DARCO INDUSTRIES

acoustica®
the quiet Australian

AcoustiFlex SQ

The High-Performance Flexible Noise Barrier



BARRIER

AcoustiFlex®SQ flexible noise barrier is one of the most effective sound solutions on the market for aircraft noise, traffic and railway disturbance.

The AcoustiFlex®SQ range of noise barriers are highly effective against a wide variety of external noises such as from aircraft noise, motor vehicles, rail transportation, neighbouring properties, adjoining offices and noisy equipment.

AcoustiFlex®SQ can also greatly reduce noise at construction sites when hung from an overhead structure or draped over temporary fencing. It can easily be wrapped around noisy fans or pumps or used in walls or ceilings to reduce noise from adjacent rooms, improving the privacy of rooms within the home, offices, boardrooms or a practitioners' practice.

Now available as;

AcoustiFlex® SQ 25

AcoustiFlex® SQ 40

AcoustiFlex® SQ 60

AcoustiFlex® SQ 80



AcoustiFlex®SQ consists of a flexible micro-cellular membrane bonded to an aluminium facing foil and reinforced polyester backing.

The AcoustiFlex®SQ has extremely good sound attenuation over the full frequency spectrum.

Typically, the AcoustiFlex®SQ range achieves better results than competitors' products;

AcoustiFlex®SQ 25 equivalent to a 4kg competitor barrier

AcoustiFlex®SQ 40 equivalent to a 6kg competitor barrier

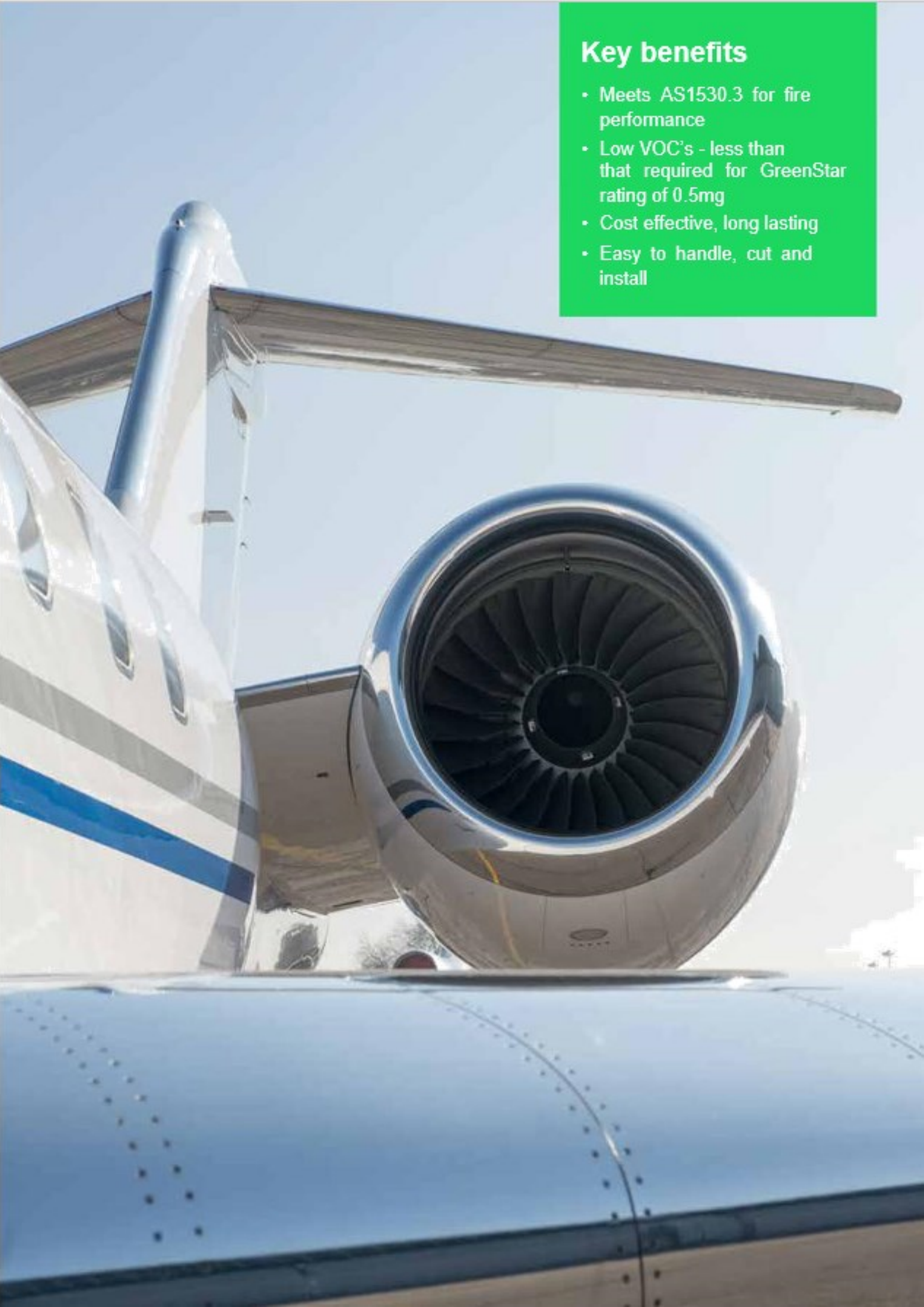
AcoustiFlex®SQ 60 equivalent to an 8kg competitor barrier

