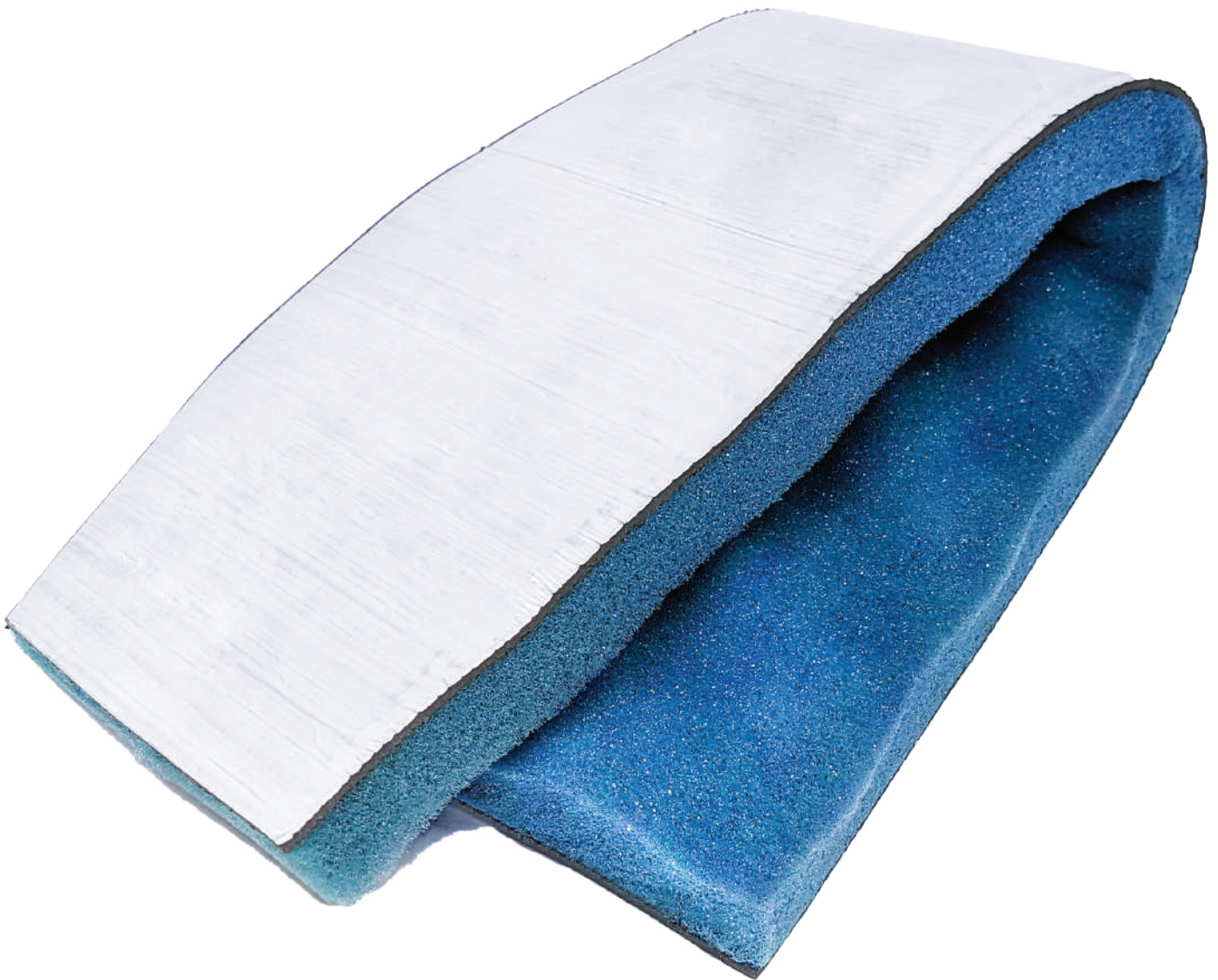
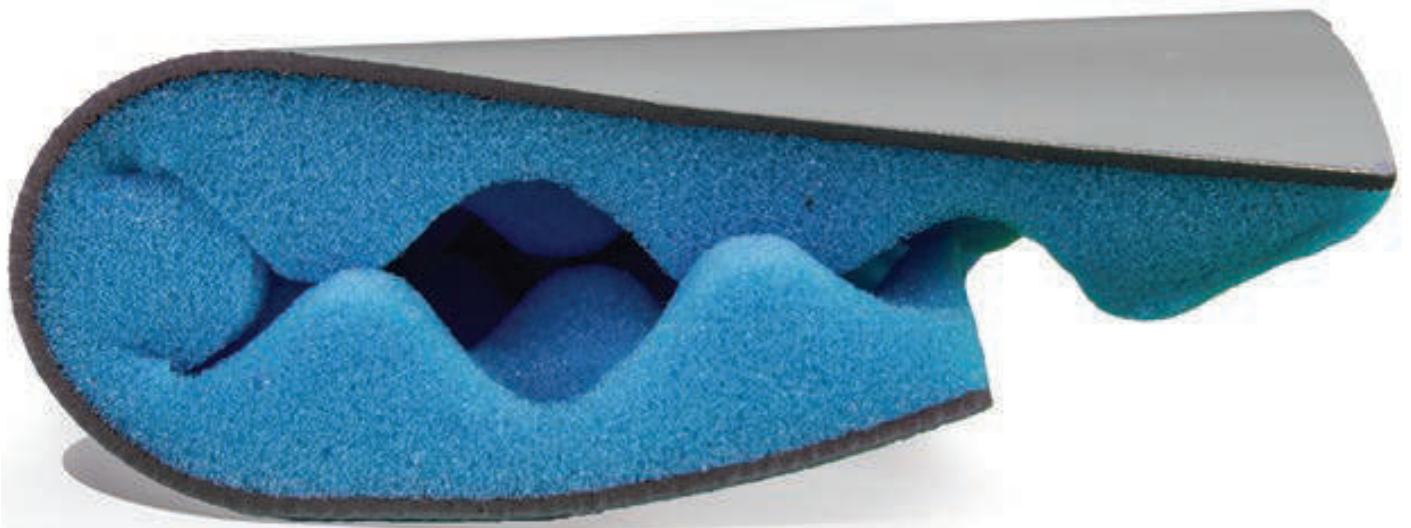




