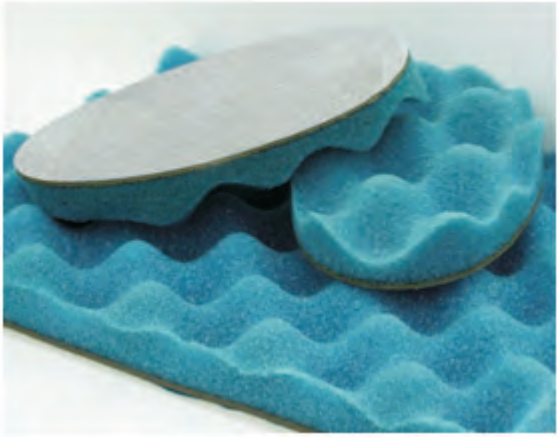
Acoustic Pipe Wrap



Soundlag 8025C is specifically designed as a high performance acoustic pipe wrap to minimise noise emission from waste and hydraulic pipes in all building applications. It can also be used to wrap compressors spa motors and as an additional acoustic lagging on air conditioning ducts and shrouds.

Soundlag 8025C consists of a 8kg/m^2 foil faced barrier applied to a 25mm thick convoluted, hydrolysis resistant, highly combustion modified, acoustic foam backing.

The combination of these materials provides excellent sound transmission loss results as well as a “four zero” fire rating.

The Australian Building Code requires Rw ratings of 30 and 45 in non-habitable and habitable rooms respectively.

Soundlag 8025C is part of a series of acoustic pipe wrap products manufactured by Pyrotek.

The additional mass of Soundlag 8025C over other acoustic lagging systems means that a further improvement in acoustic performance will be apparent, through the enhanced transmission loss, especially in the low frequency range.

Soundlag 8025C is easily cut with a knife or scissors to size, minimising wastage.

FEATURES

- Reduces the noise in hydraulic and waste pipes by up to 25dB(A)
- Broad operating temperature range
- Four zero rating to AS 1530.3
- Chemical resistant (except for the aluminium foil outer)
- Can be cut to size
- High light and heat reflective facing

APPLICATIONS

- Hydraulic and waste pipes in all locations
- Air-conditioning ducting and shrouds
- Compressor wraps
- Spa motor wraps

BENEFITS

- Excellent acoustic performance
- Maximises noise control by providing high sound absorption (reverberation control) and superior transmission loss
- Excellent flame resistance
- Long useful life
- Easy to cut
- Easy to install

STANDARD PRODUCT CODES

STANDARD PRODUCT	Thickness	ROLL SIZES	WEIGHT
SOUNDLAG 8025	27 (+ /-2) mm nominal	5m X 1.350	8kg/m^2

FLAMMABILITY PROPERTIES

MATERIAL	AS 1530.3			
	Ignitability	Spread of Flame	Heat Evolved	Smoke Developed
SOUNDLAG	0	0	0	0-1

MISCELLANEOUS PROPERTIES

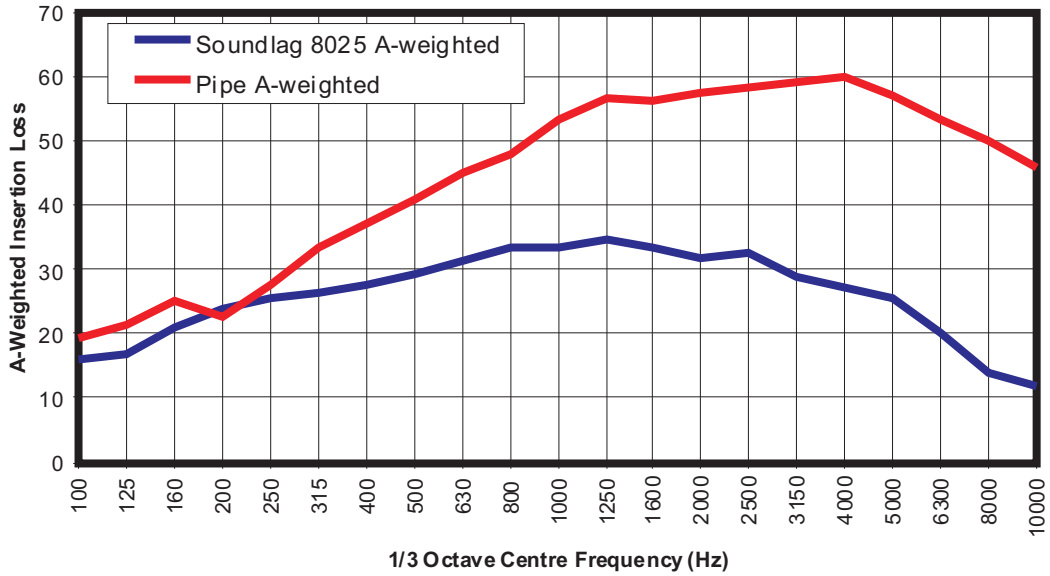
MATERIAL	Maximum Continuous Operation Temperature	Maximum Intermittent Operation Temperature
SOUNDLAG	80°C	120°C