AcoustiFlex®SQ 80 equivalent to a 10kg competitor barrier

AcoustiFlex®SQ has been tested and certified by the

CSIRO Division of Materials Science and Engineering to

AS1530.3 standard for fire hazard properties



Key benefits

- Meets AS1530.3 for fire performance
- Low VOC's - less than that required for GreenStar rating of 0.5mg
- Cost effective, long lasting
- Easy to handle, cut and install

Features

- Proudly made in Australia
- High Acoustic Performance
- Lighter compared to competitor's alternatives for the same performance
- 10 year guarantee
- Easy to handle, cut and install
- Environmentally safe
- Low cost, long lasting
- Low VOCs (Less than a recognised threshold of 0.5mg 'Green Star')
- Available in different weights (other configurations available on request)

Applications

- Highly effective in ceilings/roofs against overhead aircraft noise and rain
- Reduces external noise from traffic, trains and neighbours by treating walls and ceilings
- Contains internal noise within home theatres, entertainment areas and machinery rooms
- Provides confidentiality and privacy in offices, meeting rooms, doctors and lawyers consulting rooms

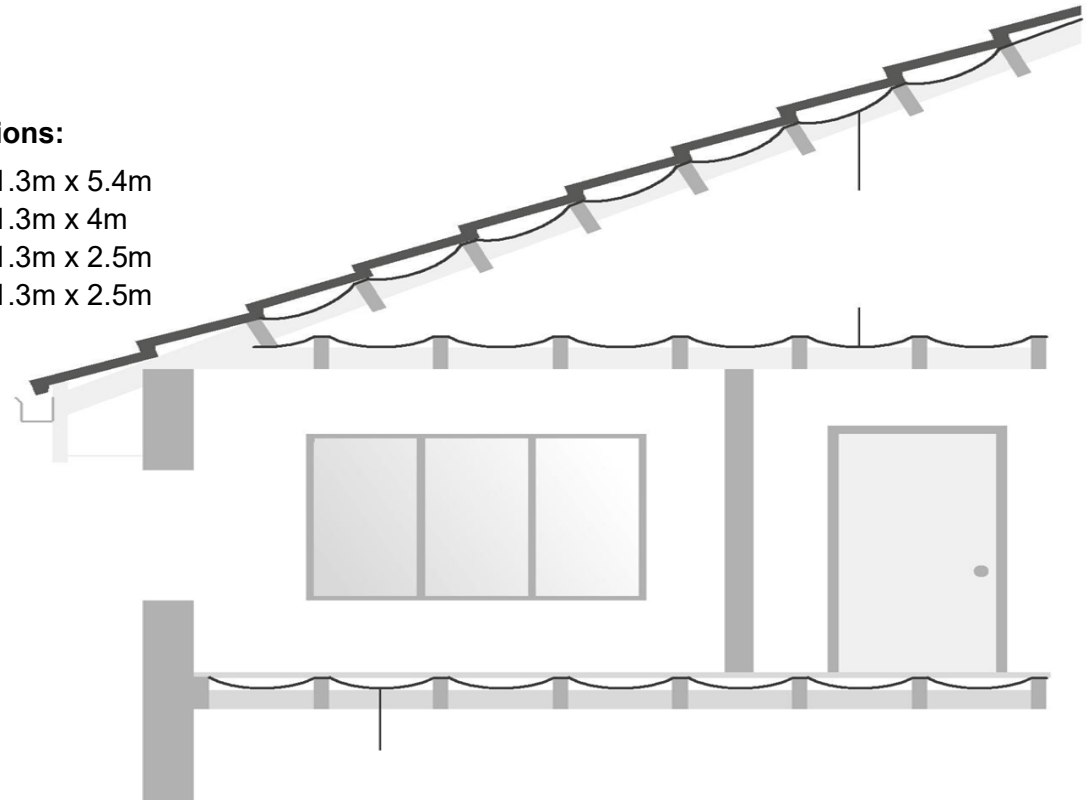
Portable acoustic screens
Greatly reduces noise at construction sites when hung from an overhead structure or draped over temporary fencing to create an acoustic barrier

Can be used to reduce noise transmission into an automotive cabin.

