



E6458.01-113-11-R0
ACOUSTICAL PERFORMANCE TEST REPORT
ASTM C423

Rendered to

LOFTwall, Inc.

Type: Various Office Screens

| Summary of Test Results | | | | | | | | | |
|--------------------------------|-----------------------|--|------------|------------|-------------|-------------|-------------|------------|------------|
| Data File Number | Series / Model | 1/3 Octave Sound Absorption Coefficients at the Octave Band Frequencies | | | | | | NRC | SAA |
| | | 125 | 250 | 500 | 1000 | 2000 | 4000 | | |
| E6458.01A | Wave Screen | 0.00 | 0.06 | 0.13 | 0.05 | 0.02 | 0.01 | 0.05 | 0.07 |
| E6458.01B | Tackable Felt Panel | 0.03 | 0.08 | 0.09 | 0.09 | 0.12 | 0.25 | 0.10 | 0.11 |
| E6458.01C | Recycled Sound Board | 0.22 | 0.38 | 0.42 | 0.47 | 0.52 | 0.60 | 0.45 | 0.46 |
| E6458.01D | Foam Molded Panel | 0.05 | 0.04 | 0.05 | 0.07 | 0.21 | 0.36 | 0.10 | 0.11 |
| E6458.01E | Flex Screen | 0.03 | 0.03 | 0.03 | 0.05 | 0.08 | 0.23 | 0.05 | 0.06 |
| E6458.01F | Monument | 0.09 | 0.19 | 0.40 | 0.61 | 0.69 | 0.80 | 0.45 | 0.49 |

Reference should be made to Intertek-ATI Report No. E6458.01-113-11 for complete test specimen description. This page alone is not a complete report.



Acoustical Performance Test Report

LOFTwall, Inc.
4705 Vicksburg Street
Dallas, Texas 75207

| | |
|-------------|-----------------|
| Report | E6458.01-113-11 |
| Test Date | 05/06/15 |
| Report Date | 05/20/15 |

Project Scope

Architectural Testing, Inc., an Intertek company ("Intertek-ATI"), was contracted to conduct a sound absorption test. The complete test data is included as Appendix B of this report. The client provided the test specimen.

Test Methods

Testing for this project was conducted in accordance with the following standards. The equipment listed in the attachments meets the requirements of the following standards.

ASTM C423-09a, *Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method*

ASTM E795-05 (2012), *Standard Practices for Mounting Test Specimens During Sound Absorption Tests*

Test Procedure

All measurements were conducted in the HT test chamber receive room at Intertek-ATI located in York, Pennsylvania. The sensitivity of the microphones was checked before measurements were conducted. Empty room sound absorption measurements were conducted before the specimen was installed. Full room sound absorption measurements were conducted after the specimen was installed.

For the empty and full room measurements, ten decay measurements were conducted at each of the five microphone positions. Data was obtained at 1/3 octave band frequencies ranging from 80 to 5000 hertz. The air temperature and relative humidity conditions were monitored and recorded during the measurements.

Specimen Mounting

For the Type K mounting, the test specimens were freestanding in the reverberation room. All units were able to stand independently by design.

Test Calculations

The Sound Absorption Coefficient is the full room absorption minus the empty room absorption divided by the area of the sample in m². The Sound Absorption Coefficient is dimensionless.

The Noise Reduction Coefficient (NRC) rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000 and 2000 hertz. The average is rounded to the nearest multiple of 0.05.

The Sound Absorption Average (SAA) rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.

Sample Description

The client identified each test specimen with a series/model. A description of each specimen was not provided. The client did not supply a report drawing of the test specimen. The specimens were returned per the client's request.

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.

This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For INTERTEK-ATI:


Digitally Signed by: Eric Thompson

Eric A. Thompson
Technician - Acoustical Testing


Digitally Signed by: Todd D. Kister

Todd D. Kister
Laboratory Supervisor – Acoustical Testing

EAT:jmcs

Attachments (pages): This report is complete only when all attachments listed are included.

- Appendix-A: Equipment description (1)
- Appendix-B: Complete test results (12)
- Appendix-C: Photographs (3)



Revision Log

| <u>Rev. #</u> | <u>Date</u> | <u>Page(s)</u> | <u>Revision(s)</u> |
|---------------|-------------|----------------|-----------------------|
| R0 | 05/20/15 | N/A | Original Report Issue |

Appendix A

Instrumentation:

| Instrument | Manufacturer | Model | Description | ATI Number | Date of Calibration |
|--------------------------------------|----------------------|----------|-----------------------------|------------|---------------------|
| Data Acquisition Unit | National Instruments | PXI-1033 | Data Acquisition card | 65127 | 04/14 * |
| Receive Room Microphone | PBC Piezotronics | 378B20 | Microphone and Preamplifier | 64907 | 11/14 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64908 | 11/14 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64909 | 11/14 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64910 | 11/13 |
| Receive Room Microphone | PCB Piezotronics | 378B20 | Microphone and Preamplifier | 64911 | 11/14 |
| Receive Room Environmental Indicator | Vaisala | HMW92 | Temperature Humidity Sensor | 64286 | 06/14 |
| Microphone Calibrator | Norsonic | 1251 | Pistonphone Calibrator | 65105 | 04/15 |

*- Note: The calibration frequency for this equipment is every two years per the manufacturer's recommendation.

