



# FLEX DUCT

SPECIALISTS IN FLEXIBLE DUCTING

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Management System  
ISO 9001:2015



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## Flexible Ducting: **Aluflex**

The Aluflex core is a fully flexible aluminium and polyester laminate duct consisting of 2 layers of 10 micron aluminium and 1 layer of 12 micron polyester giving it a total thickness of 47 micron. A high carbon spring steel wire is encapsulated in these layers to give the flexible its body.

### INSULATION

The Aluflex core is wrapped in **200 gram/m<sup>2</sup> polyester fiber insulation** which is held in place with an **aluminium jacket**. The aluminium jacket also gives it an **extra vapour barrier**.

### JACKET

The Aluflex jacket is constructed with **2 layers clear polyester** on the inside and an **aluminium** layer on the outside. The aluminium on the outside gives it its **fire rating**.

### APPLICATION

The Aluflex flexible ducts are used in **ventilation, air conditioning, and air handling** systems where high mechanical strength, temperature and fire resistance is required.

### TECHNICAL DETAILS

- **Temperature range:** -30° C to +140° C
- **Air velocity:** Up to 30m/s  
*Note: At these velocities sound through the flex could be generated.  
Recommended velocity is 4m/s.*
- **Operating pressure:** Max 2000Pa
- **Bend radius:** 1.5D (1.5 times the diameter)
- **Diameter range:** 102mm to 559mm
- **Fire safety:** Aluflex plain and Aluflex insulated have been tested under SANS 10177 Part 3. The Aluflex plain has a class 1 rating and the Aluflex insulated has a class 2 fire rating.
- **Lengths:** Standard lengths are 10 meters, other lengths are available on request.
- **Packaging:** The Aluflex plain is shrunk down from 10m to 30cm and the Aluflex insulated is shrunk down to 100cm and then placed in a colour coded plastic bag.
- **Pressure drop:** See pressure drop curve on flip side.



# Aluflex

## TECHNICAL DETAILS

