



Soundproof
Warehouse

OUTBACK ACOUSTIC PANELS



Description

Outback Acoustic Panels are made for the harsh Australian environment and all industrial conditions. The panels achieve superior sound transmission loss of 33 dB. The panels are also nonsound reflective achieving an NRC 1. The panels have a 50mm engineered absorption core along with the Sound-Stop 5 heavy visco elastic polymer, thus allowing the panels to stop noise and absorb all unwanted reverberation. The Outback Acoustic Panels can be used outdoors or indoors in any environment. Mines, car wash bays, train stations, air con clusters, extraction fans etc.

Specifications

(all measurement in millimeters)

Rw/ STC - Sound Transmission loss----- 33
 NRC - Noise Reduction Coefficient ----- 1
 Weight/dimension - (1200 x 2400 x 61) --- 50 kg
 Standard Dimensions - Can Customise --- 1200 x 2400 x 60
 Frame aluminum ----- C-channel 60 x 55 x 3 (10mm Corner Stakes
 Front face aluminum ----- Perforated 2mm holes on 3mm centers staggered
 Back face aluminum ----- 1 mm flat sheet

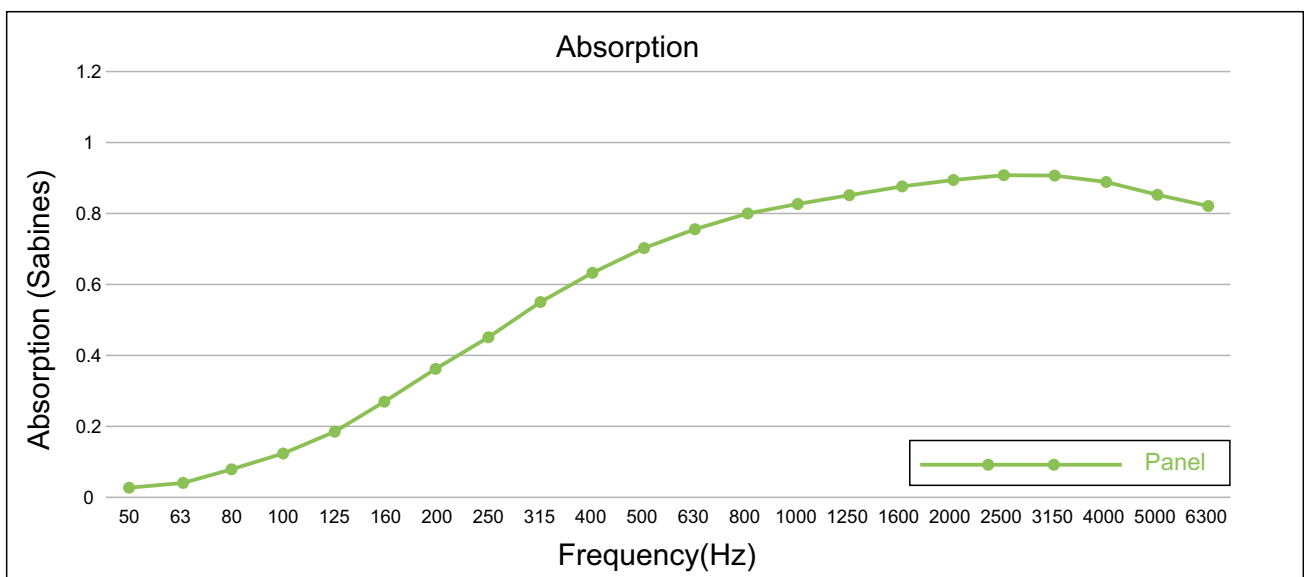
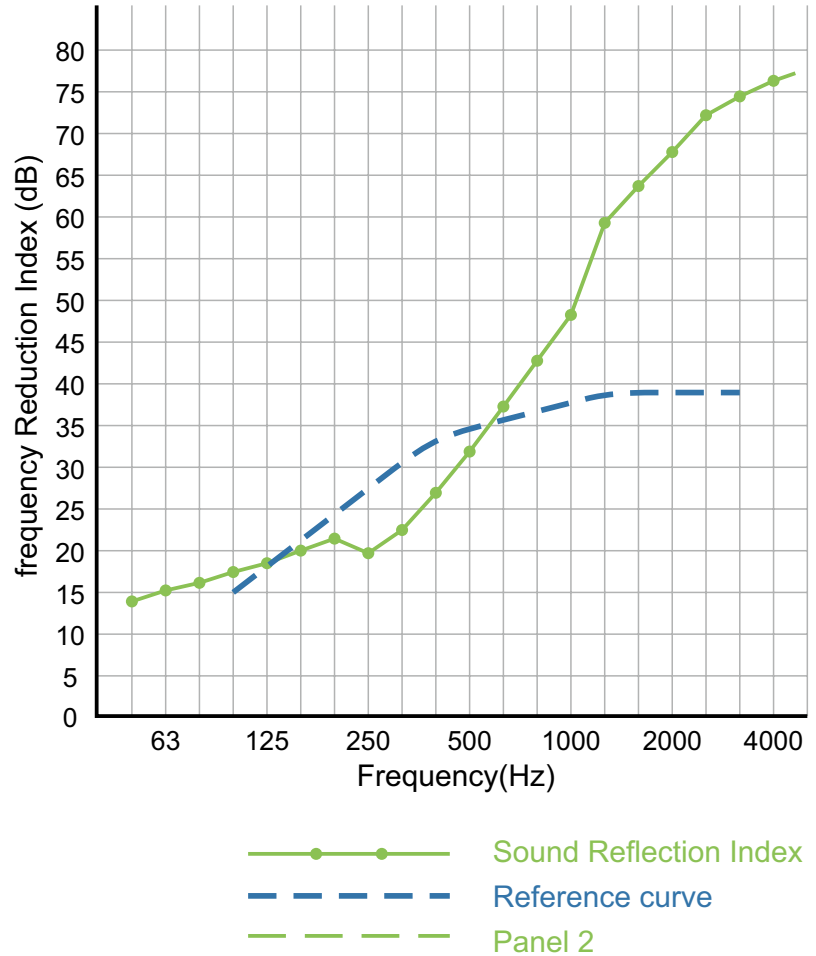
- UV tolerant
- Power washable
- Animal resistant

