

Acoustic Geometry Acoustic Bass Management System Preliminary Test Results

9/26/16

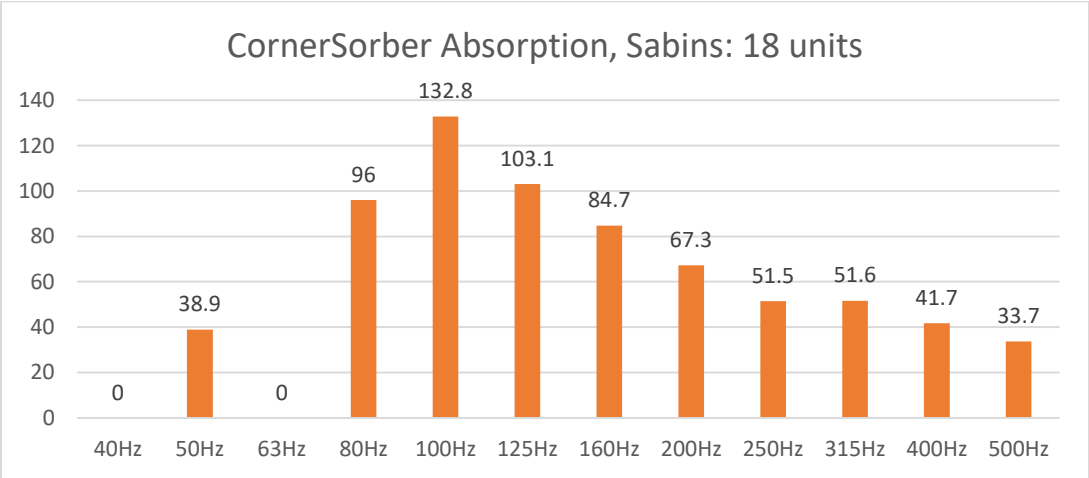
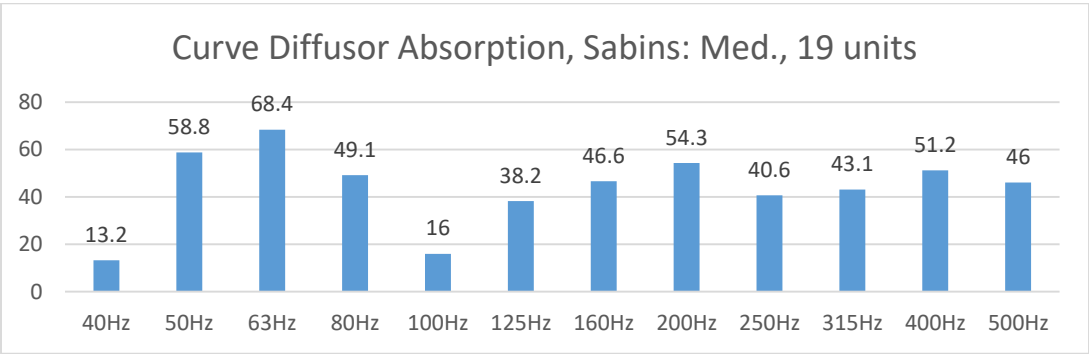
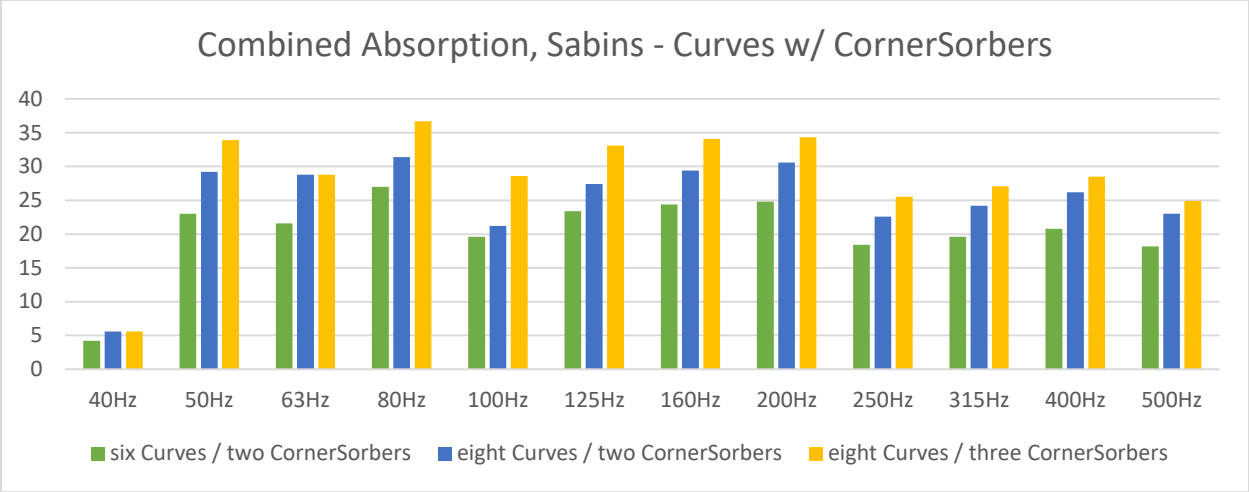
Acoustic Geometry's ABM system allows for a high level of low-frequency performance when utilizing both **CornerSorbers** and **Curve Diffusors**, which also feature accurately-tested low-frequency MLV membrane absorption. The combination has a complementary range of frequencies that produces consistent bass-energy absorption from 50Hz to 500Hz.

