

## SOUNDLAG™

### acoustic pipe and duct lagging

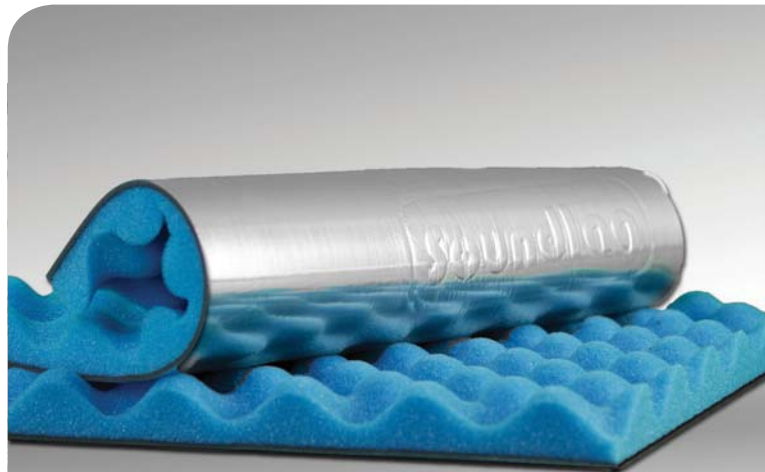
Soundlag is a high-performance composite acoustic lagging product developed to reduce noise from pipes, valves, fan housings and ductwork in commercial, industrial and domestic buildings.

The highly dense and flexible mass layer provides excellent sound reduction properties, whilst the decoupling layer breaks the vibration path between substrate and the mass barrier, allowing the vinyl external wrap to remain flexible - optimising performance. The external foil facing offers a fire resistant covering and an excellent surface to join adjacent sheets.

Pyrotek® offers varying compositions with barrier weights from 3 kg/m<sup>2</sup> to 8 kg/m<sup>2</sup> and the decoupling layer with a choice of foam (plain or convoluted), polyester, fibreglass, glass wool or quilted glass wool with thicknesses from 6 mm to 50 mm.

### SPECIFICATIONS

Colour	Aluminium faced, blue foam backing
Available	Standard roll size: 1350 mm x 5000 mm <i>Various roll sizes available including:</i> 675 mm x 5000 mm, 1350 mm x 3000 mm, 1350 mm x 20 000 mm
	or custom depending on MOQ



### applications

- Hydraulic and waste water pipes
- Air-conditioning ducting and shrouds
- Compressor wraps
- Spa motor wraps

### features

- Free from odour producing oils and bitumen
- Contain no ozone depleting substances
- Accredited to ISO 9001 Quality Control Standard
- Tested to AS 1530.3 with excellent flame resistance
- Broad operating temperature range
- Reduces the noise in hydraulic and waste pipes by up to 25.2 dB(A)
- Varying range of weights and thicknesses
- Choice of foam, polyester, fibreglass, glass wool or quilted glass wool
- Can cut to size and simple to install
- Easy to bond - matching Tape ALR or equivalent
- Endorsed and tested by leading acoustic consultants and engineers



## PRODUCT SPECIFICATIONS

Product name	Standard thickness (mm)	Standard Roll Width (mm)	Standard Roll Length (m)	Roll weight (kg)	Barrier weight (kg/m <sup>2</sup> )	Thermal conductivity (w/mk)	Operating temperature range °C
Soundlag 4525C	25	1350	5	36	5.0	0.0476*	- 40 to 100 (continuous) - 40 to 120 (intermittent)
Soundlag 4512	12	1350	5	30	4.5	-	
Soundlag 4525GW	25	1350	5	36	4.5	-	

Tolerances: Length: - 0/+50mm; Width: - 0/+5mm; Thickness: +/- 3mm; Weight: +/- 5%

\* Tested to ASTM C 518 -Report No. BRANZ D10324

## MATERIAL PROPERTIES

Product	Test method	Property	Report No.	Results
Soundlag 4525C	AS 1530.3	Ignitability, flame propagation, heat and smoke release	16-004295	0, 0, 0, 1
	AS 5637.1 (AS 3837 / ISO 5660-1)	Fire hazard properties	FH5997-TO, FH5997-TT	Group 3
	ASTM D 5116	TVOC Specific area emission rate	CV 100812	Emissions are less than Green Star recognised threshold of 0.5mg/m <sup>2</sup> /hr
Soundlag 4512	AS/NZ 3837 & ISO 5660-1	Heat and smoke release rates	FH5242-TT	Group 3
	BS 476 Part 7	Surface spread of flame	325819	Class 1
	UL 94 – HF	Flammability of plastic materials	7-547751-CV	HFB
Soundlag 4525GW	BS 476: Part 7	Surface spread of flame	325818	Class 1

## ACOUSTIC PERFORMANCE

Product	Test method	Report	Results
Soundlag 4525C	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 10 mm thick standard plasterboard, no insulation)
	AAAC Rating (Association of Australian Acoustic Consultants - Apartment and Townhouse Acoustic Rating)	PKA-A186	6 Star rating

Product	Weighting	Insertion Loss
Soundlag 4525C	Linear	21.6 dB
	A Weighted	25.2 dB
Soundlag 4512	Linear	20 dB
	A Weighted	23 dB
Soundlag 4525GW	Linear	17.3 dB
	A Weighted	20.5 dB

