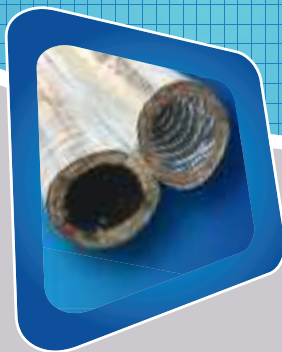
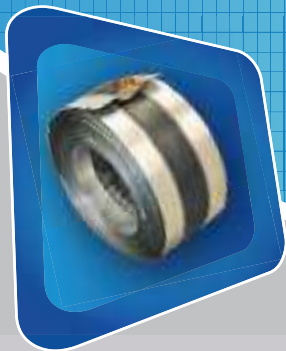
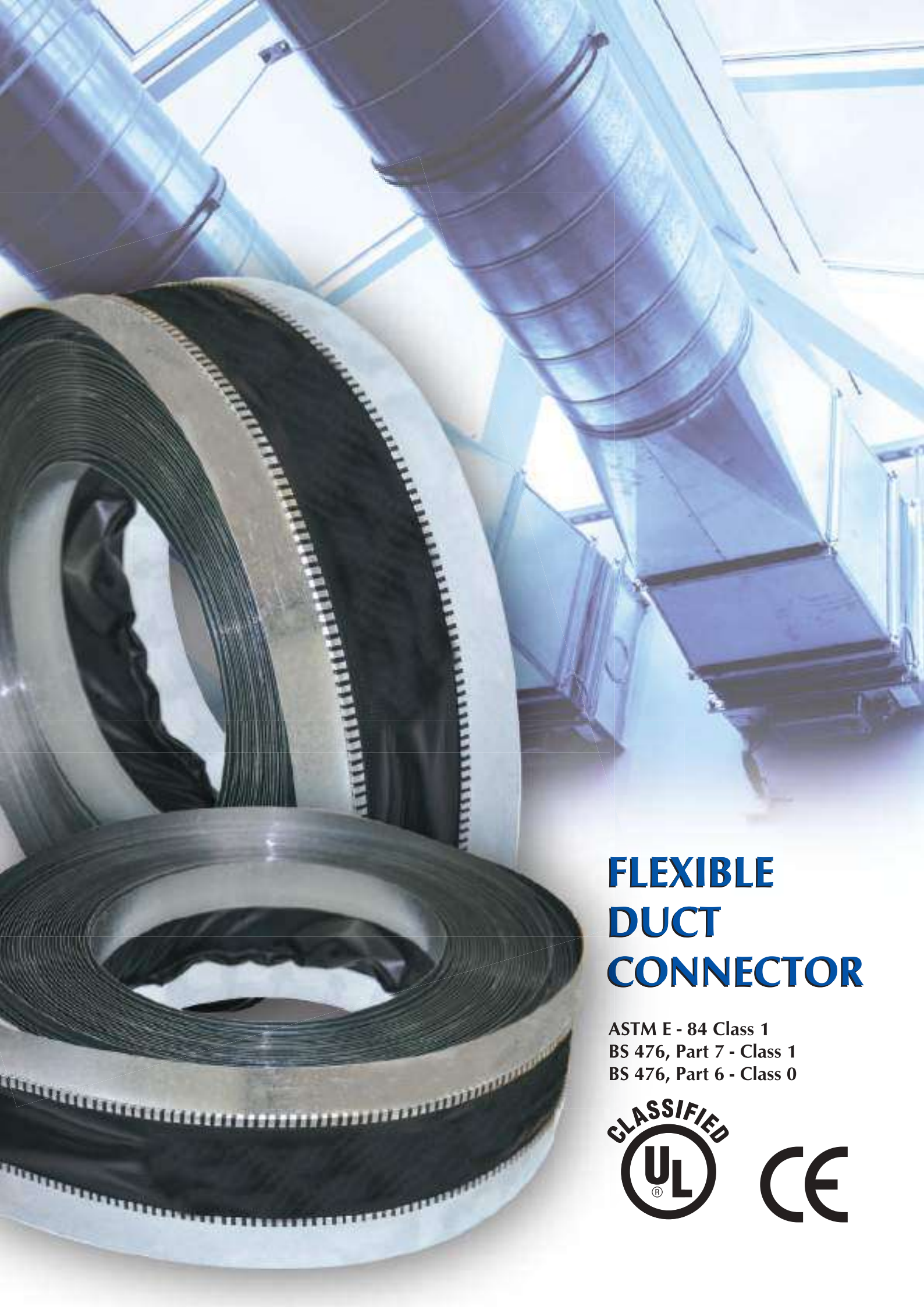


AERODUCT

Ducting Accessories



The Most Comprehensive Range of Ducting Accessories



FLEXIBLE DUCT CONNECTOR

ASTM E - 84 Class 1
BS 476, Part 7 - Class 1
BS 476, Part 6 - Class 0



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.

