

REPORT

3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 105030300

Revision Date: December 29, 2022

Date: August 28, 2022

REPORT NO. 105030300CRT-003f**SOUND TRANSMISSION LOSS TEST AND
CLASSIFICATION OF TEST #289065
ID: LIONS FLOOR BAMBINO/VERSA COLLECTION
OVER A WOOD JOIST FLOOR/CEILING ASSEMBLY
WITH A 0.75 INCH THICK GYPSUM CONCRETE TOPPING****RENDERED TO****LIONS FLOOR****INTRODUCTION**

This report gives the result of a Sound Transmission Loss test on material. The sample was selected and supplied by the client and received at the laboratories on August 2, 2022. The material appeared to be in new, unused condition upon arrival.

AUTHORIZATION

Signed Intertek Quotation No. Qu-01259122-0

TEST METHOD

The specimen was tested in general accordance with the American Society for Testing and Materials designation ASTM E90-09 (2016), "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements", and classified in accordance with the American Society for Testing and Materials designation ASTM E413-16, "Classification for Rating Sound Insulation". The size of the source room for the measurements is smaller than the minimum recommended of 125m³. This leads to slightly elevated uncertainties in the measurement data at low frequencies and does not allow microphones to be placed in full accordance with section A.2.

GENERAL

The sound-insulating property of a partition element is expressed in terms of the sound transmission loss. The procedure for determining this quantity is to mount (and perimeter seal) the test specimen as a partition between two reverberation rooms. Sound is introduced in one of the rooms (the source room) and measurements are made of the noise reduction between source room and receiving room. The rooms are so arranged and constructed that the only significant sound transmission between them is through the test specimen.

The purpose of the Sound Transmission Class (STC) is to provide a single figure rating that can be used for comparing the sound-insulating properties of partition elements used for general building design purposes. The higher the rating (STC) the greater the sound insulating properties of the partition.

DESCRIPTION OF THE FLOOR/CEILING ASSEMBLY

The test floor is a 100 sq. ft. opening that forms the horizontal separation of the two rooms, one directly above the other. The materials used in the assembly from top to bottom are:

- 0.75 inch thick Gypsum Concrete
- ¾ inch thick tongue & groove OSB decking (glued and screwed)
- 18 inch high Open Web Trusses (spaced 24 inches on center)
- 3.5 inch, unfaced insulation installed at the top of the cavities
- Dietrich RC Deluxe Resilient Channels (spaced 16 inches on center) fastened at every intersection
- One layer of 5/8 inch thick Type C Gypsum Board (taped and finished with compound)

DESCRIPTION OF TEST SPECIMEN

The test specimen consisted of Test Number: #289065 ID: Lions Floor Bambino/Versa Collection. The locking flooring planks with resilient backing measured 7.00 inches wide by 48 inches long by 0.18 inches thick. The flooring weighed 1.65 lbs./ft².

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1/3 Octave Band Center Frequency <u>Hertz</u>	<u>Sound Transmission Loss in dB</u>
80	30
100	37
125	36
160	35
200	46
250	45
315	49
400	50
500	53
630	53
800	55
1000	53
1250	53
1600	55
2000	53
2500	56
3150	62
4000	67
5000	68
Sound Transmission Class	53

