AERODUCT Ducting Accessories





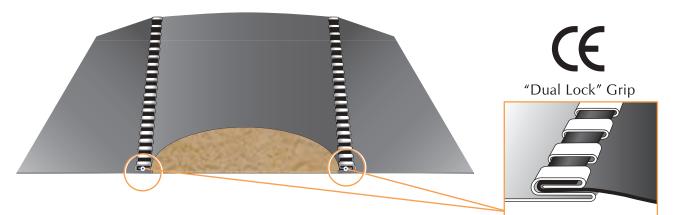
The Most Comprehensive Range of Ducting Accessories

INSULATED FLEXIBLE DUCT CONNECTOR



1. Dual Lock Grip with 3 folds for 28 Gauge metal.

2. Dual Lock Grip with 2 folds for 24 Gauge metal.



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-G8-145-100 ISV-G8-230-100 ISV-G8-280-100	45 x 75 x 45 70 x 100 x 70 70 x 150 x 70	100 100 100	28 28 28	Fabric Insulation	Vinyl Coated Polyester Yarn Fibreglass 12 kg/m³, 25mm thickness	Vinyl is the most commonly used fabric for all air duct installation due to								
ISV-G4-250-100 ISV-G4-300-100	75 x 100 x 75 75 x 150 x 75	100 100	24 24	R Value Weight Tear Strength Tensile Strength	4.2 576 gms /sq.mtr, 170z /sq. yard 45 x 45 kgs (100 x 100 lbs) 108 x 100 kgs	its high tear strength and high abrasior resistance. Recommended for low to medium pressure ductwork systems.								
				Low Temp High Temp Burst Strength	(240 x 220 lbs) - 40 deg C / - 40 deg F 93 deg C / 200 deg F 400psi	UV resistant								
NEOPRENE BS														
ISBSN-G8-230-100 ISBSN-G8-290-100		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								
ISBSN-G4-250-100 ISBSN-G4-300-100		100 100	24 24	R Value Weight	4.2 1016 gms / sq. mtr (30 oz/sq.yard)	strength is required. Neoprene is extremely resistant to most alkalies, gasoline and toxic fumes.								
				(12 x 12 lbs) 226 x 204 kgs	UV resistant									
					NFPA 701									
SILICON														
ISS-G8-230-100 ISS-G8-290-100 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 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)	outdoor installation. UV resistant								
TOT 2 HOUTS					- 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	70 X 100 X 70 70 X 150 X 70	100 100	28 28	Fabric Insulation	Polyurethane Coated Woven Fibreglass Fibreglass 12 kg/m ³ , 25mm thickness	Polyurethane Coated Fabrics are fragile in construction but have a longer resistance period to high temperatures.								
ISP-G4-250-100 ISP-G4-300-100	75 X 100 X 75 75 X 150 X 75	100 100	24 24	R Value Weight	4.2 460 gms /sq.mtr	Airtight and waterproof construction								
				Tear Strength Tensile Strength Low Temp High Temp Burst Strength	(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	UV resistant.								

SPECIFICATION SHEET

Fabric	Weight	Thickness	Tensile Strength	Tear Strength	Low Temp	High Temp	Abrasion Resist- ance	Leakage Resista- nce	Fire Ratings
	ASTM D751-89	ASTM D1 <i>777</i> -96	ASTM D751-89	ASTM D751-89	ASTM D573	ASTM D573	Federal Test Std.191 # 5306	Test Std.191	
Vinyl	576 gms /sq.mtr 17oz /sq. yard	0.41 +/- 0.03mm	108 x 100 kgs 240 x 220 lbs	45 x 45 kgs 100 x 100 lbs	- 40 ^o C - 40 ^o F		15,500 cycles	450 psi	UL Listed ODP, GWP
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		550 cycles	450 psi	UL Listed UV Resistant ODP, GWP
Silicon Rated for use at 400 deg C for 2 hrs	627 gms/ sq.mtr 18.5 oz/ sq.yard	0.46 +/- 0.03mm	81 x 90 kgs 180 x 200 lbs	27 x 22 kgs 60 x 50 lbs	- 40 ^o C - 40 ^o F	300 ^o C 573 ^o F	135 cycles	450 psi	ASTM E 84 - Class 1 UL Listed ODP, GWP
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	ASTM E 84 - Class 1
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		110 cycles	400 psi	Rated Class 1 as per BS 476, Part 7 Tests Rated Class 0 as per BS 476, Part 6 Tests
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 ⁰ C 200 ⁰ F	70 cycles	400 psi	EN 532, EN 533

INTERNATIONAL TEST CERTIFICATES



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



PSB Singapore

Bodycote

Flexible Duct Connectors ASTM E-84 (Vinyl, Neoprene, Silicon, Polyurethane) BS 476 part 7, Class 1 (Polyurethane) BS 476 part 6, Class O (Polyurethane)







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ODP =0 GWP<5 **Flexible Ducts** BS 476 part 7, Class 1 BS 476 part 6, Class O

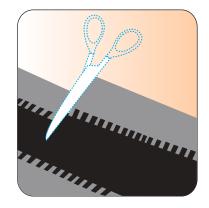
RECOMMENDED INSTALLATION PROCEDURE

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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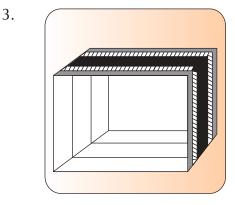
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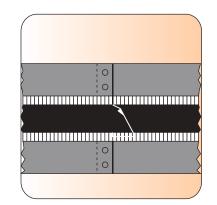
1.

5.

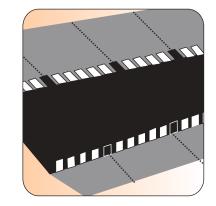
Remove the roll from the box, and cut the connector to the required length.



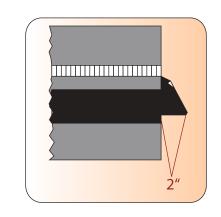
Bend the connector to form the required shape.



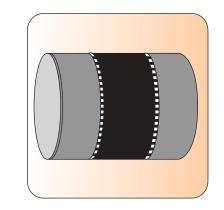
Join the two ends of the sheet metal by using rivets or screws. Apply a liberal amount of adhesive on the fabric portion under the tongue , and hold the joint for few seconds to ensure the seal.



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.

PROJECTS



MANILA BAY RESORT, PHILIPPINES



BLUE WATER DUBAI PROJECT



HARTLAND GREEN – SOBHA, DUBAI - UAE



ABU DHABI INTERNATIONAL AIRPORT 1



COLOMBO CITY CENTRE, SRI LANKA

PROJECTS



OMANTEL HEADQUARTER



BAHRAIN AIRPORT PROJECT



REEM MALL, ABU DHABI, UAE



DUBAI PARKS AND RESORTS



PALM TOWER PROJECT



MARINA GATE TOWER, DUBAI - UAE



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Hira Industries LLC

Main Site: Plot No 118 to 123, 307, 309 & 311, Al Ghail Industrial Park – RAKEZ, P.O. Box 9013, Ras Al Khaimah, United Arab Emirates

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

Manufacture of Molded & Extruded Rubber Products, Ducting Accessories, Smoke and Fire Curtains, Pipe Support Systems, Adhesive Tapes and Aerofoam Closed Cell Polyolefin & Elastomeric Insulation Products. Certificate Number: 0112982

Initial Certification Date: 07 May 2018

Date of Certification Decision: 28 June 2022

Issuing Date: 28 June 2022

Valid Until: 06 May 2024



Calin Moldovean President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.





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