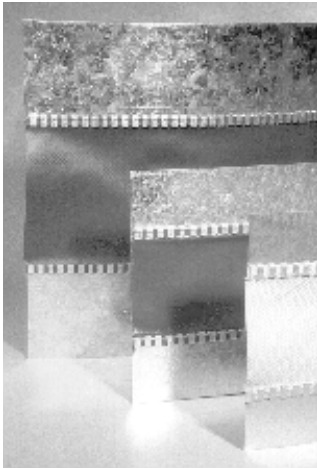


DEC CONNECTOR

DEC International[®]'s flexible connection (**DEC CONNECTOR**) has been manufactured out of an already existing steel-to-fabric-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**[®] *selfdrilling screws* or pop rivets. Another possibility is spotwelding. 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 **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	Fabric	Steel
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**.

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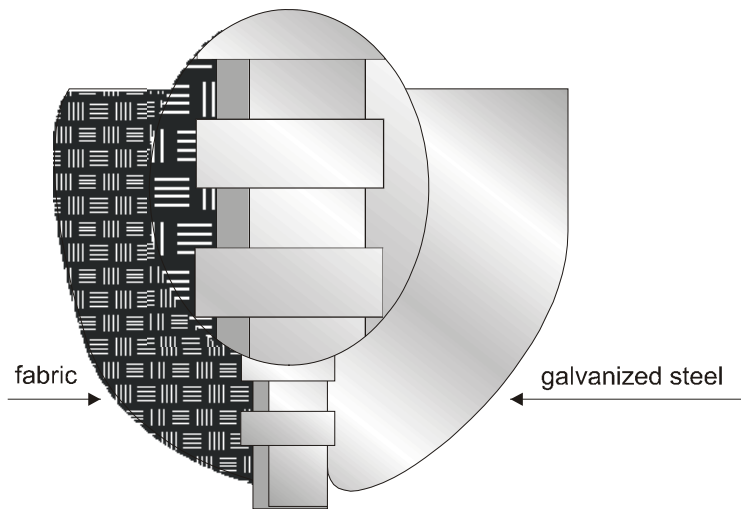
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DEC CONNECTOR

FLANGED SEAM

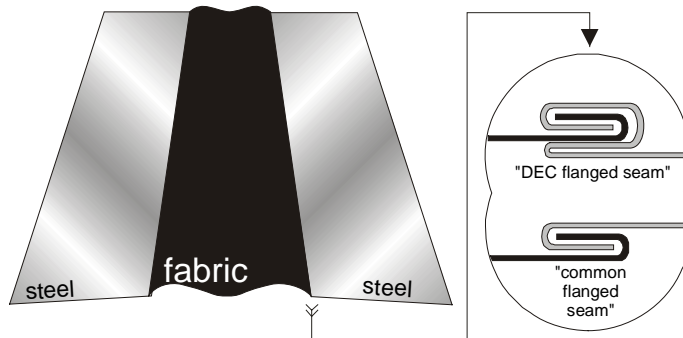
In the **DEC CONNECTOR**, particularly developed, various unique properties have been used, a.o. the modern flanged seam technology. Mostly a simple flanged seam has been used in similar products. The **DEC CONNECTOR** has been produced with a flanged seam with 4 layers (see drawing 2).

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**.



Drawing 1

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.



Drawing 2

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.

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DEC CONNECTOR

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
- ▶ Sinking weight : 275 gr/m²
- ▶ Quality : STO2Z275
- ▶ Chromatic Reagenz : NA Quality IIA (fewer lead, so fewer pollution)

CHEMICAL RESISTANCE

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.

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				✓

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

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DEC CONNECTOR

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

	Vinyl	Polyurethane	Silicone	Neoprene
Mechanical data				
Specific gravity (gr/m ²)	600	450	550	570
Temperature range (°C)	-30 - +70	-50 - +200	-40 - +280	-20 - +100
Max. temperature (°C)	-	400 – 2h*	-	-
Fire class				
France (CSTB)	x	*M0	M1-M0	M1
Great Britain (BS 476)	x	Part 7 Class1	Part 7 Class1	Part 7 Class1
Fire tests	flame retardant	irrelevant	irrelevant	irrelevant
Technical data				
Fabric	see product specific properties			
Colour	dark grey	silver	silver	black
Chemical Resistance				
Acetone	••	▪	••	••
Acetylene	••	x	••	••
Ammonia	•	x	•	x
Benzene	••	••	▪	•
Butane	•	•	▪	•
Chlorine	•••	▪	▪	•••
Chlorine gas	▪	▪	x	▪
Ethane	••	•••	▪	••
Phenol	▪	▪	▪	▪
Phosphoric acid	••	•	▪	••
Helium	•	•	•	•
Carbon dioxide	•	x	••	••
Carbon dioxide (liquid)	▪	▪	▪	▪
Methane	••	•	▪	••
Methanol	•	▪	•	•
Toluene	▪	▪	▪	x
Neon	•	•	•	•
Ozone	•••	•	•	•••
Nitric acid (diluted)	•	•••	••	•
Nitrogen	•	•	•	•
Water	•	•	•	•
Water vapour	▪	▪	▪	▪
Hydrogen	••	x	▪	••
Hydrochloric 37% (cold)	••	▪	••	••
Hydrochloric 37% (warm)	▪	▪	▪	▪
Sulphur	•	x	•	•
Sulphuric acid (diluted)	••	•••	▪	••
Sulphurous acid	••	▪	▪	••

▪ poor/not recommended •• good
 • excellent ••• moderate x not been tested

2.11

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DEC CONNECTOR

Applications in practice.

DEC CONNECTOR type VINYL

- The fabric with a copolymer coating, 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.

DEC CONNECTOR type SILICONE

- The fabric 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.

DEC CONNECTOR type POLYURETHANE

- The fabric with a polyurethane coating, 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.

DEC CONNECTOR type NEOPRENE

- The fabric with a neoprene coating, 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.

PRODUCT SPECIFIC PROPERTIES.

DEC CONNECTOR Type VINYL

Fabric: copolymer coated polyester (PES)

DEC CONNECTOR Type SILICONE

Fabric: silicone coated glass fibre

DEC CONNECTOR Type POLYURETHANE

Fabric: polyurethane coating glass fibre

DEC CONNECTOR Type NEOPRENE

Fabric: neoprene coated glass fibre

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