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Hira Technologies PVT LTD Plot I-02 (Part - II) Khed City Zone – DTA Kanhersar, Khed Pune - 410 505



The Most Comprehensive Range of Ducting Accessories

www.hiraqatar.com

AERODUCT Ducting Accessories



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FLEXIBLE DUCT CONNECTOR

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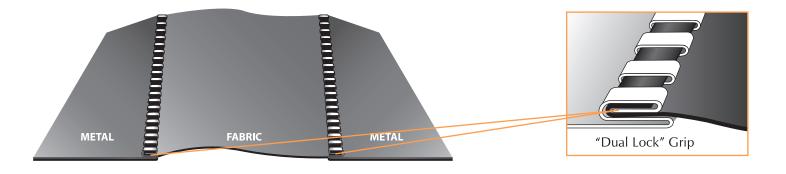


FLEXIBLE DUCT CONNECTOR

All mechanical equipments like Air Handling Units, Fan Coil Units and Ventilation Fans generate noise and vibrations when used. To eliminate the noise and vibrations from transmitting through the air ducts, it is necessary to install an airtight flexible joint between the outlet of the equipment, and the inlet of the ducts.

The joint formed by attaching a layer of fabric to two strips of metal on either side is called a "Flexible Duct Connector".

The most critical part of this Flexible Duct Connector is the fabric which has to be selected to suit the typical requirements of each installation.



Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Tech	nical Specifications	Features
Vinyl						
V-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Polyester Yarn	Vinyl is the most commonly used
V-G8-230-100	70 x 100 x 70	100	28	Coating	: Vinyl 28 Gauge	fabric for all air duct installations due to its high tear strength, and
V-G8-145-150	45 x 75 x 45	150	28	Weight	: 576 gms /sq.mtr	its high abrasion resistance.
V-G8-230-150	70 x 100 x 70	150	28		17oz /sq. yard 24gauge	Recommended for low to medium pressure ductwork systems.
V-G4-225-100	75 x 75 x 75	100	24		745 gms /sq.mtr	Airtight and waterproof
V-G4-250-100	75 x 100 x 75	100	24	Tear Strength	22oz /sq. yard : 45 x 45 kgs	construction.
V-G4-300-100	75 x 150 x 75	100	24	Tensile Strength	100 x 100 lbs : 108 x 100 kgs	
V-G4-350-100	100 x 150 x 100	100	24		240 x 220 lbs	
CUNSSIFICATION OF CONTRACT OF CONTRACT.				Low Temp High Temp Burst Strength	: -40 deg C/-40 deg F : +93 deg C/200 deg F : 400psi	
Neoprene BS				1		
BSN-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	Neoprene is recommended for
BSN-G8-230-100	70 x 100 x 70	100	28	Coating	: Neoprene	use in application where high mechanical strength is required.
BSN-G8-145-150	45 x 75 x 45	150	28	Weight	: 1016 gms /sq.mtr : 30 oz/sq. yard	Neoprene is extremely resistant to
BSN-G8-230-150	70 x 100 x 70	150	28	Tear Strength	: 5.5 x 5.5 kgs	most alkalies, gasoline and toxic fumes.
BSN-G4-225-100	75 x 75 x 75	100	24	Tensile Strength	12 x 12 lbs : 226 x 204 kgs	Airtight and waterproof
BSN-G4-250-100	75 x 100 x 75	100	24	rensile strength	500 x 450 lbs	construction.
BSN-G4-300-100	75 x 150 x 75	100	24	Low Temp High Temp	: -40 deg C (-40 deg F) : 121 deg C (250 deg F)	UV resistant.
BSN-G4-350-100	100 x 150 x 100	100	24	Burst Strength	: 800psi	

