

### Advantages

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

### Applications

Wilhams AFJ acoustic fan jackets are employed to efficiently reduce the noise breakout from axial flow fan casings.

### Description

Wilhams AFJ acoustic fan jackets are manufactured from polymeric barrier supported by a 25mm or 50mm acoustic foam space layer. The polymeric barrier is backed with a hessian substrate for strength and dimensional stability with the following options:

AFJ-1060 is a standard acoustic fan jacket, manufactured from 5 kg/m<sup>2</sup> polymeric barrier.

AFJ-1080 is a high performance acoustic fan jacket, manufactured from 10 kg/m<sup>2</sup> polymeric barrier.

Both fan jackets are available with a choice of foams:

- Wilhams WH25/1FR fire retardant acoustic foam.
- Wilhams PUNF Class 'O' foam.

The acoustic foam thickness 25mm or 50mm, should be selected to match the duct flange height.

Jackets are supplied with either Velcro straps or buckle and straps and Class 'O' foil facing.

### Technical Information

Wilhams AFJ acoustic fan jackets conform to the following specifications:

#### AFJ-1060

- Barrier material surface density – 5kg/m<sup>2</sup>
- Barrier material flammability – FMVSS 302 : self extinguishing
- Operating temperature – -30 to +65°C
- Acoustic foam technical data – see data sheets 1/03 (type -A) and 1/01 (type -B).

#### AFJ-1080

- Barrier material surface density – 10kg/m<sup>2</sup>
- Barrier material flammability – FMVSS 302 : self extinguishing
- Operating temperature – -30 to +65°C
- Acoustic foam technical data – see data sheets 1/03 (type -A) and 1/01 (type -B).

### Physical Information

#### Dimensions

Made to measure.

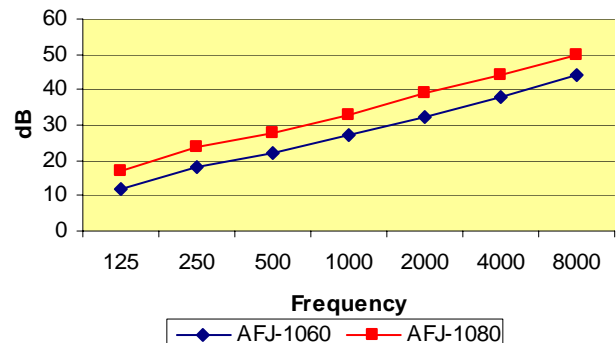


### Acoustic Performance

Wilhams AFJ acoustic fan jackets have the following acoustic performance data.

#### Transmission Loss Data (tabulated and graphical)

Material \ Frequency	125	250	500	1k	2k	4k	8k
AFJ-1060	12	18	22	27	32	38	44
AFJ-1080	17	24	28	33	39	44	50



Wilhams acoustic fan jackets typically provide the following reduction after installation:

AFJ – 1060 type product will provide 7 to 9 dB reduction  
AFJ – 1080 type product will provide 10 to 14 dB reduction

### 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).