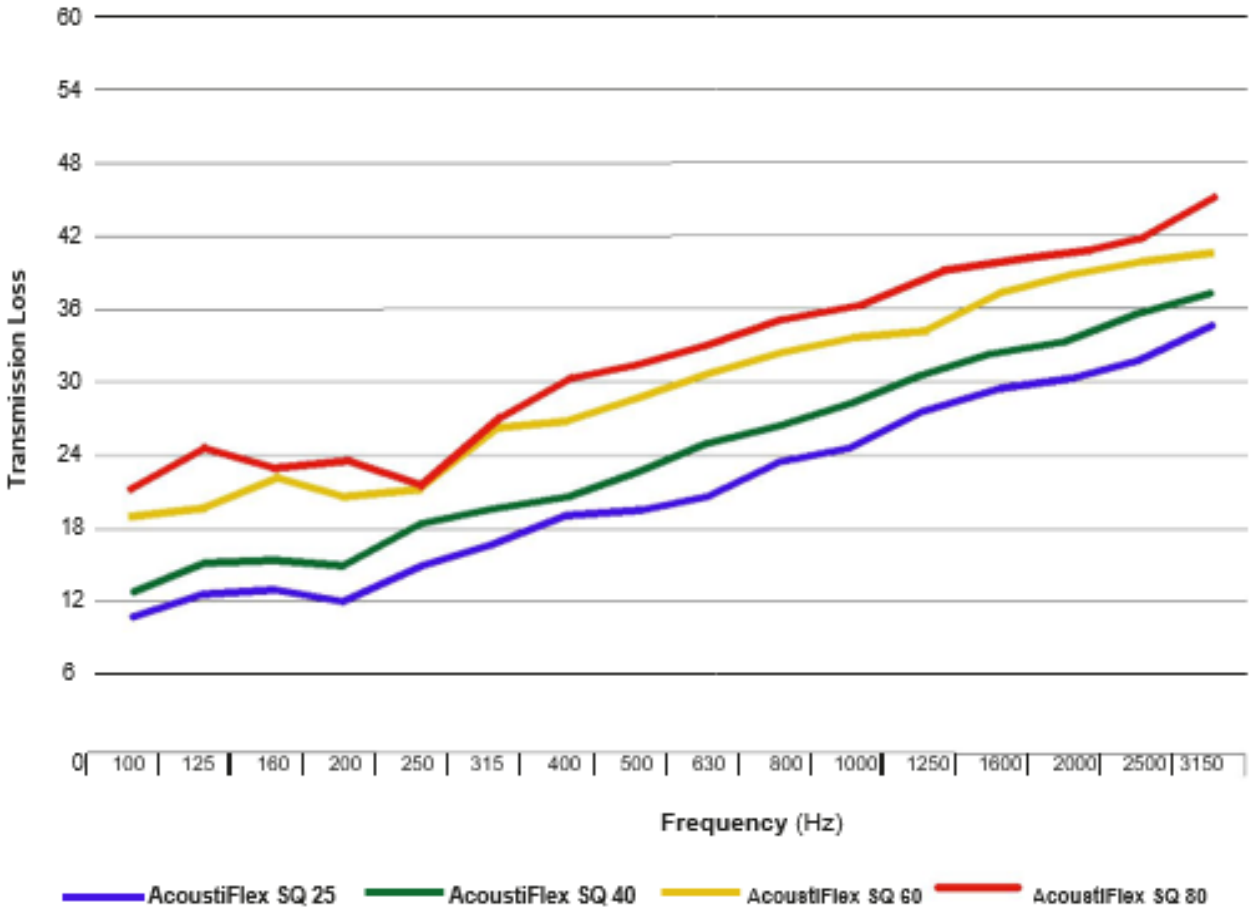
Confgurations

Standard Roll dimensions:

AcoustiFlex® SQ 25 = 1.3m x 5.4m
AcoustiFlex® SQ 40 = 1.3m x 4m
AcoustiFlex® SQ 60 = 1.3m x 2.5m
AcoustiFlex® SQ 80 = 1.3m x 2.5m



Comparison Transmission Loss Tests



Acoustic Tests

Test	Description
ASTM E2249-02	Standard test method for laboratory measurement of airborne transmission loss of building partitions and elements using sound intensity.
ISO 15186-1:2000	Acoustics - Measurement of sound insulation in building elements using sound intensity - Part 1: Laboratory measurements
ASTM E413-16	Clasification for rating sound insulation
ISO 717-1:2013	Rating of sound insulation in buildings and of building elements. Part 1: Airborne sound insulation
DOCUMENT NO.	008/REP/XI/2023

Frequency (Hz)	AcoustiFlex SQ 25	AcoustiFlex SQ 40	AcoustiFlex SQ 60	AcoustiFlex SQ 80
100	10.5	12.9	21.0	22.5
125	12.2	15.2	21.6	24.9
160	12.7	15.7	23.4	23.1
200	12.0	14.8	22.1	23.8
250	15.6	18.5	22.7	27.1
315	17.1	19.5	26.3	27.9
400	19.2	21.7	26.7	30.7
500	19.9	23.1	29.3	31.9
630	21.4	25.1	30.9	33.7
800	23.0	26.7	32.0	35.3
1000	24.8	28.4	33.7	36.2
1250	27.3	30.8	34.8	38.7
1600	29.0	31.8	37.5	39.6
2000	30.3	33.3	38.3	40.6
2500	32.6	35.6	39.3	42.1
3150	34.0	37.0	40.1	44.6
Rw	24	28	35	36
STC	24	28	35	36

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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