SOUNDLAG



NOISE ABSORBER AND NOISE BARRIER



Soundlag 4525C is a pipe wrap comprising of 5 kg/m² flexible acoustic barrier bonded to 25 mm thick flexible convoluted foam. The function of the foam is to provide acoustic decoupling between the pipe's noise energy and the 5 kg/m² flexible acoustic barrier external wrap, resulting in superior performance. The external face of the barrier is bonded to an aluminum foil providing a fire resistant covering.

SOLUTION/APPLICATION

Soundlag 4525C has been developed as an easy to use acoustic treatment that reduces noise breakout from pipes. The unique flexibility of the polymer-based noise barrier provides superior performance and allows even the smallest pipes to be lagged effectively. It is independently tested in laboratory conditions and in situ to give proven consistent performance. Leading consultants specify Soundlag 4525C with confidence.

Low maintenance with a long service life, the aluminium foil facing provides a robust lifetime surface finish, ensuring protection from damage and improved fire resistance.

- Easiest pipelag product on the market to cut, wrap & install
- Most widely specified by leading acoustic & EMP (electrical, mechanical & plumbing) consultants.
- Highly flexible, allowing it to conform to the smallest diameter pipes & bends (has no memory)
- No odour & non irritant
- No solvents or adhesives used during manufacture
- Complies with building standard regulations for low VOC emission
- Ten year warranty
- Available world wide

FOIL FACING

Soundlag 4525C uses a strong aluminium foil facing, giving improved fire resistance and increased mechanical strength.

NOISE BARRIER (5 kg/m²)

The Soundlag 4525C acoustic barrier reduces noise through its unique construction. The specialist fillers create a heavy flexible mass barrier, maximising noise reduction.

Soundlag's uniquely flexible and naturally inert nature allows effective, easy installation, essential in achieving a noise-tight seal.

CONVOLUTED FOAM

The foam provides a decoupling layer which breaks the vibration path allowing the noise barrier to continue to perform in a limp unconstrained manner. Soundlag has enough inherent flexibility to allow convoluted foam to be used, improving fit-out quality on traps and joins.

