

Riverbank Acoustical Laboratories (RAL)<sup>TM</sup> / An Alion Science Technical Center (RALVer 11.0)  
 Sound Absorption and Sound Absorption Coefficients  
 by the Reverberation Room Method ASTM C 423-09a/E 795-08/NVLAP 08/P03

TEST NUMBER: A14-064 - B

TEST DATE: MARCH 18, 2014

CLIENT: Asona-USA, LLC  
 DESIGNATION: 2.5 inch thick Sonacoustic SM (Smooth Plaster Finish) 6pcf fiberglass panels  
 DIMENSIONS: 98" x 108" x 2.5"  
 AREA: 73.5 ft<sup>2</sup>  
 WEIGHT: 105.5 lbs      AREA WEIGHT: 1.44 lbs/ft<sup>2</sup>  
 MOUNTING: A      EDGE SEAL: Steel  
 SPECIMEN DETAILS: 6@49"x36"x2.5"

TEST ROOM DETAILS: Room 0 Volume = 10311 ft<sup>3</sup> Area = 2864.3 ft<sup>2</sup>  
 FILE NAME: A14\_064\_140318\_B.doc

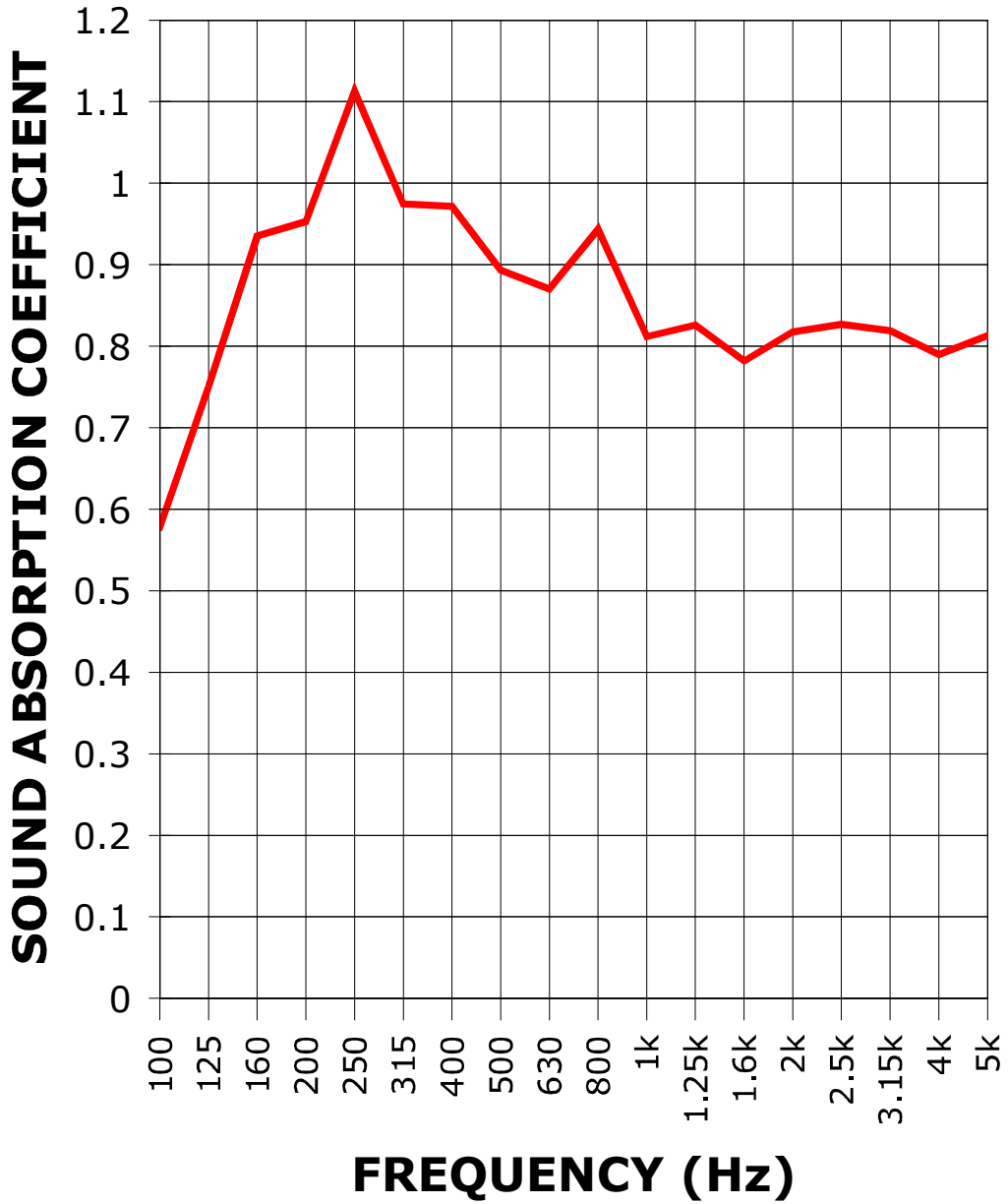
| 1/3 OCTAVE<br>CENTER<br>FREQ.<br>(Hz) | ABSORPTION<br>COEFFICIENT | TOTAL<br>ABSORPTION<br><br>(SABINS) |
|---------------------------------------|---------------------------|-------------------------------------|
| 40                                    | 0.04                      | 3.05                                |
| 50                                    | 0.46                      | 33.90                               |
| 63                                    | -0.04                     | -2.61                               |
| 80                                    | 0.19                      | 13.98                               |
| 100                                   | 0.58                      | 42.51                               |
| 125                                   | 0.75                      | 55.12                               |
| 160                                   | 0.94                      | 68.74                               |
| 200                                   | 0.95                      | 70.04                               |
| 250                                   | 1.11                      | 81.81                               |
| 315                                   | 0.97                      | 71.62                               |
| 400                                   | 0.97                      | 71.41                               |
| 500                                   | 0.89                      | 65.66                               |
| 630                                   | 0.87                      | 63.95                               |
| 800                                   | 0.94                      | 69.34                               |
| 1000                                  | 0.81                      | 59.67                               |
| 1250                                  | 0.83                      | 60.71                               |
| 1600                                  | 0.78                      | 57.47                               |
| 2000                                  | 0.82                      | 60.08                               |
| 2500                                  | 0.83                      | 60.78                               |
| 3150                                  | 0.82                      | 60.19                               |
| 4000                                  | 0.79                      | 58.04                               |
| 5000                                  | 0.81                      | 59.74                               |
| 6300                                  | 0.80                      | 58.51                               |
| 8000                                  | 0.73                      | 53.67                               |
| 10000                                 | 0.66                      | 48.35                               |

**SOUND ABSORPTION AVERAGE [ SAA ] = 0.90**  
**NOISE REDUCTION COEFFICIENT [ NRC ] = 0.90**

Test Conducted by: Marc Sciaky

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 REPORT  
RAL - A14-064 - B



SAA = 0.90  
NRC = 0.90