

PEFLEX 3PA / TECHNICAL DATA

THERMALLY INSULATED

DESCRIPTION

Peflex 3PA is a C-UL S110 certified insulated flexible air connector composed of one layer of pure aluminum and two layers of polyester encapsulating a galvanized metal wire.

Peflex 3PA 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 (0.0037" / 0.095 mm) as well as the small distance between the wire helix (1 in, 25.2 mm) allows to obtain high operating pressures (12 in. H₂O (3 kPa)).

Peflex 3PA 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 (AIR DUCT) test standard.

Peflex 3PA offers a much lower coefficient of internal friction than flexible ducts made of fabrics reducing the energy consumption of the air distribution system.

Peflex 3PA offers the best flame resistance in the industry since no combustible material is visible at the outer wall of the duct. This outer wall of the Peflex 3PA is 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 duct diameter

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

Available diameter : 3" - 4" - 5" - 6" - 8" - 10" - 12" - 14" - 16"

Standard 25' length in an 18" 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 ₂ O (3 KPa)
Maximum continuous negative static pressure	1,5 in. H ₂ O (0,37 kPa)
Temperature range	-20 °F to 250°F (-30°C à 121°C)
Maximal negative pressure	3 in. H ₂ O (0.74 kPa)
R coefficient of insulation	4.2 – 6 - 8.4
Vapor barrier materials	Metallic Polyester
Duct wall thickness	0,0037"/0,095 mm
Vapor barrier thickness	0,0037"/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.

