

Product Specifications

Fully flexible, pre-insulated ducting with an inner core constructed from multiple layers of aluminum and polyester laminated to encapsulate a high carbon, spring steel wire helix. The inner core is 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. ISOCONNECT L25MP installs easily on circular or oval fittings.

ISOCONNECT L25MP 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 – 5 Total Layers

Aluminum – 3 layers x 7 micron

Polyester (PET) – 2 layers x 12 micron

Total Thickness – 45 microns (excluding adhesive)

Insulation – 25mm thick x 16 kg/m³ density

$k = 0.039$ [W/ (m K)], $R = 0.726$ [m² · 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 (excluding 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, Report No. LNE N° C050918-CEMATE/5

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

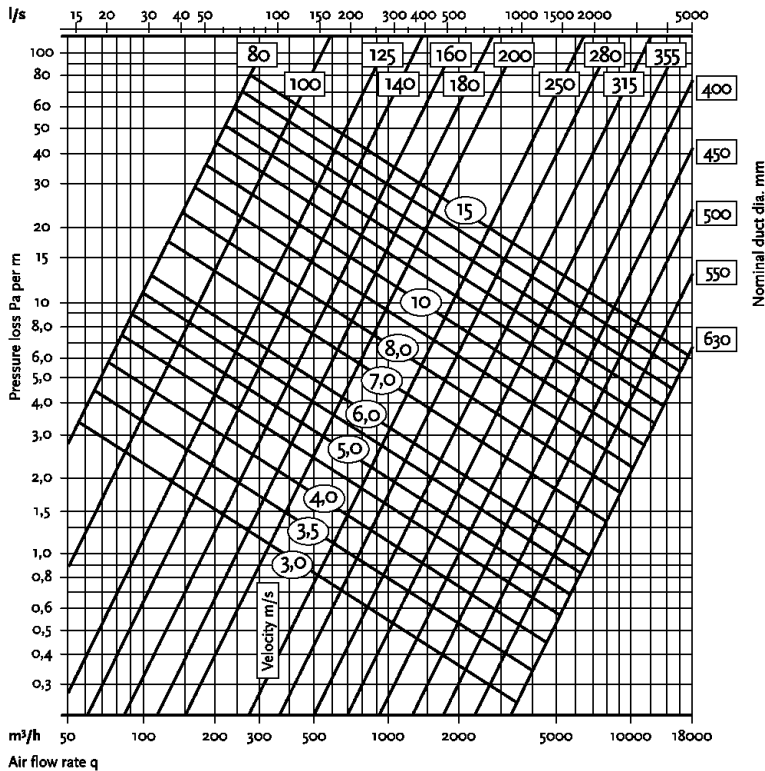
Low maintenance

Light Compact Packaging

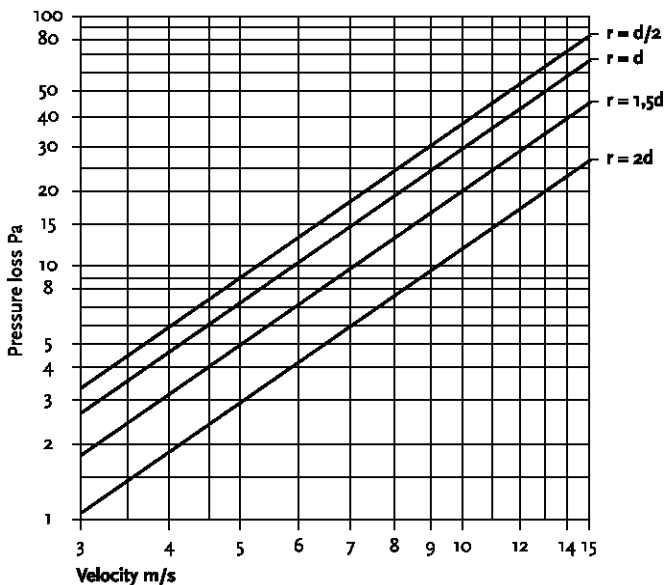
Reduced warehouse and handling
cost



Pressure Loss (Straight Duct)



Pressure Loss (90° Bend)



Use Limitations

ISOCONNECT L25MP is not suitable for transporting air with high concentration of acids and base.

ISOCONNECT L25MP 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 1.2 meter and delivered on 0.8, 1.0, or 1.2 x 1.2 x 2.4 meter pallets (2.2 meter height for Belgium and NL). Standard diameter range and pallet quantities are as follows:

Diameter	2.2 mtr Pallets	2.4 mtr Pallets
82 mm	66 Pieces	72 Pieces
102 mm	66 Pieces	72 Pieces
127 mm	60 Pieces	66 Pieces
133 mm	60 Pieces	66 Pieces
152 mm	45 Pieces	50 Pieces
160 mm	45 Pieces	50 Pieces
180 mm	32 Pieces	36 Pieces
203 mm	28 Pieces	32 Pieces
229 mm	18 Pieces	21 Pieces
254 mm	18 Pieces	21 Pieces
305 mm	15 Pieces	18 Pieces
315 mm	15 Pieces	18 Pieces
356 mm	10 Pieces	10 Pieces
406 mm	8 Pieces	8 Pieces
457 mm	8 Pieces	8 Pieces
508 mm	3 Pieces	3 Pieces
560 mm	3 Pieces	3 Pieces

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