

# SOUNDLAG™

## foam-based pipe and duct lagging

Soundlag is a highly flexible foam-based composite acoustic pipe lagging product. It was developed to reduce breakout noise from wastewater pipes, valves, fan housings and ductwork in commercial, industrial and residential buildings.

The product range complies to international fire standards to meet fire safety demands in buildings. All Soundlag products are also equipped with a aluminium foil facing that achieves a Class 0 rating.

Soundlag 4525C provides an optimal soundproofing solution for those seeking compliance to BCA (Building Code of Australia) F5.6 requirements for habitable and non-habitable rooms. Based on test results, Soundlag™ 4525C can offer a significantly higher performance of up to 5 dB(A) compared to low noise pipe products especially in areas with no ceiling or with penetrations.

The highly dense flexible mass layer delivers excellent sound reduction properties. Soundlag's decoupling layer breaks the vibration path between the substrate and the mass barrier, allowing the vinyl wrap to remain flexible - optimising performance.

Pyrotek Soundlag is available in a variety of compositions to meet customer requirement. Barrier weights are available in 3 kg/m<sup>2</sup> to 5 kg/m<sup>2</sup> with convoluted foam, plain foam, polyester or glass wool backing in thicknesses ranging from 6 mm to 50 mm.



## applications

- Wastewater pipes
- Hydraulic pipes
- Compressor and pump wraps
- HVAC
- Fan housings

## features

- Better performance - up to 5 dB(A) with Soundlag 4525C compared to low noise pipe products without ceiling or areas with penetrations
- Class 0 aluminium foil facing
- Tested to AS/NZS 1530.3 with excellent flame resistance (4525C)
- Soundlag range complies to international fire standards
- Broad operating temperature range
- Reduces the noise in hydraulic and wastewater pipes by up to 25.2 dB(A)
- Free from odour producing oils and bitumen
- Contain no ozone depleting substances
- Choice of blue convoluted foam, grey plain foam, polyester or glass wool
- Simple to install - can be cut to size
- Easy to bond - matching Tape ALR or equivalent
- Endorsed and tested by leading acoustic consultants and engineers

## SPECIFICATIONS

Colour	Silver (Aluminium foil facing) Blue convoluted (Soundlag 4525C) Plain grey foam (Soundlag 4512)
Available	Standard roll size: 1.35 m x 5 m (4.4 ft x 16.4 ft)  Various roll sizes available including: 0.675 m x 5 m (2.2 ft x 16.4 ft), 1.35 m x 3 m (4.4 ft x 9.8 ft), and 1.35 m x 20 m (4.4 ft x 66 ft)
	Custom sizes available depending on MOQ



**PRODUCT SPECIFICATIONS**

Product	Standard thickness	Standard roll weight	Standard roll size	Barrier weight	Operating Temperature range
Soundlag 4525C	25 mm (0.98 in)	37 kg (82 lb)	1.35 x 5 m (4.4 ft x 16.4 ft)	5 kg/m <sup>2</sup> (1 lb/ft <sup>2</sup> )	Continuous: -40 to 100 °C (-40 to 212 °F) Intermittent: -40 to 120 °C (-40 to 248 °F)
Soundlag 4512	14 mm (0.55 in)	36 kg (79 lb)			

Tolerances: Length: ±1%, Width: -0/+5 mm (0.2 in), Thickness: ±5 mm (0.2 in), Weight: ±10%

**MATERIAL PROPERTIES**

Product	Test method	Property	Report	Results
Soundlag 4525C	AS/NZS 1530.3	Ignitability, flame propagation, heat and smoke release	16-004295	0,0,0,1
	AS/NZS 3837, ISO 5660-1 & ISO 5660-2	Fire hazard properties	FH 5997-T0	Group 3
	ASTM C518	Thermal conductivity	DI0324/DU01	0.0476 W/mK
	BS 476 Part 6	Fire propagation	381636	Class 0 foil facing
	BS 476 Part 7	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
Soundlag 4512	AS/NZS 3837, ISO 5660-1 & ISO 5660-2	Fire hazard properties	FH 5242-TT	Group 3
	UL 94	Flammability of plastic materials	7-547751-CV	HBF
	BS 476 Part 6	Fire propagation	381636	Class 0 foil facing
	BS 476 Part 7	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

