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^2 to 8 kg/m^2 with convoluted foam, plain foam, polyester or glass wool backing in thicknesses ranging from 6 mm to 50 mm.

Alternative colour options to the reinforced aluminium facing are black and white foil. These anti-glare foil colours are suitable for exposed ceiling spaces.

VOC, ODP, HEALTH AND SAFETY

Soundlag is non-toxic and safe to handle by methods prescribed in the Safety Data Sheet. No ozone depleting substances are used during the manufacture of Soundlag.

SPECIFICATIONS

Colour	Silver (Aluminium foil facing) Blue convoluted (Soundlag 4525C) Plain grey foam (Soundlag 4512) *(Available with black and white foil)*
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)*
	Custom sizes available depending on MOQ

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

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/m² (1 lb/ft²)	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)		4.5 kg/m² (0.92 lb/ft²)	

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/m²/hr
	AS 4964	Asbestos Testing	318653	No Asbestos Detected
Soundlag® 4512	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/m²/hr
	ISO 5660-1 & ISO 5660-2	Fire hazard properties	FH 5242-01-2	Group 3

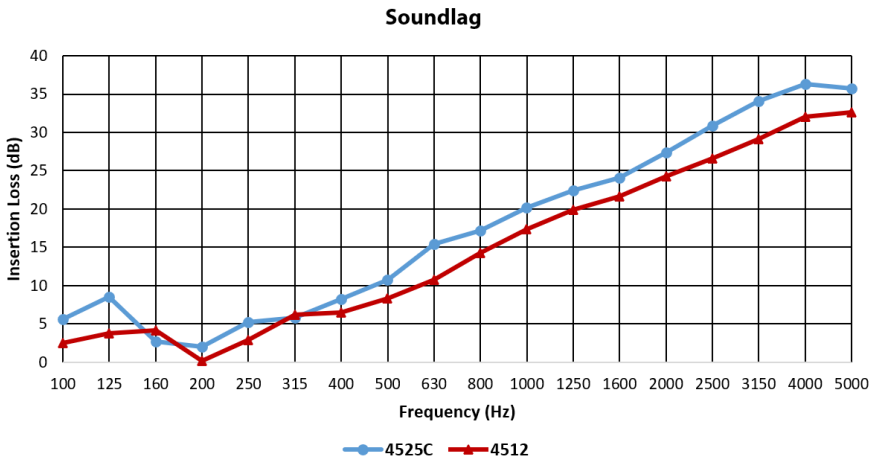
ACOUSTIC PERFORMANCE

Product	Test	Report	Result
Soundlag® 4525C	Insertion loss (single layer)	ATF750B	25 dB(A)
	Insertion loss (double layer)	nss22253b	29 dB(A)
	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(A)
	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 dB(A)	23 dB(A)

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



For further information and contact details, please visit our website pyroteknc.com