

## TEST REPORT

for

**Rose Brand**  
4 Emerson Lane  
Secaucus, NJ 07094  
Joshua Alemany / 201-809-1851

### Sound Absorption Testing

ASTM C 423-17 / E795-16

On

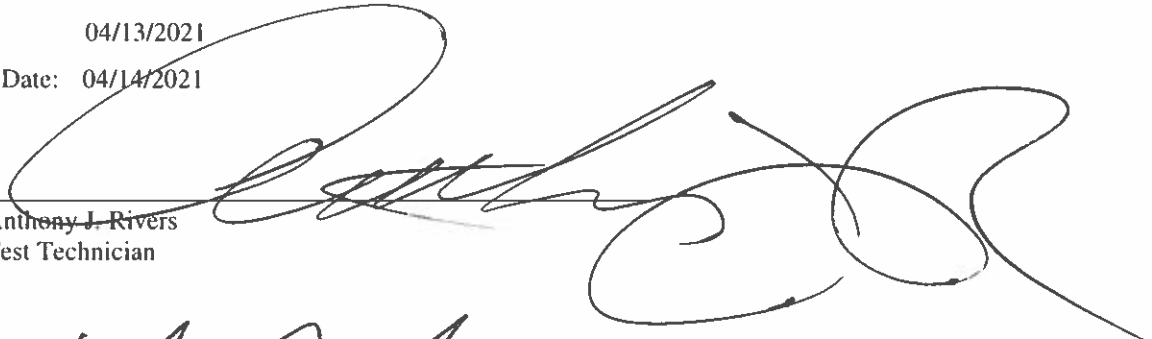
**DIGI0256 – PRINTED 100% PET KNIT FABRIC  
(Wrapped around 2” Acoustic Batting)  
Type A Mounting**

Report Number: NGC 4021010

Assignment Number: G-1742

Test Date: 04/13/2021

Report Approval Date: 04/14/2021

Submitted by:   
Anthony J. Rivers  
Test Technician

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.



## Acoustical Testing Laboratory



NVLAP LAB CODE: 200291-0

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Rose Brand  
04/14/2021  
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### Revision Summary:

| Date                      | SUMMARY   |
|---------------------------|---|
| Approval Date: 04/14/2021 | Original issue date: 04/14/2021<br>Original NGCTS report: NGC 4021010 |

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Report Number: NGC 4021010

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 423-17 / E795-16.

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

Specimen Description: Designated by client as: DIGI0256 – PRINTED 100% PET KNIT FABRIC  
(Wrapped around 2" Acoustic Batting)

The test specimens were observed to have the following characteristics:

All weights and dimension are averaged:

Panels are: Rectangular

Face Finish: Printed Fabric

Panel Core: Mineral Fiber

Back Finish: Mineral Fiber

Measured dimensions:

Unit Size: Eight Units, 609.6 mm x 1219.2 mm (24 in. x 48 in.)

Two Units, 304.8 mm x 1219.2 mm (12 in. x 48 in.)

Measured Average Panel Thickness: 22.61 mm (1.99 in.)

Measured Panel weight: 9.03 kg/m<sup>2</sup> (1.85 PSF)

Mounting: Type E-400 as per ASTM E795-16.