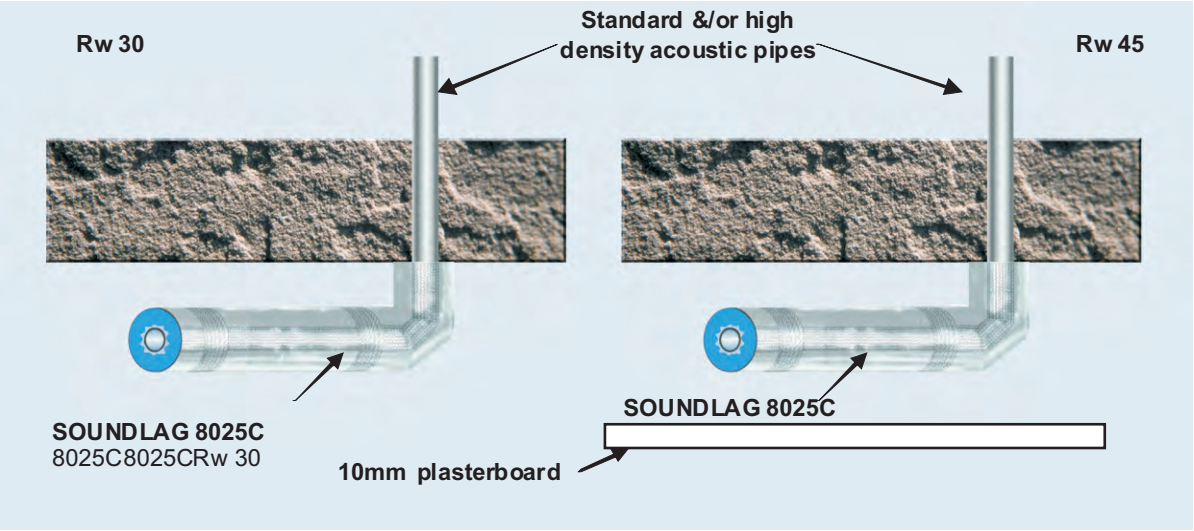
INSERTION LOSS

Results from testing at NAL Report ATF750F

Frequency (Hz)	Soundlag 8025 (A-weighted)	Pipe (A-weighted)	1/3 octave Insertion Loss	Rw	NRC
100	15.9	19.26	3.36	21.1	0.05
125	16.73	21.2	4.47	19.7	0.10
160	21.06	25.06	4	20.5	0.15
200	23.82	22.76	-1.06	19.4	0.20
250	25.62	27.76	2.14	20.6	0.30
315	26.26	33.62	7.36	22.4	0.40
400	27.7	37.15	9.45	24.5	0.50
500	29.35	40.73	11.38	25.3	0.70
630	31.59	44.91	13.32	26.5	0.75
800	33.36	48.1	14.74	27.9	0.95
1000	33.46	53.39	19.93	30.0	1.00
1250	34.88	56.59	21.71	31.7	1.10
1600	33.37	56.52	23.15	33.5	1.10
2000	31.98	57.53	25.55	35.4	1.10
2500	32.54	58.35	25.81	36.5	1.05
3150	28.71	59.31	30.6	38.4	0.90
4000	27.23	60.16	32.93	40.0	0.90
5000	25.5	57.36	31.86	41.6	

