

VINYL SOUND BARRIER

block transmission of sound through walls, floors, and ceilings

All Noise Control vinyl-sound Barrier is a specially developed mass layer product offering superior acoustic transmission loss combined with good damping properties.

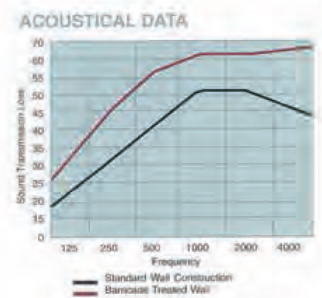
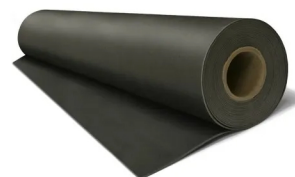
All Noise Control's mass/damper sheet offers STC Ratings up to 32. It is a low cost material used for a variety of marine and land based applications. The drawing below shows VinylSound Barrier installed as a suspended barrier. This typical application would improve transmission loss between adjoining spaces.

The combination of the damping and stiffness properties of Vinyl-Sound Barrier gives it excellent performance as a combined mass layer and damper when applied to partition panels and lightweight structural bulkheads, reducing transmission of both airborne and structure bourne noise. Application direct to panels is best done with pre-applied pressure sensitive adhesive (PSA), backed up by minimal fasteners or staples.

Vinyl-Sound Barrier exhibits the strength and workability of conventional reinforced barrier materials, With out using a fabric layer. This innovation of intregral strength and tear resistance provides a barrier that is suitable for suspension with mechanical fasteners, without the cost normally associated with a fabric reinforced laminated product.

The standard color of VinylSound Barrier is black, Grey or Mylar facing can be applied to Vinyl-Sound Barrier for further reinforcement. Vinyl-Sound Barrier is sold by the square Foot on 4.5' wide rolls up to 500 linear feet.

- Hotel/Motels
- New Construction
- Home Theaters
- Music Studios Homes
- Apartments & Condos
- Strip Plaza
- Residential Homes
- Commercial Stores
- Offices



VINYL SOUND BARRIER SPECIFICATIONS

Barrier Sheet

The Material

All Noise Control Vinyl-Sound Barrier
 Is produced on 54" (1.37m) wide rolls
 Length of roll varies by product density
 The following densities are available
 In quantity or on a per square foot basis

Surface Density^a

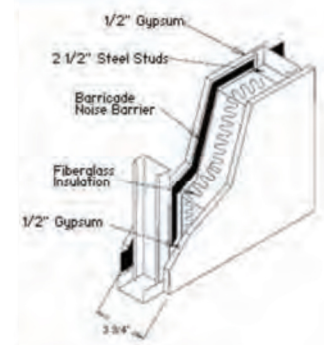
0.5 lb/sf (2.44 kg/m²)
 1.0 lb/sf (4.88 kg/m²)
 1.5 lb/sf (7.32 kg/m²)
 2.0 lb/sf (9.76 kg/m²)

Thickness

1/16" (1.59mm)
 1/8" (3.18mm)
 3/16" (4.76mm)
 1/4" (6.35mm)

Typical Physical Properties

50 to 2.0		Stiffness, MPA	
Thickness (in)	1/16 to 1/4	(Barrier)	19.60
Weights (lb/ft ²)	50 to 2.0	ASTM 749	
Flammability,		Tensile, PSI	
UL 94 HF 1	MEETS	(Barrier)	762
MVSS 302		ASTM D 412	
Specific Gravity		Elongation, %	
(Barrier)	1.80	(Barrier)	200
ASTM D 798		ASTM D 412	
Hardness		Tear, lbs/1"	
(Barrier)		(Barrier)	77
Shore A 2	90 Nominal	ASTM D 624	
ASTM D 2240		Temp Range,	
		Degrees Fahrenheit	40 to 255



Typical Acoustic Properties

Frequency, Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	STC
2 lb/ft, sq	18	19	18	19	19	23	26	27	28	32	34	35	37	38	40	42	43	43	32
1 lb/ft, sq	13	14	13	14	17	18	22	23	24	27	29	29	33	34	35	36	40	40	27
5 lb/ft, sq	8	5	6	7	12	13	14	15	17	19	22	22	24	26	28	30	32	32	20

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