

TEST REPORT FOR U.S. RUBBER RECYCLING, INC.

Report No.: H3852.02-303-11-R0

Date: 09/05/19

SECTION 10

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS



TEST DATE	8/9/2017				
DATA FILE NO.	H3852.02				
CLIENT	U.S. Rubber Recycling, Inc.				
DESCRIPTION	8.05 mm Armstrong Luxe Plank Luxury Vinyl Flooring, 5.3 mm U.S. Rubber QuietSound Crumb and Buff Recycled Rubber Underlayment, 203.2 mm 5000 PSI Concrete Slab				
SPECIMEN AREA	11.15 m ²	Receive Temp.	22.4°C	Source Temp.	21°C
TECHNICIAN	LSH	Receive Humidity	50%	Source Humidity	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m ²	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	29.2	6.1	100.2	63.9	39.0	2.2	-
100	28.1	6.7	102.3	67.9	37.0	1.9	-
125	34.6	4.1	102.3	66.2	40.0	1.5	0
160	26.4	5.0	100.7	64.0	40.0	1.8	1
200	20.3	6.2	99.6	64.4	38.0	1.0	6
250	18.8	6.9	97.4	59.7	40.0	1.1	7
315	15.9	7.8	99.9	59.9	42.0	1.0	8
400	12.3	7.1	100.1	56.1	46.0	0.8	7
500	11.1	6.3	99.2	50.0	52.0	0.9	2
630	8.5	6.3	96.5	39.2	60.0	0.7	0
800	6.3	6.3	95.5	34.3	64.0	0.4	0
1000	7.7	6.3	97.0	29.7	70.0	0.6	0
1250	4.7	6.4	98.1	29.1	71.0	0.4	0
1600	3.0	6.7	98.7	30.8	70.0	0.6	0
2000	3.8	7.4	99.1	29.6	71.0	0.5	0
2500	4.6	8.4	99.2	28.6	72.0	0.4	0
3150	5.1	9.2	99.7	25.1	75.0	0.5	0
4000	5.0	10.7	98.8	23.5	76.0	0.5	0
5000	5.2	13.2	96.1	17.1	78.0	0.8	-
6300	5.6	16.7	95.0	15.0	78.0	0.8	-
8000	6.0	22.3	95.0	12.4	80.0	0.9	-
10000	6.3	29.2	94.6	9.3	81.0	0.8	-
STC Rating	54	<i>(Sound Transmission Class)</i>			Sum of Deficiencies	31	

- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.
 - 2) Specimen TL levels listed in red are potentially limited by the laboratory flanking limit.
 - 3) Specimen TL levels listed in blue indicate the lower limit of the transmission loss.
 - 4) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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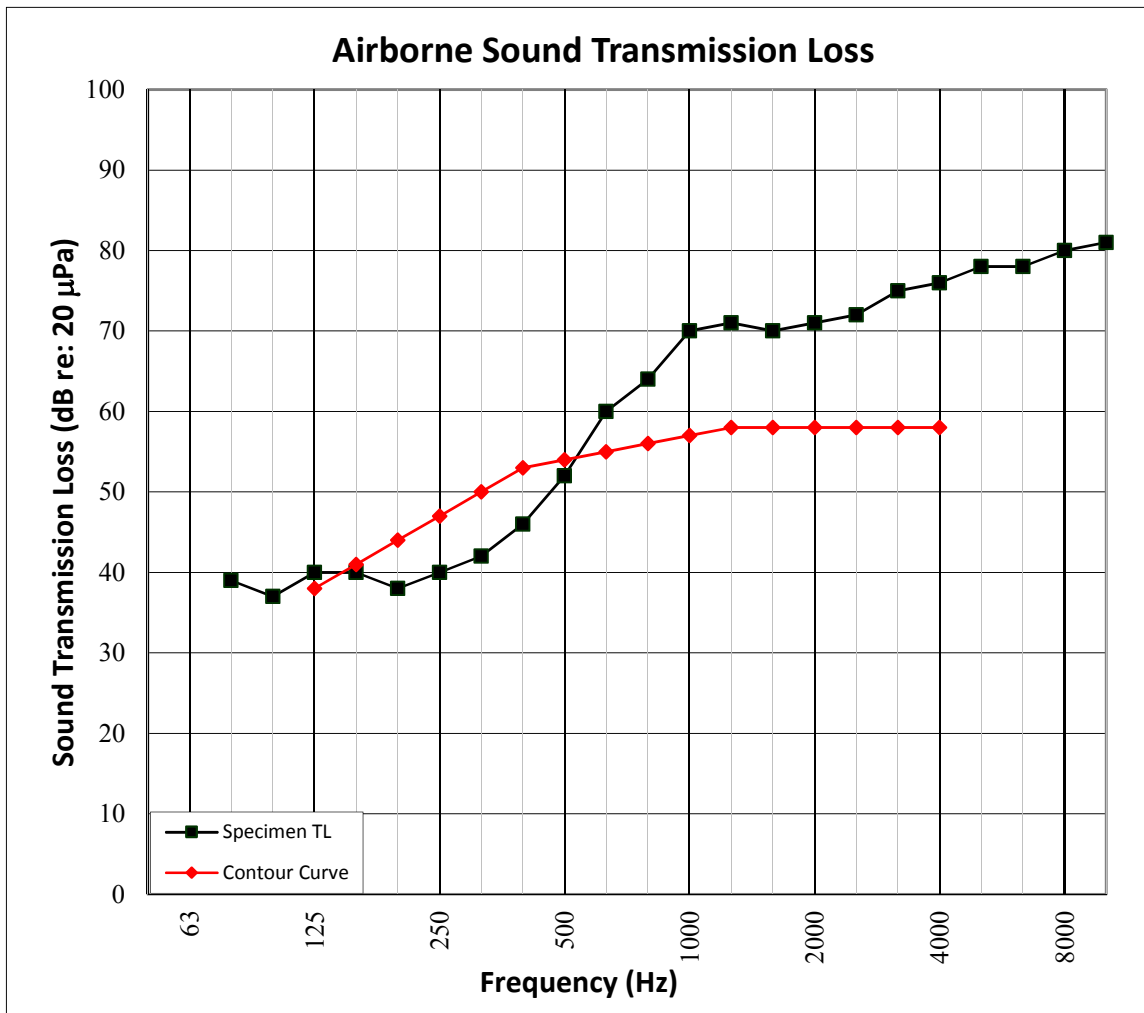
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SECTION 11

TEST RESULTS - AIRBORNE SOUND TRANSMISSION LOSS GRAPH



TEST DATE	8/9/2017				
DATA FILE NO.	H3852.02				
CLIENT	U.S. Rubber Recycling, Inc.				
DESCRIPTION	8.05 mm Armstrong Luxe Plank Luxury Vinyl Flooring, 5.3 mm U.S. Rubber QuietSound Crumb and Buff Recycled Rubber Underlayment, 203.2 mm 5000 PSI Concrete Slab				
SPECIMEN AREA	11.15 m ²	Receive Temp.	22.4°C	Source Temp.	21°C
TECHNICIAN	LSH	Receive Humidity	50%	Source Humidity	50%



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SECTION 12

TEST RESULTS - IMPACT SOUND TRANSMISSION



TEST DATE	8/9/2017				
DATA FILE NO.	H3852.02				
CLIENT	U.S. Rubber Recycling, Inc.				
DESCRIPTION	8.05 mm Armstrong Luxe Plank Luxury Vinyl Flooring, 5.3 mm U.S. Rubber QuietSound Crumb and Buff Recycled Rubber Underlayment, 203.2 mm 5000 PSI Concrete Slab				
SPECIMEN AREA	11.15 m ²	Maximum Temp.	22.4°C	Minimum Temp.	21°C
TECHNICIAN	LSH	Max. Humidity	50%	Min. Humidity	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m ²	NORMALIZED IMPACT SPL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	31.7	6.33	54	1.50	-
100	28.8	5.96	54	1.30	0
125	31	4.36	53	1.00	0
160	25.7	5.01	61	1.20	3
200	19.6	6.16	66	1.20	8
250	17.9	7.02	61	0.60	3
315	16.6	7.58	61	1.30	3
400	12.9	7.11	57	0.70	0
500	11.9	6.19	54	0.80	0
630	9.1	6.26	49	0.50	0
800	6.6	6.30	41	0.30	0
1000	7.8	6.29	30	0.30	0
1250	4.8	6.43	27	0.40	0
1600	2.8	6.65	23	0.20	0
2000	3.7	7.51	22	0.30	0
2500	4.5	8.29	21	0.40	0
3150	5	9.36	19	0.50	0
4000	4.9	10.63	15	0.70	-
5000	5.2	13.19	10	0.60	-
6300	5.7	16.96	7	0.50	-
8000	6	22.37	8	0.40	-
10000	6.3	29.09	9	0.20	-
IIC Rating	54	<i>(Impact Insulation Class)</i>		Sum of Deficiencies	17