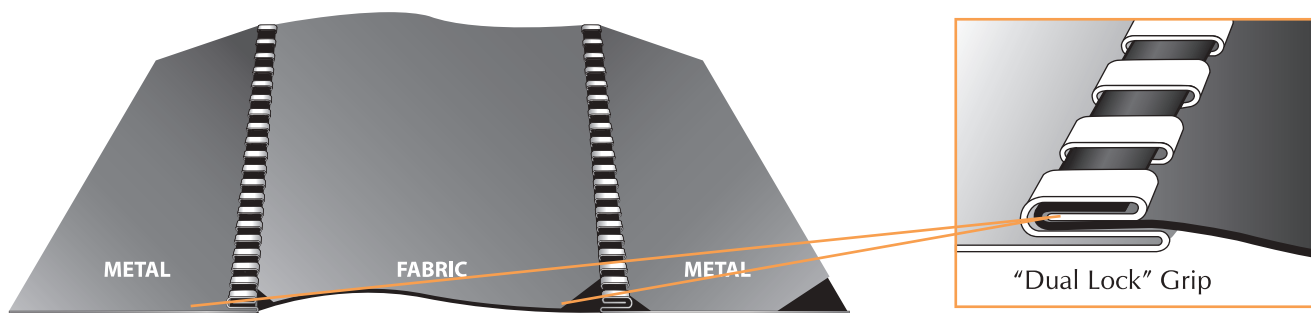
The joint formed by attaching a layer of fabric to two strips of metal on either side is called a "Flexible Duct Connector".

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.


AERODUCT offers two types of dual lock of metal-to-fabric mechanism:

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

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



Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Vinyl						
V-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Polyester Yarn	Vinyl is the most commonly used fabric for all air duct installations due to its high tear strength, and its high abrasion resistance. Recommended for low to medium pressure ductwork systems. Airtight and waterproof construction.
V-G8-230-100	70 x 100 x 70	100	28	Coating	: Vinyl	
V-G8-145-150	45 x 75 x 45	150	28	Weight	: 576 gms /sq.mtr 17oz /sq. yard	
V-G8-230-150	70 x 100 x 70	150	28	Tear Strength	: 45 x 45 kgs 100 x 100 lbs	
V-G4-145-100	45 x 75 x 45	100	24	Tensile Strength	: 108 x 100 kgs 240 x 220 lbs	
V-G4-225-100	75 x 75 x 75	100	24	Low Temp	: -40 deg C/-40 deg F	
V-G4-250-100	75 x 100 x 75	100	24	High Temp	: + 93 deg C/200 deg F	
V-G4-300-100	75 x 150 x 75	100	24	Burst Strength	: 400psi	
V-G4-350-100	100 x 150 x 100	100	24			
<div>CLASSIFIED</div> <div>UL</div>						
Neoprene BS						
BSN-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	Neoprene is recommended for use in application where high mechanical strength is required. Neoprene is extremely resistant to most alkalies, gasoline and toxic fumes. Airtight and waterproof construction.
BSN-G8-230-100	70 x 100 x 70	100	28	Coating	: Neoprene	
BSN-G8-145-150	45 x 75 x 45	150	28	Weight	: 1016 gms /sq.mtr 30 oz/sq. yard	
BSN-G8-230-150	70 x 100 x 70	150	28	Tear Strength	: 5.5 x 5.5 kgs 12 x 12 lbs	
BSN-G4-225-100	75 x 75 x 75	100	24	Tensile Strength	: 226 x 204 kgs 500 x 450 lbs	
BSN-G4-250-100	75 x 100 x 75	100	24	Low Temp	: -40 deg C (-40 deg F)	UV resistant.
BSN-G4-300-100	75 x 150 x 75	100	24	High Temp	: 121 deg C (250 deg F)	
BSN-G4-350-100	100 x 150 x 100	100	24	Burst Strength	: 800psi	Neoprene fabric does not contain material that contribute ODP or GWP
<div>CLASSIFIED</div> <div>UL</div>						NFPA 701

