DEC INTERNATIONAL TECHNICAL SPECIFICATIONS



DEC CONNECTOR FIXING & SEALING

The flexible connection **DEC CONNECTOR** has been manufactured out of an already existing steel-tofabric-to-steel connection, which enables a fast and simple connection between two (rigid) ducts. Once the galvanized steel overlap has been bent into the correct shape it can be fastened with DEC International self-drilling screws or pop rivets. Another possibility is spot welding. The result is a solid flexible connection which can be mounted simply and quickly. It meets the constructional demands.

The standard fabric in the DEC CONNECTOR is VINYL, NEOPRENE, POLYURETHANE and SILICONE are available on request. Each type of fabric has its own quality and specific application. (See product specific information). All fabrics are airtight and waterproof.

All DEC CONNECTOR's meet the British specifications for sheet metal ductwork DW/142 and DW/144 A great advantage of the DEC CONNECTOR is e.g. the large range of widths of material. Standard sizes are:

Steel	Steel Fabric	
35 mm	60 mm	35 mm
45 mm	60 mm	45 mm
45 mm	75 mm	45 mm
70 mm	100 mm	70 mm

Beside the standard widths it is possible to produce, on request, the DEC CONNECTOR in various other widths.

For further information contact our sales department, because there are restrictions.

STANDARD PRODUCTION LENGTH

The standard production length of the DEC CONNECTOR is 25 m (82 feet). Other lengths on request. If you are interested please contact our sales team.

SPECIFICATIONS

DEC CONNECTOR type VINYL (HCV**) Fabric: copolymer coated polyester (PES)

Fabric made of Polyester cloth, coated on both sides with PVC, used in this type of DEC CONNECTOR, is suitable for applications with high requirements to the moisture resistance and less or no mechanical requirements. This connector is appropriate for round, oval and rectangular air ducts. It can be shaped easily with a minimal percentage of waste. Excellent mechanical resistance. High abrasion resistance. All purpose fabric.

DEC CONNECTOR type SILICONE (HCS**)

Fabric: silicone coated glass fibre Fabric made of Fiberglass cloth, coated on both sides with a silicone coating, used in this type of DEC CONNECTOR, is suitable for applications with high mechanical demands to the material. This connector is appropriate for round, oval and rectangular air ducts. It can be shaped easily with a minimal percentage of waste.

Excellent temp.resistance. Low smoke emission. Very good chemical resistance.

DEC CONNECTOR type POLYURETHANE (HCP)**

Fabric made of Fiberglass cloth, coated on both side with Polyurethane, used in this type of DEC CONNECTOR, is suitable for applications were a high chemical resistance is required. This connector is appropriate for round, oval and rectangular air ducts. It can be shaped easily with a minimal percentage of waste.

Very good temp. resistance. M0-400°C/2h classified

DEC CONNECTOR type NEOPRENE (HCN)**

Fabric made of Fiberglass cloth, coated on both sides with Polychloroprene (Neoprene), used in this type of DEC CONNECTOR, is suitable for applications were a high chemical resistance is required. This connector is appropriate for round, oval and rectangular air ducts. It can be shaped easily with a minimal percentage of waste.

Excellent mechanical resistance. General purpose fabric. Very good chemical resistance.

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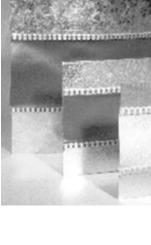
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Fabric: neoprene coated glass fibre

Fabric: polyurethane coating glass fibre

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DEC CONNECTOR

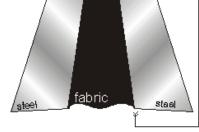
FIXING & SEALING

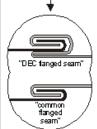
FLANGED SEAM

In the DEC CONNECTOR, particularly developed, various unique properties have been used, e.g. the modern flanged seam technology. Mostly a simple flanged seam has been used in similar products.

The DEC CONNECTOR has been produced with a flanged seam with 4 layers The double flanged seam gives an exceptional power to the connection between steel and fabric.

The double flanged seam is used in each type of DEC CONNECTOR.





galvanized steel

Another advantage is the extraordinary protection the double flanged

seam is giving to the fabric. It can be shaped easily by bending and the open flanged seam prevents the damaging of the fabric.

GALVANIZED STEEL

The galvanized steel in the DEC CONNECTOR meets the demands of the following specifications:

- Thickness of plate : 400 microns
- Thickness tolerance : -50/+50 microns
- : 275 gr/m² Sinking weight •
- Quality : ST02Z275
- Chromatic Reagenz : NA Quality IIA (fewer lead, so fewer pollution) •

CHEMICAL RESISTANCE (GALVANIZED STEEL)

This table indicates the chemical resistance of galvanized steel in relation to different chemicals. It is just a restricted summary. For more information about the resistance to, not mentioned chemicals, please contact our sales team.