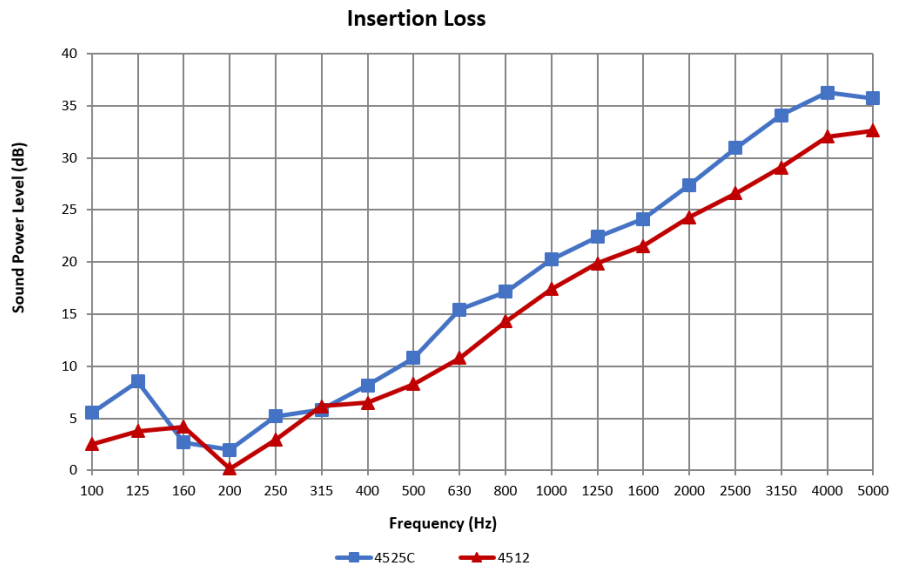
## ACOUSTIC PERFORMANCE

Product	Test	Report	Result
Soundlag 4525C	Insertion loss (single layer)	ATF750B	25 dB
	Insertion loss (double layer)	nss22253b	29 dB
	NCC BCA Volume 1 F5.6 - Sound insulation rating of internal services: Habitable room	Lt 002 20161709	Suitable with ≥10 mm plasterboard*
	NCC BCA Volume 1 F5.6 - Sound insulation rating of internal services: Non-habitable room	Lt 01 r02 2010167	Suitable without ceiling*
	AAAC Rating (Association of Australasian Acoustical Consultants - Apartment and Townhouse Acoustic Rating)	PKA-A186	6 Star Rating
	Transmission loss (ISO 15186-1 & ISO 10140-4)	189 (rev 1)c	Rw 28, STC 28 (barrier layer only)
Soundlag 4512	Insertion loss (single layer)	ATF750C	23 dB
	Transmission loss (ISO 15186-1 & ISO 10140-4)	189 (rev 1)c	Rw 28, STC 28 (barrier layer only)

\*Please see report for further information

Frequency (Hz)	4525C (dB)	4512 (dB)
100	5.6	2.5
125	8.5	3.8
160	2.7	4.2
200	2.0	0.2
250	5.2	2.9
315	5.8	6.2
400	8.2	6.5
500	10.8	8.3
630	15.4	10.8
800	17.2	14.3
1000	20.2	17.4
1250	22.4	19.9
1600	24.1	21.6
2000	27.4	24.3
2500	30.9	26.6
3150	34.1	29.1
4000	36.3	32.0
5000	35.7	32.6
Insertion Loss	25	23

Tested at National Acoustic Laboratories, Australia  
Report Numbers: ATF750B, ATF750C



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 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 [pyroteknc.com/disclaimer](http://pyroteknc.com/disclaimer).