Acoustic Geometry tested both the Curve Diffusor and the ABM CornerSorber for low-frequency absorption per ASTM C423 protocol at NWA Labs in Elma, WA. Curves were tested on 18 August, 2015, and CornerSorbers tested on 8 September, 2016. NWA Labs has the world's



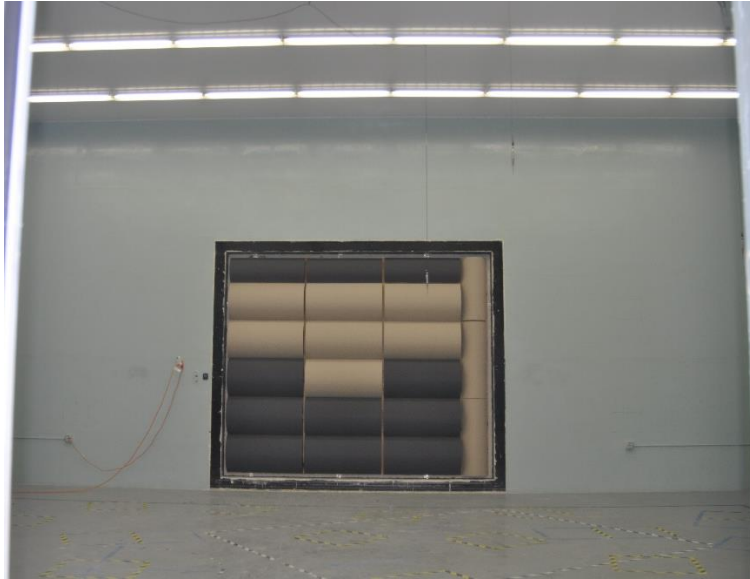
largest absorption test chamber (approx.. 42' x 35' x 17'), which can test accurately with better than 95% precision and bias (variation) down to 40Hz. The tests were conducted with the test units mounted as they would be in real-use configuration. Curves were mounted on the test wall (A-Mount) with standard Z-Clips, with 21 units covering 120 square feet, the NWA Labs standard minimum test-sample area (both Medium and Small Curves with an equivalent membrane area of 19 Medium Curves). CornerSorbers were mounted on the floor, oriented horizontally in close-corner configuration, with 18 units covering 135 square feet (accounted for in calculations), grouped six units per corner, in three of the test chamber's corners.

Absorption charts are in Sabins*, with suggested combinations and individual Curve and CornerSorber test results. The Combination chart utilizes single-unit Sabin amounts multiplied by number of units in each suggested example.



***Sabin** (From Wikipedia, the free encyclopedia): The **sabin** is defined as a unit of sound absorption. Sabins could be calculated with either imperial or metric units. One square foot of 100% absorbing material has a value of one imperial Sabin. One square metre of 100% absorbing material has a value of one metric Sabin. The unit is named in honor of Wallace Clement Sabine.

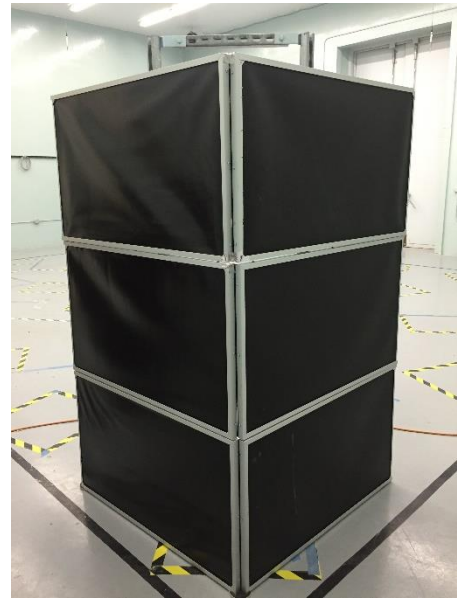
The following photos show the Low-Frequency Absorption test mountings and arrays for the Curve Diffusor and the ABM CornerSorber.



Curve Diffusor Low-Frequency Absorption test,
NWAA Labs, 18 August 2015



ABM CornerSorber Low-Frequency Absorption test,
NWAA Labs, 8 September, 2016



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