

WHISPERFOAM®

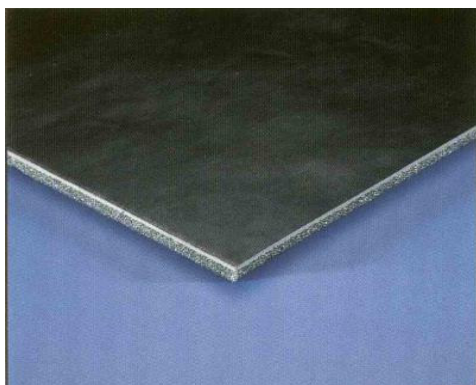
Barrier as septum layer in foam composite



WhisperFoam® is a sandwich composite incorporating 2 layers of HushFoam acoustical foam and a single barrier septum. When applied to sheet metal, plastic or wood, the decoupling foam layer typically ¼"(6mm) thick isolates the barrier while the thicker absorption layer reduces airborne reverberant noise.

Barrier Type	Frequency (Hz)						
	125	250	500	1K	2 K	4 K	STC
1"(25mm) Absorber + 1 lb/ft ² (4.9kg/m ²) Barrier	18	20	25	32	34	36	30
1"(25mm) Absorber + 1 lb/ft ² (4.9kg/m ²) Barrier on 20ga.(0.9mm) steel	21	27	29	37	49	53	32
ASTM E90-70	Sound Transmission Loss dB						

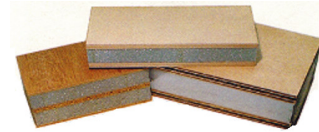
WHISPERMAT® - WM1 Barrier with foam decoupler



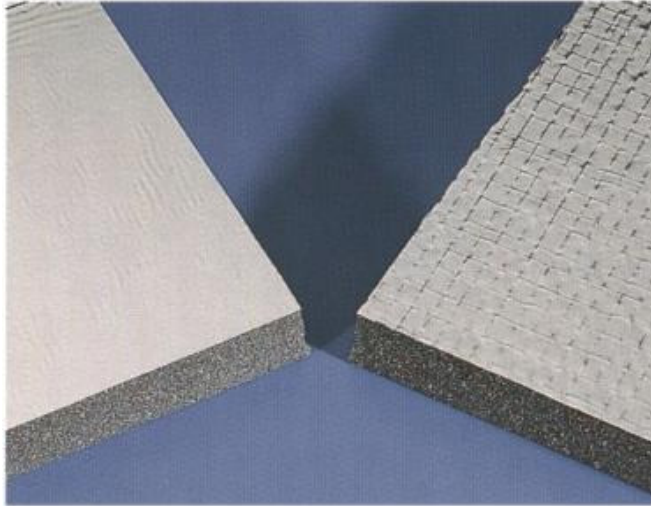
Whispermat® WM1 is a barrier layer of **Whispermat®** cured to a single layer of **Hushcloth®** acoustical foam. When the **Whispermat®** is applied to sheet metal, plastic or wood, the foam is exposed to absorb airborne noise. The barrier then functions to both contain sound by increasing the effective mass to the panel and to damp the structure borne resonant vibrations

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HushFoam[®] Aluminized or White Reinforced Polyester Facings



HushFoam[®] is used in environments hostile to unprotected foam. These polyester films, plain and reinforced, offer abrasion resistance and are unaffected by moisture, lubricants, fuels, dirt and a variety of solvents. The film is easily wiped clean and seams may be taped for a finished appearance.

Key Benefits

- Enhanced low frequency absorption characteristics
- Superior resistance to fluid ingress
- Potential to combine with WhisperFoam[®] barriers, WhisperDamp vibration damping sheet and Pressure sensitive adhesive for ease of application.

Thickness	Frequency (Hz)						
	125	250	500	1K	2K	4K	NRC
½"(12mm)	0.08	0.15	0.53	0.53	0.15	0.28	0.35
¾"(19mm)	0.08	0.33	0.87	0.38	0.29	0.32	0.45
1 "(25mm)	0.11	0.56	0.61	0.31	0.34	0.46	0.45
1½"(37mm)	0.20	0.74	0.49	0.37	0.31	0.49	0.50
ASTM C423-90a	Absorption Coefficient						

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