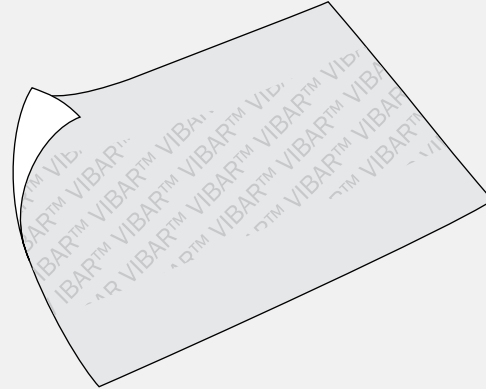


SILENCER SHEETS

Vibar™ Film



Description

VIBAR™ is a thin polymer film material that is resistant to heat, solvents and acids. It is used to provide erosion protection for fibrous media fill in silencers or acoustic panels, while also allowing noise attenuation. For minimizing airborne particles.

Vibar™ film is used to line fibrous media on silencers or acoustic panels, to prevent fibers from entering the airstream. They also prevent moisture and other contaminants from coming into direct contact with the media itself. When no acoustic media whatsoever is acceptable in the system, Vibro-Acoustics No-Media silencers are recommended.

Specifications

Silencer and acoustic panel assemblies, including acoustic media and Vibar™ film, shall have maximum combustion ratings as noted below when tested in accordance with ASTM E84 or UL 723:

- > For projects where indoor air quality (IAQ) is important like healthcare and food processing
- > Flame-Spread Index 25
- > Smoke Developed 50
- > Tensile Strength to ASTM D882 – 36,000 Psi TD
- > Elongation to ASTM D882 – 75% TD
- > Shrinkage, 2% in 5 minutes at 266° F
- > Manufacturers must be able to provide a written test report by a 3rd party organization showing the test results

Applications for Vibar™

- > Applied when media filled silencers or acoustic panels are to be installed where direct media contact with the airstream is undesirable.
- > Note that film liners generally cause a reduction in acoustic performance and longer silencer lengths may be required.

Possible building applications:

- > Health Care
- > Clean Rooms
- > Laboratories

Possible system applications:

- > In supply, return and exhaust ductwork
- > In fan plenums and air handling units (both supply and return)
- > On cooling towers, air cooled chillers, outside air intake or exhaust shafts
- > On the receiver side of valves, dampers, terminal boxes, etc.

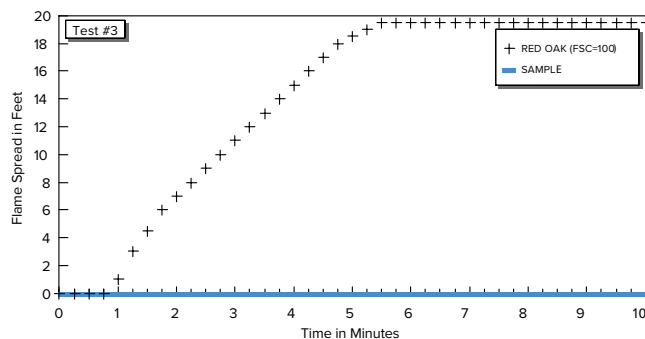
Code and Standard Compliances

Silencers or acoustic panels with Vibar™ are a Class 1 category assembly with Flame-Spread Index of 0 and Smoke Development of 15 when tested in accordance to ASTM E 84. This meets and exceeds the NFPA 90A maximum requirements of Flame-Spread Index, 25 and Smoke Developed, 50.

Silencers or acoustic panels with Vibar™ conform to requirements of ASHRAE 62.1 for resistance to mold growth and erosion.

Silencers or acoustic panels with Vibar™ meet the requirements for CSA Standard Z317.2-01 *Special Requirements for Heating, Ventilation and Air Conditioning (HVAC) Systems in Health Care Facilities, and The Facility Guidelines Institute Guidelines for the Design and Construction of Health Care Facilities published by the American Society for Healthcare Engineering.*

Flame Spread Classification Test Results –
Silencer/acoustic panel with Vibar™ flame spread is 0



Smoke Developed Test Results – Area under the graph for the silencer/acoustic panel with Vibar™ sample compared to the reference sample results in smoke developed of 15.

