

Aeolian® Sound Diffuser
Data Supplement



Diffusion - Diffraction - Scattering - Reflection

Toll-Free Number:

88-765-2900



Aeolian®

A patented, two dimensional, organic quadratic diffuser. Edge height variation is less than the flange width, creating an "implied edge" while maintaining a complete asymmetry which reduces acoustic lobing associated with some symmetrical designs.

Construction: Class A Thermoformed plastic with natural white finish.

Nominal Size: 2'x2'

Depth: 5"

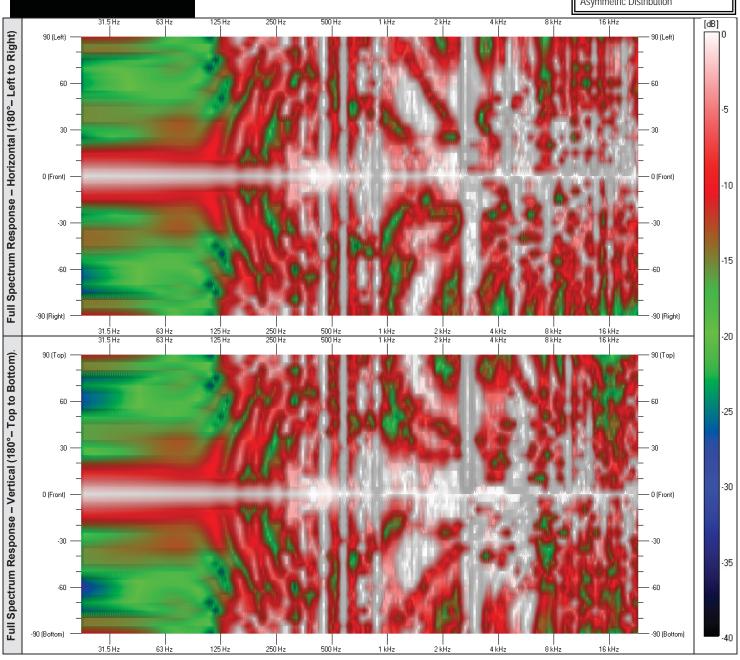
**Mounting:** Direct mount to wall/ceiling **– OR –** Fit into standard T-bar grids.

Modified 2D Quadratic Diffuser Asymmetric Organic Quadratic

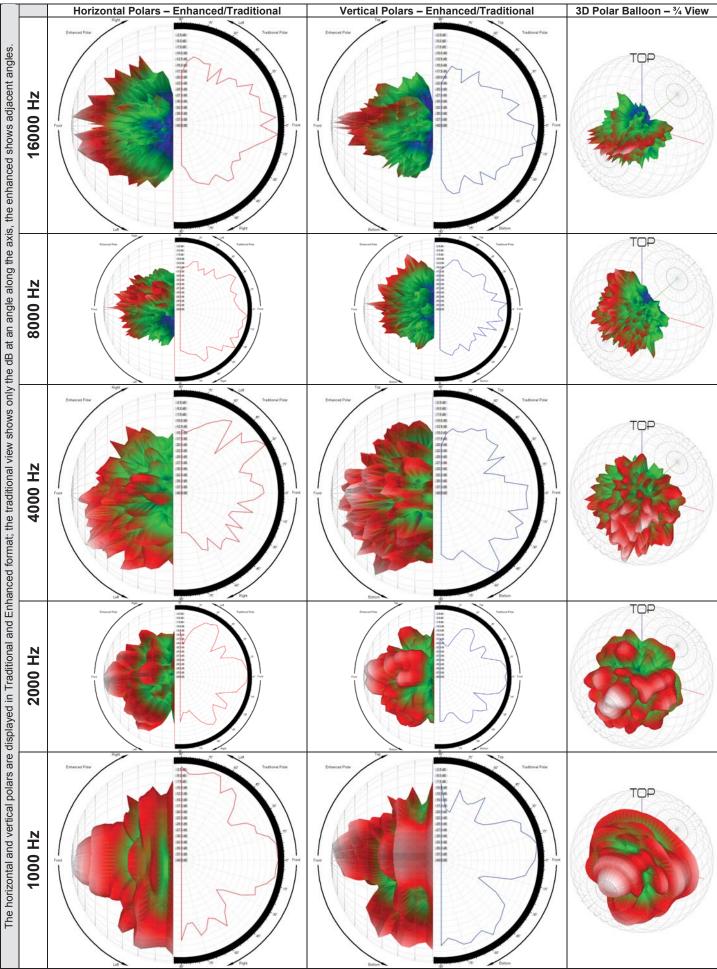
Operational Parameters: Diffusion: Mid to High-Mid band Primary: 1.6K-7.5k

Hemispheric Pattern (2D -150°H/V) Wide Phase & Directional Diffusion

Ceiling or Wall Mountable Asymmetric Distribution



Sound Absorption Coefficients – Aeolian® Performance							
Mounting	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
Type A	0.55	0.24	0.22	0.16	0.10	0.13	0.20
E400 (No Insulation)	0.40	0.26	0.26	0.25	0.17	0.15	0.25
E400 (Insulated)	0.41	0.24	0.25	0.25	0.17	0.15	0.25



Aeolian® – © 2017 Acoustics First® Corporation. May be reproduced for Academic or Educational use with proper credit to Acoustics First®.



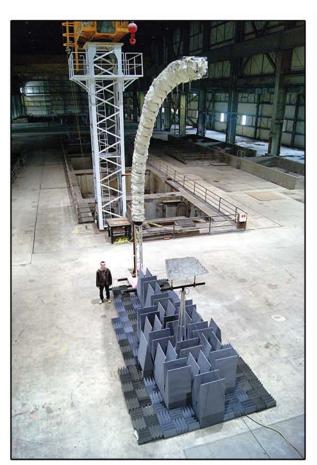
## Materials to Control Sound & Eliminate Noise. The

The information within this booklet is only part of the data currently available on the materials that were tested. An electronic component is also available upon request. This electronic data allows for access to the raw test results, enabling further refinement, including previously absent data describing the phase of the reflections, attenuation, and directionality with a granularity exceeding all prior published data.

This electronic data has been compiled for Acoustics First by NWAA Labs in Elma, WA.

Acoustics First is offering this data without warranty, upon request, as no universally accepted standard currently exists.

Contact us for more information. Additional test data and product configurations appear on the web site. More information will be added as it becomes available.



Above: Testing rig at NWAA Labs in Elma, WA,



Member of: ASA and ASTM International