Test Chamber:

| | Volume | Description |
|--------------|--|---|
| Receive Room | 234 m ³ (8291.3 ft ³) | Rotating vane and stationary diffusers Temperature and humidity controlled Isolation pads under the floor |

N/A-Non Applicable



E6458.01-113-11-R0

Appendix B

Complete Test Results



SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|---------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01A | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Wave Screen | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21 | 21 |
| RH % | 49 | 48 |
| B.P. (mb) | 1023 | |

| Freq (Hz) | Empty Room Absorption (m ²) | Uncertainty | Full Room Absorption (m ²) | Uncertainty | Absorption Coefficient | Relative Uncertainty |
|-----------|---|-------------|--|-------------|------------------------|----------------------|
| 80 | 4.52 | 0.556 | 4.41 | 0.544 | 0.00 | 0.116 |
| 100 | 4.49 | 0.499 | 4.50 | 0.317 | 0.00 | 0.088 |
| 125 | 4.35 | 0.272 | 4.36 | 0.351 | 0.00 | 0.066 |
| 160 | 4.26 | 0.212 | 4.40 | 0.167 | 0.02 | 0.040 |
| 200 | 4.13 | 0.130 | 4.34 | 0.227 | 0.03 | 0.039 |
| 250 | 4.47 | 0.082 | 4.87 | 0.085 | 0.06 | 0.018 |
| 315 | 4.84 | 0.049 | 5.54 | 0.075 | 0.11 | 0.013 |
| 400 | 5.01 | 0.054 | 5.88 | 0.071 | 0.13 | 0.013 |
| 500 | 5.05 | 0.036 | 5.91 | 0.070 | 0.13 | 0.012 |
| 630 | 4.63 | 0.036 | 5.47 | 0.026 | 0.12 | 0.007 |
| 800 | 4.64 | 0.030 | 5.12 | 0.036 | 0.07 | 0.007 |
| 1000 | 4.74 | 0.028 | 5.10 | 0.017 | 0.05 | 0.005 |
| 1250 | 5.24 | 0.016 | 5.45 | 0.022 | 0.03 | 0.004 |
| 1600 | 5.27 | 0.030 | 5.47 | 0.009 | 0.03 | 0.005 |
| 2000 | 5.16 | 0.004 | 5.26 | 0.123 | 0.02 | 0.018 |
| 2500 | 5.36 | 0.018 | 5.80 | 0.338 | 0.07 | 0.050 |
| 3150 | 5.82 | 0.003 | 5.97 | 0.011 | 0.02 | 0.002 |
| 4000 | 6.01 | 0.008 | 6.11 | 0.009 | 0.01 | 0.002 |
| 5000 | 6.39 | 0.006 | 6.50 | 0.010 | 0.02 | 0.002 |

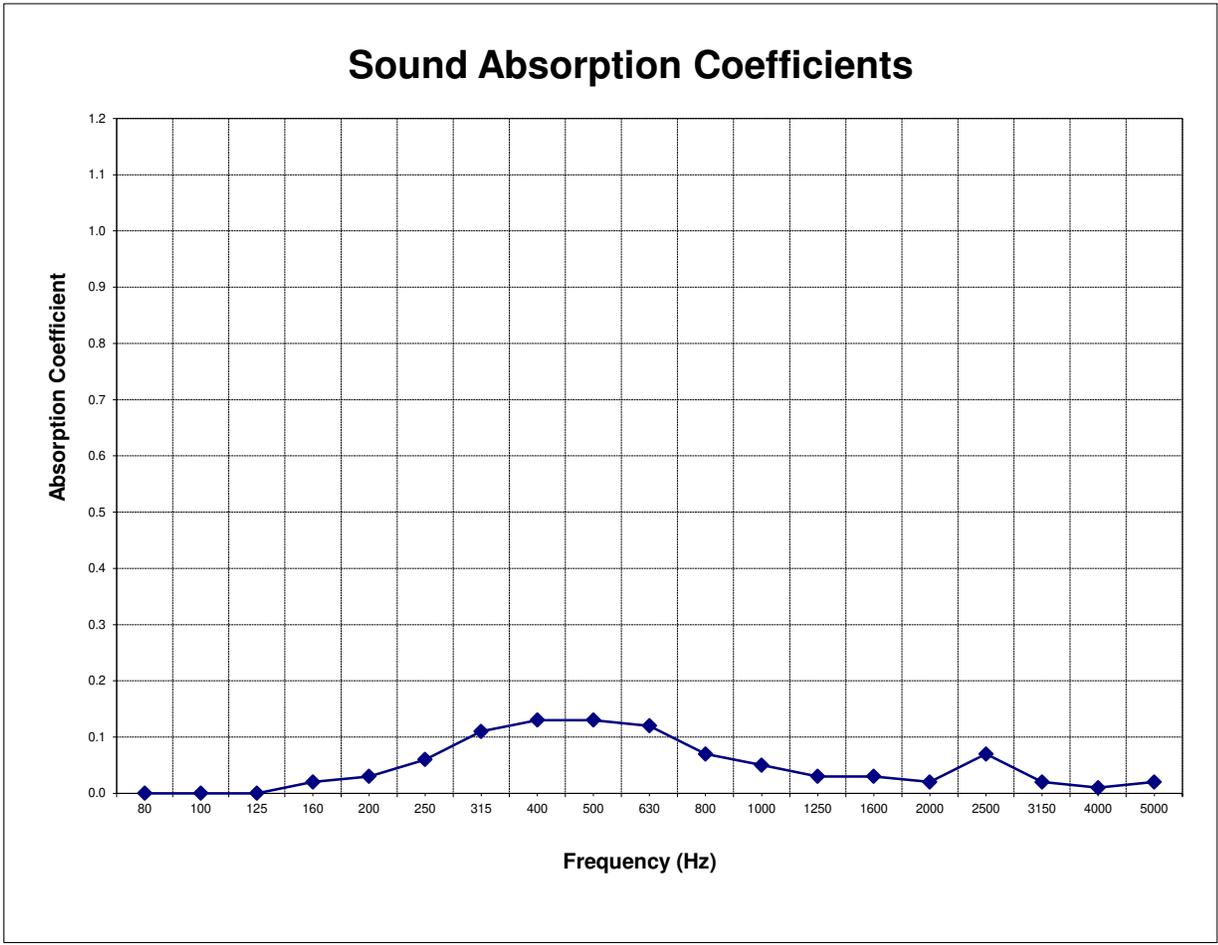
NRC Rating **0.05** *(Noise Reduction Coefficient)*
SAA Rating **0.07** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.



SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|---------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01A | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Wave Screen | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21.0 | 20.9 |
| RH % | 49 | 48 |
| B.P. (mb) | 1023 | |





SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|-----------------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01B | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Tackable Felt Panel | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21 | 22 |
| RH % | 49 | 48 |
| B.P. (mb) | 1023 | |

| Freq (Hz) | Empty Room Absorption (m ²) | Uncertainty | Full Room Absorption (m ²) | Uncertainty | Absorption Coefficient | Relative Uncertainty |
|-----------|---|-------------|--|-------------|------------------------|----------------------|
| 80 | 4.52 | 0.556 | 4.92 | 0.270 | 0.06 | 0.092 |
| 100 | 4.49 | 0.499 | 4.67 | 0.349 | 0.03 | 0.091 |
| 125 | 4.35 | 0.272 | 4.54 | 0.315 | 0.03 | 0.062 |
| 160 | 4.26 | 0.212 | 4.69 | 0.164 | 0.06 | 0.040 |
| 200 | 4.13 | 0.130 | 4.86 | 0.095 | 0.11 | 0.024 |
| 250 | 4.47 | 0.082 | 5.03 | 0.068 | 0.08 | 0.016 |
| 315 | 4.84 | 0.049 | 5.43 | 0.079 | 0.09 | 0.014 |
| 400 | 5.01 | 0.054 | 5.59 | 0.085 | 0.09 | 0.015 |
| 500 | 5.05 | 0.036 | 5.63 | 0.067 | 0.09 | 0.011 |
| 630 | 4.63 | 0.036 | 5.17 | 0.024 | 0.08 | 0.006 |
| 800 | 4.64 | 0.030 | 5.22 | 0.006 | 0.09 | 0.005 |
| 1000 | 4.74 | 0.028 | 5.35 | 0.018 | 0.09 | 0.005 |
| 1250 | 5.24 | 0.016 | 5.92 | 0.023 | 0.10 | 0.004 |
| 1600 | 5.27 | 0.030 | 6.05 | 0.016 | 0.12 | 0.005 |
| 2000 | 5.16 | 0.004 | 5.97 | 0.147 | 0.12 | 0.022 |
| 2500 | 5.36 | 0.018 | 6.85 | 0.310 | 0.22 | 0.046 |
| 3150 | 5.82 | 0.003 | 7.27 | 0.008 | 0.22 | 0.001 |
| 4000 | 6.01 | 0.008 | 7.71 | 0.009 | 0.25 | 0.002 |
| 5000 | 6.39 | 0.006 | 8.33 | 0.007 | 0.29 | 0.001 |

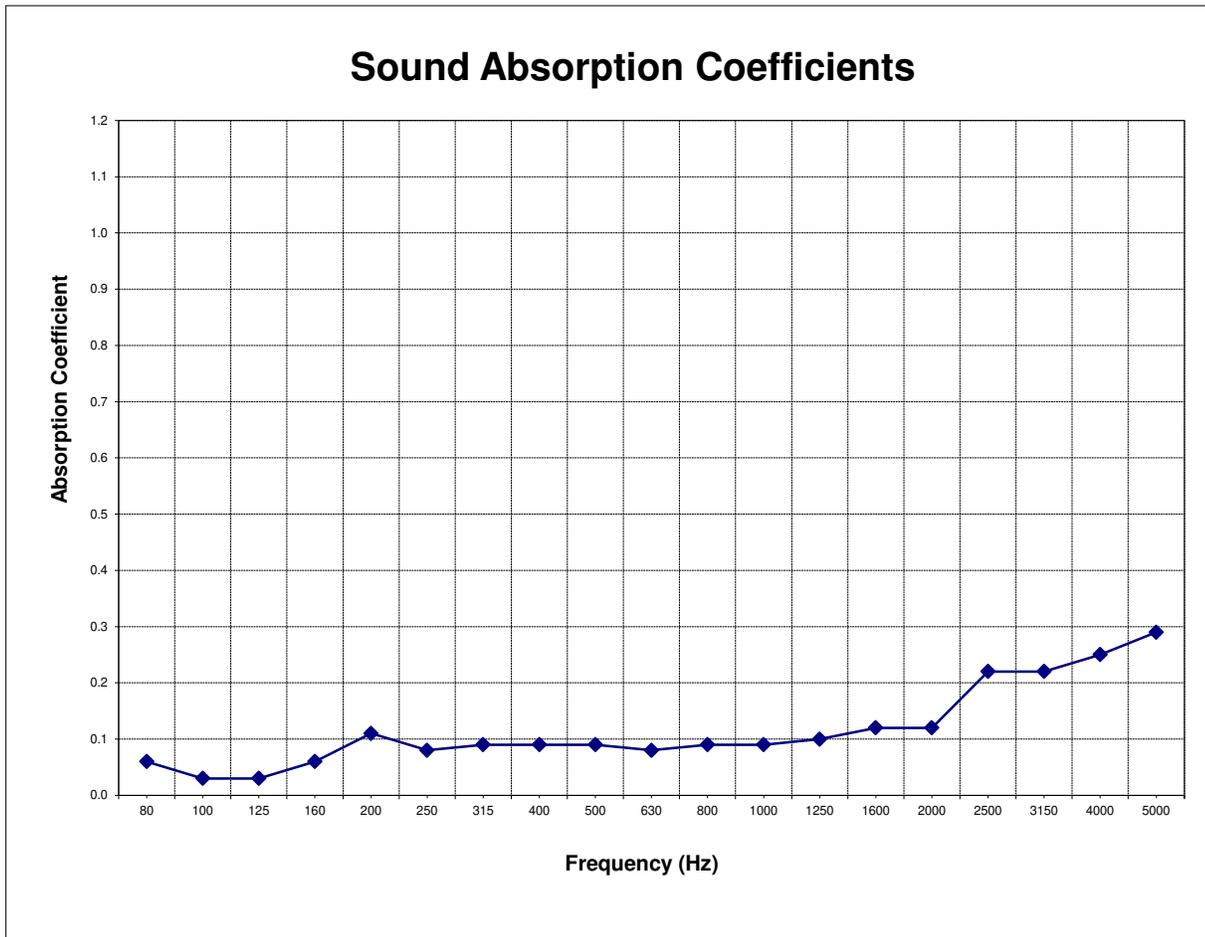
NRC Rating **0.10** *(Noise Reduction Coefficient)*
SAA Rating **0.11** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.