Notes: Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.

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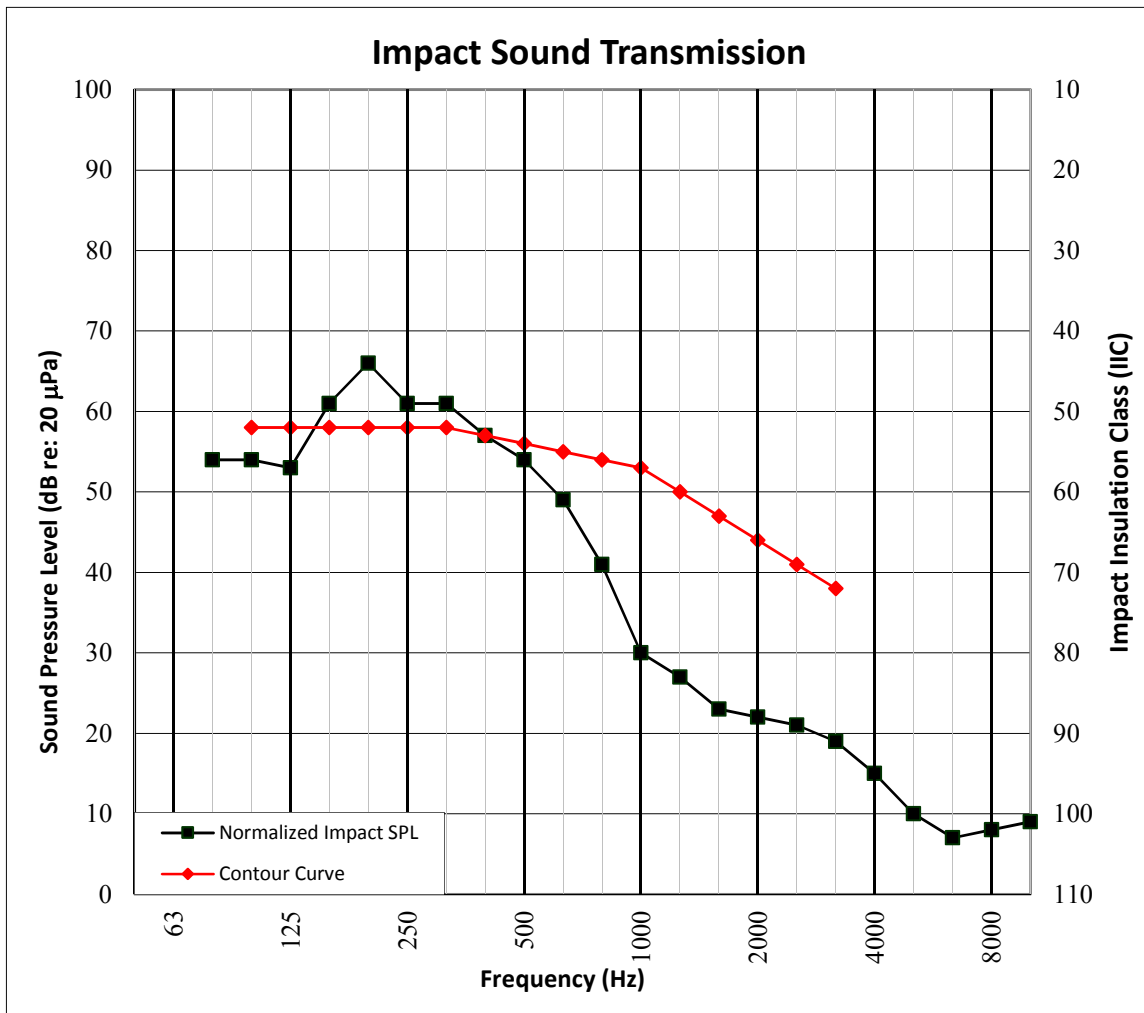
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SECTION 13

