

VEC ACOUSTIC ABATEMENT PRODUCTS

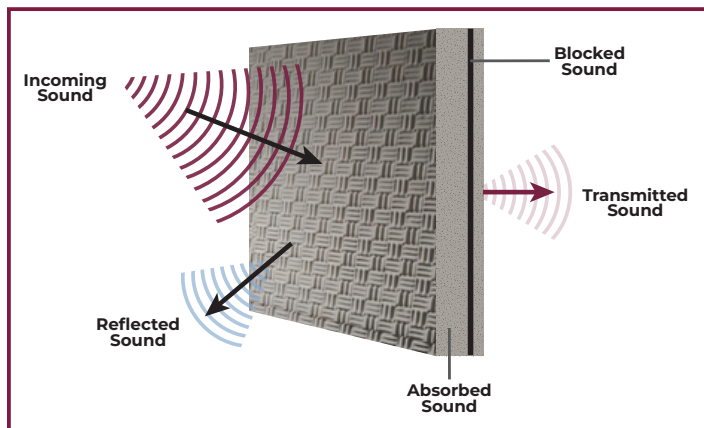
Acoustic noise is often a factor in laboratories and clean rooms with precision instrumentation. Pumps, compressors, other support equipment, and noise from air handlers, particularly in clean room environments, present challenges to users. In addition to degrading instrument performance, a noisy environment impacts user comfort, productivity, and health. VEC proudly offers various proprietary and best-in-class products for laboratory and clean room applications.

SOUND ABSORPTION PRODUCTS

Hard surfaces result in noise refracting throughout the lab, elevated noise levels, and making the space sounds “echoey.” VEC offers sound absorption materials such as the Pinta Sonex One and Sonex Mini panels to reduce reverberant noise in the laboratory. Many other products are also available to meet your performance and design requirements.



Acoustic panels on the walls provide noise reduction in electron microscopy labs.



The diagram above illustrates how VEC acoustic products can provide sound absorption and transmission benefits.

SOUND TRANSMISSION PRODUCTS

Equipment chases are noisy areas, and it is essential to keep noise from entering the laboratory space for both the instrumentation and equipment operators. VEC offers many products with outstanding sound transmissions performance, such as the Prospec Composite with sound absorption and sound transmission properties.



Daeil DSE Series Acoustic Enclosure

ACOUSTIC ENCLOSURES

Acoustic enclosures allow customers to isolate only the instrument in applications with very high noise levels or when treating the room and noise source is impractical. VEC offers the Daeil DSE Series Acoustic Enclosure which provides best-in-class sound performance for your SEM or Dual Beam microscope. With 18 dB of noise reduction at 80 Hz, 20 dB at 100 Hz, and 40 dB at 200 Hz, the Daeil DSE will bring most locations within the microscope's acoustic specification. In addition, the enclosure has a cooling control system to prevent rising temperatures, and users can add custom configurations and accessories according to requirements.



Mitigation for Precision Instruments

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VEC CLEANROOM PRODUCTS

VEC Cleanroom Acoustic products are designed and tested specifically for cleanroom applications. Cleanrooms have many noise sources, including mechanical equipment, fan filter units, pumps, compressors, etc. VEC designed its cleanroom products explicitly to reduce noise in cleanroom applications. With a reinforced mylar exterior that is cleanroom compliant, it is durable, easily washable, and stain resistant.

CAP-A

VEC Cleanroom Acoustic Absorption Panel (VEC-CAP-A) is a wall-mounted panel that absorbs ambient cleanroom noise, dramatically reducing noise refraction and overall noise levels.



The VEC-CAP-A and CAP-B have a white, reinforced mylar exterior that is easily wipeable and tear-resistant, ideal for clean room applications.

PERFORMANCE DATA

1/3 Octave Sound Absorption Coefficients at the Octave Band Frequencies						NRC
125	250	500	1000	2000	4000	
0.25	0.80	1.12	0.96	0.64	0.44	0.90

**Type A Mounting as per ASTM E90-09 (2016), ASTM E413-22, ASTM E1332-2, and ASTM E2235-04 (2020)*

CAP-B

The VEC-CAP-B absorbs noise in the cleanroom much like the VEC-CAP-A, with the added benefit of preventing noise transmission through walls. The VEC-CAP-B is ideal for walls between the cleanroom chase and aisles with noise sensitive tools and instruments or on walls adjacent to rooms with large mechanical equipment.

PERFORMANCE DATA

1/3 Octave Sound Absorption Coefficients at the Octave Band Frequencies						NRC
125	250	500	1000	2000	4000	
0.12	0.76	0.56	0.86	0.85	0.36	0.75

STC	20
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**Type A Mounting as per ASTM E90-09 (2016), ASTM E413-22, ASTM E1332-2, and ASTM E2235-04 (2020)*

TAKE THE GUESSWORK OUT OF NOISE REDUCTION.

VEC understands the acoustic requirements of laboratory equipment and instrumentation. VEC will help select the correct material type and calculate the required quantity to take the guesswork out of noise abatement in your laboratory.



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