



Sonic Fiber Sound Absorber

Sonic Fiber Sound Absorber is a semi-flexible non-asbestos mineral wool that provides much greater sound attenuation and absorption than fiberglass bats or urethane foam. Sonic Fiber is naturally hydrophobic (repels water), fire resistant, does not promote mold growth, and is vermin-proof. It is available in sheets that are either un-faced or faced on one side with an encapsulant which protects the fibers yet remains breathable. Sonic Fiber comes in standard size sheets of 4' x 6' with a 2" thickness, and a density of 8 lbs/cu. ft. Different thicknesses, sheet sizes and facings are available upon request. Mechanical and acoustic properties are provided below.



Un-Faced



Faced in Black

The Noise Reduction Coefficient (NRC) of a material is obtained through testing by a certified laboratory to ASTM standards. The NRC is an indication of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection (such as a smooth concrete surface) and an NRC of 1 indicates perfect absorption. Sonic Fiber is used inside rooms, enclosures and walls to significantly reduce acoustical reflections and overall sound energy, and may be used together with sound barrier materials, such as Sonic-Shield™ Noise Barrier.

Typical Mechanical Properties	
Weight Density	8 lb./cu.ft.
Thickness	2.000"
Adsorption ¹	<1% by volume
Combustibility ²	Non-combustible
Corrosivity ³	Non-corrosive
Thermal R-Value	8.3
Maximum Temperature ⁴	1200°F

Typical Acoustical Properties (NRC) ⁵		
Frequency (Hz)	2" thick	4" thick*
125	0.35	1.15
250	0.84	1.17
500	1.08	1.18
1000	1.04	1.03
2000	0.96	1.06
4000	0.93	1.08
NRC	1.00	1.10

*estimated

1. ASTM C 1104
 2. NFPA Standard 220 tested IAC ASTM E 136
 3. ASTM C 665, MIL-I-24244
 4. ASTM C 411
 5. ASTM C 423

For other product information, technical assistance or ordering, please call Sonic-Shield at 888-769-0766 or on-line at www.sonic-shield.com