The polyether foam used in the manufacture of Soundlag products is non-fibrous, will withstand the effects of moisture (hydrolysis resistant), displays excellent acoustic characteristics and has a long service life.



CONSTRUCTION OPTIONS

Extensive research has enabled Soundlag 4525C to maximise results while remaining cost effective. However, if extra barrier weights or a variation in foam thickness is required, consult your local Drillfast representative for special orders. Soundlag dBX now available on request (PVC free). Precut pieces for bends, junctions and floor waste gullies can be produced from templates available on request.

**BCA (Building Code of Australia)**

Compliance Section F5.6 - Non-habitable room (No Ceiling)

BCA (Building Code of Australia)

Compliance Section F5.6 - Habitable room (with 10 mm plasterboard, no insulation)

AAAC 6 STAR RATED

Association of Australian Acoustic Consultants (80 mm polyester or 50 mm glass wool with 10 mm thick plasterboard)

Certified to reduce noise breakout by 25 dB(A)

Excellent acoustic performance

SYSTEM DESIGN CONSIDERATIONS

When designing a system using Soundlag 4525C, penetrations through ceilings must be taken into account to ensure effective sound reduction especially from down-lights, air conditioning ducting, access hatches and where lightweight ceilings such as mineral fibre tiles are used.

DID YOU KNOW?

Manufacturers of HDPE and HDPP heavy density acoustic pipes also recommend acoustically lagging pipes with products such as Soundlag 4525C to comply with building codes.

INSTALLATION

Soundlag 4525C is easily installed using a high quality, self adhesive, reinforced foil tape. To ensure a high quality fit-out, place 3 circumferential wraps of foil tape every 300 - 400 mm, i.e. 3 wraps per 1 m length of pipe.



Unwanted sound easily travels through any perforation such as lighting or ducting.

MATERIAL PROPERTIES

Available roll size	1350 x 3000 mm
Roll weight	22kg
Operating Temperature (maximum continuous)	100°C
Operating Temperature (maximum intermitted)	1220C
Flammability 0 A5 1530 part 3 1999	Ignitability 0
	Spread of flame 0
	Heat evolved 0
	Smoke devoloped 1
Green Star - ASTM D5116	Low VOC 0.08 mg/m ² /hr which is less than the recognized threshold of 0.5 mg/m ² /hr



Soundlag's flexibility is 1.3 x

When tested to ASTM D1388 for flexural rigidity (G)

- Faster, secure overlap, even on low diameter pipe
- Less pressure on tape, high durability
- Easier install, compliance and maintenance



Low VOC 0.08 mg/m²/hr

Less than the recognized threshold of 0.5 mg/m²/hr

- Free from odour producing oils and bitumen
- Contains no ozone depleting substances



AS 1530.3 Ignitability, flame propagation, heat and smoke release

Result 0, 0, 0, 1 rated to comply to AU building code

ISO 5660-1 Heat release, smoke production rate

Result Group 3 rated to comply to NZ building code



Fully accredited to ISO 9001 Quality Control Standard

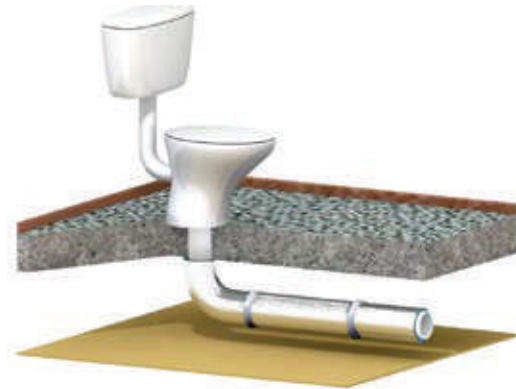
- Broad temperature range
- Local supplier

ACOUSTIC PERFORMANCE

Working with acoustic consultants, Soundlag was designed and tested on systems which achieved a high level of noise reduction for all plumbing and hydraulic situations. Soundlag 4525C has been acoustically tested in field and independent laboratories.



