

Product Specifications

Fully flexible, pre-insulated ducting with a perforated inner core constructed from multiple layers of aluminum and polyester laminated to encapsulate a high carbon, spring steel wire helix. The inner core is covered with an integral barrier and wrapped with a thick blanket of high density insulation and covered with an outer vapor barrier constructed from multiple layers of aluminized polyester and polyester and reinforced with fiberglass scrim. SONOCONNECT LS25MP installs easily on circular or oval fittings.

SONOCONNECT LS25MP insulated flexible ducting is used in ventilation, air conditioning, and air handling systems where high mechanical strength, temperature, and fire resistance is required.

Construction

Inner Core - Perforated, 5 Total Layers	
Aluminum	- 3 layers x 7 micron
Polyester (PET)	- 2 layers x 12 micron
Total Thickness	- 45 microns (excl. adhesive)
Barrier -1 layer x 12 micron polyester	
Insulation - 25mm thick x 16 kg/m ³ density	
k = 0.039 [W/ (m K)], R = 0.726 [m ² · K/W]	
Outer Vapor Barrier - 2 Total Layers	
Aluminized Polyester	- 1 layer x 12 micron
Polyester (PET)	- 1 layer x 12 micron
Fiberglass scrim reinforcement	
Total Thickness	- 24 microns (excl. adhesive)

Specifications

Temperature Range	- from -30° C to +140° C
Operating Pressure	- from -188 to +2500 Pa
Operating Velocity	- 30 m/s maximum
Centerline Bend Radius	- 1 x Dia. minimum
Standard Diameter Range	- 82mm to 560mm
Standard Length	- 10 meter

Classifications

French - M1

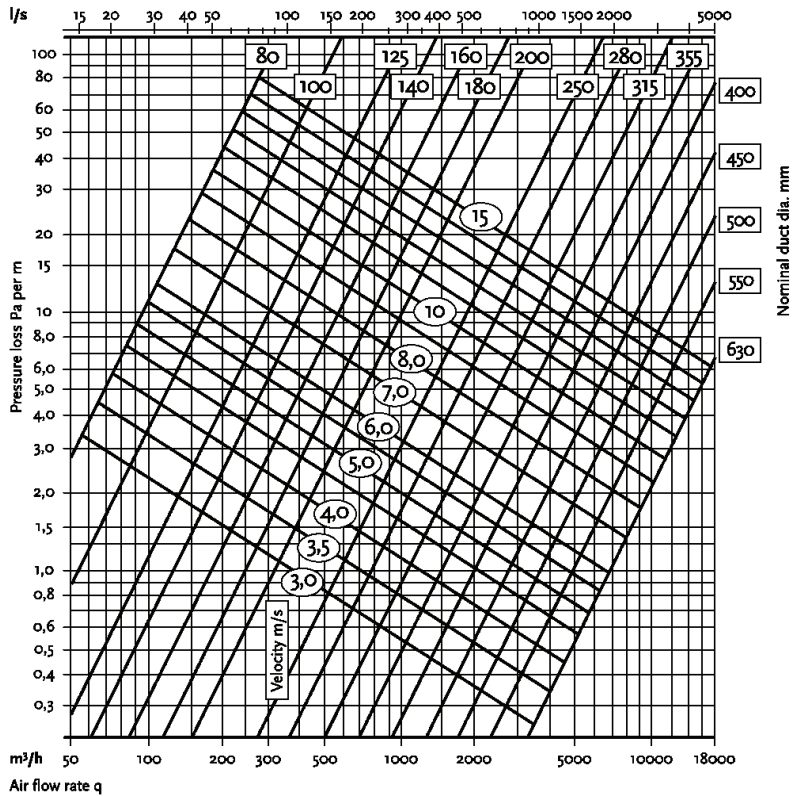
EU - EN 13180 Dia. Class B, Tightness Class C, Sag < 4°,
Crushing Strength 13-35 kg compressed, 2-5 kg
uncompressed

Features & Benefits

- Fully Flexible Ducting
 - Quick Installation
 - Reduced labor cost
- Air Tight Construction
 - Energy efficient
 - Low air leakage
- Smooth Interior
 - Low friction loss
 - Low operating cost
- Multi-Layer Construction
 - Tear & Puncture Resistant
 - Low maintenance
- Light Compact Packaging
 - Reduced warehouse and handling cost



Pressure Loss (Straight Duct)



Use Limitations

SONOCONNECT LS25MP is not suitable for transporting air with high concentration of acids and base.

SONOCONNECT LS25MP should not be used to discharge combustion gases from open fire places or oil-fired boilers.

Packaging

Each 10 meter length flexible duct is individually compressed in cartons of 1.0 meter and delivered on 1.0 x 1.2 x 2.4 meter pallets (2.2 meter height for Belgium and NL).

Pressure Loss (90° Bend)

