

# PEFLEX 4PA / TECHNICAL DATA

## THERMALLY INSULATED

### DESCRIPTION

**Peflex 4PA** is a certified C-UL S110 (AIR DUCT) insulated flexible air duct consisting of two layers of pure aluminum and two layers of polyester binding a galvanized wire

**Peflex 4PA** 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 thickness of the walls of the internal duct (0.004 1" /0.105 mm) as well as the small distance between the wire helix (1 in, 25.2mm) allows to obtain high operating pressures (15po WC, 3.7 KPa).

**Peflex 4PA** 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 certification "flexible air duct" according to the test standard C-UL S110 (AIR DUCT).

**Peflex 4PA** offers a much lower coefficient of internal friction than flexible ducts made of fabrics reducing the energy consumption of the air distribution system.

**Peflex 4PA** offers the best flame resistance in the industry since no combustible material is visible in the internal duct. The internal and external walls of the Peflex 4PA are made of pure non-combustible aluminum. In addition, the adhesive used in the quadruple lamination process contains a retarding agent.

**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" - 22" - 24"

**Standard length** of 25' in a 48" 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	15 in. H2O (3,7 KPa)
Maximum continuous negative static pressure	2,5 in. H2O (0,62 kPa)
Temperature range	-30 °F to 250°F (-30°C à 121°C)
Maximum operating temperature	-30°F to 140°F continuously (to 4 "WC) -30°F to 180°F continuously (to 2 "WC) -30°F to 250°F continuously (to ½"WC)
R coefficient of insulation	R4,2 (1,25" standard thickness) R6 (1,5" standard thickness) R8,4 (2,5" standard thickness) R12 (3" standard thickness)
Vapor barrier materials	Metallic Polyester
Flexible duct thickness	0,004 1"/0,105 mm
Vapor barrier thickness	0,003 7"/0,095 mm

### INSTALLATION WARNING – ACOUSTIC FLEXIBLE DUCTS

1. Before installing any flexible ducts, ensure that the operating conditions comply with good engineering practices as recommended by ASHRAE.
2. Analyze the location within the HVAC system: Supply zone, return zone, transition area, etc.
3. Confirm the expected airflow and pressure conditions in the section where the duct will be installed.
4. Ensure the selected duct is suitable for the intended use based on the manufacturer's technical specifications.

