

Advantages

- Available in sheet or roll form.
- Flexible and easily cut.
- Easy to handle and install.
- Available in three standard weights.
- Provides a cost effective sound barrier solution.
- Available with self-adhesive backing or Class 'O' foil facing.

Applications

Wilhams WB barrier material can be used as either a single sound barrier layer such as a noise curtain, or as part of a composite combined with sound absorbing materials such as mineral wool or foam for soundproofing materials. Commonly utilised in roof, floor and wall sound reduction applications to reduce transmission of airborne and impact noise.

Description

Wilhams WB barrier is a high-density barium sulphate loaded thermoplastic polymer plasticised with phalate esters and containing mineral fillers. Black in colour, ecologically neutral and recyclable; the material is bitumen free.

Technical Information

Wilhams WB barrier material conforms to the following specifications:

- Flammability (FMVSS 302) - Zero burn rate
- Tensile strength (BS2782: Pt3: 1976) – 5.75N.mm²
- Elongation at break (BS2782: Pt3: 1976) – 100%
- Hardness (Shore A) - 90°
- Service temperature - <-30°C to 90°C (continuous)
<120°C (short periods)
- Shelf Life – Indefinitely in cool dark conditions

Physical Information

Dimensions

Standard sheet size: 2m x 1.2m

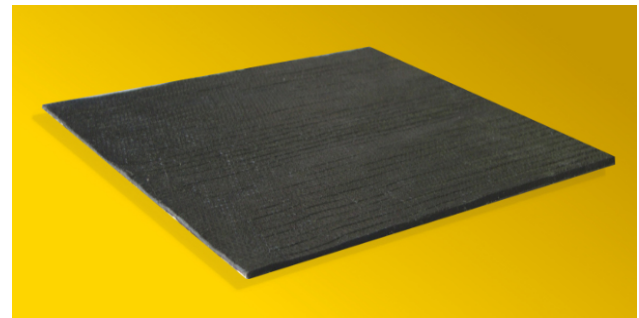
Also available in cut to size sheets and in rolls to suit requirements. Maximum width available is 2m.

Weight

Wilhams WB barrier material is available in three standard weights:

Product Code	Thickness mm	Nominal Weight kg/m ²
WB050	2.0	5.0
WB075	3.7	7.5
WB100	5.0	10.0

3.5kg/m² and 15kg/m² WB barrier available upon request.



Acoustic Performance

Wilhams WB barrier material is a high performance material that has been acoustically tested at a UKAS certified independent test laboratory.

Tested and Rated according to:

BS EN ISO 717-1:1997

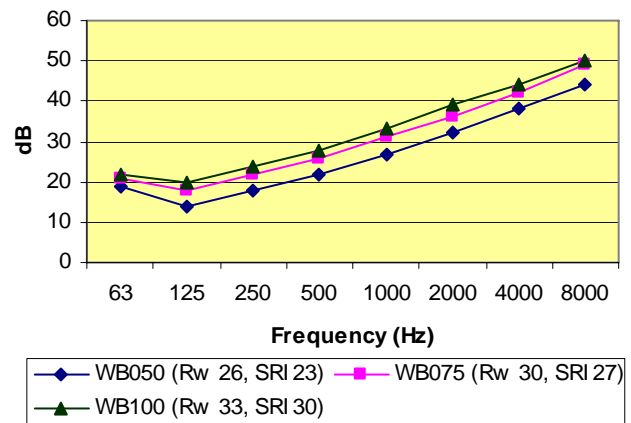
BS EN ISO 140-3:1995

BS EN ISO 2750:Part3:1995

Transmission Loss Data

Material \ Frequency	63	125	250	500	1k	2k	4k	8k
WB050	19	14	18	22	27	32	38	44
WB075	21	18	22	26	31	36	42	49
WB100	22	20	24	28	33	39	44	50

Transmission Loss



Installation Guidelines

Wilhams WB barrier is installed either direct to the noise source or in conjunction with a spaced layer. The barrier can be applied by mechanical means i.e. pins, hangers or banding, or adhesively bonded using Wilhams A7153 adhesive or alternatively the barrier can be backed with Wilhams type A 3243a pressure sensitive adhesive.

For complete installation details please contact our technical department.

Wilhams Insulation Group

117 Bohemia Road, St Leonards-On-Sea, East Sussex TN37 6RL United Kingdom

Export Sales:- Tel: +44 (0) 1424 717171 Fax: +44 (0) 1424 20100 Email: sales@wilhams-insulation.co.uk

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