



Tecflex 800S Series Flexible Ducting



- Suitable for high, medium and low pressure applications.
- Fire resistant – Complies with the requirements of BS476.
- Suitable for air conditioning and fume extraction systems.
- Complies with the requirements of DW144.
- Manufactured from puncture and tear resistant materials.
- Withstands repeated flexing without damage.



Tectherm 800S



Description

Tecflex 800S is a tough but flexible PVC and glass cloth flexible ducting, it has a supporting steel wire helix embedded between two layers of fabric which produces approximately 10-25% less resistance than products with an exposed internal wire. Tecflex 800S is suitable for use in high, medium and low pressure ventilation and air conditioning systems and is also suitable for use in some fume extraction systems. The materials used in the construction of Tecflex 800S allow it to withstand repeated flexing without damage or kinking. Tecflex 800S complies with the requirements of HVCA specification DW144 and is rated class O in accordance with BS476.

Construction

Tecflex 800S is manufactured from a tough, grey coloured fabric comprising a pvc coating bonded to a tightly woven glass cloth to provide a tough yet highly flexible, puncture resistant, ducting. The fabric is supported by an encapsulated high tensile steel wire helix. Encapsulation of the wire helix within the fabric overlap provides an exceptionally smooth inner wall resulting in excellent friction loss characteristics.

Flexibility

The selection of an exceptionally durable fabric together with carefully controlled manufacturing techniques has resulted in a highly compressible, ultra flexible ducting.

Tecflex 800S compresses down to approximately 10% of its extended length – making connections in confined spaces considerably easier and reducing installation times.

Tecflex 800S is supplied in economical 6 metre lengths.

Specification

Un-insulated flexible ducting for joints or connections shall be Tecflex 800S. It shall be manufactured from a tight weave glass fibre fabric coated with a grey coloured PVC and supported by an encapsulated high tensile steel wire helix.

The duct shall meet the requirements of BS476 class O.

Technical Data

Diameter Range: 80mm to 600mm

Temperature Range: From -20°C to +70°C

Air Velocity: 25M/S maximum

Working Pressure: Maximum 2000 Pa positive up to 406mm dia.

Colour: Silver Grey

Standard Length: 6 Metres (longer or shorter lengths can be produced subject to minimum quantities).

Installation

Fully extend ducting, then cut to exact length required using a sharp knife and pliers. We recommend that joints be sealed on medium and high pressure applications using Tecseal or Tectape XT.

To fix Tecflex 800S to spigots we recommend the Tecfix banding or clip system.

Tecflex 800S

Fire Test Data

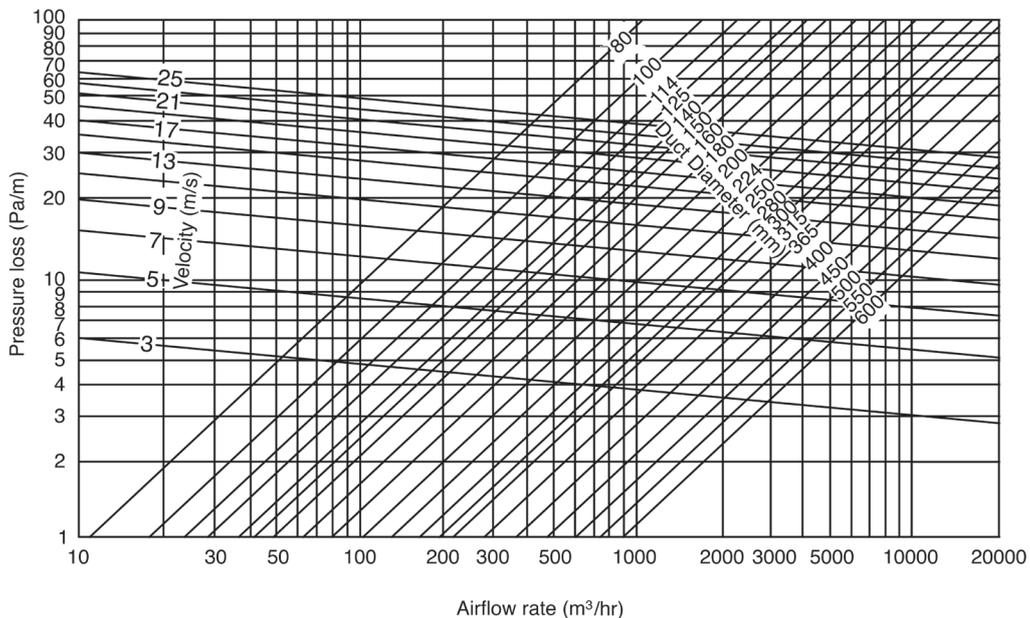
Lindab Tecflex 800S has been independently tested by Exova Warrington Fire who have advised that tests to BS 476:Part 6: 1989+A1: 2009 and BS476:Part 7: 1997 demonstrate that Tecflex 800S as tested complies with the requirements for class O, as defined in paragraph A13(b) of Approved Document B, "Fire Safety", to the Building Regulations 2000.

Pressure Loss

The pressure loss graph below is based on fully extended straight flexible ducting, per metre. Pressure drop in flexible duct can vary significantly from the data given below if the duct is not fully extended when installed. Typically a duct which is 90% extended can result in an increased pressure drop of up to 80%. A duct which is 75% extended could result in a pressure drop variance of as much as 200%. This information applies to all types of flexible duct and illustrates the importance of careful installation.

Mounting Instructions – Recommendations

- 1 Ducting must always be installed fully extended to produce the best results.
- 2 Hanging straps should be at least 25mm wide.
- 3 The distance between supports will vary according to the diameter of ducting. As a guide, on straight runs, supports should be at approx. 500mm centres. Keep duct sag to a minimum.
- 4 Ensure that when making connections the flexible duct is not over stressed.
- 5 Ensure that flexible ducting is not in contact with sharp objects which may puncture the duct when the system is commissioned.
- 6 Ensure that ducting is not placed on un-insulated steam or hot process pipes.
- 7 Connections to heater batteries should not be made with flexible duct.



Other Flexible Duct Products available from Lindab



Tecflex, Tecsonic & Tectherm 400

A highly flexible ducting manufactured from aluminium and polyester film in a multi-ply format supported by an encapsulated high tensile steel wire helix.

Available in uninsulated and acoustically and thermally insulated versions.



Tecflex PU

Tecflex PU Ducting is manufactured from a springsteel wire helix, covered with a highly durable natural clear polyurethane membrane. Tecflex PU is an excellent abrasion resistant ducting with a working life many times longer than its PVC equivalents. Ideal for wood working, dust extraction, plastic granules, abrasive powders, etc.



Tecflex VF

Tecflex VF Ducting is manufactured from a PVC coated spring steel wire helix, covered with a high grade PVC material, heat welded to a form of continuous surface.

Tecflex VF ducting is specifically designed for efficient air, fume, dust and abrasive particle extraction.



Tecflex 500

Semi rigid flexible ducting manufactured from corrugated aluminium strip spirally wound to produce a double overlapped joint ensuring durability in use. Tecflex 500 has an operating temperature range of -30 to +250°C and a maximum operating pressure of 2000Pa. Tecflex 500 is supplied loose in 3m lengths compressed to 0.8m.

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