

## Unofficial Test Results & Preliminary Data Sheet

Riverbank Acoustical Laboratories (RAL)<sup>TM</sup> / An Alion Science Technical Center

Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method ASTM C423

Test Number: A18-295

Test Date: 2018-09-20

Sponsor: Carnegie

Designation: Vector Fabric 6354 over 2 inch thick fiberglass

Dimensions: 2.44 m x 2.74 m x 0.05 m

Test Conducted By: Dean Victor

Area: 6.69 m<sup>2</sup>

Test Interface: 1.2.2

Weight 35.15 kg

Area Weight: 5.26 kg/m<sup>2</sup>

Mounting: A-Mount

Edge Seal: Steel Seal

Specimen Details Vector Fabric 108"x55" and 108x42", Fiberglass 8@48"x24"x2" and 2@48"x12"x2"

Test Room Details: Room 0

Volume: 291.98 m<sup>3</sup>

Area: 266.10 m<sup>2</sup>

1/3 Octave Band Center Frequency (Hz)	TOTAL ABSORPTION SABINS (ft <sup>2</sup> )	TOTAL ABSORPTION m <sup>2</sup>	Absorption Coefficient
31.5	-3.09	-0.29	-0.04
40	-1.20	-0.11	-0.02
50	-3.75	-0.35	-0.05
63	11.57	1.07	0.16
80	-1.37	-0.13	-0.02
100	18.51	1.72	0.26
125	27.39	2.55	0.38
160	42.76	3.97	0.59
200	55.60	5.17	0.77
250	65.94	6.13	0.92
315	79.58	7.39	1.11
400	83.94	7.80	1.17
500	83.71	7.78	1.16
630	83.23	7.73	1.16
800	79.05	7.34	1.10
1000	73.70	6.85	1.02
1250	72.94	6.78	1.01
1600	71.70	6.66	1.00
2000	71.26	6.62	0.99
2500	70.83	6.58	0.98
3150	68.56	6.37	0.95
4000	69.79	6.48	0.97
5000	71.05	6.60	0.99
6300	68.67	6.38	0.95
8000	69.97	6.50	0.97
10000	65.50	6.09	0.91
12500	70.03	6.51	0.97

**SOUND ABSORPTION AVERAGE [SAA] = 1.03**

**NOISE REDUCTION COEFFICIENT [NRC] = 1.00**

Calculation Date: 2018-09-20

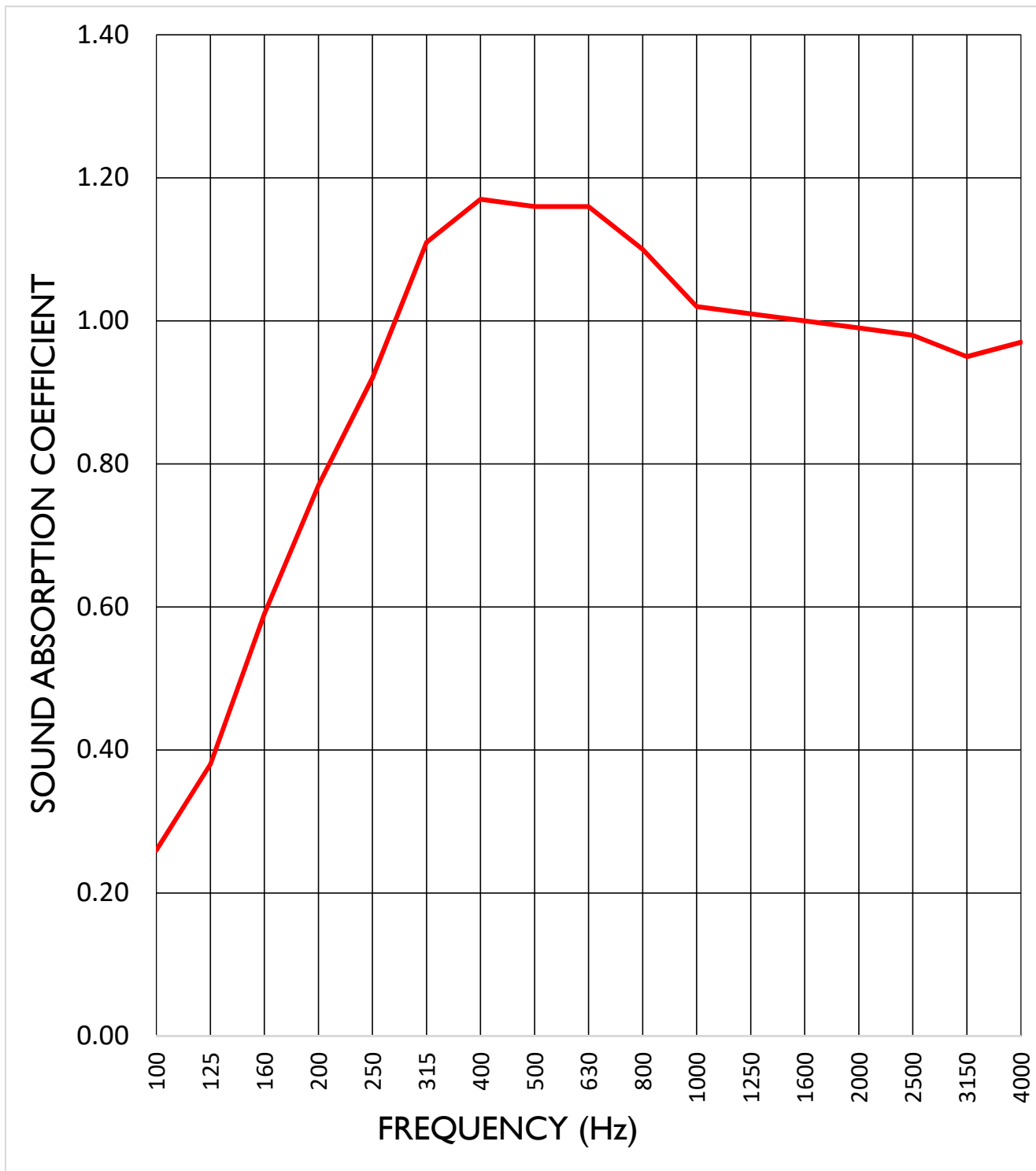
Calculated By: Dean Victor

*This single report page and accompanying graph contain the instantaneous raw data as provided to the client after testing of the specimen.*

*This data, although accurate, is incomplete without the full specimen description, mounting details and signature pages. The full report referenced by the RAL test number above should be consulted for further information regarding these results.*

### Sound Absorption Results

A18-295



**SAA = 1.03**

**NRC = 1.00**