



FLEXIBLE DUCTS

**INSULATED & UNINSULATED
MODELS**

R VALUE : 4.2

VELOCITY : 5000 fpm

BS 476, Part 7 - Class 1

BS 476, Part 6 - Class 0



LEED Eligible Product

Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

Credit 4.1 - 4.2 Recycled Content

Credit 5.1 - 5.2 Regional Materials



Specification Data



Specifications	Insulated	Insulated	Insulated - Reinforced Barrier	Insulated - Reinforced Barrier
MODEL No	ADI1	ADI2	ADIR-1	ADIR-2
Inner Core	Double laminated polyester film, with black pigmented adhesive, permanently bonded to corrosion resistant steel wire helix.	Triple laminated aluminum foil, polyester film, permanently bonded to corrosion resistant steel wire helix.	Double laminated polyester film, with black pigmented adhesive, permanently bonded to corrosion resistant steel wire helix.	Triple laminated aluminum foil, polyester film, permanently bonded to corrosion resistant steel wire helix.
Outer Core	Strong vapour barrier made from metallized polyester film laminate.	Strong vapour barrier made from metallized polyester film laminate.	Triple laminated aluminum foil, polyester and metallized polyester film with fibreglass scrim reinforced vapour barrier.	Triple laminated aluminum foil, polyester and metallized polyester film with fibreglass scrim reinforced vapour barrier.
Insulation thickness	25mm / 38mm / 50mm	25mm / 38mm / 50mm	25mm / 38mm / 50mm	25mm / 38mm / 50mm
Density	16kgm ³ / 24kgm ³	16kgm ³ / 24kgm ³	16kgm ³ / 24kgm ³	16kgm ³ / 24kgm ³
R value	4.2	4.2	4.2	4.2
Maximum Positive Pressure	10" w.g.- 4" to 16" 6" w.g. - 18 to 20"	10" w.g.- 4" to 16" 6" w.g. - 18" to 20"	10" w.g.- 4" to 16" 6" w.g. - 18" to 20"	10" w.g.- 4" to 16" 6" w.g. - 18" to 20"
Maximum Negative Pressure	3/4" w.g. All diameters	3/4" w.g. All diameters	3/4" w.g. All diameters	3/4" w.g. All diameters
Maximum Velocity	5000 fpm	5000 fpm	5000 fpm	5000 fpm
Operating Temperature	-30 deg C to +150 deg C -20 deg F to +300 deg F	-30 deg C to +150 deg C -20 deg F to +300 deg F	-30 deg C to +150 deg C -20 deg F to +300 deg F	-30 deg C to +150 deg C -20 deg F to +300 deg F
Standard Length	25 feet	25 feet	25 feet	25 feet
Diameter	4" to 20"	4" to 20"	4" to 20"	4" to 20"
Fire Rating	-	BS 476, part 7 Class1 BS 476, part 6 Class0	-	BS 476, part 7 Class1 BS 476, part 6 Class0

Customised lengths available on request.

Specification Data



Specifications	Uninsulated	Uninsulated	Uninsulated
MODEL No	ADUI3	ADUI4	ADUI5
Inner Core	Triple laminated aluminum foil, polyester film, permanently bonded to corrosion resistant steel wire helix.	Double laminated metallized film, permanently bonded to corrosion resistant steel wire helix.	Double laminated polyester film, with black pigmented adhesive, permanently bonded to corrosion resistant steel wire helix.
Maximum Positive Pressure	10" w.g.- 4" to 16"	10" w.g.- 4" to 16"	10" w.g.- 4" to 16"
	6" w.g. - 18" to 20"	6" w.g. - 18" to 20"	6" w.g. - 18" to 20"
Maximum Negative Pressure	1" w.g. All diameters	1" w.g. All diameters	1" w.g. All diameters
Maximum Velocity	5000 fpm	5000 fpm	5000 fpm
Operating Temperature	-30 deg C to +150 deg C -20 deg F to +300 deg F	-30 deg C to +150 deg C -20 deg F to +300 deg F	-30 deg C to +150 deg C -20 deg F to +300 deg F
Standard Length	25 feet	25 feet	25 feet
Diameter	4" to 20"	4" to 20"	4" to 20"
Fire Rating	BS 476, part 7 Class1 BS 476, part 6 Class0	-	-

Customised lengths available on request.

