

# TECHNICAL DATA SHEET

## SOUNDLAG 4525C ACOUSTIC PIPE LAGGING

### Product description and typical applications

SoundLag 4542C is a high-performance sound sheathing material consisting of a mass loaded flexible vinyl bonded to foil facing, with a foam 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 SoundLag 4542C 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 mass barrier 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 using Foil Tape.

### Physical characteristics

Density kg/m <sup>2</sup>	Thickness mm	Roll size m x mm	m <sup>2</sup> per roll	Operating temperature range °C
5	25	3 x 1350	4.05	-40 to 100 (Continuous)
				-40 to 120 (Intermittent)

Density kg/m <sup>2</sup>	Thickness mm	Piece size mm	Pieces per pallet	Pieces per pack
5	25	240 x 1350	150	10
		280 x 1350	150	10
		320 x 1350	150	10
		400 x 1350	150	10
		480 x 1350	150	5
		660 x 1350	50	5

### Material Properties

Test method	Property	Report	Results
AS/NZS 15303	Ignitability,*flame propagation, heat and smoke release	16-004295	0,0,0,1
AS/NZS 3837, ISO 5660-1 & ISO 5660-2	25.0 dB(A)	FH 5997-T0	Group 3
ASTMC518	Fire hazard properties	DI0324/DU01	0.0476W/mK
BS 476 Part 6	Thermal conductivity	381636	Class 0 foil facing
BS 476 Part 6	Surface spread of flame	381638	
ASTM D5116	TVOC specific area emission rate	CV 100812	Emissions are less than the Green Star recognised threshold of 0.5 mg/m <sup>2</sup> /hr



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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

SoundLag 4525C contains no ozone-depleting substances and complies with European and Australian standards for Volatile Organic Compound emissions.

## Acoustic performance

Test Method	Report	Results
Insertion loss (single layer)	ATF750B	25 dB
Insertion loss (double layer)	nss22253b	29 dB
BCA (Building Code of Australia) Compliance Section F5.6 - Non-habitable room	Lt 01 r02 2010167	Compliant (with no ceiling)
BCA (Building Code of Australia) Compliance Section F5.6- Habitable room	Lt 002 20161709	Compliant (with 1 0 mm thick standard plasterboard, no insulation)
MAC Rating (Association of Australian Acoustic Consultants - Apartment and Townhouse Acoustic Rating)	PKA-A186	6 Star Rating
ISO 10140	189 (rev l)c	Rw 28, STC 28 (barrier layer only)

Weighting	Insertion Loss
Linear	21.6 dB
A Weighted	25.2 dB

## Sound power level

Frequency (Hz)	Bare Pipe (dBA)	4525C (dBA)
100	19.7	14.2
125	26.5	18.0
160	23.5	20.8
200	25.0	23.0
250	29.3	24.1
315	32.8	27.0
400	37.5	29.3
500	40.9	30.1
630	46.5	31.1
800	49.1	32.0
1000	54.3	34.1
1250	57.0	34.5
1600	56.7	32.6
2000	57.4	30.0
2500	58.1	27.2
3150	59.1	25.0
4000	59.6	23.4
5000	56.9	21.2
6300	53.0	11.6
8000	49.7	0.0
10000	45.2	0.0
<b>Sum</b>	<b>67.1</b>	<b>41.9</b>

## Insertion loss

Frequency (Hz)	4525C (dBA)
100	5.6
125	8.5
160	2.7
200	2.0
250	5.2
315	5.8
400	8.2
500	10.8
630	15.4
800	17.2
1000	20.2
1250	22.4
1600	24.1
2000	27.4
2500	30.9
3150	34.1
4000	36.3
5000	35.7
6300	41.4
8000	49.8
10000	45.7
<b>Insertion Loss</b>	<b>25.2</b>

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