FLEXIBLE DUCT CONNECTOR

Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Silicon		-				
S-G8-145-100 S-G8-230-100 S-G4-225-100 S-G4-250-100 S-G4-300-100 S-G4-350-100 Rated for use at 400 deg C for 2 hours	45 x 75 x 45 70 x 100 x 70 75 x 75 x 75 75 x 100 x 75 75 x 150 x 75 100 x 150 x 100	100 100 100 100 100	28 28 24 24 24 24 24	Basic Fabric Coating Weight Tear Strength Tensile Strength Low Temp High Temp Burst Strength	 : Woven Fibreglass : Silicon Rubber : 627 gms /sq.mtr : 18.5 oz/sq. yard : 895 gms /sq.mtr : 26 oz/sq. yard : 27 x 22 kgs 60 x 50 lbs : 81 x 90 kgs 180 x 200 lbs : -40 deg C (-40 deg F) : 300 deg C (573 deg F) : 450psi 	Silicon fabric has a special Silicon Rubber coating that has excellent resistance to high and low temperatures. Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt. Recommended for applications where high temperature is of main concern in both indoor and outdoor installations. Airtight and waterproof construction. ASTM E84
Hypalon						L
H-G8-145-100 H-G8-230-100 H-G4-225-100 H-G4-250-100 H-G4-300-100 H-G4-350-100	45 x 75 x 45 70 x 100 x 70 75 x 75 x 75 75 x 100 x 75 75 x 150 x 75 100 x 150 x 100	100 100 100 100 100	28 28 24 24 24 24 24	Basic Fabric Coating Weight Tear Strength Tensile Strength Low Temp High Temp Burst Strength	 : Woven Fibreglass : Hypalon : 816 gms /sq.mtr : 24 oz/sq. yard : 22 x 18 kgs 48 x 39 lbs : 102 x 136 kgs 225 x 200 lbs : -40 deg C (-40 deg F) : 121 deg C (250 deg F) : 800psi 	Hypalon coated fabric has the best resistance to ozone layer, and is the first choice for outdoor applications. It has excellent resistance to weathering, acids and is recommended for roof top applications. Airtight and waterproof construction.
Polyurethane						
P-G8-145-100 P-G8-230-100 P-G4-225-100 P-G4-250-100 P-G4-300-100 P-G4-350-100	45 x 75 x 45 70 x 100 x 70 75 x 75 x 75 75 x 100 x 75 75 x 150 x 75 100 x 150 x 100	100 100 100 100 100	28 28 24 24 24 24 24 24	Basic Fabric Coating Weight Tear Strength Tensile Strength Low Temp High Temp Burst Strength	 : Woven Fibreglass : Polyurethane : 460 gms /sq.mtr : 13 oz/sq. yard : 16 x 14 kgs 35 x 30 lbs : 75 x 82 kgs 165 x 180 lbs : -40 deg C (-40 deg F) : 200 deg C (392 deg F) : 400psi 	Polyurethane coated fabrics are fragile in construction but have a longer resistance period to high temperatures. Airtight and waterproof construction

FLEXIBLE DUCT CONNECTOR

Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Canvas						
C-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Canvas	Traditional Canvas cloth used for
C-G8-230-100	70 x 100 x 75	100	28	Weight	: 535 gms /sq.mtr	air conditioning and ventilating applications, indoors and outdoors.
C-G8-280-100	70 x 150 x 70	100	28	Tear Strength	: 16 oz/sq. yard : 4 x 4 kgs	Airtight and waterproof
C-G8-300-100	75 x 150 x 75	100	28		9 x 9 lbs	construction
C-G4-300-100	75 x 150 x 75	100	24	Tensile Strength	: 127 x 96 kgs	UV resistant.
			: -40 deg C (-40 deg F) : 93 deg C (200 deg F)	Fire rated as per EN 532 and EN 533.		

All AERODUCT Connectors utilise galvanised steel meeting ASTM A-525-G90 standards.

All AERODUCT Connectors are designed to meet NFPA 90A and 90B standards.

All AERODUCT Connectors have ODP = 0 & GWP < 5.

Sizes other than the above can be manufactured on request.

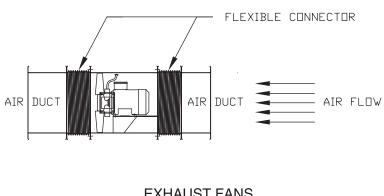
Duct Fabric

The complete range of AERODUCT fabrics are also available without metal for customers who have the need for only the fabric. Standard roll widths are given in the table and are available in lengths of 100 feet. Other widths and lengths are available on request.