Part No.	Size Metal x Fabric x Metal (mm)	Length (Feet)	Metal Gauge	Fabric Technical Specifications		Features
Silicon						
S-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	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.
S-G8-230-100	70 x 100 x 70	100	28	Coating	: Silicon Rubber	
S-G4-225-100	75 x 75 x 75	100	24	Weight	: 627 gms /sq.mtr	
S-G4-250-100	75 x 100 x 75	100	24		: 18.5 oz/sq. yard	
S-G4-300-100	75 x 150 x 75	100	24	Tear Strength	: 27 x 22 kgs	
S-G4-350-100	100 x 150 x 100	100	24		: 60 x 50 lbs	
Rated for use at 400 deg C for 2 hours				Tensile Strength	: 81 x 90 kgs	
					: 180 x 200 lbs	
				Low Temp	: -40 deg C (-40 deg F)	
				High Temp	: 300 deg C (573 deg F)	
				Burst Strength	: 450psi	UV resistant.
						Achieves Class A when tested as per ASTM - E84 Surface Burning Characteristics.
Hypalon						
H-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	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.
H-G8-230-100	70 x 100 x 70	100	28	Coating	: Hypalon	
H-G4-225-100	75 x 75 x 75	100	24	Weight	: 816 gms /sq.mtr	
H-G4-250-100	75 x 100 x 75	100	24		: 24 oz/sq. yard	
H-G4-300-100	75 x 150 x 75	100	24	Tear Strength	: 22 x 18 kgs	
H-G4-350-100	100 x 150 x 100	100	24		: 48 x 39 lbs	
				Tensile Strength	: 102 x 136 kgs	
					: 225 x 200 lbs	
				Low Temp	: -40 deg C (-40 deg F)	
				High Temp	: 121 deg C (250 deg F)	
				Burst Strength	: 800psi	UV resistant.
Polyurethane						
P-G8-145-100	45 x 75 x 45	100	28	Basic Fabric	: Woven Fibreglass	Polyurethane coated fabrics are fragile in construction but have a longer resistance period to high temperatures. Airtight and waterproof construction
P-G8-230-100	70 x 100 x 70	100	28	Coating	: Polyurethane	
P-G4-225-100	75 x 75 x 75	100	24	Weight	: 460 gms /sq.mtr	
P-G4-250-100	75 x 100 x 75	100	24		: 13 oz/sq. yard	
P-G4-300-100	75 x 150 x 75	100	24	Tear Strength	: 16 x 14 kgs	
P-G4-350-100	100 x 150 x 100	100	24		: 35 x 30 lbs	
				Tensile Strength	: 75 x 82 kgs	
					: 165 x 180 lbs	
				Low Temp	: -40 deg C (-40 deg F)	
				High Temp	: 200 deg C (392 deg F)	
				Burst Strength	: 400psi	UV resistant.

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 air conditioning and ventilating applications, indoors and outdoors. Airtight and waterproof construction
C-G8-230-100	70 x 100 x 70	100	28	Weight : 535 gms /sq.mtr	
C-G8-280-100	70 x 150 x 70	100	28	: 16 oz/sq. yard	
C-G8-300-100	75 x 150 x 75	100	28	Tear Strength : 4 x 4 kgs	
C-G4-300-100	75 x 150 x 75	100	24	9 x 9 lbs	UV resistant.
				Tensile Strength : 127 x 96 kgs	Fire rated as per EN 532 and EN 533.
				280 x 210 lbs	
				Low Temp : -40 deg C (-40 deg F)	
				High Temp : 93 deg C (200 deg F)	

All AERODUCT Connectors utilise galvanised steel meeting ASTM A525 G90 and ASTM A653 G60 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

