in Impact Insulation Class: IIC 37 – IIC 28 = △IIC 9

*Classified in accordance with ASTM E989-06 (Reapproved 2012), 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.

REMARKS

1. Ambient Temperature: 71°F
2. Relative Humidity: 34%

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: April 8, 2015

Report Approved by:

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Report Reviewed By:

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Attachments: None