Explanation:

- 1 = excellent
- 2 = good
- 3 = moderated
- x = poor/not recommended

Chemicals	x	3	2	1
Acetone				~
Acetylene				~
Ammonia	~			
Benzene				~
Bromide	~			
Butane				~
Chlorine	~			
Ethane				~
Phenol	~			
Phosphoric acid	~			
Helium				~
Carbon dioxide			~	
Carbon dioxide (liquid)	~			
Methane	~			
Methanol				~
Toluene				~
Neon				~
Ozone	~			
Nitric acid (diluted)	~			
Nitrogen				~
Water			~	
Water vapour				~
Hydrogen				~
Hydrochloric 37% cold	~			
Hydrochloric 37% warm	~			
Sulphur				~
Sulphuric acid, diluted				~
Sulphurous acid				~

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DEC INTERNATIONAL TECHNICAL SPECIFICATIONS





DEC CONNECTOR FIXING & SEALING

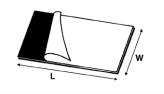
To select the appropriate **DEC CONNECTOR** products consult the table below

	Vinyl	Polyurethane	Silicone	Neoprene
Mechanical data				
Weight (gr/m ²) (backing+coating)	600	460	520	720
Temperature range (°C)	-20 - +70	-20 - +120	-40 - +280	-20 - +100
Max. temperature (°C)	-	(-50/+200 short intervals) +400 - 2h*	-	-
Fire class				
France (CSTB)	х	*M0	-	-
Colour	Grey	Grey	Grey	Black
Chemical Resistance				
Acetone	••	•	••	••
Acetylene	••	x	••	••
Ammonia	•	x	•	x
Benzene	••	••	•	•
Butane	•	•		•
Chlorine	•••	•	•	•••
Chlorine gas		•	х	
Ethane	••	•••	•	••
Phenol	•	•	•	•
Phosphoric acid	••	•	•	••
Helium	•	•	•	•
Carbon dioxide	•	x	••	••
Carbon dioxide (liquid)		•	•	•
Methane	••	•	•	••
Methanol	•	•	•	•
Toluene		•		х
Neon	•	•	•	•
Ozone	•••	•	•	•••
Nitric acid (diluted)	•	•••	••	•
Nitrogen	•	•	•	•
Water	•	•	•	•
Water vapour	•	•	•	•
Hydrogen	••	x	•	••
Hydrochloric 37% (cold)	••	•	••	••
Hydrochloric 37% (warm)	•	•	•	•
Sulphur	•	x	•	•
Sulphuric acid (diluted)	••	•••	•	••
Sulphurous acid	••	•	•	••

Self-Adhesive Fabric Pads

The easy patch for our DEC Connector. Seals the place of connection tight.

Fabric Type	Dimensions W x L	Packaging
BO Bohust	50x60mm	100 pcs / box
	50x100mm	100 pcs / box
(PVC-VIIIyI)	50x140mm	100 pcs / box
	50x60mm	100 pcs / box
EO-Neoprene	50x100mm	100 pcs / box
	50x140mm	100 pcs / box
Double sided adhesive only	Rolls 50mm x 50m	
	RO-Robust (PVC-Vinyl) EO-Neoprene	Fabric Type W x L RO-Robust (PVC-Vinyl) 50x60mm 50x100mm 50x140mm 50x60mm 50x60mm 50x100mm 50x140mm 50x100mm 50x140mm





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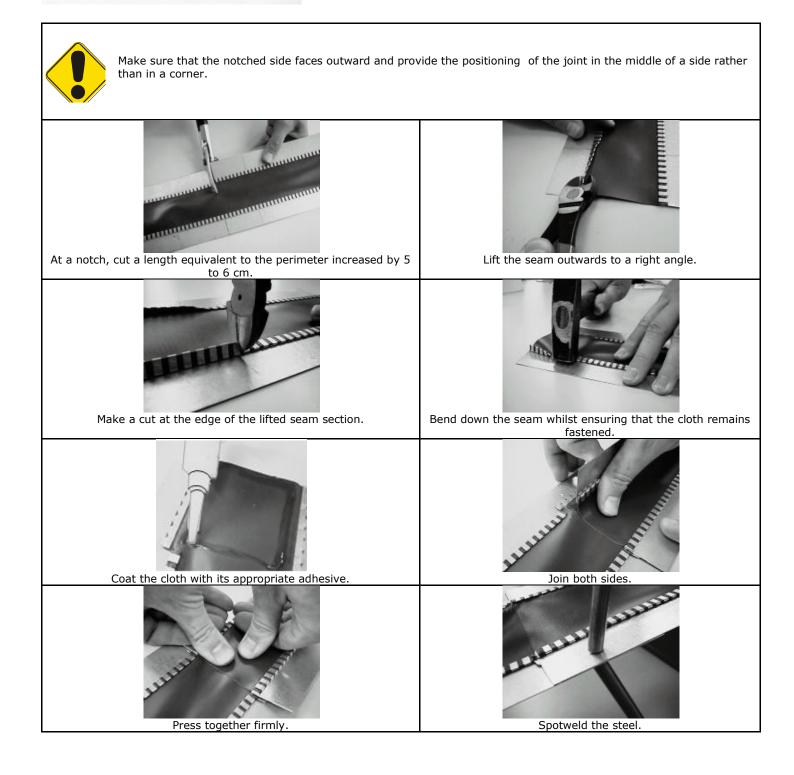






DEC CONNECTOR FIXING & SEALING

Mounting instructions



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