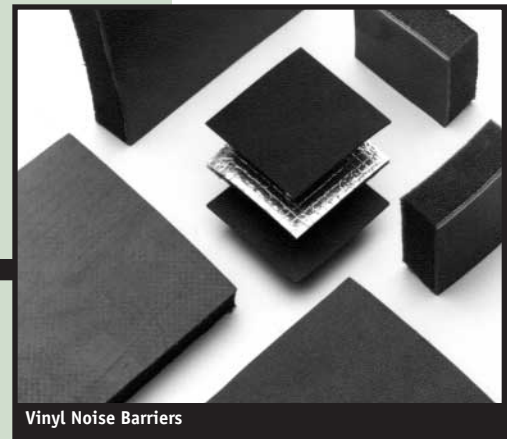


SOUNDSCREEN™ Vinyl Noise Barriers and Mats

a McGill AirSilence™ Product

Product Bulletin 4241

United McGill® products



SOUNDSCREEN Vinyl Noise Barriers Effectively Block Airborne Noise

SOUNDSCREEN Vinyl Noise Barrier is flexible fused vinyl sheet material loaded with high density inert fillers. This combination of materials provides the limpness and mass necessary for the effective blocking of airborne noise. Easy to cut and install, the material may be laid on floors, draped over uneven surfaces or suspended as a curtain wall.

Standard Products

Reinforced Loaded Vinyl (LVR): The basic 1/8-inch-thick, 1 lb/sq ft density loaded vinyl is reinforced in the center with a polyester scrim. Use in all hanging or other applications where superior integral material strength is needed.

Clear Vinyl (LVC): Used as a transparent curtain or as a window in a curtain enclosure, SOUNDSCREEN standard LVC is 0.08 inches thick to 0.5 lb/sq ft density. Where required, 0.75 and 1 lb/sq ft densities can be furnished.

Plain Black Reinforced (LV): Our lowest-cost LV bonds to sheet metal or plywood to make machinery covers or walls. Lay it under rugs or over ceilings to cut down on noise transmitted into plant offices.

Floor Mat (FVM-1 or FVM-1S): Unreinforced black loaded vinyl with a 1/4-inch backing of decoupling foam fused to LV. It is used on floors, bulkheads, and side panels to cut down road, engine, and drive train noise. Plain surface model (FVM-1) is coated with a scuff-resistant vinyl to improve wear resistance (FVM-1S).

Installation

The 1/8-inch-thick loaded vinyl comes in rolls and can be easily cut with a knife, shears, or steel rule die. When suspended from an existing wall or partition, the vinyl should be pinched between bolted support strips and suspended from a suitable structural support.

For curtain applications, a grommeting kit (SOUNDSCREEN GK-1) containing a tool and grommets is available for economical self-installation. Grommets should be spaced on maximum 12-inch centers, and adjacent

sections can be overlapped 6 inches to reduce acoustical leakage.

A variety of methods can be used to acoustically seal overlapping seams. For flashing existing partitions up to a ceiling, the adjoining vinyl sheets can be riveted or bolted together. For custom-designed curtain enclosures and barriers, Velcro® strips can be sewn onto the vinyl edges to provide a positive sealing mechanism.

Loaded vinyl contains a plasticizer ingredient that can create adhesion problems. For applications where an adhesive seal is appropriate, using a two-part urethane is recommended.

Our vinyl noise barriers are easy to install. Materials may be laid on floors, draped over uneven surfaces or suspended as a curtain wall.

Products depicted in this specification sheet were current at the time of publication. As a quality-conscious manufacturer, McGill AirSilence is continually seeking ways to improve its products to better serve its customers. Therefore, all designs, specifications, and product features are subject to change without notice.

United McGill® is a registered trademark, and McGill AirSilence™ and SOUNDSCREEN™ are trademarks of United McGill Corporation.

Velcro® is a registered trademark of Velcro Industries B.V.

Acoustical Properties

Material	Typical Sound Loss in dB						STC
	125	250	500	1K	2K	4K	
1 lb/sq ft LV and LVR	15	19	21	26	33	37	27
0.5 lb/sq ft LVC	8	19	16	21	25	30	20

Physical Properties

Product	Thickness and Weight	Temperature Range (°F)	Color	Resistance (all products)
LVR	1/8", 1 lb/sq ft	0-180	black	water: excellent petroleum: excellent alkalis: good flame: meets MVSS 302
LV	1/8", 1 lb/sq ft	0-180	black	
LVC	0.08", 0.5 lb/sq ft	0-120	clear	

Product Availability

Model	Roll Size	Vinyl Description
LVR	54" x 60'	gray, reinforced vinyl
LVC	48" x 60'	clear vinyl
LV	54" x 60'	black, unreinforced vinyl
FVM-1	54" x 60'	black, vinyl floor mat
FVM-1S	54" x 60'	black, vinyl floor mat with scuff coating

McGill AirSilence LLC

An enterprise of United McGill Corporation — Founded in 1951

2400 Fairwood Avenue
Columbus, Ohio 43207-2700
614/443-5520, Fax: 614/542-2620
E-mail: acoustics@mcgillairsilence.com
Web site: mcgillairsilence.com