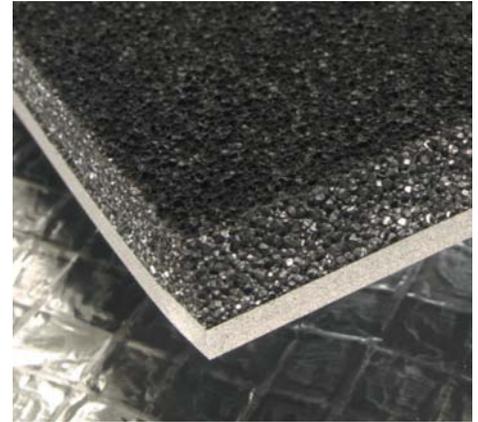




# Technical Data Sheet

**VB-4** is a lightweight, multi-layered composite material engineered to provide shock absorption, an acoustic barrier and thermal insulation in a single product. VB-4 is constructed of a thin, decoupling layer of foam bonded to a dense, 0.100" thick mineral loaded vinyl barrier. The decoupling foam layer creates an airspring which allows for the reflection of high energy, airborne sound. The vinyl barrier is essentially a floating wall, which, because of its high mass and relative thinness, is one of the most effective acoustic barrier materials available. In an automotive application, noise entering the passenger compartment from beneath the vehicle is reflected by the dense vinyl layer.



**VB-4** is an important member of a specialized family of high performance acoustic products engineered to work together. Consulting with a Cascade Audio Engineering specialist will allow you to select and combine these products to transform your personal space into the ultimate environment.

### Benefits:

- Maximum noise reduction with minimum added weight
- Quickly treat flat surfaces
- Impervious to moisture and harsh liquids
- Reduced installation time compared to other noise control techniques
- No special tools required to install

### Applications:

- Automotive undercarpet (i.e. footwells, firewall, cargo / storage areas)
- In wall barrier ( i.e. home, studio, commercial)
- RV generator housings
- Marine engine bays
- Air compressor and machine tool housings

### Properties:

Color.....	Black
Sheet Size (inches).....	37"x 54"(VB-4.5) & 54"x 57" (VB-4)
Weight lbs. (sq./ft.).....	1 lb.
Thickness.....	0.250"
Flammability (foam).....	UL 94 HFI
Flammability (composite).....	UL 94 HBF; Dot MVSS302 (pass)
Tear Strength (foam).....	1.5 lb/in. min.
Elongation (foam).....	120% min.
Tensile (foam).....	12 psi. min.
Thermal Insulation Factor.....	R4

## ACOUSTICAL PROPERTIES

Material	Frequency (Hz)						STC
	125	250	500	1K	2K	4K	
VB-4	16	18	22	28	33	36	27

Installation Instructions Available at [www.cascadeaudio.com](http://www.cascadeaudio.com)

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