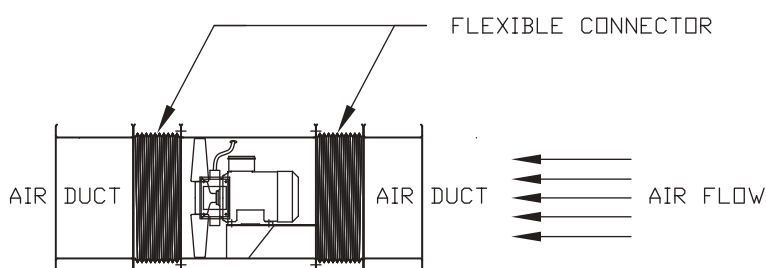
AERODUCT ADHESIVE GEL



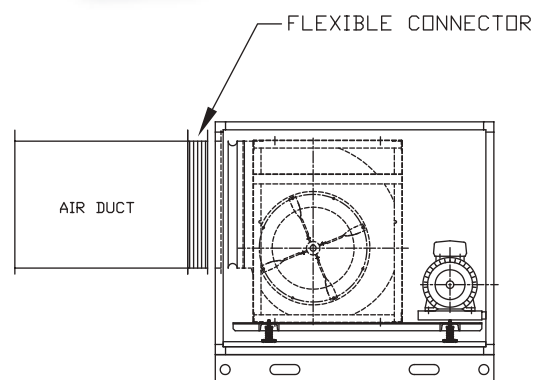
Application:
for Duct Connector
fabric

Property:
Cyanoacrylate adhesive

Typical Application



EXHAUST FANS



FAN COIL / AIR HANDLING UNITS

SPECIFICATION SHEET

Fabric	Weight	Thickness	Tensile Strength	Tear Strength	Low Temp	High Temp	Abrasion Resist- ance	Leakage Resist- ance	Fire Ratings
	TEST METHOD								
	ASTM D751-89	ASTM D1777-96	ASTM D751-89	ASTM D751-89	ASTM D573	ASTM D573	Federal Test Std.191 # 5306	Federal Test Std.191 # 5512	
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°C - 40°F	93°C 200°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°C - 40°F	121°C 250°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°C - 40°F	300°C 573°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°C - 40°F	121°C 250°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	200°C 392°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°C - 40°F	93°C 200°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



Flexible Duct Connectors

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



ODP = 0
GWP < 5



Flexible Ducts

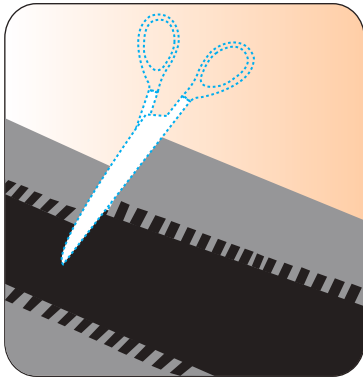
BS 476 part 7, Class 1
BS 476 part 6, Class O



RECOMMENDED INSTALLATION PROCEDURE

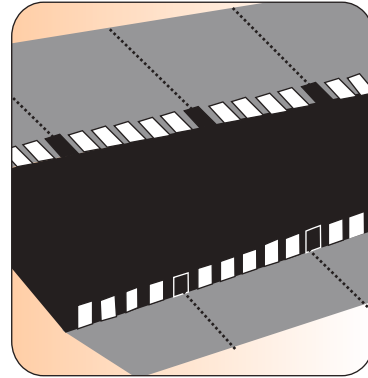
Ensure that the notched side of the connector faces outward and position the joint in the middle of a side rather than at a corner.

1.



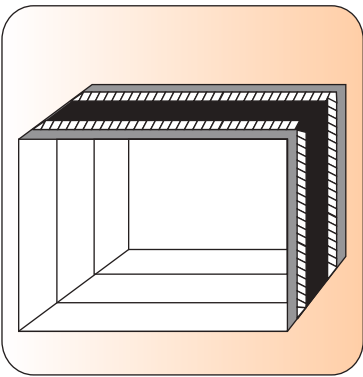
Remove the roll from the box, and cut the connector to the required length.

2.



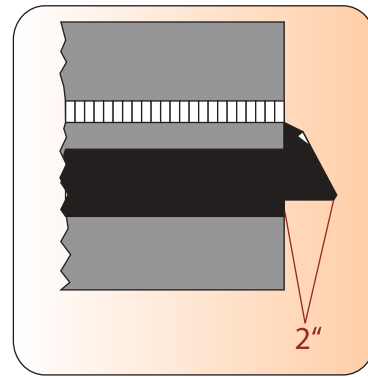
Holding the seam portion upwards to an angle of 90 degrees, make notches at the points where bending is required.

3.



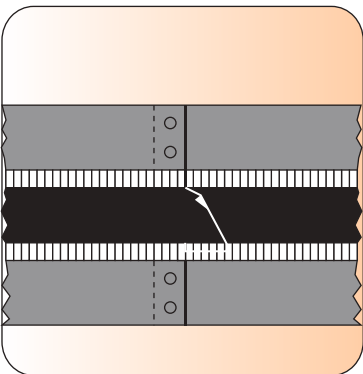
Bend the connector to form the required shape.

4.



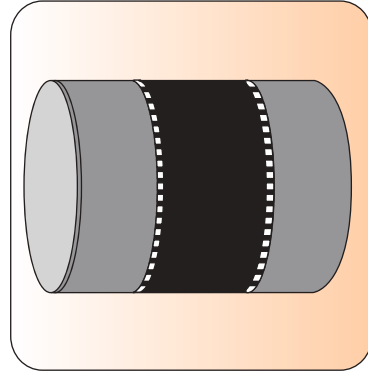
From the end of the connector, cut away the metal portion exposing only the fabric, with length of around 2 inches.

5.



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.

6.



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.



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.



AERODUCT

Ducting Accessories



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