

# DiSorb™

## Diffuser - Absorber

**AVL Systems' DiSorb™ Diffuser-Absorber** is a lightweight, decorative, acoustical control product for mounting to most any architectural surface. These convex-shaped products are designed to achieve sound diffusion through their curved surfaces and absorb sound through innovative tuned componentry. Manufactured to the specification type required, these products provide desirable wide-range diffusive scattering of the returned acoustical sound energy and moderate absorption. The complete panel core is inert, non-combustible and dimensionally stable as well as constructed of impact-resistant, thermo-molded materials to prevent resonances and resist damage. Optional fabric facings are factory-applied with standard or customer specified fabrics. DiSorb™ Diffuser-Absorbers are supplied to standard sizes, as specified, and are ready for installation with attachment devices to existing walls, ceilings or grid.



### Interactive Product Performance

The DiSorb™ family of interactive performance products is designed to provide the acoustical engineer and specifier with a complete “toolbox” of technically compatible products for any application. These engineered products can be used individually or as an interactive system, working together to optimally enhance the interior design, functionality, and acoustics of the architectural space. AVL Systems Inc. is pleased to offer a full range of standard and custom architectural acoustical products for virtually every application and technical requirement.

### Technical Features & Information

- Lightweight for Ceiling & Wall Installations
- Finish: Standard White, Optional Fabric Facings
- Height: 4-3/8” and 7-3/8”
- Sizes (Nominal): 24”, 48”, 72”, 96” Lengths by 24”, 36”, 48” Widths
- Dimensional Tolerances: +/- 1/4”
- Special Sizes: Available Upon Request
- Fire Performance Rating: Class A
- Installation Fasteners: Mechanical or Ceiling Lay-In

### Acoustical Performance - Absorption Coefficients

Frequency (Hz)	125	250	500	1K	2K	4K	8K	NRC
DiSorb™ Type A	0.8	0.54	0.34	0.23	0.11	0	0.09	0.3
DiSorb™ Type B	0.81	0.64	0.55	0.46	0.39	0.38	0.39	0.5
DiSorb™ Type C	0.69	0.59	0.34	0.25	0.16	0.19	0.15	0.35
DiSorb™ Type D	0.14	0.12	0.09	0.07	0.07	0.05	0.03	0.1
DiSorb™ Type W	0.18	0.2	0.12	0.07	0.07	0.05	0.04	0.1

### Applications

AVL Systems' DiSorb™ Diffuser-Absorbers are ideal for rooms and spaces where sound and noise control are a consideration. The design of these products allows the specifier to provide absorption and broadband diffusion to help scatter and blend the sounds in the room for the listening enjoyment of both music and speech. These functions help performers hear themselves with others and serves to improve clarity and tonal separation for voice, music and performances.

### Warranty

AVL Systems' *Limited Warranty* extends for TWO FULL YEARS from the original date of shipment. AVL Systems' literature, presentations and published data are correct to the best of our knowledge at time of publication. AVL Systems, Inc. reserves the right to change or amend any of the products or the information presented or published without liability or notice.