



# 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 fiberglass wool 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 fiberglass 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 <sup>3</sup> (1 lb/ft <sup>3</sup> )
Standard Insulation Thickness	25 mm (0.98 inch)
Insulation R Value	0.64 m <sup>2</sup> K/W (3.63 °Fft <sup>2</sup> hr/Btu)
<b>NOTE: Alternate insulation densities and thicknesses are available upon request for higher thermal resistance</b>	

## 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