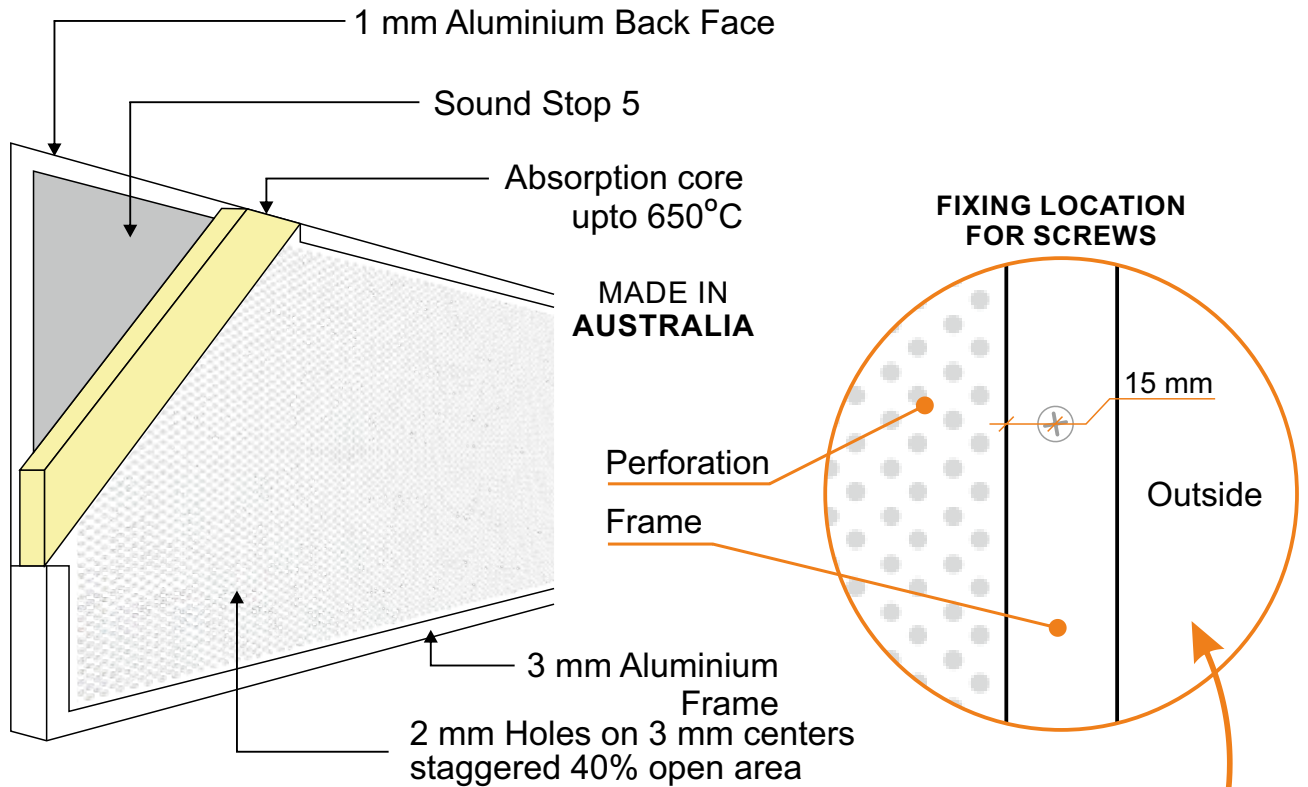


Sound Transmission Test

- Panel 1 : 1 x 1.0mm Aluminum (ρ :2900 kg/m³, E:85GPa, η :0.01) + 1 x 5.0mm Sound-Stop5 (ρ :1300 kg/m³, E:4.7GPa, η :0.20)
- Panel 2 : 1 x 1.0mm Perforated Alloy
- Cavity: Steel Frame (3mm): Stud spacing 1200 mm, Infill Mineral Fiber 650 Thickness 50mm (ρ :100 kg/m³, Rf:53000 Pa.s/m²)
