

Encapsulated Medical Grade Noise Attenuator

Description:

Peflex 4PPAAEN is a flexible insulated C-UL S110 (AIR DUCT) certified composed of two layers of pure aluminum and two layers of polyester encapsulating a galvanized metal wire. The internal duct of the 4PPAAEN is perforated on more than 25% of its surface, thus allowing a substantial attenuation of the noise transmitted by the air.

Peflex 4PPAAEN has a unique encapsulation system designed to prevent any contact between the air in the duct and the non-hazardous fibers of the insulation. This insulation sits inside a factory-made, encapsulated cavity. This product cannot therefore be cut on site.

Peflex 4PPAAEN is corrosion resistant, completely water repellent and withstands high operating pressures. Resistance to high operating pressures is possible because of the unique quadruple lamination process. The large wall thickness (0.0082" /0.21mm) of the internal duct as well as the small distance between the wire helix (1 po, 25.2 mm) allow high operating pressures (15 po. H₂O (3.7 kPa)) to be obtained.

Peflex 4PPAAEN Offers the best flame resistance in the industry since no combustible material is visible at the outer wall of the duct. The inner wall of the Peflex 4PPAAEN is made from pure non-combustible aluminum. In addition, the adhesive used in the quadri-lamination process contains retardant agent.

Peflex 4PPAAEN Has a much lower internal coefficient of friction than regular flexible ducts made from fabric reducing the energy required by the system to move air.

Bending Diameter: 0 times the diameter of the pipe

Insulation: John Manville Flex-Glass certified formaldehyde-free and non-hazardous to health (see technical sheet)

Available diameter: 3"- 4"- 5"- 6"- 7"- 8"- 9"- 10"- 12"- 14"- 16"- 18"- 19"- 20"
Standard length of 6'. Made-to-measure available

Flame spread	< 25
Fume development	< 50
Maximum air velocity	4000 ft/min
Maximum continuous positive static pressure	15 in. H ₂ O (3 kPa)
Maximum continuous negative static pressure	1.5" H ₂ O (0.37 kPa)
Temperature range	-30°F to 250°F (-30°C to 121°C)
Maximum operating temperature range	-30°F to 140°F continuously (at 4" WC) -30°F to 180°F continuously (at 2" WC) -30°F to 250°F continuously (at ½" WC)
R coefficient of insulation	4.2 - 6 - 8.4
Vapor barrier material	Metallic polyester
Flexible duct thickness	0.0082" /0.21mm
Vapor barrier thickness	0.0037" /0.095mm



This product is listed
C-UL-S110 – US-UL-181
Flexible air duct
Class 1



This product meets the standards
NFPA 90A
NFPA 90B