All Aeroduct Flexible Ducts are designed to meet NFPA 90A and NFPA 90B Standards.

Fibreglass Specifications:

Latest technology based on rapidly renewable bio-based materials.

Complies with the following standards:

American - ASTM, UL723, NFPA255, ASHRAE 90.1 requirements

British - BS476 (part 4,6 and 7)

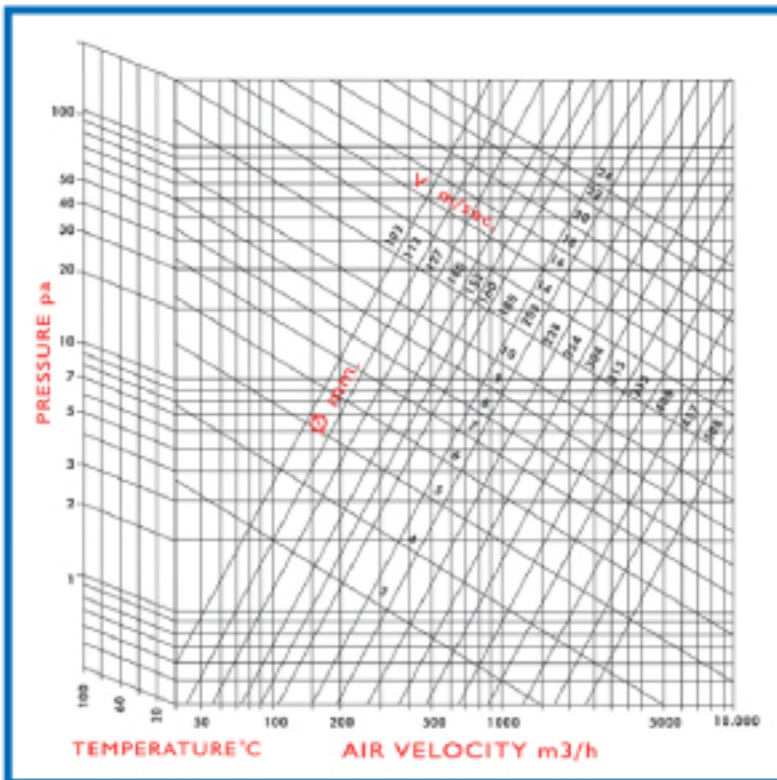
ISO - ISO1716, 1182



Main Features

- Economical solution to connecting equipment in air conditioning and ventilation systems, across a broad spectrum of applications such as residential, commercial and industrial projects
- Flexible construction renders ease of installation in areas where rigid ducts cannot be fixed
- Ideal for use in low to medium pressure ductwork systems
- Options for insulated and uninsulated models
- Tear and puncture resistant construction

Pressure Loss Diagram

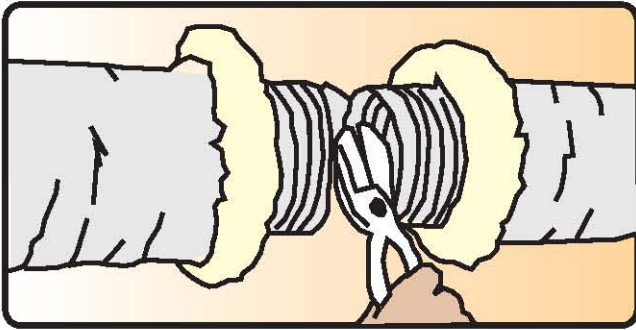


Accessories

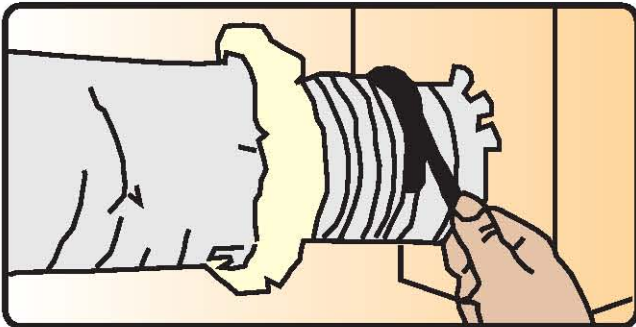
- Stranglehold Banding
- Standard Hose Clip
- Captive Screws



