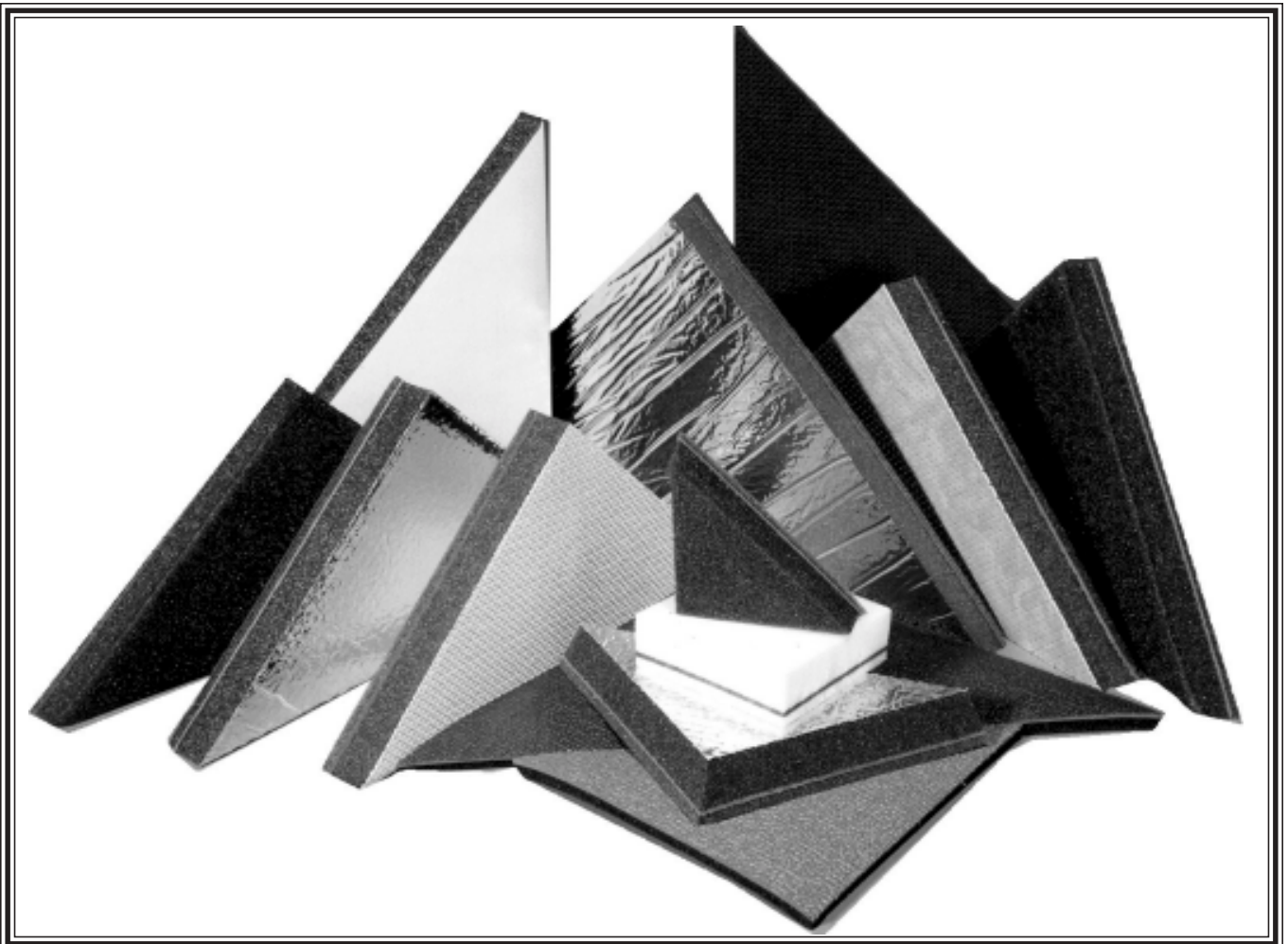




W H I S P E R M A T

FOAM/BARRIER COMPOSITES



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WHISPERMAT™

WHISPERMAT is a noise control material specifically designed to achieve maximum attenuation over a broad frequency range. Whispermat combines dense, limp, flexible, non-lead loaded barriers with Hushcloth® foams providing a total noise control system. Unlike other composites available, these multilayer systems are manufactured without costly adhesives, thus eliminating the potential for failure between layers. Designed by acoustical engineers, Whispermat has been optimized to economically provide:

High Transmission loss - the barriers ability to impede airborne noise.

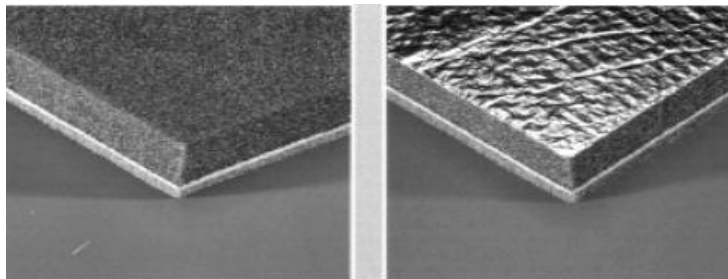
High Noise Reduction Coefficients - the foam's ability to absorb airborne sound energy with minimum reflections.

Damping - the composite's ability to attenuate structure-borne vibration on metals and plastics thereby reducing reradiated noise and material fatigue.

The diversity of constructions makes possible engineered solutions for most OEM and in-plant applications. Whispermat is available with single and double layers septums, various barrier weights, foam thicknesses, and a variety of surface treatments.

Whispermat is available in rolls or sheets and can be easily field cut with a knife or scissors. These composites can be adhered to the substrate with factory supplied, economical, SBR pressure sensitive adhesive or an acrylic based pressure sensitive adhesive for temperatures up to 250°F. It is recommended that a contact adhesive or mechanical fasteners be used for these heavily loaded composites in overhead applications.

Whispermat non-reinforced barrier septum is a flexible vinyl used by itself or in combination with absorptive material as an additive mass treatment for existing equipment enclosures or housings, and as a pipe or duct wrap. Whispermat reinforced vinyl is used in conjunction with grommets and Velcro to provide a suspended enclosure for in-plant applications. It is available with quilted or encapsulated fiberglass for added absorption and to meet class A flammability requirements.



WM2

WM2 - Reinforced

WM2 is a sandwich composite incorporating 2 layers of Hushcloth® acoustical foam and a single barrier septum. When applied to sheet metal, plastic, or wood, the isolation foam layer, typically 1/4" thick, decouples the barrier while the thicker absorption layer reduces airborne sound. This economical acoustical system can be formulated to provide maximum noise reduction in the harshest environment by adding various facings or embossed surfaces.

Physical Properties - Typical of Most Composites

Color Barrier - Black; Foam - Charcoal Grey

Density Barrier - 1 lb/ft²; Foam - 2 lb./ft.³

Flammability MVSS 302, SAE J369, Formulation to UL-94 V-O and FAR 25.853

Temperature Range -30°F to +200°F MIL-STD-810 at 250°F, 7 24 hr. periods PASS

Thermal Conductivity .30-.38 BTU in./hr. ft.²°F ASTM C518

Acoustical Properties Sound Transmission Loss, db, (ASTM-E90-75)

Barrier Weight	Frequency (Hz)						
lb/ft ²	125	250	500	1K	2K	4K	STC
1	15	17	21	27	32	36	26

Standard size

Rolls 54" x 50'; Sheets 54" x 32"

Composite Thickness 1"



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