

ALUMINIUM DUCT

THE ALL METAL FLEXIBLE FOR ALL APPLICATIONS

KEY FEATURES

- ▶ Constant cross section for predictable air flow characteristics
- ▶ Reduced need for supports on longer duct runs
- ▶ Extra flexibility. Ideal for short final connections
- ▶ Supplied in compressed lengths for easy handling and storage.



THE HIGH FLEXIBILITY ALL METAL DUCT

For years the designer's need for a fire resistant flexible duct has been hampered by the lack of flexibility and fragile nature of metallic ducting. Now Domus Ventilation Aluminium Flexible Duct overcomes these problems.

Aluminium Flexible Duct is a corrugated flexible ducting, which can be formed to bend radii less than $\frac{1}{2}D$. It is supplied in its compressed state but when installed the tube extends to 4 metres for maximum flexibility and economy – making it the simple answer to many flexible duct problems.

INDIVIDUALLY BOXED FOR SITE PROTECTION AND STORAGE

Aluminium Flexible Duct is supplied in standard 4 metre lengths compressed to 1 metre and individually boxed. This lessens storage problems and the potential costly damage associated with lengths or coils of duct strewn over the site.

The duct erection team work with prepacked Aluminium Flexible Duct alongside them at the installation zone – with no need to unpack it until it's actually fitted. The ability to extend Aluminium Flexible Duct also allows the flexible to be erected with the main duct. When the final connections are to be made the flexible duct is simply extended by hand and fixed to the equipment spigot.

FLEXIBLE

The extra deep corrugations of Aluminium Flexible Duct bring a new flexibility to metal tube. It comes in all diameters from 75mm to 315mm and may be hand-formed to bends of less than a $\frac{1}{2}D$ Radius – a feature previously only thought possible with fabric flexibles.

Aluminium Flexible Duct can also be extended or compressed easily for installation between spigots located opposite to each other. It is ideal for final connections or where space is limited.

STRONG

Strength and pliability in metal flexibles are affected by the thickness, corrugation shape and ductility of the material used in construction. In the past a strong tube has lacked flexibility and flexible tube has lacked strength. With Aluminium Flexible Duct the problems are overcome by producing a deep corrugation tube, which is kept in the compressed state until it is installed; in this state it has great strength with little flexibility. At the time of installation, when strength is a lower priority, the tube is extended to achieve its ultimate in flexibility.

CONSTRUCTION

For maximum corrosion resistance Aluminium Flexible Duct is manufactured from an aluminium strip spirally wound to produce a double overlapped joint, which is crimp-locked by a unique patented process. This construction gives a tube with great resistance to unwinding which is pressure-tight up to 2500 Pa for high velocity applications. Whilst Aluminium Flexible Duct is manufactured in standard 4 metre sections cut lengths may be supplied to specific customer order. It is available from 75mm to 500mm I.D. in both Standard Eurovent and intermediate sizes to meet special requirements.

SELF SUPPORTING

Aluminium Flexible Duct retains its corrugation form in use and in doing so achieves maximum distance between supports without sagging, resulting in cost savings in labour and materials when compared to fabric flexible.

It also retains its cross section regardless of its state; it can be compressed, extended, or formed into bends or offsets with no reduction in area. This means that frictional resistance figures are constant and air flow figures can be accurately predicted at the design stage.

The tube is stable after forming with no tendency to spring back, thus forces on spigots are kept to the very minimum.

FIRE RESISTING

Aluminium Flexible Duct is tested to BS476 Part 6, 7 and 8, and meets the requirements for CP413 section A2.2.3 (Ducts for Building Services) and is suitable for use throughout the U.K. and the Continent. When tested to BS476 Part 7 a class 1 spread of flame was recorded. When tested under the conditions laid down in BS476 Part 8 Aluminium Flexible Duct maintained its integrity for 15 minutes. As it is of all metal construction smoke generation is negligible.

Product codes

Ø100mm, 0.3m	403203
Ø100mm, 1.5m	403215
Ø100mm, 3m	403230
Ø125mm, 0.3m	503203
Ø125mm, 1.5m	503215
Ø125mm, 3m	503230
Ø150mm, 0.3m	603203
Ø150mm, 1.5m	603215
Ø150mm, 3m	603230

Please note that aluminium duct clips are available for all Domus Ventilation aluminium flexible duct. For further information see our [Ventilation Guide](#) or ask your sales representative.

**YOUR
VENTILATION
SPECIALIST**

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