



CASCADE AUDIO ENGINEERING
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VBLOK VB-TSM

Category: Thermo-Acoustic Control

Technical Data Sheet

VB-TSM is a sandwich composite incorporating a barrier septum with over one inch of acoustical foam and polyester film that has been metalized with a 99.99% pure layer of aluminum. The foam layer functions as an air spring and mechanical noise absorber. The barrier septum is sandwiched into the acoustical foam to provide sound blocking. **VB-TSM** is able to absorb upper midband and high frequency airborne sound typically found in marine engine box applications. The aluminum layer functions as a reflective thermal control / insulative layer.



VB-TSM is an important member of a specialized family of high performance damping 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:

- Absorbs midband and high frequency noise
- Thermal control capabilities
- Broadband Acoustic Barrier incorporated into foam
- Easy to install
- Resists water and harsh chemicals
- Creates custom, high tech look

Applications:

- Marine engine bays
- RV generator housings
- Sheet metal equipment enclosures
- Air compressor and machine tool housings

CAE CASCADE AUDIO ENGINEERING		VB-TSM THERMAL BARRIER				
		1/4" FOAM - 1# BARRIER - 1" FOAM				
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SOUND ABSORPTION COEFFICIENTS - OCTAVE BAND CENTER FREQUENCY (Hz)						
125	250	500	1KHz	2KHz	4KHz	NRC
.33	.24	.63	1.23	1.35	1.14	.85
SOUND TRANSMISSION CLASS - OCTAVE BAND CENTER FREQUENCY (Hz)						
125	250	500	1KHz	2KHz	4KHz	STC
20	21	25	28	32	42	29

Size.....	37" x 54"
Thickness (inches).....	1.25"
Weight.....	1.21 lbs./sq.ft.
Effective Temp. Range (Mylar).....	-20 degrees F. to +425 degrees F.
Effective Temp. Range (Foam).....	-30 degrees F. to +200 degrees F.
Elongation (Mylar).....	110%
Elongation (Foam).....	100%
Tensile Strength (Mylar).....	28000 psi.
Tensile Strength (Foam).....	240 psi.
Chemical Resistance.....	Oils and greases do not penetrate after 2 months exposure at 23 degrees C.
Flammability.....	UL-94 V-0 and FAR 25.853

Installation Instructions Available at www.cascadeaudio.com

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