DARCO INDUSTRIES

acoustica®
the quiet Australian

GreenLAG®

Acoustic Pipe Lagging



www.darco.com.au

BARRIER

GreenLAG®

acoustic pipe lagging

GreenLAG® pipe lagging was developed to contain the intrusive noise generated by the turbulent flow of liquids through pipes, fittings and general noise break-out from ductwork, fan housings and valves in residential, commercial and industrial buildings.

Incorporating the 'QuietWave®' technology, a revolutionary noise barrier our tests have shown that a flexible and cellular structure noise barrier increases 'Vibration Dampening' and thus for a given weight and thickness will achieve

a better STL (Sound Transmission Loss).

This is one of the reasons GreenLAG® is substantially lighter than other thicker products.

Another direct consequence of material thickness, is the reduction of the 'Vibrations Radiating Surface', when lagged over pipe.

GreenLAG exceeds the acoustic requirements set out in the BCA 2011 (Ref. F5.6) for habitable & non-habitable rooms:

Exceeds Rw+Ctr 40 for habitable rooms
Exceeds Rw+Ctr 25 for non-habitable rooms

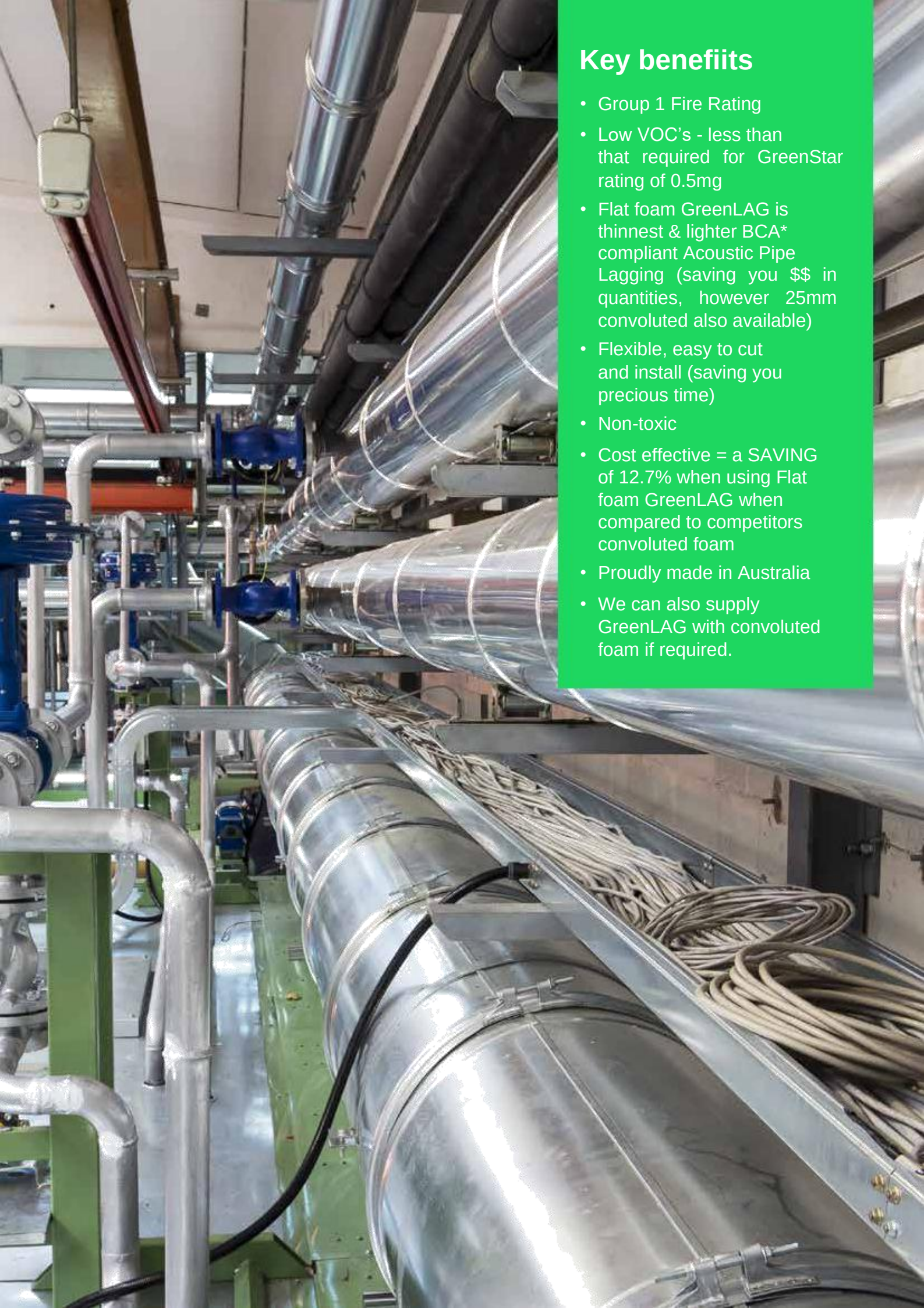
GreenLAG® ticks all the boxes for health, safety, ease and economy of installation, acoustic performance and material saving and conservation.

