

Advantages

- Flexible and easy to handle and install.
- Available in two material formats.
- Provides a cost effective sound barrier solution.
- Durable and wear resistant.
- Resistant to oils and water etc.

Applications

Wilhams FDC flexible duct connectors are used to connect the fan to the ductwork system whilst providing vibration isolation and limiting structure borne noise transmission.

Description

Wilhams FDC flexible duct connector is manufactured from heavily filled PVC barrier mat fastened using either HF welding, stitching or riveting, to form a flexible high density layer with excellent acoustic insulation properties. There are 4 connector material options:

- FDC- 1060 a hessian reinforced material with a black wear resistant surface.
- FDC- 1180 a glass cloth reinforced material with a silver grey wear resistant surface.
- Glass fabric impregnated with silicon (see data sheet 9/03) - for high temperature smoke extract systems.
- PVC coated nylon – for antibacterial and anti static properties.

Technical Information

Wilhams FDC flexible duct connectors conform to the following specifications:

FDC – 1060

- Surface density – 5kg/m²
- Thickness – 2.5mm with Hessian reinforced base
- Operating Temperature – -30 to +65°C
- Flammability – FMVSS 302 : self extinguishing

FDC –1180

- Surface density – 5kg/m²
- Thickness– 2.5mm with glass fabric reinforced base
- Operating Temperature – -30 to +65°C
- Flammability – BS 476 : Part 7: 1971 - Class 1
BS 476 : Part 6: 1989 – index I<12
Class 'O' surface

Physical Information

DIMENSIONS

Made to measure to suit requirements.

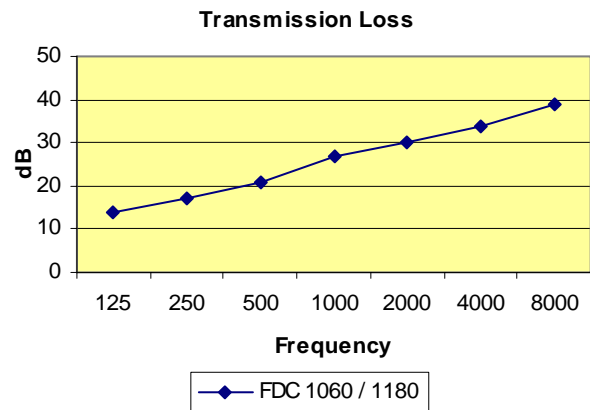


Acoustic Performance

Wilhams FDC flexible duct connectors have the following acoustic performance data.

Transmission Loss Data (tabulated and graphical)

Material \ Frequency	125	250	500	1k	2k	4k	8k
FDC 1060 / 1180	14	17	21	27	30	34	39



Recommendations

To further reduce duct work noise we recommend:

Breakout noise –

Wilhams WB barrier (data sheet 2/01) to the external walls of the duct work, alternatively lag the duct work with a Wilhams WIL-LAG (data sheets 4/01 & 4/02).

Internally line –

Wilhams Acoustic Foam (data sheet 1/01 or 1/03).

Fan connections –

Wilhams FDC flexible duct connectors (data sheet 8/01).

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