

TECHNICAL DATA SHEET

PIPE ACOUSTIC LAGGING ACOUSTIC PIPE LAGGING

Product description and typical applications

Pipe Acoustic Lagging is a high-performance sound sheathing material consisting of a mass loaded flexible vinyl bonded to foil facing, with a decoupling layer. It is designed to reduce noise break-out from pipes, valves, fan housings and ductwork in commercial, industrial and domestic buildings.

The unique construction of Pipe Acoustic Lagging means it acts as both a noise barrier as well as a noise absorber, thereby providing dual benefits. Its highly dense and flexible mass layer provides excellent sound reduction properties, whilst its decoupling layer breaks the vibration path between the substrate and the mass barrier, thus allowing the vinyl external wrap to remain flexible to optimise performance. The external foil facing offers a fire resistant covering and an excellent surface to join adjacent sheets.

Physical characteristics

Density kg/m ²	Thickness mm	Roll size m x mm	m ² per roll	Operating temperature range °C
5	25	5 x 1350	6.75	-40 to 100 (Continuous)
				-40 to 120 (Intermittent)

Acoustic performance - insertion loss

Weighted	100Hz TO 10kHz 1/3 Octave	100Hz TO 5kHz 1/3 Octave
Linear	22.5dB	21.0dB
A Weighted	25.0 dB(A)	25.0 dB(A)

Acoustic test results

Test	Description	Results
Renzo Tonin (Report Number TA 129-07F03)	Insertion Loss (System)	> Rw45
Marshall Day Acoustics (Report Lt 01 R02 2010167 29 April 2010)	Deemed to comply system Section F5.6 of the current Australian Building Code (2005)	Meets, Rw + Ctr 40 for habitable rooms Meets, Rw + Ctr 25 non-habitable rooms
PKA Acoustic Consulting (PKA-A078)	AAAC Star Rating	6 Star*
Day Design (Report Number 4613-3B)	Insertion Loss (A-weighted)	23.5 dB(A)

*Testing is in line with AS-NZS Recommended Noise Levels for Areas of Occupancy in Buildings.

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Total volatile organic compounds

Test	Description	Results
ASTM D5116 (Report No. CV 100812)	TVOC Specific area emission rate	0.08mg/m2/hr

This product can be classed as low VOC-emitting. The material emissions are less than the recognised threshold of 0.5 mg/m2/hr. e.g. "Green Star".

Zero Ozone Depletion

Pipe Acoustic Lagging contains no ozone-depleting substances and complies with European and Australian standards for Volatile Organic Compound emissions.

Flammability properties

Test Method	Index	Results	Description
AS 1530.3 1999 (Report No. 7-526320-CN)	Ignitability	0	Method for fire tests on building materials, components and structures.
	Spread of Flame	0	
	Heat evolved	0	
	Smoke Developed	2	

Specification notes

The material shall be Fletcher Insulation™ Pipe Acoustic Lagging with a density of 5kg/m².

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