

Riverbank Acoustical Laboratories (RAL)<sup>TM</sup> / An Alion Science Technical Center (RALVer 10.1)  
 Sound Absorption and Sound Absorption Coefficients  
 by the Reverberation Room Method ASTM C 423-09/NVLAP 08/P03

TEST NUMBER: A11-100

TEST DATE: MAY 13, 2011

CLIENT: GIK Acoustics  
 DESIGNATION: Rectangular Independent Sound Absorbing Units  
 DIMENSIONS: 17" x 47.5" x 17"  
 NUMBER OF UNITS: 6  
 WEIGHT: 134 lbs      AREA WEIGHT: 23.90 lbs/ft<sup>2</sup>  
 MOUNTING: J      EDGE SEAL: Unsealed  
 SPECIMEN DETAILS: 6@ 17" x 47.5" x 18" each distributed in test chamber as follows two units each on the north south and the west walls, all placed in corner (wall meet floor) spaced 8" apart. (Staple side in corner)

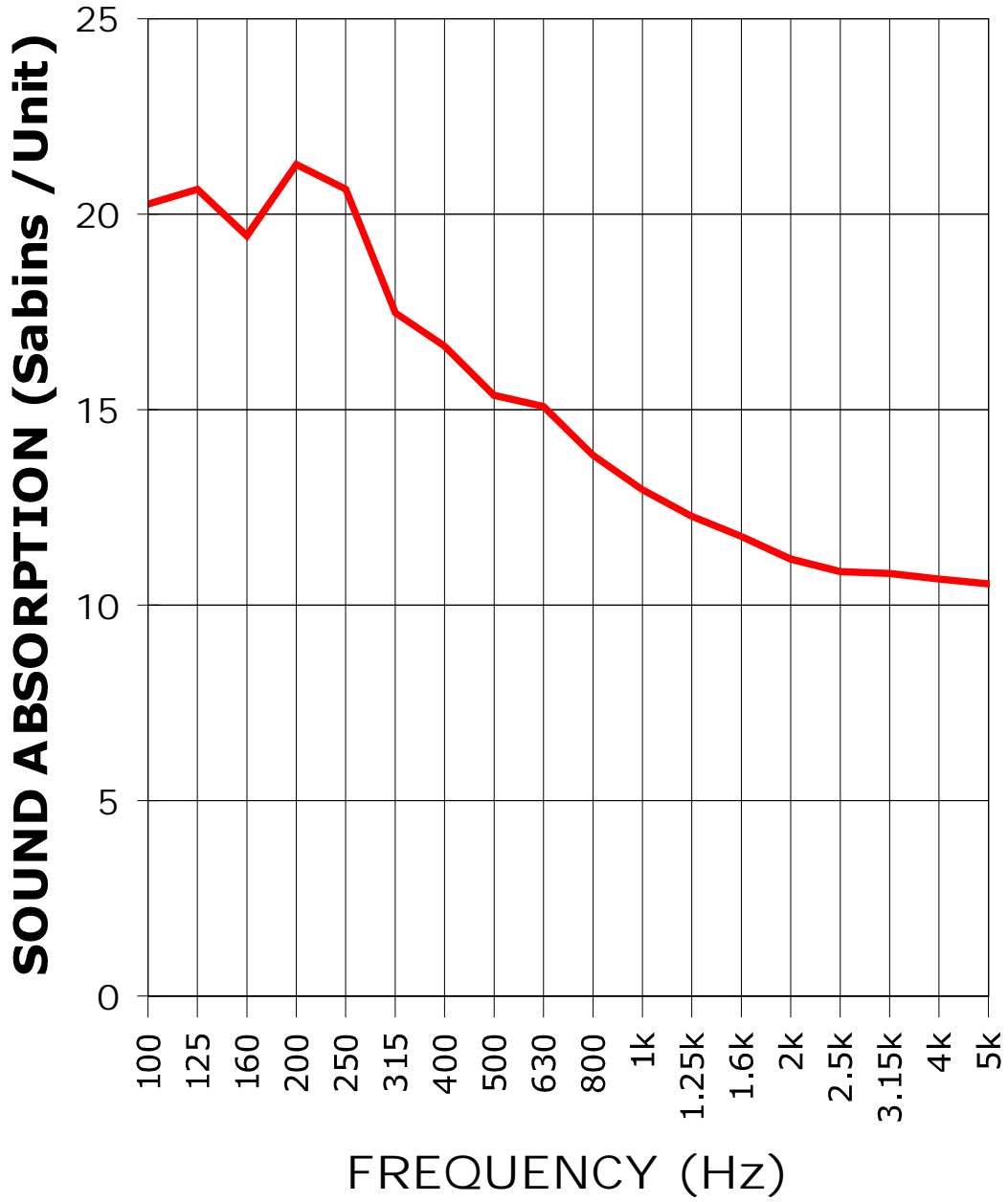
TEST ROOM DETAILS: Room 0 Volume = 10311 ft<sup>3</sup> Area = 2864.3 ft<sup>2</sup>  
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| 1/3 OCTAVE<br>CENTER<br>FREQ.<br>(Hz) | ABSORPTION<br>PER UNIT | TOTAL<br>ABSORPTION<br>(SABINS) |
|---------------------------------------|------------------------|---------------------------------|
| 40                                    | 2.57                   | 15.42                           |
| 50                                    | 8.67                   | 52.03                           |
| 63                                    | 12.61                  | 75.67                           |
| 80                                    | 17.96                  | 107.76                          |
| 100                                   | 20.25                  | 121.53                          |
| 125                                   | 20.63                  | 123.79                          |
| 160                                   | 19.45                  | 116.68                          |
| 200                                   | 21.27                  | 127.59                          |
| 250                                   | 20.64                  | 123.83                          |
| 315                                   | 17.47                  | 104.85                          |
| 400                                   | 16.62                  | 99.73                           |
| 500                                   | 15.37                  | 92.20                           |
| 630                                   | 15.08                  | 90.49                           |
| 800                                   | 13.83                  | 82.99                           |
| 1000                                  | 12.95                  | 77.72                           |
| 1250                                  | 12.27                  | 73.61                           |
| 1600                                  | 11.76                  | 70.54                           |
| 2000                                  | 11.18                  | 67.08                           |
| 2500                                  | 10.86                  | 65.14                           |
| 3150                                  | 10.81                  | 64.86                           |
| 4000                                  | 10.67                  | 63.99                           |
| 5000                                  | 10.55                  | 63.27                           |
| 6300                                  | 10.65                  | 63.88                           |
| 8000                                  | 10.44                  | 62.66                           |
| 10000                                 | 9.76                   | 58.56                           |

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 - A11-100



SOUND ABSORPTION in SABINS PER UNIT