Noise Barrier with Fiberglass Absorber / Decoupler

Data Sheet

This Noise Barrier consists of flexible Mass Loaded Vinyl Barrier laminated to a quilted fiberglass decoupler on one side.

The combo forms a thin, lightweight acoustical product that displays excellent mechanical properties while providing superior sound transmission loss. Sound waves originating from the source will be initially absorbed by the fiberglass and then blocked by the mass loaded vinyl. Any reflected sound wave component will be further dissipated into the fiberglass absorber.

This MLV and Fiberglass Noise Barrier has been used extensively as a sound absorbing liner by original equipment manufacturers on their machinery housings, compartments, enclosures, walls, etc.

Acoustical Properties (Noise Transmission Loss (dB)/Frequency (Hz):

Hz	125	250	500	1000	2000	4000	STC
VP1-100	18	18	23	30	39	46	29
VP2-100	19	20	23	33	44	53	30

* Per ASTM E-90

Typical Physical Properties of Components:

Product	Weight	Thickness	Service Temp.	Tensile Strength	Tear Strength	Elongation
FF-100	1 lb/sq. ft.	.10"	40° F to 180° F	400 psi	70 lbs/in.	200%
1" Fiberglass Decoupler	.2 lb/sq. ft.	1"	-20° F to 350° F	NA	NA	NA
2" Fiberglass Decoupler	.4 lb/sq. ft.	2"	-20° F to 350° F	NA	NA	NA

Vinaflex (VP) Noise Barrier, per ASTM E-84 "Surface Burning Characteristics of Building Materials," meets Class A Rating.

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