

DiSorb™

Diffuser-Absorber

Acoustical Performance

(Absorption Coefficients)

Frequency (Hz)		125	250	500	1K	2K	4K
DiSorb™ Type A		.80	.54	.34	.23	.11	.00
DiSorb™ Type B		.81	.64	.55	.46	.39	.38
DiSorb™ Type C		.69	.59	.34	.25	.16	.19
DiSorb™ Type D		.14	.12	.09	.07	.07	.05
DiSorb™ Type W		.18	.20	.12	.07	.07	.05

DiSorb™

Lightweight for ceilings and walls

White textured finish, colors optional

Thickness: 4³/₈" or 7³/₈"

Sizes (Nominal): 24", 36", 48", 72", 96", 120" height
by 24", 36", 48" width

Fire Performance Rating: Class A

Dimensional Tolerances 1/4"

Special sizes available

Description

AVL Systems DiSorb™ Diffuser-Absorbers are lightweight acoustical control devices for mounting on ceilings and wall surfaces. These attractive products are designed to achieve optimal performance from their convex shapes with the use of computer modeling analysis combined with laboratory and application testing. All DiSorb™ Diffuser-Absorbers are manufactured to provide spatial diffusion of the back-scattered sound energy without high-Q reflections or resonance, while Type A, B, and C also provides extended, diaphragm-tuned, low frequency absorption. DiSorb™ Diffuser-Absorbers are constructed of multi-density, thermo-molded resins to dampen resonance and resist impact and damage. The complete multi-density product is inert, non-combustible, dimensionally stable, and will not resonate, warp, or separate. Products are supplied to finish sizes as specified and ready to install with supplied fasteners for mounting to existing substrates or in standard grid ceiling systems. AVL Systems DiSorb™ Diffuser-Absorbers are ecologically friendly, containing up to 85% recycled materials.



Applications

DiSorb™ Diffuser-Absorbers are ideal for music education and rehearsal facilities, auditoriums, places of worship, and other architectural spaces where proper sound and noise control are a consideration. The design of these products allows the specifier to provide for diffusion to backscatter and properly blend the original sounds and, with DiSorb™ Types A, B, and C, also reduce the often-overpowering boominess of the room or space. These features help to improve speech intelligibility, as well as clarity and tonal separation for music and performances. The result is clear, spacious, natural sound to be appreciated by performers and enjoyed by the room's listeners.

Interactive Performance

The AcousTech™ and DiSorb™ families of interactive performance products are designed to provide the acoustical engineer and specifier with a complete toolbox of technically compatible performance products for every application. These engineered products can be used together as an interactive system, working together to optimally enhance the acoustics of any architectural space. AVL Systems offers a full range of acoustic products for virtually every application and technical requirement.

Warranty

AVL Systems Limited Warranty extends for one full year from the original date of shipment. All AVL Systems, Inc. published literature, presentations and data are correct to the best of our knowledge at the time of publication. AVL Systems, Inc. reserves the right to change or amend any of the products presented or the information we publish without liability or notice.



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