BCA Section F5.6 Compliant Non-habitable room



BCA Section F5.6 Compliant Habitable room

Product	Test	Report	Result
Soundlag 4525	CInsertion 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

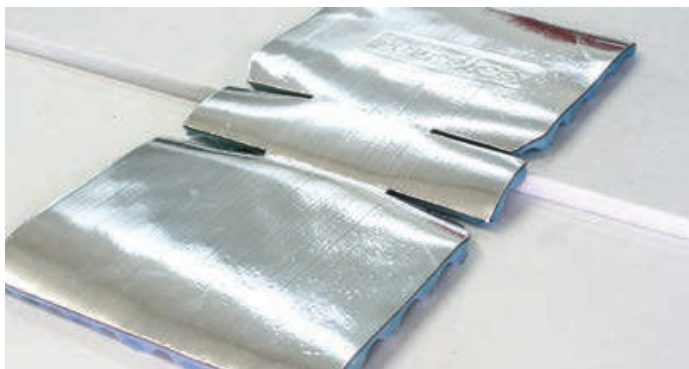
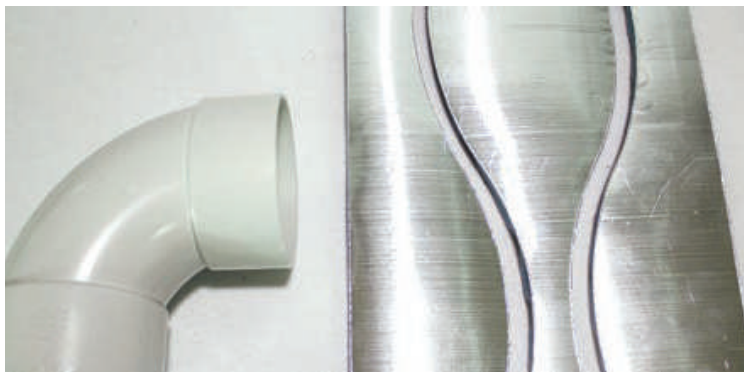
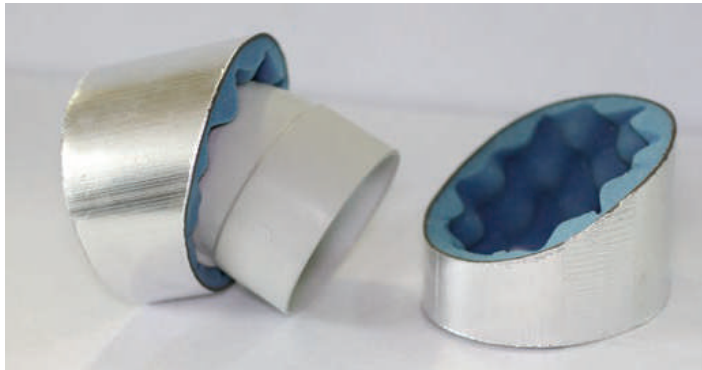
AUSTRALIAN BUILDING CODE REQUIREMENTS

Section F5.6 of the Building Code of Australia requires that:

"If a duct, soil, waste or water supply pipe, including a duct or pipe that is located in a wall or floor cavity, serves or passes through more than one sole-occupancy unit, the duct or pipe must be separated from the rooms of any sole - occupancy unit by construction with an RW + Ctr (airborne) not less than -

(i) 40 if the adjacent room is a habitable room (other than a kitchen); or (ii) 25 if the adjacent room is a kitchen or non-habitable room."

EXAMPLES OF CONFIGURATIONS FOR VARIOUS BENDS AND TYPICAL PIPE WRAPPING REQUIREMENTS



FIXING AND CUTTING

Nominal inside diameter	Outside diameter	Actual cut length	Coverage (m) 1.35m x 5m roll
32	36	260	25.5
40	43	280	23
50	56	320	20
65	69	360	17.5
80	83	405	16
100	110	500	13.5
150	160	650	9.5
225	250	930	7
300	316	1135	5
375	401	1400	4

This is an indicative calculation based on a minimal overlap

Soundlag 4525C is easily cut to size with a knife or scissors, minimising wastage. Simply wrap Soundlag 4525C around the pipe and then use high quality aluminium tape to join the product together. Drillfast recommends an overlap at all joins to eliminate potential flanking noise.



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