

## Foil Faced Mass Loaded Vinyl Sound Barrier with Quilted Fiberglass Absorber/Decoupler

MetroFlex Mass Loaded Vinyl with Quilted Fiberglass Absorber/Decoupler is a flexible high temperature infused vinyl that is laminated to a quilted fiberglass decoupler on the inside. The exterior of the mass loaded vinyl is laminated with a reinforced foil facing. The combination of the MLV and the absorber/decoupler layer forms a thin, lightweight acoustical product that displays excellent mechanical properties while providing superior sound transmission loss.

Sound waves from the source will initially be absorbed by the fiberglass absorber layer and then be blocked by the mass loaded vinyl. Any reflected components of the sound wave will be further dissipated into the fiberglass absorber.

MetroFlex Mass Loaded Vinyl Sound Barrier will not shrink, rot, or cause metal corrosion, and also features a strong resistance to adverse environmental conditions, oils, weak acids, and alkalis. MetroFlex FF MLV is used primarily on soundproofing HVAC ducts, piping, machinery, and exhausts. FF MLV is ideal for direct application to the noise source and/or to the housing covering the noise source.

### Acoustical Properties\*

MetroFlex Sound Barrier w/Fiberglass Decoupler provides the following noise reduction.

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

Hz	125	250	500	1000	2000	4000	STC
MF1-10ALQ	18	18	23	30	39	46	29
MF2-10ALQ	19	20	23	33	44	53	30

\*Per ASTM E-90



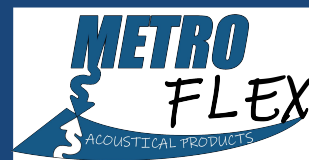
MetroFlex Mass Loaded Vinyl with Fiberglass Absorber/Decoupler

#### Standard roll size by density:

MF1-10ALQ	(1 lb/sf)	54" x 30'
MF1-20ALQ	(2 lb/sf)	48" x 30'
MF2-10ALQ	(1 lb/sf)	54" x 30'
MF2-20ALQ	(2 lb/sf)	48" x 30'

#### PART CODE LEGEND:

MF1 = 1" Fiberglass Decoupler  
MF2 = 2" Fiberglass Decoupler  
10ALQ = 1 lb/sf  
20ALQ = 2 lb/sf



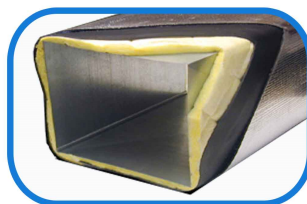
#### Typical Physical Properties of Components:

Product	Weight	Thickness	Service Temp.	Tensile Strength	Tear Strength	Elongation
MF-10F	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

Per ASTM E-84 "Surface Burning Characteristics of Building Materials," meets Class A Rating.

### Applications:

- Breakout Noise of HVAC Ducts
- Pulsation/Vibration Noise on Piping
- Vibrational Noise from Equipment Casings
- Running Water Noise on Drainlines



A HVAC duct soundproofed with MetroFlex Mass Loaded Vinyl with Quilted Fiberglass Absorber/Decoupler

**- The Mass of a Partition is the Major Factor in it's Ability to Block Sound -**