SOUND ABSORPTION ASTM C 423

| | | |
|----------------------|-----------------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01B | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Tackable Felt Panel | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21.0 | 21.7 |
| RH % | 49 | 48 |
| B.P. (mb) | 1023 | |





SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|------------------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01C | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Recycled Sound Board | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21 | 22 |
| RH % | 52 | 51 |
| B.P. (mb) | 1023 | |

| Freq (Hz) | Empty Room Absorption (m ²) | Uncertainty | Full Room Absorption (m ²) | Uncertainty | Absorption Coefficient | Relative Uncertainty |
|-----------|---|-------------|--|-------------|------------------------|----------------------|
| 80 | 4.52 | 0.556 | 6.01 | 0.159 | 0.22 | 0.086 |
| 100 | 4.50 | 0.499 | 5.74 | 0.445 | 0.19 | 0.100 |
| 125 | 4.36 | 0.272 | 5.86 | 0.510 | 0.22 | 0.086 |
| 160 | 4.27 | 0.212 | 6.25 | 0.166 | 0.30 | 0.040 |
| 200 | 4.14 | 0.130 | 6.43 | 0.160 | 0.34 | 0.031 |
| 250 | 4.48 | 0.082 | 7.06 | 0.080 | 0.38 | 0.017 |
| 315 | 4.85 | 0.049 | 7.50 | 0.065 | 0.40 | 0.012 |
| 400 | 5.02 | 0.054 | 7.77 | 0.041 | 0.41 | 0.010 |
| 500 | 5.06 | 0.036 | 7.88 | 0.071 | 0.42 | 0.012 |
| 630 | 4.64 | 0.036 | 7.61 | 0.030 | 0.44 | 0.007 |
| 800 | 4.64 | 0.030 | 7.72 | 0.024 | 0.46 | 0.006 |
| 1000 | 4.74 | 0.028 | 7.88 | 0.014 | 0.47 | 0.005 |
| 1250 | 5.25 | 0.016 | 8.52 | 0.023 | 0.49 | 0.004 |
| 1600 | 5.29 | 0.030 | 8.76 | 0.025 | 0.52 | 0.006 |
| 2000 | 5.21 | 0.004 | 8.72 | 0.066 | 0.52 | 0.010 |
| 2500 | 5.44 | 0.018 | 9.54 | 0.182 | 0.61 | 0.027 |
| 3150 | 5.97 | 0.003 | 9.88 | 0.011 | 0.58 | 0.002 |
| 4000 | 6.26 | 0.008 | 10.25 | 0.005 | 0.60 | 0.001 |
| 5000 | 6.77 | 0.006 | 10.79 | 0.011 | 0.60 | 0.002 |