Total Sample Size: 72.00 Sq. Ft. (6.69 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 - 17   |                               |                  |      |  | Page 4 of 5                  |
|--|-------------------------------|------------------|------|--|------------------------------|
| No. of test report:  |                               | NGC 4021010      |      | Date of test: 4/13/2021                    |                              |
| Temp. [°C]: 25.0   |                               | Humidity [%]: 50 |      | Spec. Size [m <sup>2</sup> ]: 6.689        |                              |
| Frequency [Hz]   | Absorption Coefficients $a_s$ | Avg. Decay Rate  |      | Empty d (empty) [dB/s]                     | Specimen d (specimen) [dB/s] |
|  |                               |                  |      |  |                              |
| 100  | 0.34                          |                  | 9.24 | 12.30                                      |                              |
| 125  | 0.50                          |                  | 9.51 | 13.96                                      |                              |
| 160  | 0.65                          |                  | 7.98 | 13.77                                      |                              |
| 200  | 0.66                          |                  | 7.62 | 13.51                                      |                              |
| 250  | 0.73                          |                  | 7.74 | 14.20                                      |                              |
| 315  | 0.77                          |                  | 6.94 | 13.80                                      |                              |
| 400  | 0.82                          |                  | 6.77 | 14.05                                      |                              |
| 500  | 0.87                          |                  | 6.73 | 14.52                                      |                              |
| 630  | 0.89                          |                  | 6.49 | 14.43                                      |                              |
| 800  | 0.84                          |                  | 6.19 | 13.71                                      |                              |
| 1000   | 0.83                          |                  | 6.65 | 14.02                                      |                              |
| 1250   | 0.81                          |                  | 7.03 | 14.24                                      |                              |
| 1600   | 0.84                          |                  | 7.63 | 15.08                                      |                              |
| 2000   | 0.84                          |                  | 8.39 | 15.89                                      |                              |
| 2500   | 0.82                          |                  | 8.92 | 16.19                                      |                              |
| 3150   | 0.82                          |                  | 8.86 | 16.18                                      |                              |
| 4000   | 0.82                          |                  | 9.02 | 16.36                                      |                              |
| 5000   | 0.87                          |                  | 8.61 | 16.33                                      |                              |
| Reverberation Room Volume:   |                               | 282.1            |      | m <sup>3</sup>                             |                              |
| <b>Noise Reduction Coefficient NRC:</b>  |                               | <b>0.80</b>      |      | Avg. 250, 500, 1000, 2000 Hz: <b>0.817</b> |                              |
| <b>Sound Absorption Average SAA:</b>   |                               | <b>0.81</b>      |      | Avg. 200 - 2500 Hz: <b>0.809</b>           |                              |
| NOTE: Estimates of repeatability and reproducibility for sound absorption coefficients of a specimen are referenced in ASTM C423 - 17 test method. |                               |                  |      |  |                              |

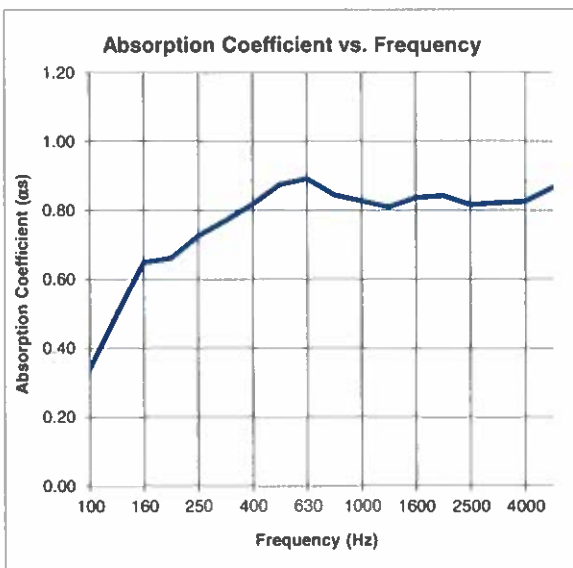
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**Sound Absorption Test Data per C423 - 17**

Test report: **NGC 4021010**  
 Date of test: 4/13/2021  
 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: 0.80**  
**Sound Absorption Average SAA: 0.81**

| Frequency [Hz] | Absorption Coefficients $\alpha_s$ |
|----------------|------------------------------------|
| 100            | 0.34                               |
| 125            | 0.50                               |
| 160            | 0.65                               |
| 200            | 0.66                               |
| 250            | 0.73                               |
| 315            | 0.77                               |
| 400            | 0.82                               |
| 500            | 0.87                               |
| 630            | 0.89                               |
| 800            | 0.84                               |
| 1000           | 0.83                               |
| 1250           | 0.81                               |
| 1600           | 0.84                               |
| 2000           | 0.84                               |
| 2500           | 0.82                               |
| 3150           | 0.82                               |
| 4000           | 0.82                               |
| 5000           | 0.87                               |



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