

# PEFLEX 3PPA / TECHNICAL DATA

## NOISE ATTENUATOR

### DESCRIPTION

**Peflex 3PPA** is a certified C-UL S110 (AIR DUCT) flexible air duct composed of one layer of pure aluminum and two layers of polyester encapsulating a galvanized wire. The internal duct of the 4PPA is perforated on more than 25% of its surface, thus allowing a substantial attenuation of the noise transmitted by the air.

**Peflex 3PPA** is corrosion resistant, completely water repellent and withstands high operating pressures. Resistance to high operating pressures is made possible by the unique tri-lamination process. The important thickness of the internal walls of the duct (0.0041" / 0.105mm) as well as the small distance between the wire helix (1 in, 25.2 mm) allows to obtain high operating pressures.

**Peflex 3PPA** offers the best flame resistance in the industry since no combustible material is visible in the internal duct. The outer wall of the Peflex 4PPA is made of pure non-combustible aluminum. In addition, the adhesive used in the tri-lamination process contains a retardant.

**Peflex 3PPA** has a vapor barrier composed of two layers of metallized polyester laminated with fiberglass for intensive puncture resistance. This type of vapor barrier is mandatory for the designation "flexible air duct" according to the C-UL S110 test standard (AIR DUCT).

**Peflex 3PPA** has a much lower internal coefficient of friction than regular flexible ducts made from fabric reducing the energy required by the system to move the air.

**Bending diameter:** 0 times the duct diameter

**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"- 22"- 24"

Standard 25" length in a 48" high box.

**\* Duct cleaning instructions, always refer to NADCA methods and experts**

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**\* The duct is listed C-UL-S110 - US-UL-181 Conduit Flexible Classe 1**

**\*The C-UL-S110 standard includes NFPA-90A and B tests.**



Flame spread	< 25
Fume development	< 50
Maximum air velocity	4000 ft/minute
Maximum continuous positive static pressure	12 in. H <sub>2</sub> O (3 kPa)
Maximum continuous negative static pressure	1,5 in. H <sub>2</sub> O (0,37 kPa)
Temperature range	-30 °F to 250°F (-30°C à 121°C)
Maximum continuous operating temperature range	-30oF to 140oF continuously (at 4" WC) -30oF to 180oF continuously (at 2" WC) -30oF to 250oF continuously (at ½" WC)
R coefficient of insulation	4.2 – 6 - 8.4
Vapor barrier materials	Metallic Polyester
Duct wall thickness	0,0037"/0,095 mm
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### INSTALLATION WARNING – ACOUSTIC FLEXIBLE DUCTS

1. Do not install upstream of VAV boxes: Acoustic ducts must be installed after Variable Air Volume (VAV) boxes to avoid pressure fluctuations or excessive stress on components.
2. Do not install in areas with continuously high negative pressure: Acoustic ducts are not designed to withstand significant negative pressure on a continuous basis. Such conditions may lead to duct deformation, loss of integrity, or reduced acoustic performance.
3. Before installing any acoustic ducts, ensure that the operating conditions comply with good engineering practices as recommended by ASHRAE.
4. Analyze the location within the HVAC system: Supply zone, return zone, transition area, etc.
5. Confirm the expected airflow and pressure conditions in the section where the duct will be installed.
6. Ensure the selected duct is suitable for the intended use based on the manufacturer's technical specifications.