Fabric	Model No.	Width of Fabric	Length
Vinyl	V-75-100	3″ (75 mm)	100 feet
Vinyl	V-100-100	4″ (100 mm)	100 feet
Vinyl	V-150-100	6″ (150 mm)	100 feet
Neoprene BS	BSN-75-100	3″ (75 mm)	100 feet
Neoprene BS	BSN-100-100	4″ (100 mm)	100 feet
Neoprene BS	BSN-150-100	6″ (150 mm)	100 feet
Silicon	S-75-100	3″ (75 mm)	100 feet
Silicon	S-100-100	4″ (100 mm)	100 feet
Silicon	S-150-100	6″ (150 mm)	100 feet

Typical Application



AERODUCT ADHESIVE GEL

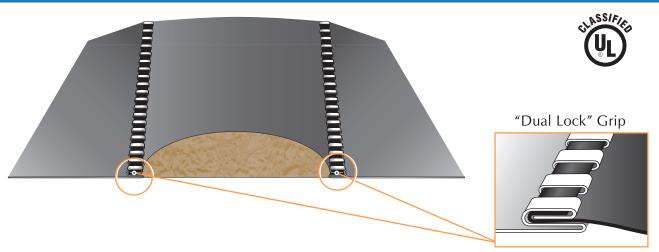


EXHAUST FANS

FAN COIL / AIR HANDLING UNITS

INSULATED FLEXIBLE DUCT CONNECTOR





For acoustically treated ductwork and supply ducts, it is important that the fabric of the connector is also insulated in addition to the insulation fixed on the ducting. This enables the Flexible Duct Connector to achieve maximum effectiveness.

Externally insulating the fabric, may damage the coating on it, and also make it stiff thereby affecting the noise and vibration absorption properties of the fabric. AERODUCT has a complete range of "Insulated Duct Connectors" which use a 25mm thick fibreglass insulation of R Value 4.2, sandwiched between two layers of fabric. The various options of fabrics offered in insulated models, ensure that the Flexible Duct Connectors can be used for all possible types of ductwork installations. Thicker and higher density fibreglass can be provided on request.

All models of Insulated Duct Connectors from AERODUCT are available in 24 Gauge and 28 Gauge Steel.

*Fibreglass specifications on page 11.

INSULATED FLEXIBLE DUCT CONNECTOR

Part No.	Size Metal x Fabric Metal (mm)	Length (Feet)	Metal Gauge	Fabric T	echnical Specifications	Features
VINYL						
ISV-G8-230-100 ISV-G8-280-100 ISV-G4-250-100	70 X 100 X 70 70 X 150 X 70 75 x 100 x 75	100 100 100	28 28 24	Fabric Insulation R Value	Vinyl Coated Polyester Yarn Fibreglass 12 kg/m ³ , 25mm thickness 4.2	Vinyl is the most commonly used fabric for all air duct installation due to its high tear strength and high abrasion resistance. Recommended for low to
ISV-G4-250-100 ISV-G4-300-100	75 x 100 x 75 75 x 150 x 75	100	24 24	Weight Tear Strength Tensile Strength Low Temp High Temp Burst Strength	576 gms /sq.mtr, 17oz /sq. yard 45 x 45 kgs (100 x 100 lbs) 108 x 100 kgs (240 x 220 lbs) - 40 deg C / - 40 deg F 93 deg C / 200 deg F 400psi	medium pressure ductwork systems.
NEOPRENE BS						
ISBSN-G8-230-100 ISBSN-G8-280-100		100 100	28 28	Fabric Insulation	Neoprene Coated Woven Fibreglass Fibreglass 12 kg/m ³ , 25mm thickness	Neoprene is recommended for use in application where high mechanical strength is required. Neoprene is extremely resistant to most alkalies,
ISBSN-G4-250-100 ISBSN-G4-300-100	75 X 100 X 75 75 X 150 X 75	100 100	24 24	R Value Weight Tear Strength Tensile Strength Low Temp High Temp Burst Strength	4.2 1016 gms / sq. mtr (30 oz/sq.yard) 5.5 x 5.5 kgs (12 x 12 lbs) 226 x 204 kgs (500 x 450 lbs) -40 deg C (-40 deg F) 121 deg C (250 deg F) 800psi	gasoline and toxic fumes. UV resistant
SILICON				1		
ISS-G8-230-100 ISS-G8-280-100 ISS-G4-250-100 ISS-G4-300-100	70 X 100 X 70 70 X 150 X 70 75 X 100 X 75 75 X 150 X 75	100 100 100 100	28 28 24 24	Fabric Insulation R Value Weight	Silicon Rubber coated Woven Fibreglass Fibreglass 12 kg/m ³ , 25mm thickness 4.2 627 gms /sq.mt	Silicon fabric has a special Silicon coating that has excellent resistance to high and low temperatures. Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt. Recommended for applications where high temperature is of main concern in both indoor and
Rated for use at 400 deg C for 2 hours				Tear Strength Tensile Strength Low Temp High Temp Burst Strength	(18.5 oz/sq. yard.) 27 x 22 kgs (60 x 50 lbs) 81 x 90 kgs (180 x 200 lbs) - 40 deg C (- 40 deg F) 300 deg C (573 deg F) 450psi	Achieves Class 1 when tested as per ASTM - E84 - Surface Burning Characteristics
POLYURETHANE						
ISP-G8-230-100 ISP-G8-280-100 ISP-G4-250-100 ISP-G4-300-100	70 X 100 X 70 70 X 150 X 70 75 X 100 X 75 75 X 100 X 75	100 100 100 100	28 28 24 24	Low Temp High Temp	Polyurethane Coated Woven Fibreglass Fibreglass 12 kg/m ³ , 25mm thickness 4.2	Polyurethane Coated Fabrics are fragile in construction but have a longer resistance period to high temperatures. Airtight and waterproof construction
					460 gms /sq.mtr (13 oz/sq. yard) 16 x 14 kgs (35 x 30 lbs) 75 x 82 kgs (165 x 180 lbs) -40 deg C (-40 deg F) 200 deg C (392 deg F) 400psi	

