F6428.01-113-11-R1
ACOUSTICAL PERFORMANCE TEST REPORT
ASTM E 90 AND ASTM E 492

Rendered to

DURA UNDERCUSHIONS LTD.

Series/Model: Dura-Son 3.5 mm (Nominal) Underlayment with 14 mm Engineered Wood Floor

Specimen Type: 203 mm Concrete Slab with Drop Ceiling

Overall Size: 3023 mm by 3632 mm

STC	**63**
IIC	**69**

Test Specimen Identification:
Floor Topping: 14.2 mm Engineered Wood Floor
Floor Underlayment: 3.5 mm (Nominal) Dura-Son Underlayment
Floor Slab: 203 mm Concrete Slab
Main Beams: 43 mm Armstrong HD8906 Drywall Main Beam
Cross Tees: 37.3 mm Armstrong XL8945P Cross Tee
Insulation: 88.9 mm Johns Manville Kraft Faced R-13 Fiberglass Insulation
Ceiling: 15.9 mm USG SHEETROCK® Brand FIRECODE® C Core Gypsum Panel

Reference should be made to Intertek-ATI Report F6428.01-113-11 for complete test specimen description. This page alone is not a complete report.

Acoustical Performance Test Report

DURA UNDERCUSHIONS LTD.
8525 Delmeade Road
Montreal, Québec H4T 1M1
CANADA

Report	F6428.01-113-11
Test Date	03/14/16
Report Date	03/22/16
Revision Date	04/12/16

Project Scope

Architectural Testing, Inc., a subsidiary of Intertek (Intertek-ATI), was contracted to conduct airborne sound transmission loss and impact sound transmission tests. The complete test data is included as attachments to this report. The client provided the test specimen. The specimen was constructed on the date of testing.

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, Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
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.