Intertek | Architectural Testing

G0665.07-113-11-R0
ACOUSTICAL PERFORMANCE TEST REPORT
ASTM E 90, ASTM E 492, ASTM E 2179

Rendered to

PROFLEX PRODUCTS, INC.

Series/Model: 12 mm Laminated Wood over LV200

Specimen Type: Concrete Slab - 152 mm

Overall Size: 3023 mm by 3632 mm

STC	**50**
IIC	**54**
ΔIIC	**23**

Test Specimen Identification:
Floor Topping: 12.1 mm KRAUS ALACANTI KPLA10001 Charleston Hickory Laminated Wood
Floor Underlayment: 1.8 mm Proflex Products LV200 Rubber Foam Pad
Floor Slab: 152 mm Concrete Slab

Reference should be made to Intertek-ATI Report G0665.07-113-11 for complete test specimen description. This page alone is not a complete report.

Architectural Testing

Acoustical Performance Test Report

PROFLEX PRODUCTS, INC.
2826 Broadway Center Boulevard
Brandon, Florida 33510

Report	G0665.07-113-11
Test Date	07/11/16
Report Date	06/16/17

Project Scope

This report is a reissue of the original Report No. G0665.03-113-11 and is rendered to Proflex Products, Inc. through written authorization. A summary of the results is listed in the Test Results section, and the complete test data is included as attachments to this report. The client provided the test specimen.

Test Methods

The acoustical tests were conducted in accordance with the following standards. The equipment listed in the attachments meets the requirements of the following standards.

ASTM E 90-09, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

ASTM E 413-10, Classification for Rating Sound Insulation

ASTM E 492-09(2016)e1, Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

ASTM E 2179-03(2016), Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

ASTM E 989-06 (2012), Classification for Determination of Impact Insulation Class (IIC)

ASTM E 2235-04 (2012) Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

Test Procedure

All testing was conducted in the VT test chambers at Intertek-ATI located in York, Pennsylvania. The microphones were calibrated before conducting the tests.

The airborne transmission loss test was conducted in accordance with the ASTM E 90 test method using the single direction method. Two background noise sound pressure level and five sound absorption measurements were conducted at each of five microphone positions. Four sound pressure level measurements were made simultaneously in both rooms, at each of five microphone positions.

Test Procedure (Continued)

The impact sound transmission test was conducted in accordance with the ASTM E 492 test method. Two background noise sound pressure level, two sound pressure level measurements with the tapping machine operating at each position specified by ASTM E 492, and five sound absorption measurements were conducted at each of five microphone positions.

The delta impact insulation test was conducted in accordance with ASTM E 2179 test method. In addition to the impact sound transmission test, two sound pressure level measurements with the tapping machine operating at each position specified by ASTM E 492 with only the concrete slab installed.

The air temperature and relative humidity conditions were monitored and recorded during all measurements.

Test Conditions

Source Room		Receive Room	
Average Temperature	21.9°C	Average Temperature	22.4°C
Average Relative Humidity	55%	Average Relative Humidity	61%

Test Calculations

The STC (Sound Transmission Class), IIC (Impact Insulation Class), and ΔIIC (Delta Impact Insulation Class) ratings were calculated in accordance with ASTM E 413, ASTM E 989, and ASTM E 2179, respectively.

Test Specimen Materials and Installation Details

Material	Dimensions (mm)	Thickness (mm)	Manufacturer and Series	Quantity	Average Weight
Laminated Wood	3023 by 3623	12.1	KRAUS ALACANTI KPLA10001 Charleston Hickory	10.98 m²	10.09 kg/m²
	Note: Loose laid				
Rubber Foam Pad	914 by 3048	1.8	Proflex Products LV200	10.98 m²	0.76 kg/m²
	Note: Loose laid				
Concrete Slab	3023 by 3632	152.0	N/A	10.98 m²	366.18 kg/m²
	Note: The concrete slab was installed in a test frame flush to the source room.				

Comments

The total weight of the floor/ceiling assembly was 4139.8 kg. Intertek-ATI will store samples of the test specimen for four years. Photographs of the test specimen are included in the attachments. A drawing of the test specimen is included in the attachments.

This report is reissued in the name of Proflex Products, Inc. through written authorization from the original report holder.

Intertek-ATI will service this report for the entire test record retention period. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period. The test record retention period ends four years after the test date.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen tested. This report is intended to help in the client's quality assurance program, but it does not represent a continuous or exhaustive evaluation of the specimen tested or of other products or materials that were not evaluated. The statements and data provided herein do not constitute approval, disapproval, certification, or acceptance of performance or materials.

FOR INTERTEK-ATI:

cody Snyder
Digitally Signed by: Cody Snyder

Jordan Strybos
Digitally Signed by: Jordan Strybos

Cody R. Snyder	Jordan Strybos
Technician II - Acoustical Testing	Project Manager - Acoustical Testing

Attachments (9 Pages): This report is complete only when all attachments are included.

** Stated by Client/Manufacturer*
N/A - Non Applicable

Revision Log

Revision	Date	Page(s)	Description
R0	06/16/17	N/A	Original Report Issue - Reissue of Report No. G0665.03-113-11 in the name of Proflex Products, Inc..