WILHAMS Insulation Group

DAMPING SHEET TYPE WDS

DATA SHEET 3/02

Advantages

- Available in sheet form.
- Flexible and easily cut.
- Easy to handle and install.
- Available in four standard weights.

Provides a cost effective sound proofing solution.

Applications

Wilhams WDS damping sheet is used for the sound proofing of formed steel or aluminium panels and cabinets. Typical applications include damping for steel panels in the automotive industry, agricultural machinery, air-conditioning ductwork and the white goods industry. Damping sheets can additionally be used in conjunction with Wilhams range of WIL-LAG lagging products to dramatically enhance acoustic performance.

Description

Wilhams WDS damping sheet is bitumen enriched, self adhesive backed material manufactured from a mixture of bitumen, plasticizers and elastomers. The adhesive backing is protected by a silicon release paper that permits easy storing and stacking. Wilhams WDS damping sheet is black in colour.

Technical Information

Wilhams WDS damping sheet is simple to install. When selecting the damping sheet weight to use, it is recommended that the thickness of the WDS damping sheet is 1 to 2 times that of the panel thickness being treated.
Wilhams WDS damping sheet material conforms to the following specifications:

Wilhams WDS Damping Sheet material conforms to the following specifications:

- Density – 1.8 to 2.0 gr/cc
- Flammability (FMVSS 302) – Class SE
- WDS13 only – UL94 HB
- Flexibility at >10°C – 20mm diameter cylinder
- Service temperature – -20°C to + 80°C
- Shelf Life – 6 months at 10 to 35°C (avoiding sunlight and bad weather.)

Physical Information

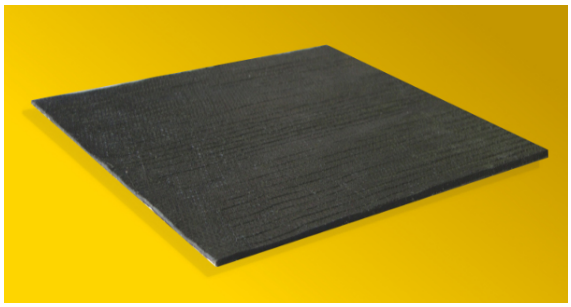
- **Dimensions**
- Standard sheet size: 1.5 x 1.0m or 1.2 x 1.0m
  1.08 m x 1.02m (WDS 13 only)

Available cut to size upon request.

Weights

Wilhams WDS damping sheet is available in four standard nominal weights:

Type	Thickness (mm)	Weight (kg/m$^{2)}$
WDS 13	1.7	1.7
WDS 02	1.5	3
WDS 04	3.0	5
WDS 10	5.0	10



Acoustic Performance

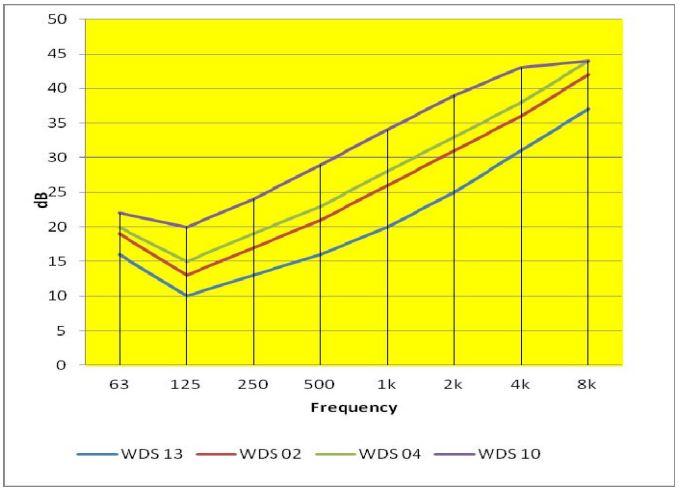
Wilhams WDS damping sheet has been acoustically tested at a UKAS certified independent test laboratory.

Tested and Rated according to:
BS EN ISO 717-1:1997, BS EN ISO 140-3:1995 & BS EN ISO 2750:Part3:1995

Transmission Loss Data

Mat'l/Freq	63	125	250	500	1k	2k	4k	8k
WDS 13	16	10	13	16	20	25	31	37
WDS 02	19	13	17	21	26	31	36	42
WDS 04	20	15	19	23	28	33	39	44
WDS 10	22	20	24	29	34	39	43	44

Transmission Loss



Installation Guidelines

Ensure the substrate surface is clean and free from dust and grease. Align the damping sheet and peel back the release paper and adhere to the surface. To ensure that sufficient pressure is equally applied to the damping sheet, use a pressure roller or pressure pad. Adhesion is enhanced at temperatures above 30°C.

WDS Damping Sheet becomes brittle in cold temperatures.

NOTE: Any directions for use are given for guidance only and are not intended to form part of any contract.

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