REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

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IMPACT SOUND TRANSMISSION TEST AND CLASSIFICATION OF 8 MM LAMINATE FLOORING OVER QUIETWALK UNDERLAYMENT OVER ON A SIX INCH CONCRETE SLAB

RENDERED TO

MP GLOBAL PRODUCTS LLC
2500 OLD HADAR ROAD
PO BOX 2283
NORFOLK, NE 68702

INTRODUCTION

This report gives the results of an Impact Sound Transmission test and the determination of the Impact Insulation Class of 8 mm laminate flooring over QuietWalk Underlayment. The underlayment was selected and supplied by the client and received at the laboratories on February 18, 2010. The sample appeared to be in a new, unused condition.

AUTHORIZATION

Intertek Quote No. 500212153.

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”.

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 8 mm laminate flooring over QuietWalk Underlayment. The underlayment was a fiber type with a vapor barrier on the top.

RESULTS OF TESTS

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	64.5	63.3	1.2	67.0	65.8
125	69.7	68.6	1.1	67.5	66.4
160	70.6	69.4	1.2	68.0	66.8
200	72.3	71.2	1.1	68.5	67.4
250	72.9	71.6	1.3	69.0	67.7
315	73.9	72.2	1.7	69.5	67.8
400	74.1	67.2	6.9	70.0	63.1
500	74.6	57.9	16.7	70.5	53.8
630	75.0	55.1	19.9	71.0	51.1
800	75.8	49.3	26.5	71.5	45.0
1000	77.1	44.3	32.8	72.0	39.2
1250	79.2	39.2	40.0	72.0	32.0
1600	81.1	37.4	43.7	72.0	28.3
2000	83.6	38.9	44.7	72.0	27.3
2500	83.0	37.5	45.5	72.0	26.5
3150	82.4	34.7	47.7	72.0	24.3
Impact insulation Class (IIC)*					50

Calculated improvement in Impact Insulation Class: IIC 50 – IIC 28 = ?IIC 22

*Classified in accordance with ASTM E989-06, 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. Curing Period: None.
2. Ambient Temperature: 69°F
3. Relative Humidity: 15%

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: February 18, 2010

Report Approved by:

Brian Cyr
Engineer
Acoustical Testing

Report Reviewed By:

James R. Kline
Engineer/Quality Supervisor
Acoustical Testing

Attachments: None