SPECIFICATION SHEET

Fabric	Weight	Thickness	Tensile Strength	Tear Strength	Low Temp	High Temp	Abrasion Resist- ance	Leakage Resista- nce	
	TEST METHOD								
	ASTM D751-89	ASTM D1777-96	ASTM D751-89	ASTM D751-89	ASTM D573	ASTM D573	Federal Test Std.191 # 5306	Test Std.191	
Vinyl	28 gauge 576 gms /sq.mtr 17oz /sq. yard 24 gauge 745 gms /sq.mtr 22oz /sq. yard	0.41 +/- 0.03mm 0.46 +/- 0.03mm	108 x 100 kgs 240 x 220 lbs	45 x 45 kgs 100 x 100 lbs	- 40°C - 40°F	93 ^o C 200 ^o F	15,500 cycles	450 psi	
Neoprene BS	1016 gms/ sq.mtr 30 oz/ sq.yard	0.43 +/- 0.03mm	226 x 204 kgs 500 x 450 lbs	5.5 x 5.5 kgs 12 x 12 lbs	- 40 ^o C - 40 ^o F	121 ^o C 250 ^o F	550 cycles	450 psi	
Silicon Rated for use at 400 deg C for 2 hrs	627 gms/ sq.mtr 18.5 oz/ sq.yard 895 gms/ sq.mtr 26 oz/ sq.yard	0.46 +/- 0.03mm	81 x 90 kgs 180 x 200 lbs	27 x 22 kgs 60 x 50 lbs	- 40°C - 40°F	300 ^o C 573 ^o F	135 cycles	450 psi	
Hypalon	816 gms/ sq.mtr 24 oz/ sq.yard	0.58 +/- 0.03mm	102 x 136 kgs 225 x 200 lbs	22 x 18 kgs 48 x 39 lbs	- 40 ^o C - 40 ^o F	121 ^o C 250 ^o F	500 cycles	250 psi	
Polyurethane	460 gms/ sq.mtr 13 oz/ sq.yard	0.40 +/- 0.03mm	75 x 82 kgs 165 x 180 lbs	16 x 14 kgs 35 x 30 lbs	- 40°C - 40°F	200 ^o C 392 ^o F	110 cycles	400 psi	
Canvas	535 gms/ sq.mtr 16 oz/ sq.yard	0.41 +/- 0.03mm	127 x 96 kgs 280 x 210 lbs	4 x 4 kgs 9 x 9 lbs	- 40 ^o C - 40 ^o F	93 ^o C 200 ^o F	70 cycles	400 psi	

INTERNATIONAL TEST CERTIFICATES



Flexible Duct Connectors (Vinyl, Neoprene, Silicon) In accordance with ANSI / NFPA 701

RECOMMENDED INSTALLATION PROCEDURE

Ensure that the notched side of the connector faces outward and position the joint in the middle of a side rather than at a corner.