TEST RESULTS - IMPACT SOUND TRANSMISSION GRAPH



TEST DATE	8/9/2017				
DATA FILE NO.	H3852.02				
CLIENT	U.S. Rubber Recycling, Inc.				
DESCRIPTION	8.05 mm Armstrong Luxe Plank Luxury Vinyl Flooring, 5.3 mm U.S. Rubber QuietSound Crumb and Buff Recycled Rubber Underlayment, 203.2 mm 5000 PSI Concrete Slab				
SPECIMEN AREA	11.15 m ²	Maximum Temp.	22.4°C	Minimum Temp.	21°C
TECHNICIAN	LSH	Max. Humidity	50%	Min. Humidity	50%



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SECTION 14

TEST RESULTS - DELTA IMPACT INSULATION



TEST DATE	8/9/2017				
DATA FILE NO.	H3852.02				
CLIENT	U.S. Rubber Recycling, Inc.				
DESCRIPTION	8.05 mm Armstrong Luxe Plank Luxury Vinyl Flooring, 5.3 mm U.S. Rubber QuietSound Crumb and Buff Recycled Rubber Underlayment, 203.2 mm 5000 PSI Concrete Slab				
SPECIMEN AREA	11.15 m ²	Maximum Temp.	22.4°C	Minimum Temp.	21°C
TECHNICIAN	LSH	Max. Humidity	50%	Min. Humidity	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION m ²	NORMALIZED IMPACT SPL BARE (dB)	95% CONF LIMIT	NORMALIZED IMPACT SPL SPEC (dB)	95% CONF LIMIT	RESULT ARRAY L _{ref,c}	NUMBER OF DEFICIENCIES
100	28.7964959	5.96	52.2	1.4	54.1	1.7	69.0	7
125	30.9699371	4.36	53.0	2.1	53.3	1.2	68.0	6
160	25.7362838	5.01	61.6	1.3	61.5	1.5	68.0	6
200	19.6248128	6.16	67.9	1.7	65.8	1.4	66.0	4
250	17.9149833	7.02	63.7	0.8	61.0	0.7	66.0	4
315	16.6435206	7.58	66.0	1.6	61.1	1.6	65.0	3
400	12.9184445	7.11	64.9	0.9	57.2	0.9	62.0	1
500	11.8712193	6.19	65.7	0.8	54.2	1.0	59.0	0
630	9.14340447	6.26	66.6	0.4	48.7	0.6	53.0	0
800	6.63308194	6.30	66.5	0.4	40.6	0.4	46.0	0
1000	7.83170466	6.29	66.3	0.4	29.9	0.4	36.0	0
1250	4.77624134	6.43	67.6	0.5	26.7	0.4	31.0	0
1600	2.84055638	6.65	68.5	0.3	23.0	0.3	26.0	0
2000	3.70027423	7.51	68.4	0.4	22.1	0.4	26.0	0
2500	4.54019718	8.29	69.3	0.5	20.9	0.5	24.0	0
3150	4.96717528	9.36	70.5	0.6	18.7	0.7	20.0	0

Notes: Receive Room levels less than 5 dB above the Background levels are highlighted in yellow.

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SECTION 15

TEST RESULTS - DELTA IMPACT INSULATION GRAPH



TEST DATE	8/9/2017				
DATA FILE NO.	H3852.02				
CLIENT	U.S. Rubber Recycling, Inc.				
DESCRIPTION	8.05 mm Armstrong Luxe Plank Luxury Vinyl Flooring, 5.3 mm U.S. Rubber QuietSound Crumb and Buff Recycled Rubber Underlayment, 203.2 mm 5000 PSI Concrete Slab				
SPECIMEN AREA	11.15 m ²	Maximum Temp.	22.4°C	Minimum Temp.	21°C
TECHNICIAN	LSH	Max. Humidity	50%	Min. Humidity	50%