Health:

- Safe for workers, safe for building occupants
- Low VOC's - less than that required for GreenStar rating of 0.5mg

Safety:

- Barrier is Group 1 Fire Rated; fire protection is not dependent on additional layer.



Key benefiits

- Group 1 Fire Rating
- Low VOC's - less than that required for GreenStar rating of 0.5mg
- Flat foam GreenLAG is thinnest & lighter BCA* compliant Acoustic Pipe Lagging (saving you $$ in quantities, however 25mm convoluted also available)
- Flexible, easy to cut and install (saving you precious time)
- Non-toxic
- Cost effective = a SAVING of 12.7% when using Flat foam GreenLAG when compared to competitors convoluted foam
- Proudly made in Australia
- We can also supply GreenLAG with convoluted foam if required.

Description

GreenLAG® pipe lagging has a noise barrier with a microcellular structure. The flexible and cellular structure increases 'Vibration Dampening' and thus for a given weight and thickness will achieve a better STL (Sound Transmission Loss).

- A patented Visco-elastic acoustic barrier using the 'QuietWave technology'
- A 15mm or 25mm thick decoupling layer acoustic foam
- A special designed foil for improved durability

Available dimensions:

Standard Roll dimensions:
5mx1.3 & 3mx 1.3

Export Roll dimensions:
5mx1.3 & 3mx 1.3

Convoluted foam Roll:
5mx1.3 & 3mx 1.3

Please contact Acoustica to discuss your specific requirements.

Features

- Improved Vibration Damping with microcellular noise barrier and solid foam layer
- Reduced Installation time – a result of the resilience and flexibility of the microcellular QuietWave® noise barrier and the special solid foam decoupling layer
- Exceeds the acoustic requirements of The Building Code of Australia (BCA)
- Tough and tear resistant yet Easily cut and shaped

Applications

- Waste water & storm water pipes
- Hydraulic pipes
- Air-conditioning ducts
- Swimming pool/Spa pump lagging and enclosures
- Valves
- Fan housings

Compressor and
generator enclosures

Installation

Easily cut GreenLAG® with a knife or scissors to size, keeping wastage to a minimum.

Wrap GreenLAG® around the pipe overlapping all joints by 50mm (vertical & horizontal) to avoid potential flanking noise.

Wrap 3 circumferential wraps of high quality 48mm - 72mm wide reinforced aluminium tape (sold separately) at approximately every 350mm (ie. 3 wraps every 1m of pipe length) and tape along seams.

Ensure a minimum separation of 50mm between the pipe and the plasterboard ceiling for maximum effect.

Calculating the width (W)