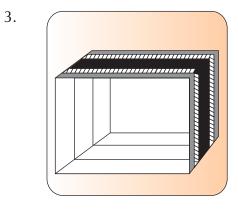
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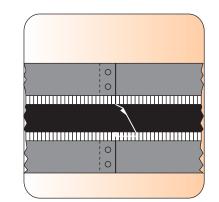
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5.

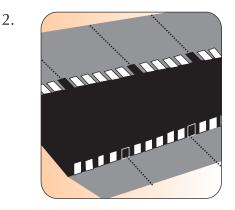
Remove the roll from the box, and cut the connector to the required length.



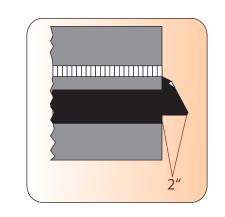
Bend the connector to form the required shape.



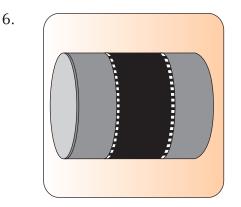
Join the two ends of the sheet metal by using rivets or screws. Apply a liberal amount of adhesive on the fabric portion under the tongue, and hold the joint for few seconds to ensure the seal.



Holding the seam portion upwards to an angle of 90 degrees , make notches at the points where bending is required.



From the end of the connector, cut away the metal portion exposing only the fabric, with length of around 2 inches.



Round Flexible connections can also be fabricated using the same procedure.

One side of the connector to be fixed with rivets on the mouth of the equipment and the other side to be fixed with rivets onto duct.

FLEXIBLE DUCTS

INSULATED & UNINSULATED MODELS R VALUE : 4.2 VELOCITY : 5000 fpm



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



FLEXIBLE DUCTS

Specification Data



Specifications	Specifications 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	10" w.g 4" to 16"	10" w.g 4" to 16"	10" w.g 4" to 16"	10" w.g 4" to 16"	
Positive Pressure	6″ w.g 18 to 20″	6" w.g 18" to 20"	6″ w.g 18" to 20″	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"	

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	10″ w.g 4″ to 16″	10" w.g 4" to 16"	10" w.g 4" to 16"	
Positive Pressure	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"	

Customised lengths available on request.

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

Fibreglass Specifications:

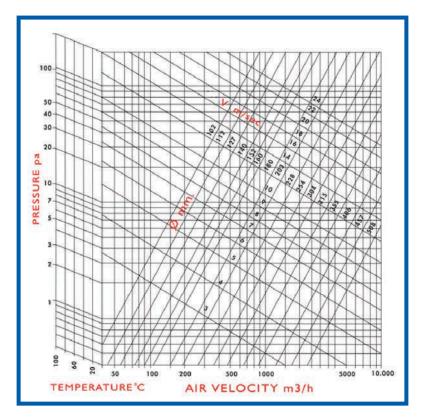
Latest technology based on rapidly renewable bio-based materials. Complies with the following standards: American - ASTM, UL723, NFPA255, ASHRAE 90.1 requirements British - BS476 (part 4,6 and 7) ISO - ISO1716, 1182



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

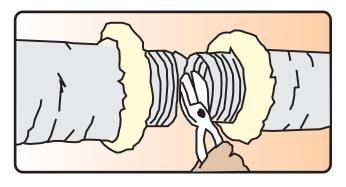


Accessories

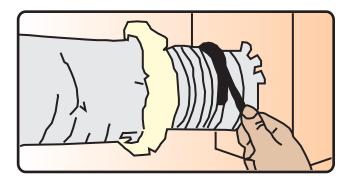
- Stranglehold Banding
- Standard Hose Clip
- Captive Screws



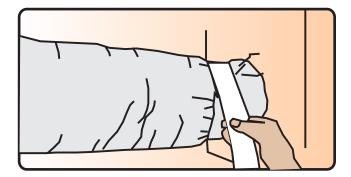
CONNECTIONS



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



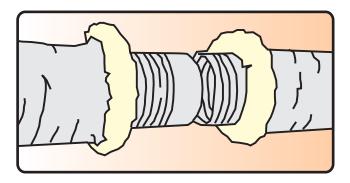
Slide at least 1" (25mm) of core over fitting and past the bead. Seal core to cover with 2 wraps of duct tape. Secure the connection with clamp placed over the core and tape and past the bead.