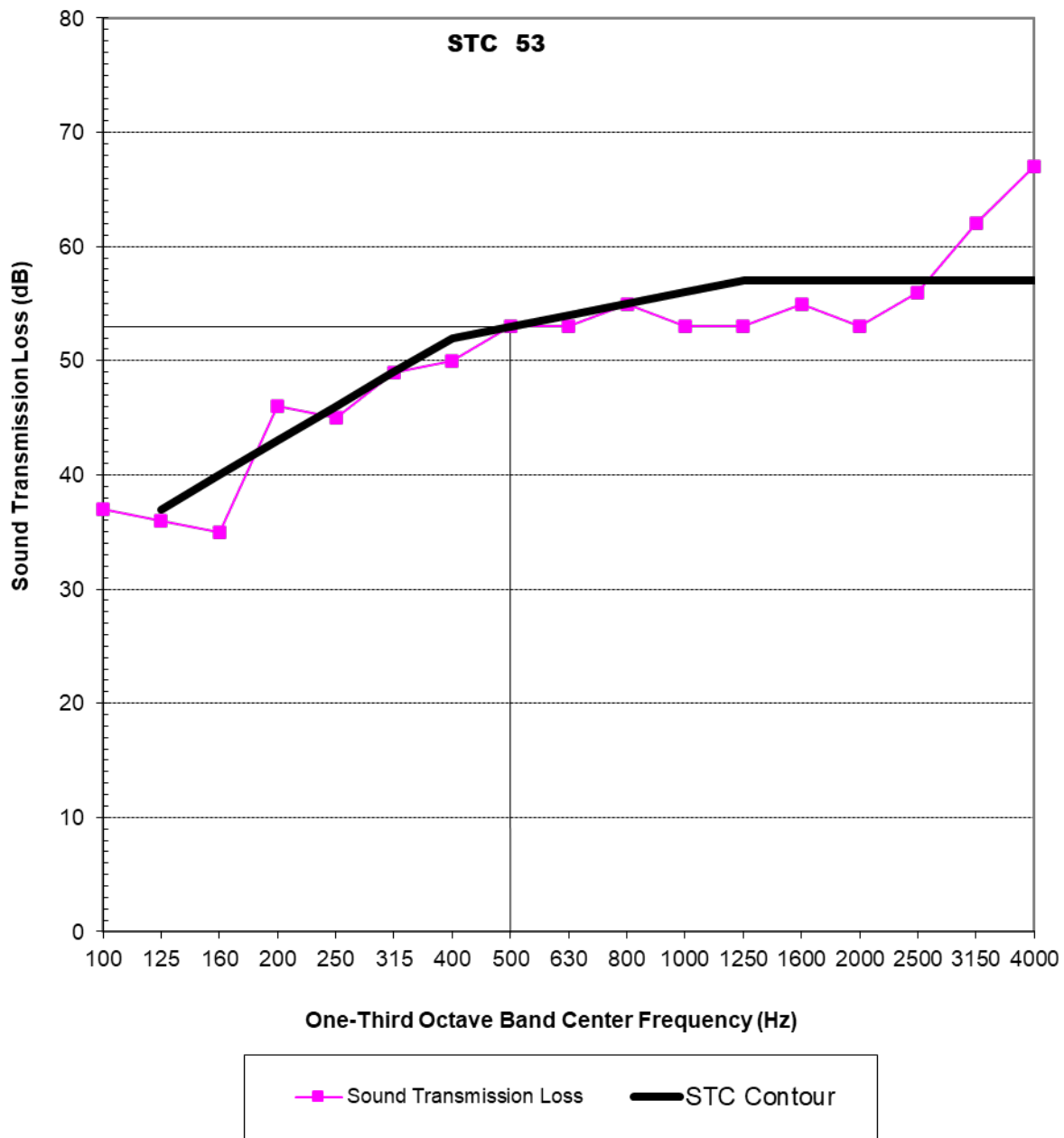
PRECISION

For the Intertek flooring test facility, the 95% confidence interval Δ TL, is as follows:

<u>Range of One-Third Octave Bands</u>	<u>Transmission Loss 95% Confidence Uncertainty, dB</u>
125 and 200	<4.0
250 and 315	<2.0
400 - 4000	<1.5

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Sound Transmission Loss



FLOOR AND DECOR

REMARKS

1. Ambient Temperature: 73°F
2. Relative Humidity: 61%

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: August 17, 2022

Report Approved by:

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Revision History				
#	Revision Date	Updated By	Reviewed By	Description of Change
1	12/29/2022	Joey Esce 	Kristie Ray 	Updated product descriptions to include the Versa collection

Attachments: None