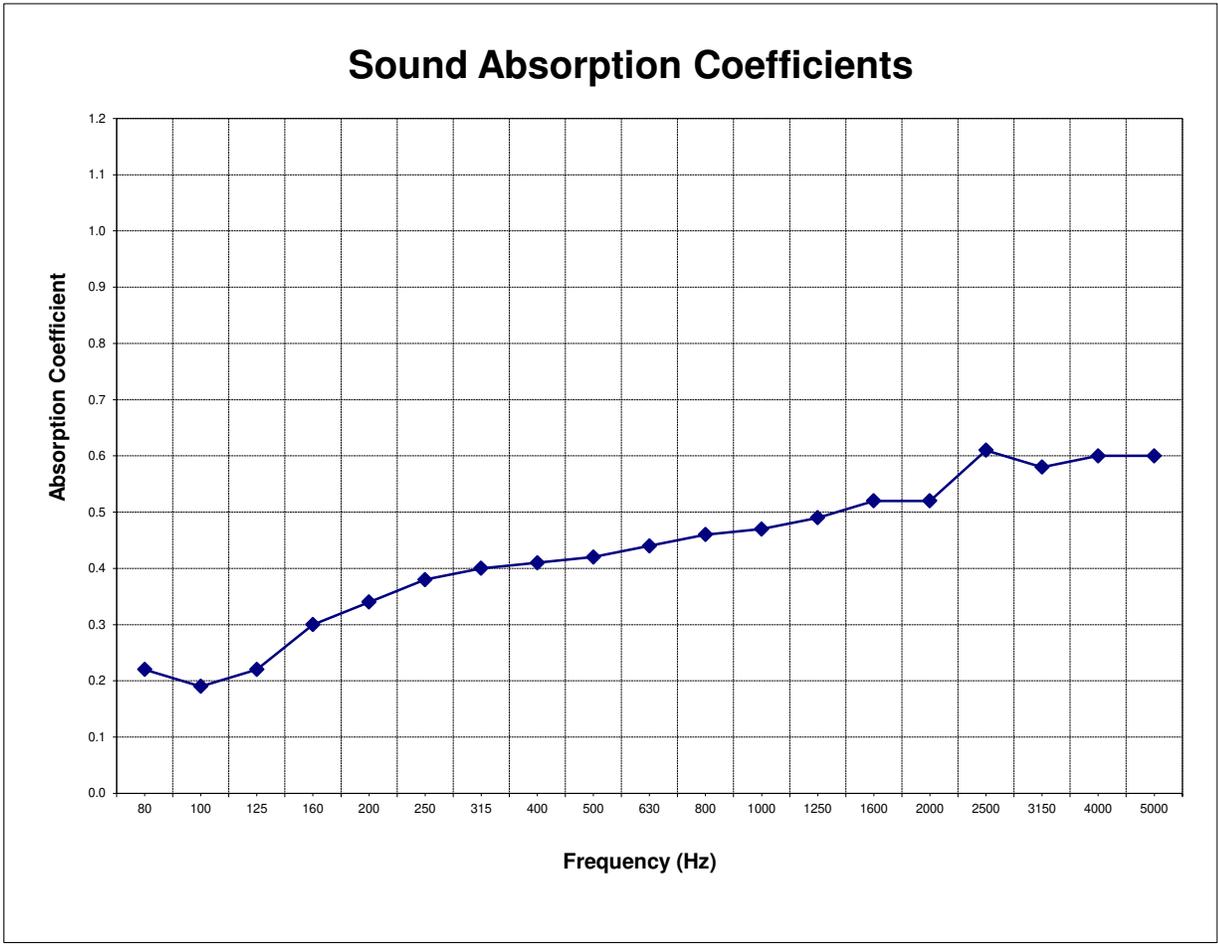
NRC Rating **0.45** *(Noise Reduction Coefficient)*
SAA Rating **0.46** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.



SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|------------------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01C | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Recycled Sound Board | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 20.7 | 21.7 |
| RH % | 52 | 51 |
| B.P. (mb) | 1023 | |





SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|---------------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01D | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Foam Molded Panel | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21 | 22 |
| RH % | 52 | 51 |
| B.P. (mb) | 1023 | |

| Freq (Hz) | Empty Room Absorption (m ²) | Uncertainty | Full Room Absorption (m ²) | Uncertainty | Absorption Coefficient | Relative Uncertainty |
|-----------|---|-------------|--|-------------|------------------------|----------------------|
| 80 | 4.52 | 0.556 | 5.19 | 0.342 | 0.10 | 0.097 |
| 100 | 4.50 | 0.499 | 4.85 | 0.295 | 0.05 | 0.086 |
| 125 | 4.36 | 0.272 | 4.68 | 0.279 | 0.05 | 0.058 |
| 160 | 4.27 | 0.212 | 4.43 | 0.188 | 0.02 | 0.042 |
| 200 | 4.14 | 0.130 | 4.37 | 0.127 | 0.03 | 0.027 |
| 250 | 4.48 | 0.082 | 4.76 | 0.073 | 0.04 | 0.016 |
| 315 | 4.85 | 0.049 | 5.14 | 0.069 | 0.04 | 0.013 |
| 400 | 5.02 | 0.054 | 5.32 | 0.067 | 0.04 | 0.013 |
| 500 | 5.06 | 0.036 | 5.38 | 0.087 | 0.05 | 0.014 |
| 630 | 4.64 | 0.036 | 4.95 | 0.029 | 0.05 | 0.007 |
| 800 | 4.64 | 0.030 | 5.06 | 0.018 | 0.06 | 0.005 |
| 1000 | 4.74 | 0.028 | 5.23 | 0.019 | 0.07 | 0.005 |
| 1250 | 5.25 | 0.016 | 5.94 | 0.017 | 0.10 | 0.004 |
| 1600 | 5.29 | 0.030 | 6.34 | 0.007 | 0.16 | 0.005 |
| 2000 | 5.21 | 0.004 | 6.62 | 0.234 | 0.21 | 0.035 |
| 2500 | 5.44 | 0.018 | 8.42 | 0.182 | 0.44 | 0.027 |
| 3150 | 5.97 | 0.003 | 8.47 | 0.011 | 0.37 | 0.002 |
| 4000 | 6.26 | 0.008 | 8.69 | 0.006 | 0.36 | 0.002 |
| 5000 | 6.77 | 0.006 | 9.02 | 0.011 | 0.33 | 0.002 |

