



TWIGA (CLASS 'O') RATED

FLEXIBLE DUCT

A Modular and Economical Air Distribution System with Maintenance Free Life



- **Fire Rated** - Class 'O' as per BS476 Part 6 & 7
- **Outer Jacket** - Tear and puncture resistant, low maintenance
- **Air Tight Inner Core** - Energy efficient, no air leakage, no fiber erosion
- **Insulation** - Excellent thermal resistance, non combustible and Class 'O' rated glasswool insulation
- **Wire Helix** - Strong and non corrosive
- **Reduces Total Installation Cost** - Fast and easy to install
- **Packaging** - Light weight and easy handling

Product Overview

Twiga Class 'O' rated flexible duct, designed for HVAC systems is fire rated, strong, light weight, fully flexible, compressible yet dimensionally stable.

Inner core made of aluminium/met foil is permanently bonded to a coated tough wire helix.

Thermal efficiency is achieved by wrapping with a blanket of glasswool insulation in various densities and thicknesses as per the required thermal resistance on the exterior of the inner core.

Outer jacket, which acts as a vapor barrier, is tear and puncture resistant and is made of aluminium/met foil with glass yarn reinforcement.

Application and Benefits

Ideal for all air-conditioning and ventilating systems in hospitals, hotels, industrial, residential, commercial and office buildings.

Available as both - with and without insulation.

Due to high degree of flexibility, it allows ducting around obstacles where prefabricated metal ducts would be difficult and costly to install.

A quick and economical means of correcting misalignment between system components.

Specifications

Standard Length	3.048 m (10 ft.)
Diameter Range	100 mm to 500 mm (4 inch to 20 inch)
Maximum Rated Velocity	20.32 m/s (4000 ft /min)
Temperature Range	0°C-90°C (32°F - 194°F)
Maximum Rated Positive Pressure	253.99 mm w.g. (10 inch w.g.)
Maximum Rated Negative Pressure	25.39 mm w.g. (1 inch w.g.)
Fire Rating	Certified as per BS 476 Part 6 and 7 (Class 'O')
For Insulated Ducts	
Standard Insulation Density	16 Kg/m ³ (1 lb/ft ³)
Standard Insulation Thickness	25 mm (0.98 inch)
Insulation R Value	0.64 m ² K/W (3.63 °Fft ² hr/Btu)
NOTE: Alternate insulation densities and thicknesses are available upon request for higher thermal resistance	

Products / Material of Construction

Products:

- Insulated Flexible Ducts
- Uninsulated Flexible Ducts

Material of Construction:

- Inner Core: Aluminium/Met Foil
- Outer Jacket: Aluminium/Met Foil

Friction Loss Diagram