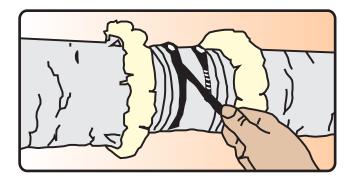
Pull jacket and insulation back over the core. Use atleast 2 wraps of duct tape to tape the jacket. You may use a clamp along with or instead of the duct tape.

Precautions during installation:

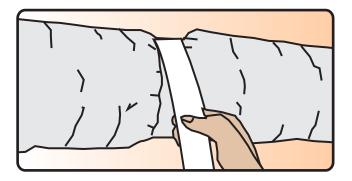
SPLICES



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



Use atleast 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 atleast 2 wraps of duct tape to tape the jacket.

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.

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20180627-R39560 R39560-20180625 2018-JUNE-27

Issued to: HIRA TECHNOLOGIES PVT. LTD PLOT #1-02, PART 2 KHED INDUSTRIAL PARK, DTA ZONE KANHERSAR PUNE, MAHARASHTRA 410505 INDIA

This is to certify that representative samples of

AIR DUCT VIBRATION ISOLATION CONNECTORS Models AERODUCT VINYL, SILICON COATED FIBERGLASS, NEOPRENE COATED FIBERGLASS

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety:NFPA 701- Standard Methods of Fire Tests for Flame
Propagation of Textiles and Films – Methods 1 and 2Additional Information:See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.





INSULATION FASTENERS

Designed to meet SMACNA Standards utilizing steel as per ASTM-A 591

Insulation Fasteners (IF) / PERFORATED BASE HANGERS (PIF)

Base : 28 Gauge Metal Size : 50mm x 50mm Pin : 12 Gauge Zinc Plated Packaging : 500 pieces per box with SW Washers

Self Adhesive Type - Steel Model No.	Self Adhesive Type - Aluminium Model No.	Perforated Base Type Model No.	Pin Length (inches/mm)	Use for Insulation size
IF 34	IFA 34	PIF 34	0.75″ / 19mm	1⁄2″
IF 114	IFA114	PIF 114	1.25″ / 32mm	1″
IF 134	IFA 134	PIF 134	1.75″ / 45mm	11⁄2″
IF 200	IFA 200	PIF 200	2.0″ / 51mm	11⁄2″
IF 250	IFA 250	PIF 250	2.5″ / 65mm	2″
IF 300	-	PIF 300	3.0″ / 75mm	3″
IF 80M	-	PIF 80M	80mm	3″
1F 400	-	PIF 400	4.0″ / 100mm	4″
IF 450	-	PIF 450	4.5″ / 110mm	4″
IF 120M	-	PIF 120M	120mm	4"
IF 130M	-	PIF 130M	130mm	5″
IF 140M	-	PIF 140M	140mm	5"
IF 150M	-	PIF 150M	150mm	6″
IF 160M	-	PIF 160M	160mm	6″



Self Adhesive Type - Steel Nail Reinforced and plain base options



Self adhesive type-Aluminium nail Easy to bend and cut



Perforated Base Type Available in both Steel and Aluminium nail.

Note: 1 inch is equivalent to 25mm.

Insulation Fasteners Compact (IFC)

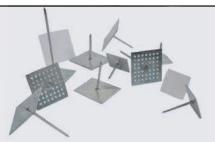
Base : 28 Gauge Metal Size : 35mm x 35mm Pin : 12 Gauge Zinc Plated Packaging : 1000 pieces per box with two boxes of SW Washers

Model No.	Pin Length (inches)	Use for Insulation size
IFC 114	1.25	1″
IFC 134	1.75	1 1⁄2″
IFC 200	2.0	1 1⁄2″
IFC 250	2.5	2″

SS Insulation Fasteners for Offshore, Oil & Gas Fields

Standards SS304 and 316 Nail Size: 0.75", -2.5", Base 2"x2"





INSULATION FASTENERS

SW Washers

Model No.	Description	Pieces per box
SW	Steel Washers 28 Gauge Galvanized	500

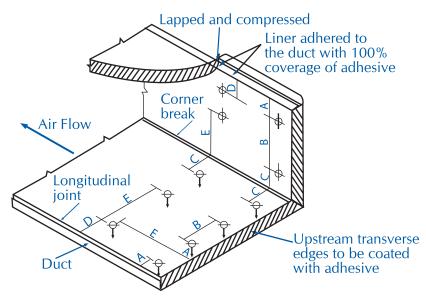


The steel base is made from 28 Gauge metal, a steel pin and double sided self adhesive tape having high shear strength. The use of this pin prevents corrosion on the sheet metal which is caused by the welding fasteners.