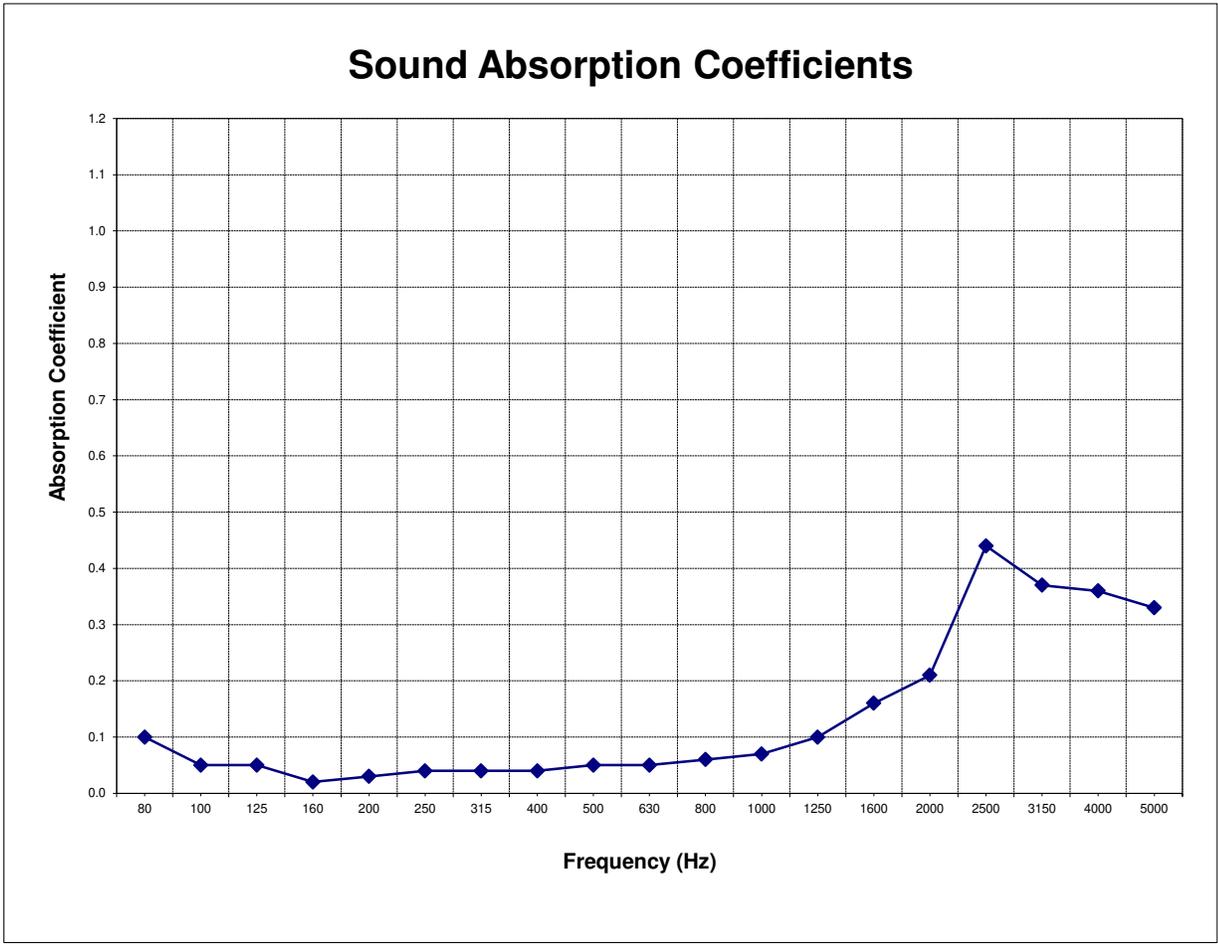
NRC Rating **0.10** *(Noise Reduction Coefficient)*
SAA Rating **0.11** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.



SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|---------------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01D | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Foam Molded Panel | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.71 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 20.7 | 21.7 |
| RH % | 52 | 51 |
| B.P. (mb) | 1023 | |





SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|---------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01E | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Flex Screen | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.96 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21 | 21 |
| RH % | 52 | 52 |
| B.P. (mb) | 1023 | |

| Freq (Hz) | Empty Room Absorption (m ²) | Uncertainty | Full Room Absorption (m ²) | Uncertainty | Absorption Coefficient | Relative Uncertainty |
|-----------|---|-------------|--|-------------|------------------------|----------------------|
| 80 | 4.52 | 0.556 | 4.95 | 0.432 | 0.06 | 0.101 |
| 100 | 4.50 | 0.499 | 4.68 | 0.555 | 0.03 | 0.107 |
| 125 | 4.36 | 0.272 | 4.54 | 0.279 | 0.03 | 0.056 |
| 160 | 4.27 | 0.212 | 4.39 | 0.214 | 0.02 | 0.043 |
| 200 | 4.14 | 0.130 | 4.39 | 0.129 | 0.04 | 0.026 |
| 250 | 4.48 | 0.082 | 4.67 | 0.104 | 0.03 | 0.019 |
| 315 | 4.85 | 0.049 | 5.01 | 0.059 | 0.02 | 0.011 |
| 400 | 5.02 | 0.054 | 5.22 | 0.049 | 0.03 | 0.010 |
| 500 | 5.06 | 0.036 | 5.29 | 0.151 | 0.03 | 0.022 |
| 630 | 4.64 | 0.036 | 4.92 | 0.020 | 0.04 | 0.006 |
| 800 | 4.64 | 0.030 | 4.99 | 0.036 | 0.05 | 0.007 |
| 1000 | 4.74 | 0.028 | 5.11 | 0.020 | 0.05 | 0.005 |
| 1250 | 5.25 | 0.016 | 5.66 | 0.026 | 0.06 | 0.004 |
| 1600 | 5.29 | 0.030 | 5.78 | 0.019 | 0.07 | 0.005 |
| 2000 | 5.21 | 0.004 | 5.74 | 0.176 | 0.08 | 0.025 |
| 2500 | 5.44 | 0.018 | 7.13 | 0.378 | 0.24 | 0.054 |
| 3150 | 5.97 | 0.003 | 8.15 | 0.003 | 0.31 | 0.001 |
| 4000 | 6.26 | 0.008 | 7.85 | 0.011 | 0.23 | 0.002 |
| 5000 | 6.77 | 0.006 | 8.76 | 0.009 | 0.29 | 0.002 |

