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WIL–LAG ACOUSTIC PIPE LAG

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Advantages

- Easy and quick to apply.
- Excellent acoustic performance.
- Applied as a single dry treatment.
- Excellent fire resistance & temperature stability.
- Low thermal conductivity and low toxicity.

Applications

WIL-LAG Pipe Lag is a highly efficient acoustic treatment designed for rainwater, pneumatic, hydraulic pipes, and waste water pipes for both industrial and commercial applications. Steam pipes can also be treated with WIL-LAG Pipe Lag providing a suitable thermal insulation is applied as a first layer. Being of a foam laminate construction, it is ideal where fibre erosion is not acceptable and where a significant reduction in break out noise is specified.

Description

WIL-LAG Pipe Lag is a well proven product consisting of a four part laminate including two acoustic isolating layers or spacers of PUNF Class 'O' acoustic foam, separated by a heavy mass layer of acoustic grade lead or polymeric barrier, with a facing of Class'O' reinforced foil. Wil-Lag Pipe Lag is available in a range of formats by varying the weight and type of the mass barrier and also from a selection of three thicknesses of acoustic spacer layers to suit the performance required.

Technical Information

WIL-LAG Pipe Lag conforms to the following specifications:

Acoustic spacer layers

- Foam density – 108 kg/m³
- Foam thicknesses – 6, 12 and 25mm
- Fire Resistance – BS 476 parts 6 & 7 Class 'O'
  Class'O' UK Building Regulations

Acoustic heavy mass sheet barrier

- Surface weight – 5 kg/m² or 10kg/m²

Composite

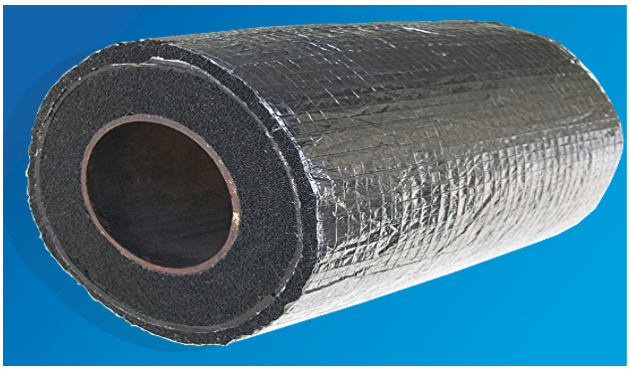
- Operating temperature – -30 to 80ºC
  (110º C intermittent)
- Fire Resistance – BS 476 parts 6 & 7 Class 'O'
  Class'O' UK Building Regulations

Physical Information

Dimensions

Standard sheet sizes: 1.2m x 1.0m or 2.0m x 1.2m

Cut to size parts are available and are supplied complete with laps on both longitudinal and circumferential seams to provide an easy lap for taping.



Grades

WIL-LAG Pipe Lag is available in varying grades and formats to suit different performance requirements. Selection and sizing of Pipe Lag materials can be undertaken by Wilhams engineers upon receipt of outside pipe diameter and pipe length.

Acoustic Performance

WIL-LAG Pipe Lag has the following acoustic performance.

As a general rule, Pipe Lag 5 variants give an SRI 22-25 dB(A) and Pipe Lag 10 variants give an SRI 26-28 dB(A).

Transmission Loss dB (BS2750 : 1980)

Material \ Frequency	63	125	250	500	1k	2k	4k	8K
Pipe Lag 5 Format L5.P12.CO	17	18	21	26	32	40	43	44
Pipe Lag 5 Format L5.P25.CO	18	21	35	38	48	48	52	47
Pipe Lag 10 Format L10.P12.CO	24	19	24	27	28	41	51	46
Pipe Lag 10 Format L10.P12.CO	22	23	37	39	48	52	59	47
Pipe Lag 5 Format B5.P12.CO	18	15	18	23	28	37	41	41
Pipe Lag 5 Format B5.P12.CO	19	17	32	34	46	48	51	47

Absorption Coefficient (random incidence)

Material \ Hz	125	250	500	1k	2k	4k
Pipe Lag 5 / 10 12mm thickness	0.08	0.14	0.22	0.32	0.40	0.53
Pipe Lag 5 / 10 25mm thickness	0.08	0.20	0.56	0.93	0.84	0.92

Installation Guidelines

Where pipe diameters are small, i.e. 50mm and above, we recommend Pipe Lag with a lead heavy mass barrier as it is easy to form and apply. For pipe diameters above 100mm, a Pipe Lag with a polymeric barrier is also suitable.

Joints are simply taped using a reinforced Class 'O' foil tape.

Wilhams Insulation Ltd
Units 1-3 Rye Industrial Park, Harbour Rd, Rye, East Sussex TN31 7TE United Kingdom
Export Sales:- Tel: +44 (0) 1797 226888 Fax: +44 (0) 1797 227322 Email: export@wilhams.co.uk
UK Sales:- Tel: +44 (0) 1206 765288 Fax: +44 (0) 1206 765289 Email: sales@wilhams.co.uk