W = **Π** x [OD + (2xT)] +50mm overlap

W = width of pipe lagging to go around the pipe

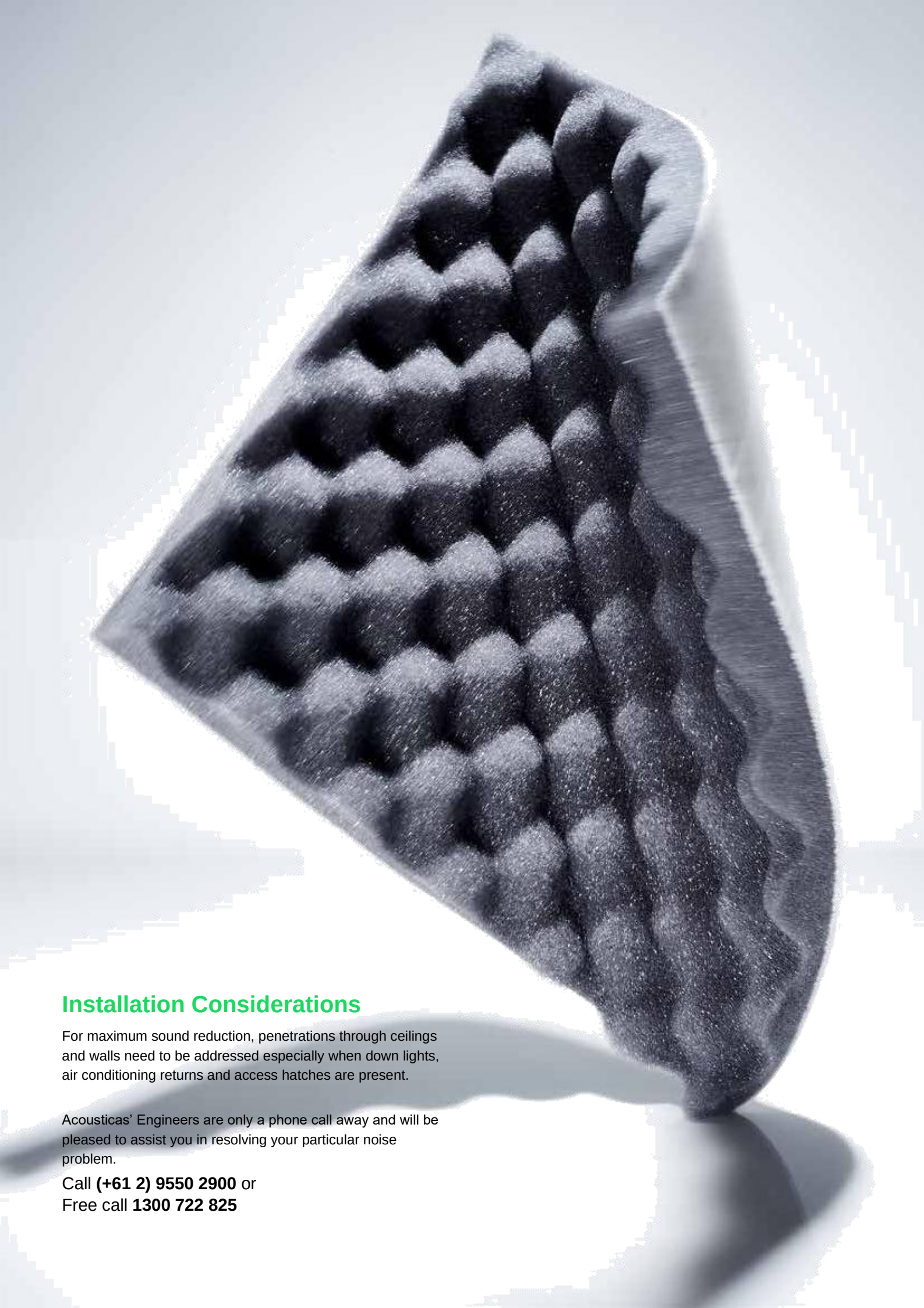
OD = Outside pipe Diameter T

= Pipe lagging thickness **Π** =

3.14







Installation Considerations

For maximum sound reduction, penetrations through ceilings and walls need to be addressed especially when down lights, air conditioning returns and access hatches are present.

Acousticas' Engineers are only a phone call away and will be pleased to assist you in resolving your particular noise problem.

Call **(+61 2) 9550 2900** or
Free call **1300 722 825**

Product Specifications

Name	Thickness (mm)	Standard Roll Size (mm) Standard	Area per Roll (m2)	Roll Weight (Kg/m)
GreenLAG®	18	1300x3000	3.9m	15 kg
GreenLAG®	18	1300x5000	6.5m	25kg
GreenLAG®	25	1300x3000	3.9m	16kg
GreenLAG®	25	1300x5000	6.5m	28kg

Acoustic Tests

Product	Test*	Description	Results Comparison of Noise Levels dB(A)	
			LAmax	**LAE**
GreenLAG®	Wilkinson Murray (Report No. 12127-3.5_15)	Bare Pipe with Rw+Ctr 40 ceiling/wall	37.7	44.5
		Pipe Lagged with wall 10mm std plasterboard	36.9	43.5

Maximum Noise Level (LAmax) - The maximum noise level over a sample period is the maximum level, measured on fast response, during the sample period.

LAE - The A Weighed Sound Exposure Level which is the noise level that would be generated if all the energy from a discreet noise event (e.g. a toilet flush) was compressed into 1 second.

DARCO INDUSTRIES

TRUST THE INDUSTRIAL INSULATION MATERIALS EXPERTS

Built on Trust, Focused on Quality

CORE CAPABILITIES & SOLUTIONS

- Thermal Insulation & Lagging Systems
- Acoustic & Noise Control Materials
- High-Temperature Textiles, Ropes & Seals
- Fire Protection Blankets, Curtains & Sleeves

ISO Quality Standards

Defense & Marine Grade

Industrial & Mining Rated

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