Rose Brand Acoustical Test Report for:

54" IFR 25 oz. Charisma

100% Fullness Pleated Panel

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TEST REPORT

for

Rose Brand 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

Charisma 25oz Velour Fabric Drape
With 100% Fullness
Type G Mounting

Report Number: NGC 4014030_R1

Assignment Number: G-1036

Test Date: 5/05/2014

Report Approval Date: 5/23/2014

Submitted by: _____
Andrew E. Heuer
Senior Test Engineer

Reviewed by: _____
Robert J Menchetti
Director

Revision Summary:

Date	SUMMARY
Approval Date: 5/23/2014	Original issue date. Original NGCTS report: NGC 4014030
Reissue Date: 6/5/2014	Report: NGC 4014030_R1 The report was revised and reissued due to a duplicate data page within the content of the report.

Report Number: NGC 4014030_R1

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™ Charisma 25oz Velour, 100% IFR Polyester, hanging with 100% fullness via box pleats, nap down, unlined.

The test specimen was observed to have the following characteristics:

Drape Identification: Charisma 25oz Velour, black drapes

Drape Fabric: 100% IFR Polyester

Fullness: 100% fullness with, according to client, box pleats

Nap: Down

All weights and dimension are averaged:

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

Weight: 1.52 kg/m^2 (0.31 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 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^2)

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

No. of test report: **4014030_R1** Date of test: 5/5/2014

Temp. [°C]: 18.5 Humidity [%]: 61 Spec. Size [m^2]: 6.689

Frequency [Hz]		Absorption Coefficients a_s	Avg. Decay Rate Empty d (empty) [dB/s]	Avg. Decay Rate Specimen d (specimen) [dB/s]	
100		0.06	8.81	9.38	
125		0.22	9.21	11.16	
160		0.33	7.56	10.45	
200		0.44	7.51	11.43	
250		0.69	7.39	13.51	
315		0.79	6.85	13.81	
400		0.89	6.61	14.46	
500		0.96	6.53	15.00	
630		1.00	6.35	15.14	
800		1.04	6.11	15.30	
1000		1.04	6.41	15.56	
1250		1.01	6.90	15.81	
1600		1.00	7.32	16.13	
2000		0.99	8.15	16.87	
2500		1.00	8.71	17.52	
3150		1.00	8.44	17.23	
4000		1.02	8.12	17.11	
5000		1.00	7.21	16.05	

Reverberation Room Volume: 282.1 m^3

Noise Reduction Coefficient NRC: 0.90 Avg. 250, 500, 1000, 2000 Hz : **0.920**

Sound Absorption Average SAA: 0.90 Avg. 200 - 2500 Hz: **0.905**

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: **4014030_R1**
Date of test: 5/5/2014
Spec. Size [m^2]: 6.689
Room Vol.[m^3]: 282.1
Temp. [°C]: 18.5
Humidity [%]: 61

Noise Reduction Coefficient NRC:	**0.90**
Sound Absorption Average SAA:	**0.90**

Frequency [Hz]	Absorption Coefficients α_s
100	0.06
125	0.22
160	0.33
200	0.44
250	0.69
315	0.79
400	0.89
500	0.96
630	1.00
800	1.04
1000	1.04
1250	1.01
1600	1.00
2000	0.99
2500	1.00
3150	1.00
4000	1.02
5000	1.00