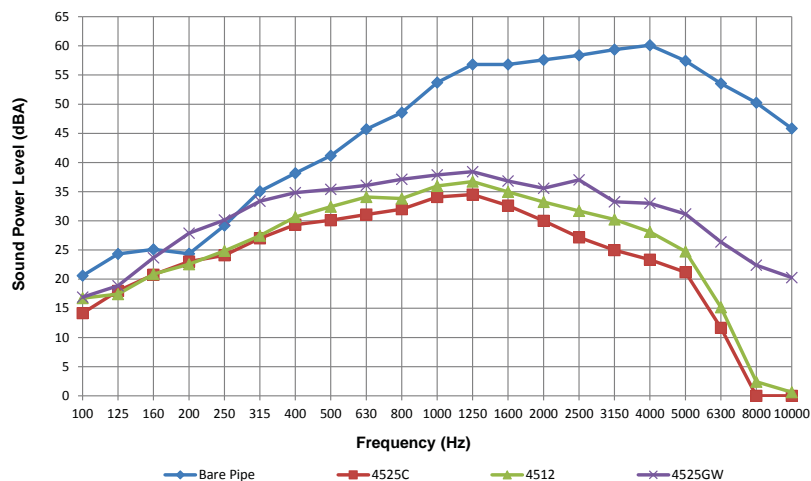
### ACOUSTIC PERFORMANCE

Frequency (Hz)	Bare pipe (dBA)	4525C (dBA)	4512 (dBA)	4525GW (dBA)
100	20.6	14.2	16.7	16.9
125	24.3	18.0	17.4	18.9
160	25.1	20.8	20.9	23.7
200	24.4	23.0	22.6	27.9
250	29.2	24.1	24.8	30.1
315	35.1	27.0	27.4	33.4
400	38.2	29.3	30.7	34.8
500	41.2	30.1	32.4	35.4
630	45.7	31.1	34.1	36.1
800	48.5	32.0	33.8	37.1
1000	53.7	34.1	36.0	37.9
1250	56.8	34.5	36.7	38.4
1600	56.8	32.6	35.0	36.8
2000	57.6	30.0	33.3	35.6
2500	58.4	27.2	31.7	37.0
3150	59.4	25.0	30.2	33.3
4000	60.1	23.4	28.1	33.0
5000	57.4	21.2	24.8	31.2
6300	53.5	11.6	15.2	26.4
8000	50.3	0.0	2.4	22.4
10000	45.8	0.0	0.6	20.3
Sum	67.3	41.9	44.2	47.2

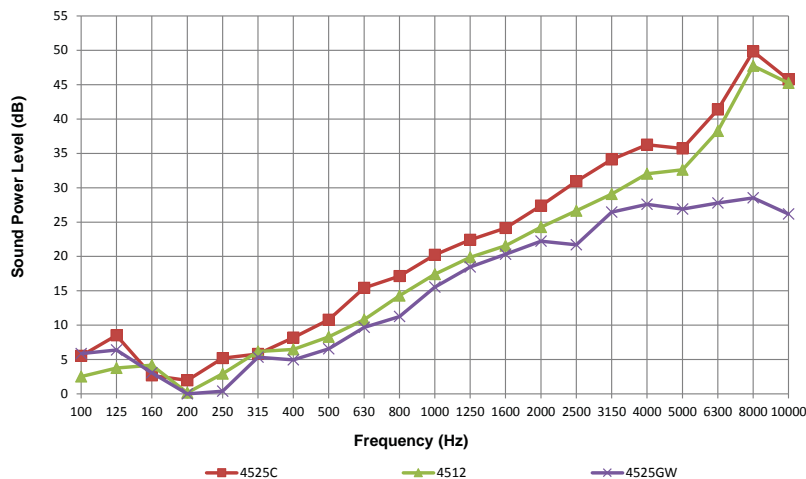
Tested at National Acoustic Laboratories, Australia  
Report Number: ATF750B, ATF 750C & ATF749B

Frequency (Hz)	4525C (dB)	4512 (dB)	4525GW (dB)
100	5.6	2.5	5.9
125	8.5	3.8	6.4
160	2.7	4.2	3.1
200	2.0	0.2	0.0
250	5.2	2.9	0.4
315	5.8	6.2	5.3
400	8.2	6.5	5.0
500	10.8	8.3	6.6
630	15.4	10.8	9.7
800	17.2	14.3	11.3
1000	20.2	17.4	15.5
1250	22.4	19.9	18.5
1600	24.1	21.6	20.3
2000	27.4	24.3	22.2
2500	30.9	26.7	21.7
3150	34.1	29.1	26.5
4000	36.3	32.0	27.6
5000	35.7	32.6	26.9
6300	41.4	38.3	27.8
8000	49.8	47.7	28.5
10000	45.7	45.2	26.2
Insertion Loss	25.2	23.0	20.5

### Sound Power Level



### Insertion Loss



For further information  
and contact details,  
please visit our website  
[pyroteknc.com](http://pyroteknc.com)

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See [www.pyroteknc.com/disclaimer](http://www.pyroteknc.com/disclaimer).

