

## TEST REPORT

for

**Rose Brand® Wipers, Inc.**  
4 Emerson Lane  
Secaucus, NJ 07094  
Joe Leduc / 201-809-1730

**Sound Absorption Testing**  
ASTM C 423-23/ E795-23

On

**Athena 16oz - 100% Fullness  
Type G Mounting**

Report Number: NGC 4024033

Assignment Number: G-1941

Test Date: 10/07/2024

Report Approval Date: 10/09/2024

Submitted by: \_\_\_\_\_

Anthony J. Rivers  
Acoustical Test Engineer



Reviewed by: \_\_\_\_\_

Michael J. Rizzo  
General Manager



The results reported above apply to specific samples submitted for measurement. No responsibility is assumed for performance of any other specimen. The laboratory's accreditation or any of its test reports in no way constitute or imply product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government. This report may not be reproduced except in full, without written approval of the laboratory.

**Revision Summary:**

| Date                      | SUMMARY   |
|---------------------------|---|
| Approval Date: 10/09/2024 | Original issue date: 10/09/2024<br>Original NGCTS report: NGC 4024033 |

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Test Method: This test method conforms explicitly with the American Society for Testing and Materials Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method - Designation: C 423-23 / E795-23.

For the test, a Linear Averaging Mode is used as the Averaging Algorithm when measuring the Decay Times.

Specimen Description: Designated by client as: Athena 16oz - 100% Fullness

The test specimen was observed to have the following characteristics:

Drape Identification: Athena 16oz - 100% Fullness

Fullness: 0%

All weights and dimension are averaged:

Measured dimensions: 2743.2 mm x 2438.4 mm (108 in. x 96 in.)

Weight: 1.03 kg/m<sup>2</sup> (0.21 PSF)

Unit Size: 1 Unit, 2743.2 mm x 2438.4 mm (108 in. x 96 in.)

Mounting: Type G-100 as per ASTM E795-23. For this testing, the metal G Mount frame was spaced 4 inches from the test chamber wall.

Total Sample Size: 72.00 Sq. Ft. (6.689 m<sup>2</sup>)

Preconditioning: Minimum 24 hours at 70°F, 55% R.H

Test Results: The results of the tests are given on pages 4 and 5 of the report.

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| Sound Absorption Test Data per C423 - 23   |  |                        |                              |  | Page 4 of 5 |
|--|--|------------------------|------------------------------|--|-------------|
| No. of test report:  |  | NGC4024033             |                              | Date of test: 10/7/2024                    |             |
| Temp. [°C]: 25.0   |  | Humidity [%]: 50       |                              | Spec. Size [m <sup>2</sup> ]: 6.689        |             |
| Atmospheric pressure [kPa]: 100  |  |                        |                              |  |             |
| Frequency [Hz]   | Absorption Coefficients a <sub>s</sub> | Avg. Decay Rate        |                              |  |             |
|  |  | Empty d (empty) [dB/s] | Specimen d (specimen) [dB/s] |  |             |
| 100  | 0.26                                   | 8.54                   | 10.87                        |  |             |
| 125  | 0.38                                   | 9.81                   | 13.24                        |  |             |
| 160  | 0.24                                   | 8.33                   | 10.49                        |  |             |
| 200  | 0.38                                   | 7.69                   | 11.10                        |  |             |
| 250  | 0.58                                   | 7.90                   | 13.08                        |  |             |
| 315  | 0.62                                   | 7.35                   | 12.89                        |  |             |
| 400  | 0.81                                   | 6.91                   | 14.11                        |  |             |
| 500  | 0.74                                   | 6.74                   | 13.36                        |  |             |
| 630  | 0.76                                   | 6.75                   | 13.48                        |  |             |
| 800  | 0.74                                   | 6.56                   | 13.14                        |  |             |
| 1000   | 0.84                                   | 6.75                   | 14.20                        |  |             |
| 1250   | 0.91                                   | 7.39                   | 15.49                        |  |             |
| 1600   | 0.91                                   | 7.71                   | 15.83                        |  |             |
| 2000   | 0.89                                   | 8.83                   | 16.79                        |  |             |
| 2500   | 0.86                                   | 9.14                   | 16.81                        |  |             |
| 3150   | 0.94                                   | 9.62                   | 18.04                        |  |             |
| 4000   | 0.97                                   | 9.53                   | 18.17                        |  |             |
| 5000   | 0.96                                   | 9.40                   | 17.99                        |  |             |
| Reverberation Room Volume:   |  | 282.1                  |                              | m <sup>3</sup>                             |             |
| <b>Noise Reduction Coefficient NRC:</b>  |  | <b>0.75</b>            |                              | Avg. 250, 500, 1000, 2000 Hz: <b>0.763</b> |             |
| <b>Sound Absorption Average SAA:</b>   |  | <b>0.75</b>            |                              | Avg. 200 - 2500 Hz: <b>0.753</b>           |             |
| NOTE: Estimates of repeatability and reproducibility for sound absorption coefficients of a specimen are referenced in ASTM C423 - 23 test method. |  |                        |                              |  |             |

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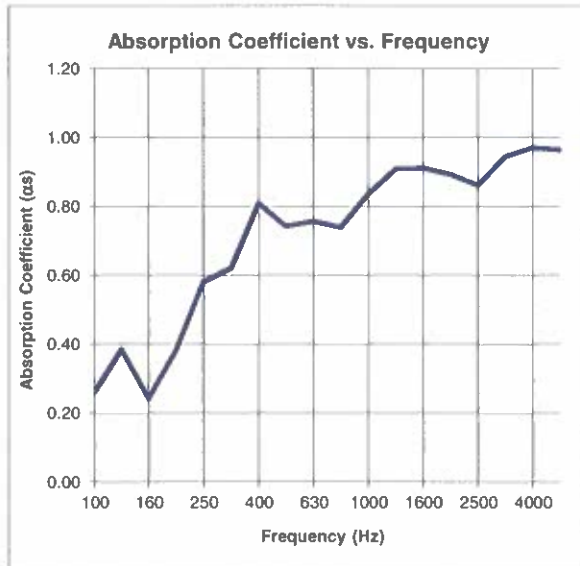
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**Sound Absorption Test Data per C423 - 23**

Test report: NGC4024033  
 Date of test: 10/7/2024  
 Spec. Size [m<sup>2</sup>]: 6.689  
 Room Vol.[m<sup>3</sup>]: 282.1  
 Temp. [°C]: 25.0  
 Humidity [%]: 50

**Noise Reduction Coefficient NRC: 0.75**  
**Sound Absorption Average SAA: 0.75**

| Frequency [Hz] | Absorption Coefficients $\alpha_s$ |
|----------------|------------------------------------|
| 100            | 0.26                               |
| 125            | 0.38                               |
| 160            | 0.24                               |
| 200            | 0.38                               |
| 250            | 0.58                               |
| 315            | 0.62                               |
| 400            | 0.81                               |
| 500            | 0.74                               |
| 630            | 0.76                               |
| 800            | 0.74                               |
| 1000           | 0.84                               |
| 1250           | 0.91                               |
| 1600           | 0.91                               |
| 2000           | 0.89                               |
| 2500           | 0.86                               |
| 3150           | 0.94                               |
| 4000           | 0.97                               |
| 5000           | 0.96                               |



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