WILHAMS INSULATION LTD. www.wilhams.co.uk

WIL-LAG
TYPE WIL-SHIELD

Data sheet 4/08

Advantages

- Available in sheet form.
- Flexible and easily cut.
- Easy to handle and install.
- Excellent acoustic performance.
- Single product wrap.

Applications

Wilhams WIL-SHIELD acoustic lagging material is typically used for air conditioning ductwork, and pipe work that requires acoustic treatment.

Description

Wilhams WIL-SHIELD acoustic lagging material is a five part laminate consisting of an inner 25mm glass fibre spaced layer faced with woven glass tissue, laminated to a heavy mass layer of lead or polymeric barrier with an outer spaced layer of 25mm glass fibre Class 'O' foil faced.

The heavy mass barrier is available with a surface weight of 5kg/m² for standard applications or for high performance applications 10kg/m².

Product designations are as follows:

….. / L5 is with a 5kg/m² lead barrier.
….. / L10 is with a 10kg/m² lead barrier.
….. / P5 is with a 5kg/m² polymeric barrier.
….. / P10 is with a 10kg/m² polymeric barrier.

Physical Information

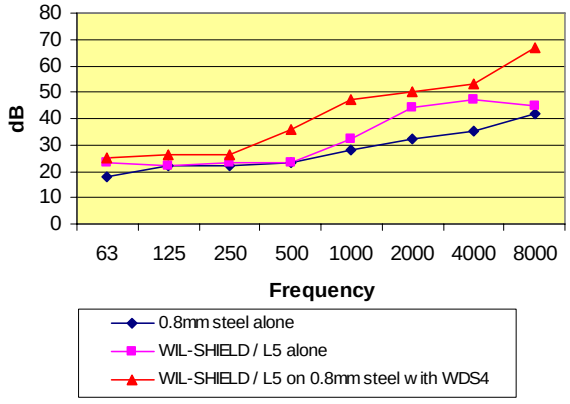
Standard sheet size: 2m x 1.2m x 50mm nominal

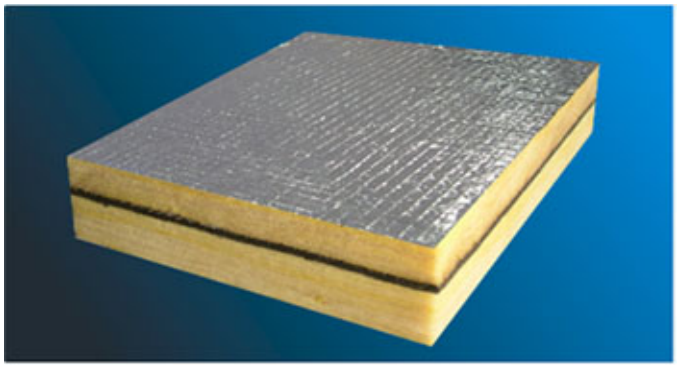
Thermal Conductivity	0.036 w/mºk
Resistance	Non Hygroscopic
Fire retardance	Class 'O' with foil facing
Operating temperatures	150ºC(max)
	-30ºC (minimum)

Acoustic Performance

Wilhams WIL-SHIELD is a high performance material that has been acoustically tested to give the following Sound Reduction Index data.

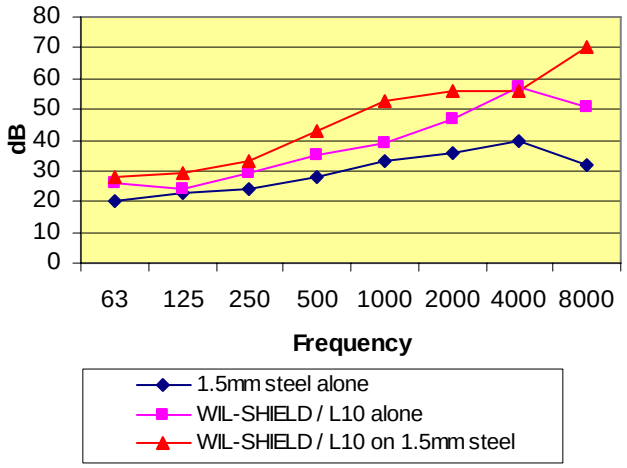
WIL-SHIELD / L5





Material / Frequency	125	250	500	1k	2k	4k
0.8mm steel	22	22	23	28	32	35
WIL-SHIELD / L5	22	23	23	32	44	47
0.8mm steel + WIL-SHIELD / L5 + WDS4	26	26	36	47	50	53

WIL-SHIELD / L10



Material / Frequency	125	250	500	1k	2k	4k
1.5mm steel	23	24	28	33	36	40
WIL-SHIELD / L10	24	29	35	39	47	57
1.5mm steel + WIL-SHIELD / L10	29	33	43	53	56	56

Installation Guidelines

Wilhams WIL-SHIELD acoustic lagging material is easy to handle and simple to install to both rectangular and circular systems. When installing, all joints must be overlapped by a minimum of 25mm and sealed with aluminium foil tape.

For large sections of lagging, banding or pins and washers maybe required to support the WIL-SHIELD in place and to maintain its acoustic integrity.

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