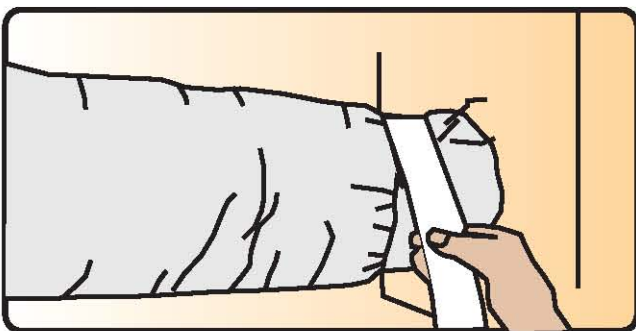
CONNECTIONS



Cut completely around and through the duct with knife or scissors. Cut the wire with wire cutters. Fold back the jacket and insulation

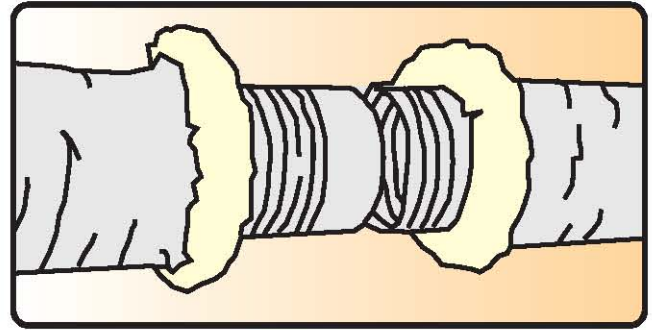


Slide at least 1" (25mm) of core over fitting and past the bead. Seal core to cover with 2 wraps of duct tape. Secure the connection with clamp placed over the core and tape and past the bead.

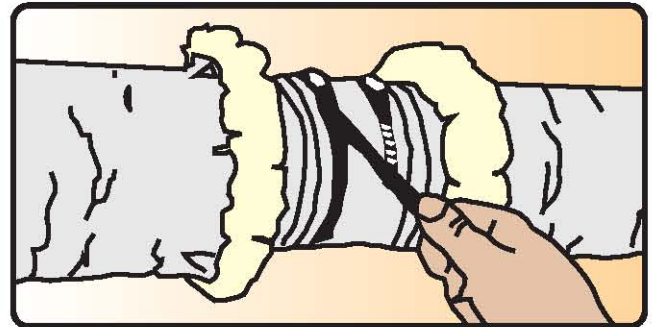


Pull jacket and insulation back over the core. Use at least 2 wraps of duct tape to tape the jacket. You may use a clamp along with or instead of the duct tape.

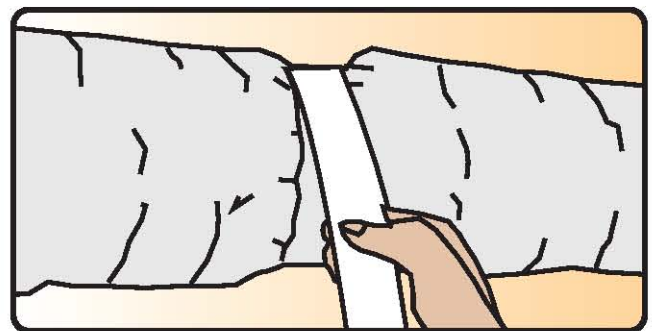
SPLICES



Fold back jacket and insulation from core. Butt 2 cores together on a standard 4" (100mm) length metal sleeve.



Use at least 2 wraps of duct tape to tape the jacket. Secure the connection with clamp placed over the core and tape and past the bead.



Pull jacket and insulation back over cores. Use at least 2 wraps of duct tape to tape the jacket.

Precautions during installation:

Aeroduct insulated ducts use fibreglass insulation which is classified as a possible cancer hazard by inhalation. In addition fibreglass insulation may cause temporary irritation to the eyes and skin. Kindly ensure that protective clothing, face mask and gloves are used while handling or installing the flexible ducts. Wash hands properly with soap and water after use.