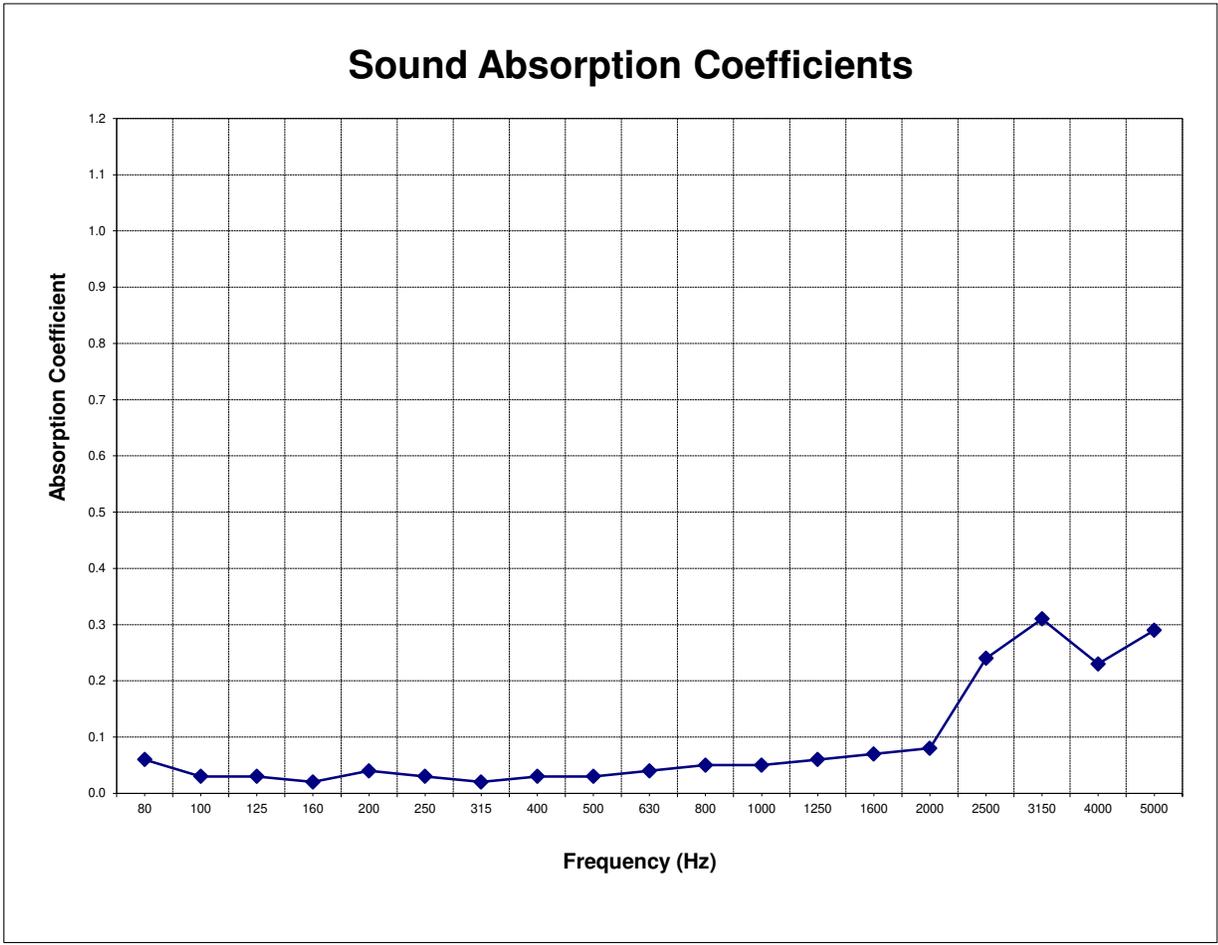
NRC Rating **0.05** *(Noise Reduction Coefficient)*
SAA Rating **0.06** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.



SOUND ABSORPTION ASTM C 423

| | | |
|----------------------|---------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01E | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Flex Screen | |
| Operator | Eric A. Thompson | |
| Sample Area | 6.96 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 20.7 | 21.4 |
| RH % | 52 | 52 |
| B.P. (mb) | 1023 | |





SOUND ABSORPTION
ASTM C 423

| | | |
|----------------------|------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01F | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Monument | |
| Operator | Eric A. Thompson | |
| Sample Area | 5.33 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 21 | 21 |
| RH % | 52 | 52 |
| B.P. (mb) | 1023 | |

| Freq (Hz) | Empty Room Absorption (m ²) | Uncertainty | Full Room Absorption (m ²) | Uncertainty | Absorption Coefficient | Relative Uncertainty |
|-----------|---|-------------|--|-------------|------------------------|----------------------|
| 80 | 4.52 | 0.556 | 4.64 | 0.392 | 0.02 | 0.128 |
| 100 | 4.50 | 0.499 | 4.76 | 0.559 | 0.05 | 0.141 |
| 125 | 4.36 | 0.272 | 4.85 | 0.376 | 0.09 | 0.087 |
| 160 | 4.27 | 0.212 | 4.77 | 0.137 | 0.09 | 0.047 |
| 200 | 4.14 | 0.130 | 4.87 | 0.195 | 0.14 | 0.044 |
| 250 | 4.48 | 0.082 | 5.51 | 0.092 | 0.19 | 0.023 |
| 315 | 4.85 | 0.049 | 6.17 | 0.085 | 0.25 | 0.018 |
| 400 | 5.02 | 0.054 | 6.72 | 0.031 | 0.32 | 0.012 |
| 500 | 5.06 | 0.036 | 7.22 | 0.228 | 0.40 | 0.043 |
| 630 | 4.64 | 0.036 | 7.37 | 0.030 | 0.51 | 0.009 |
| 800 | 4.64 | 0.030 | 7.77 | 0.021 | 0.59 | 0.007 |
| 1000 | 4.74 | 0.028 | 7.99 | 0.018 | 0.61 | 0.006 |
| 1250 | 5.25 | 0.016 | 8.66 | 0.010 | 0.64 | 0.004 |
| 1600 | 5.29 | 0.030 | 8.78 | 0.022 | 0.65 | 0.007 |
| 2000 | 5.21 | 0.004 | 8.88 | 0.109 | 0.69 | 0.020 |
| 2500 | 5.44 | 0.018 | 9.94 | 0.186 | 0.84 | 0.035 |
| 3150 | 5.97 | 0.003 | 10.30 | 0.008 | 0.81 | 0.002 |
| 4000 | 6.26 | 0.008 | 10.50 | 0.004 | 0.80 | 0.002 |
| 5000 | 6.77 | 0.006 | 11.00 | 0.006 | 0.79 | 0.002 |

