

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 aluminum and polyester. SONOCONNECT BS25J installs easily on circular or oval fittings.

SONOCONNECT BS25J 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, 3 Total Layers

Aluminum - 1 layer x 7 micron

Polyester (PET) - 1 layer x 12 micron

Aluminized Polyester (PET) - 1 layer x 12 micron

Total Thickness - 31 microns (excluding adhesive)

Barrier – 1 layer x 12 micron polyester

Insulation – 25mm thick x 16 kg/m³ density

$k = 0.039 \text{ [W/ (m K)]}$, $R = 0.726 \text{ [m}^2 \cdot \text{K/W]}$

Outer Vapor Barrier – 3 Total Layers

Aluminum - 1 layers x 7 micron

Polyester (PET) - 2 layers x 12 micron

Total Thickness - 31 microns (excluding adhesive)

Specifications

-30° C Minimum Temperature Exposure Limit

+140° C Maximum Temperature Exposure Limit

Operating Pressure - from -188 to +1500 Pa

Operating Velocity - 20 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 F 080736-Cemate/3

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

UK – BS 476 Parts 5, 6, 7 and 20

Chamber of Commerce Enschede no. 06075452
ATCO- Europe B.V.

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

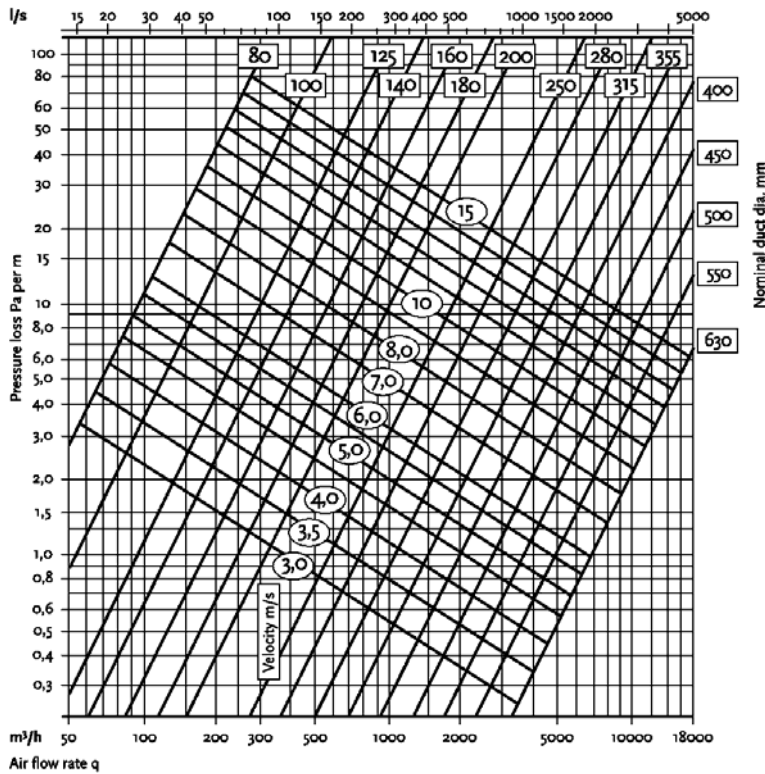
Low maintenance

Light Compact Packaging

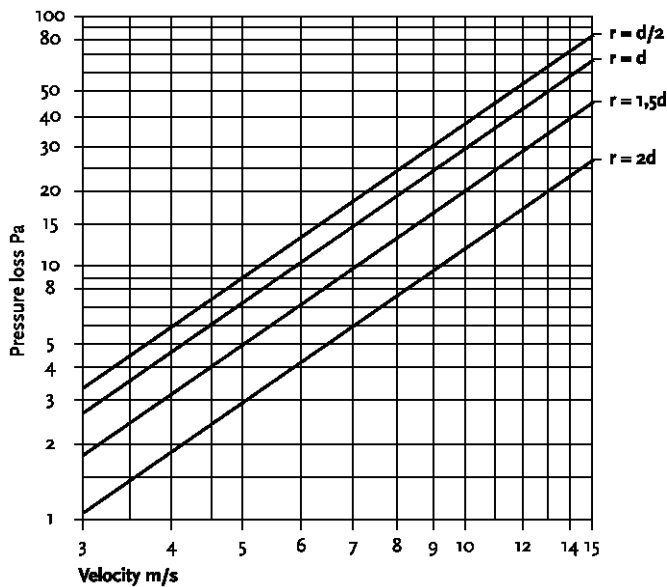
Reduced warehouse and handling cost



Pressure Loss (Straight Duct)



Pressure Loss (90° Bend)



Use Limitations

SONOCONNECT BS25J is not suitable for transporting air with high concentration of acids and base.

SONOCONNECT BS25J 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:

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