

Rose Brand Acoustical Test Report for:

59" IFR 30 oz. Wool Serge

100% Fullness Pleated Panel

TEST REPORT

for

Rose Brand, Inc.
4 Emerson Lane
Secaucus, NJ 07094
Ulrich Tombuelt / 800-223-1624 ext. 198

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

On


**Wool Serge 59 Inch IFR 30oz Black Fabric Drape
With 100% Fullness
Type G Mounting**

Report Number: NGC 4014047

Assignment Number: G-1075

Test Date: 7/02/2014

Report Approval Date: 7/15/2014

Submitted by: 
Andrew E. Heuer
Senior Test Engineer

Reviewed by: 
Robert J Menchetti
Director

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Revision Summary:

Date	SUMMARY
Approval Date: 7/15/2014	Original issue date. Original NGCTS report: NGC 4014047

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Report Number: NGC 4014047

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™ Wool Serge 59 in. IFR 30 o.z Black Fabric Drape with vertical seams, hanging with 100% fullness, nap down, unlined.

The test specimen was observed to have the following characteristics:

Drape Identification: Wool Serge 30 o.z black fabric drapes

Drape Fabric: 100% IFR Polyester

Fullness: 100% fullness via, according to the client, box pleats.

Nap: Down

All weights and dimension are averaged:

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

Weight: 1.71 kg/m² (0.35 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 m²)

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 Page 4 of 5

No. of test report: **NGC4014047** Date of test: 7/2/2014
 Temp. [°C]: 23.0 Humidity [%]: 45 Spec. Size [m²]: 6.689

Frequency [Hz]	Absorption Coefficients a _s	Avg. Decay Rate	
		Empty d (empty) [dB/s]	Specimen d (specimen) [dB/s]
100	0.21	8.21	10.08
125	0.31	9.18	11.89
160	0.48	7.73	11.95
200	0.66	7.57	13.47
250	0.88	7.59	15.45
315	1.01	6.94	15.94
400	1.06	6.70	16.15
500	1.01	6.73	15.74
630	1.03	6.36	15.54
800	1.06	6.11	15.52
1000	1.07	6.48	15.94
1250	1.06	6.89	16.30
1600	1.08	7.26	16.86
2000	1.09	8.17	17.84
2500	1.08	8.85	18.48
3150	1.07	8.79	18.27
4000	1.03	8.54	17.72
5000	1.06	7.78	17.17

Reverberation Room Volume: **282.1** m³

Noise Reduction Coefficient NRC: 1.00 Avg. 250, 500, 1000, 2000 Hz : **1.014**
Sound Absorption Average SAA: 1.01 Avg. 200 - 2500 Hz: **1.009**

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

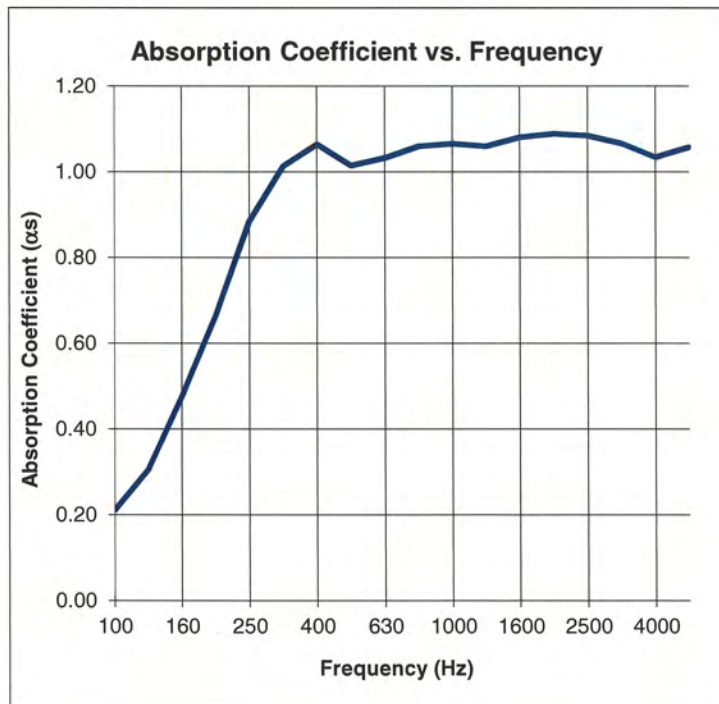
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Sound Absorption Test Data per C423 - 09a

Test report: **NGC4014047**
 Date of test: 7/2/2014
 Spec. Size [m²]: 6.689
 Room Vol.[m³]: 282.1
 Temp. [°C]: 23.0
 Humidity [%]: 45

Noise Reduction Coefficient NRC: 1.00
Sound Absorption Average SAA: 1.01

Frequency [Hz]	Absorption Coefficients α_s
100	0.21
125	0.31
160	0.48
200	0.66
250	0.88
315	1.01
400	1.06
500	1.01
630	1.03
800	1.06
1000	1.07
1250	1.06
1600	1.08
2000	1.09
2500	1.08
3150	1.07
4000	1.03
5000	1.06



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