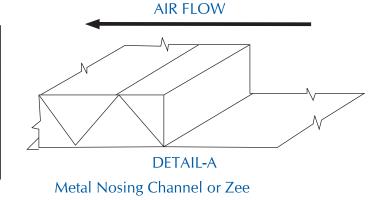
Adhesive Tape Technical Details

Base Material : Polyethylene foam with aggressive pressure sensitive rubber resin adhesive Service Temperature : - 40 deg C to + 70 Deg C. Highly resistant to abrasion, corrosion and moisture. Confirms to European Directive 2000/53 (Lead, Chromium VI, Mercury, Cadmium free) 10 Minute 180 degree Peel Adhesion : 30 N/25mm 500 Hour Static Shear (Stainless Steel) : 0.8 kg/cm²

Duct Liner Installation



Velocity	Dimensions							
Velocity	А	В	С	D	E			
0-2500 FPM	3″	12″	4″	6"	18″			
(0-12.7 MPS)	(76.2)	(305)	(102)	(152)	(457)			
2501-6000 FPM	3″	6″	4″	6″	16″			
(12.7-30.5 MPS)	(76.2)	(152)	(102)	(152)	(406)			



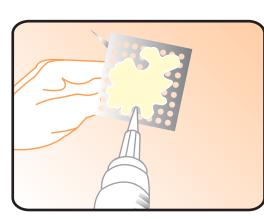
Interior width of 8"(200mm) and less does not require pins

RECOMMENDED INSTALLATION PROCEDURE

1.

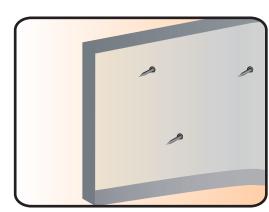
Ensure that the surface is clean and dry, free from oil, grease or any dust particles





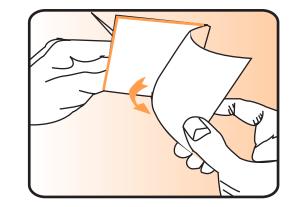
Apply glue to the base of the perforated hanger and fix to the surface





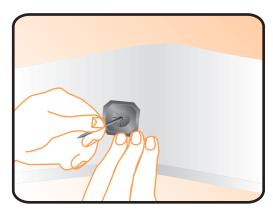
Fix the insulation over the pins

2.



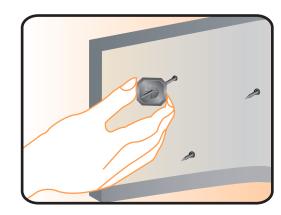
Remove protection paper from the base of the insulation fastener.

4.



Firmly press the base of the pin at the required position on to the steel surface.

6.



Lock the insulation firmly to the steel surface using the steel washers provided.

STRANGLEHOLD BANDING



Mild Steel Zinc Protected

Aeroduct Stranglehold Banding are zinc protected mild steel. This is most popular clip in our range. Ideally suited for most day requirements for joining hose in areas such as the HUAL industry and the automotive aftermarket, agricultural application, such as irrigation and farm machinery, pneumatic and hydraulic application in the industrial sector, hardware/DIY applications and in construction.

Thickness: = 0.6 mm, Width: 9 mm

STAINLESS STEEL AISI430ss

The most versatile of clips in the Aeroduct Stranglehold Banding range, our Original Range Jubilee hose clip in 304 (18/8) stainless steel are widely used across all industries where hose clips are used to secure hoses, as well as for other applications. Their corrosion resistance enables their use in the marine, oil and gas and food sectors, as well as the agricultural, hardware and industrial sectors, where higher corrosion resistance is required.

STRANGLEHOLD BANDING



