

Rose Brand Acoustical Test Report for:

54" IFR 32 oz. Imperial

100% Fullness Pleated Panel

## TEST REPORT

for

**Rose Brand<sup>®</sup> Wipers, Inc.**  
4 Emerson Lane  
Secaucus, NJ 07094  
Ulrich Tombuelt / 800-223-1624 ext. 198

**Sound Absorption Testing**  
ASTM C 423-09a/ E795-05

On

**Imperial 32 oz Velour, 100% IFR Polyester,  
Hanging with 100% Fullness, Nap Down, Unlined  
Type G Mounting**

Report Number: NGC 4015047

Assignment Number: G-1187

Test Date: 06/25/2015

Report Approval Date: 07/14/2015

Submitted by: 

Andrew E. Heuer  
Senior Test Engineer

Reviewed by: 

Robert J Menchetti  
Director

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 or any agent of the U.S. Government. This report may not be reproduced except in full, without written approval of the laboratory.

**Revision Summary:**

<b>Date</b>	<b>SUMMARY</b>
Approval Date: 07/14/2015	Original issue date: 07/14/2015 Original NGCTS report: NGC 4015047

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Report Number: NGC 4015047

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 423-09a/ E795-05.

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

Specimen Description: Designated by client as: Rose Brand<sup>®</sup> Imperial 32 oz Velour, 100% IFR Polyester, hanging with 100% fullness, nap down, unlined.

The test specimen was observed to have the following characteristics:

Drape Identification: Imperial 32 oz Velour

Drape Fabric: 100% IFR Polyester

Fullness: 100% fullness

Nap: Down

All weights and dimension are averaged:

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

Weight: 2.29 kg/m<sup>2</sup> (0.469 PSF)

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

Mounting: Type G-100 as per ASTM E795-05. The curtain was hung by grommets spaced 304.8 mm (12 in.) o.c which were attached to a metal G Mount frame. For this testing, the 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 - 09a**

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No. of test report: **NGC4015047** Date of test: 6/25/2015  
 Temp. [°C]: 22.0 Humidity [%]: 51 Spec. Size [m<sup>2</sup>]: 6.689

Frequency [Hz]	Absorption Coefficients a <sub>s</sub>	Avg. Decay Rate	
		Empty d (empty) [dB/s]	Specimen d (specimen) [dB/s]
100	0.26	8.41	10.68
125	0.35	9.39	12.54
160	0.54	7.91	12.67
200	0.69	7.91	14.04
250	0.85	8.17	15.73
315	0.97	7.24	15.81
400	0.97	6.89	15.47
500	0.99	6.91	15.65
630	1.04	6.43	15.65
800	1.10	6.23	15.98
1000	1.11	6.65	16.50
1250	1.08	6.98	16.53
1600	1.07	7.36	16.81
2000	1.05	8.32	17.60
2500	1.04	9.04	18.25
3150	1.04	8.92	18.10
4000	1.06	8.54	17.94
5000	1.04	8.12	17.36

Reverberation Room Volume: 282.1 m<sup>3</sup>

**Noise Reduction Coefficient NRC:** 1.00 Avg. 250, 500, 1000, 2000 Hz: **0.999**  
**Sound Absorption Average SAA:** 1.00 Avg. 200 - 2500 Hz: **0.995**

NOTE: Estimates of repeatability and reproducibility for sound absorption coefficients of a specimen are referenced in ASTM C423 - 09a test method.

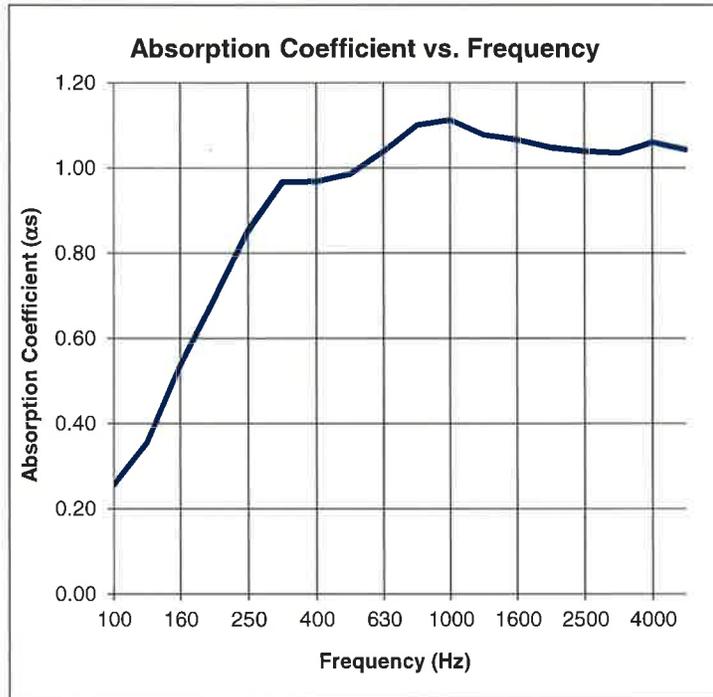
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**Sound Absorption Test Data per C423 - 09a**

Test report: **NGC4015047**  
 Date of test: 6/25/2015  
 Spec. Size [m<sup>2</sup>]: 6.689  
 Room Vol.[m<sup>3</sup>]: 282.1  
 Temp. [°C]: 22.0  
 Humidity [%]: 51

**Noise Reduction Coefficient NRC: 1.00**  
**Sound Absorption Average SAA: 1.00**

Frequency [Hz]	Absorption Coefficients $\alpha_s$
100	0.26
125	0.35
160	0.54
200	0.69
250	0.85
315	0.97
400	0.97
500	0.99
630	1.04
800	1.10
1000	1.11
1250	1.08
1600	1.07
2000	1.05
2500	1.04
3150	1.04
4000	1.06
5000	1.04



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