

## Ductwork Components

# Flexible Duct Connector

### Application Details & Specifications

- Doby Verrolecs Flexible Duct Connections reduce vibration and transmitted sound from HVAC Air Systems.
- Purpose designed low leakage flexible joints.
- Choice of Flex materials for specific applications.



### Application details

All air duct installations for heating or ventilation are attached to mechanical equipment containing a fan or blower. This equipment causes vibrations and noises which are transmitted in the metal ducts throughout the installation. In order to isolate vibrations and noises caused by air

handling units, fans and other equipments, it is highly recommended to install an airtight flexible joint between the outlet of the device and the airduct. This joint, consisting of a fabric which is attached to a sheet of metal on both sides is called a Flexible Duct Connector.

### Fabrics & Materials

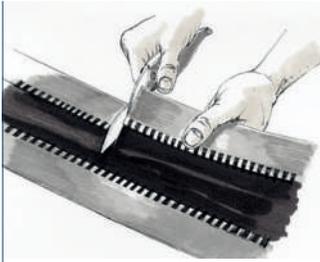
Technical Specification		ROBG DS109	NEO DS110
Material	Coating	PVC	Polychloroprene
	Cloth	Polyester	Fibreglass
Coating		Both sides	Both sides
Weight		600gr/sq m (18oz/sq yd)	720gr/sq m (21oz/sq yd)
Tensile		>=250 daN/5cm	>=250 daN/5cm
Strength		>=250 daN/5cm	>=250 daN/5cm
Tear		>=22 daN	>=10 daN
Strength		>=20 daN	>=15 daN
Colour		Black	Black
Temperature Range		-20°C to + 70°C	-20°C to + 100°C
Continuous		(-4°F to 158°F)	(-4°F to 212°F)
Resistance	Acids	Very good	Good
	Oils	Good	Poor
	Solvents	Fair	Good
	Greases	Good	Poor
	Ozon	Very good	Good
	UV	Very good	Fair
	Alogen	Very good	Poor
Characteristics		-Excellent mechanical resistance -Excellent tear and tensile strength -All purpose - Flame retardant - Excellent water resistance	-Excellent high temp. resistance -'Hardly flammable' classified -Very good chemical resistance
Standards		UL classified - NFPA701	UL classified - NFPA701
Roll size & length		45 x 60 x 45mm x 25m	45 x 60 x 45mm x 25m

- All fabrics are unaffected by mildew.
- All fabrics are designed to meet NFPA 90A (installation of air-conditioning and ventilation systems).
- All fabrics are designed to meet NFPA 90B (Warm air heating and air conditioning systems).
- All fabrics are airtight and waterproof.
- All fabrics meet British, American, French, German and other european standards.

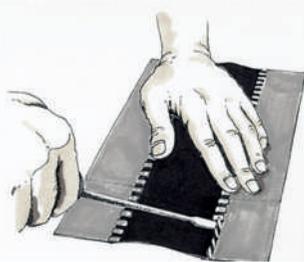
#### Please note

Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

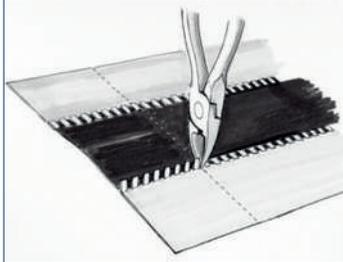
## Recommended assembly method



At a notch, cut a length equivalent to the perimeter required plus an overlap of 5 to 6 cm (2").



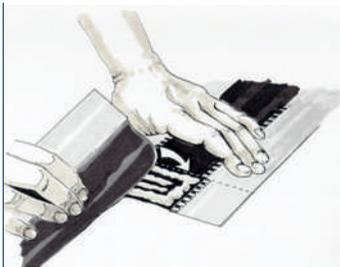
Lift the seam outwards at right angle.



Make a cut at the edge of the seam section.



Bend down the seam while ensuring that the cloth remains fastened.



Coat the cloth with the appropriate adhesive, or pad. Join both sides and press together.



Spot-weld the steel and form to the desired shape.



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## Flexible Duct Connector material dimensions

**A** = thickness of steel: \*0.4 mm (28 ga.)

**B** = steel width 45 mm

**C** = fabric width 60 mm

**L** = length of roll: 25 m (82 feet)

Other lengths on request

\*0.4 mm (28 ga.) steel thickness (European standard)

### Safety

Please make sure you are wearing adequate PPE clothing when handling any exposed metal edges as these can sometimes be sharp.