A- Weighted Insertion Loss of Bare Pipe versus pipe lagged with SOUNDLAG 8025





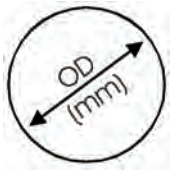
Pipes correctly lagged with Soundlag 8025C within the right structure achieve in excess of the above results. The diagrams outlined above are systems provided by Peter Knowland Acoustic Consultants (PKA), based on the actual test results (ATF 750F Report) of Soundlag 8025C carried out at the National Acoustic Laboratory (NAL), in Sydney.

Field tests were conducted at the Walsh Bay acoustic test facility whereby a bathroom system comprising of a toilet, basin and floor waste was installed on top of the test facility with PVC soil and waste pipes penetrating the concrete slab and passing through the receiving room. Tested in accordance to International Standard ISO 140-1, 1997.

INSTALLATION PROCEDURE

Step 1

Measure the length and diameter of the pipe requiring lagging.



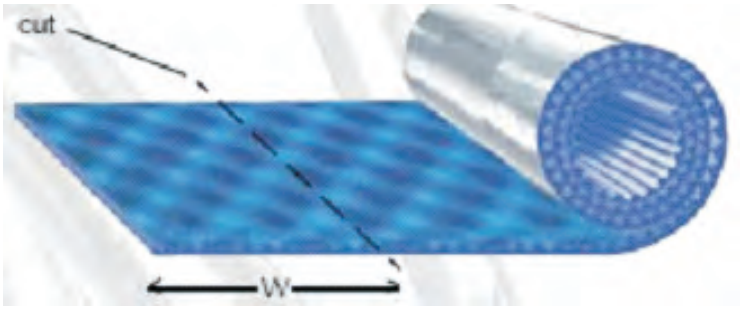
Step 2

To calculate the required width of Soundlag apply the formula below.

WIDTH = л x (OD + (2 x T)) + OL

where: OD = outside diameter of the pipe
Л = 3.14
T = thickness of Soundlag (25mm nom.)
OL = Overlap (50mm)

Example
For 100 mm pipe + Soundlag
W = 3.14 x (100 + (2 x 25)) + 50 = 521mm

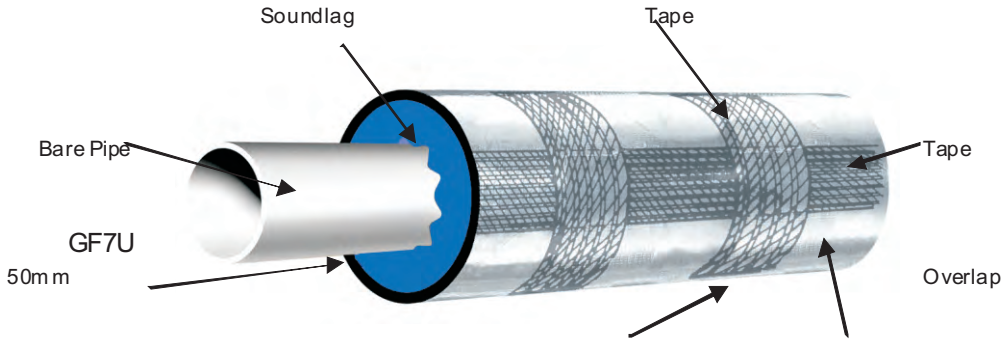


Step 3

Once the width is calculated Soundlag can easily be cut with a sharp knife or scissors.

Step 4

Wrap Soundlag around the pipe and use high quality aluminium tape.
(complying with AS1530.3 Four Zero Fire Rating) to join the product together.
All joins must be overlapped by 50mm to ensure a good acoustic seal.



Reccommended spacing 650mm apart

Butt joints 50mm overlap
Or 50mm strip of Soundlag 45

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