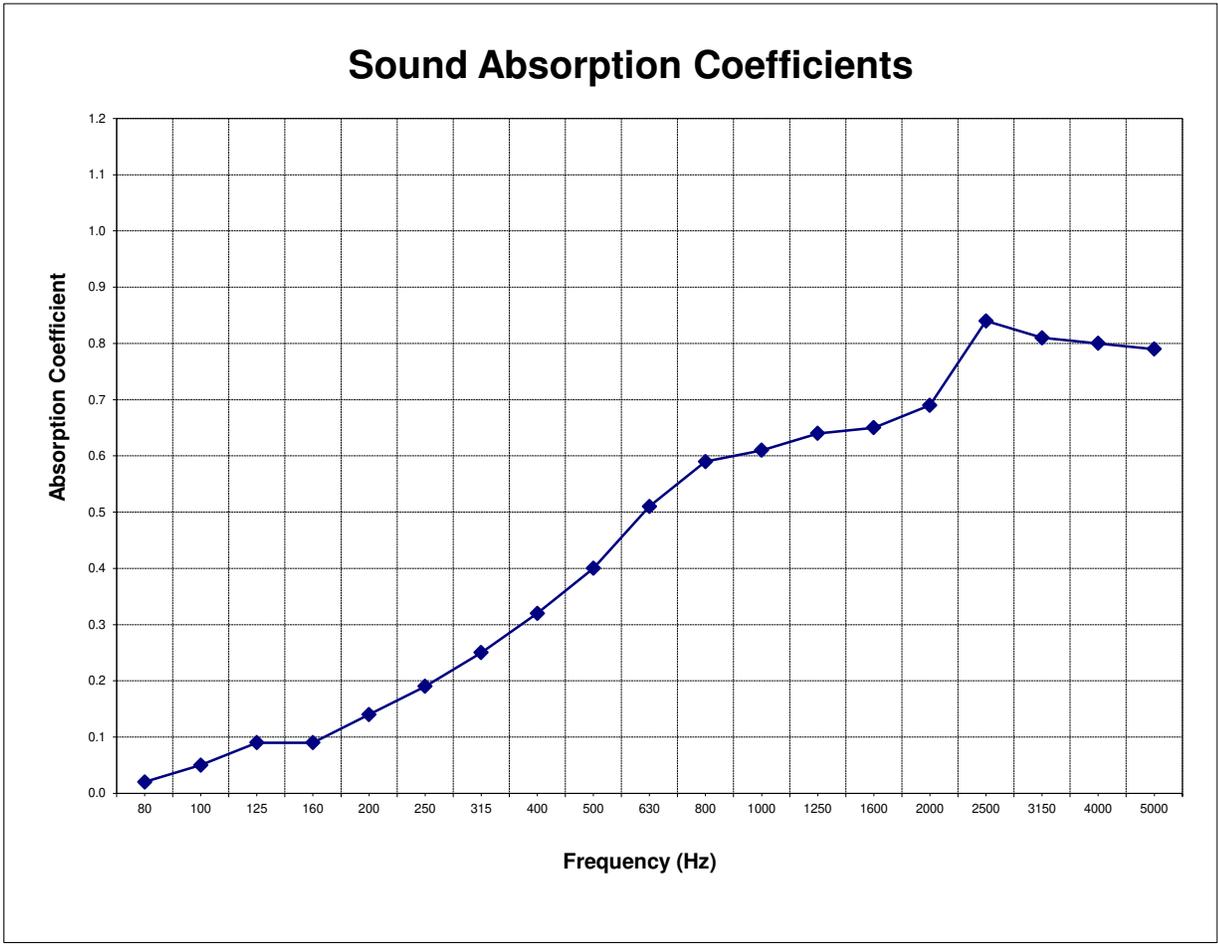
NRC Rating **0.45** *(Noise Reduction Coefficient)*
SAA Rating **0.49** *(Sound Absorption Average)*

- Notes:
- 1) The NRC rating is the arithmetic average of the sound absorption coefficients at 250, 500, 1000, and 2000 hertz. The average is rounded to the nearest multiple of 0.05.
 - 2) The SAA rating is the arithmetic average of the sound absorption coefficients at the frequencies ranging from 200 to 2500 hertz. The average is rounded to the nearest multiple of 0.01.



SOUND ABSORPTION ASTM C 423

| | | |
|----------------------|------------------------|------|
| Test Date | 05/06/15 | |
| ATI No. | E6458.01F | |
| Client | LOFTwall, Inc. | |
| Specimen | Series/Model: Monument | |
| Operator | Eric A. Thompson | |
| Sample Area | 5.33 m ² | |
| Mounting Type | Type K | |
| | Empty | Full |
| Temp C | 20.7 | 21.4 |
| RH % | 52 | 52 |
| B.P. (mb) | 1023 | |



Appendix C

Photographs



Test Option A



Test Option B



Test Option C



Test Option D



Test Option E



Test Option F