- Mass-air-mass resonant frequency = 240 Hz

frequency (Hz)	R(dB)	R(dB)
50	13	
63	14	14
80	15	
100	16	
125	17	17
160	19	
200	20	
250	18	20
315	21	
400	26	
500	31	29
630	36	
800	41	
1000	46	44
1250	56	
1600	60	
2000	64	63
2500	68	
3150	70	
4000	72	72
5000	74	





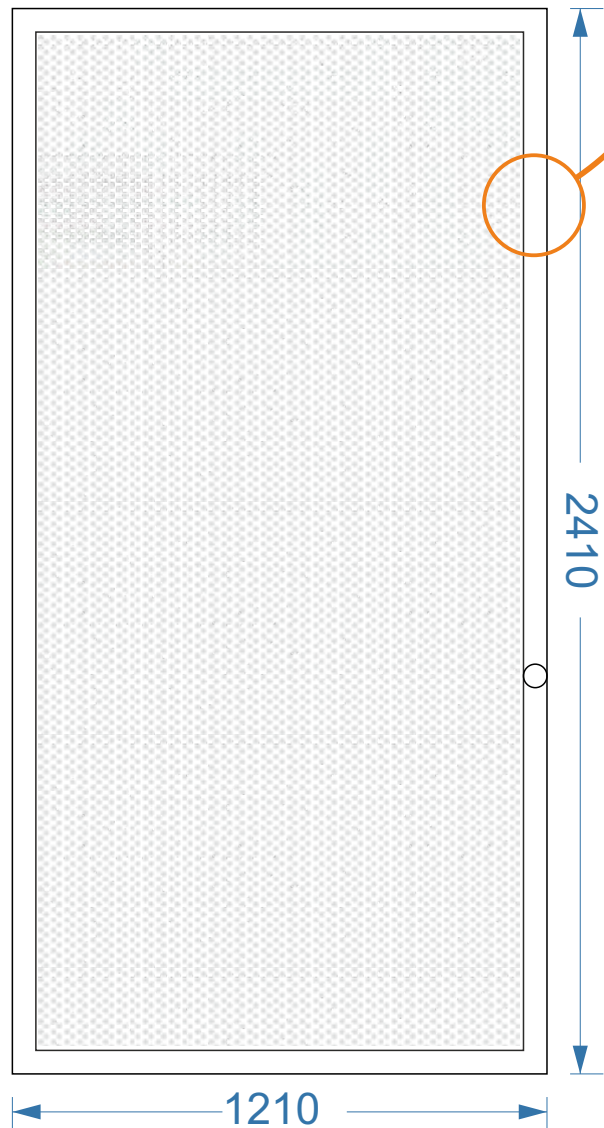
Front Face

Back Face 1 mm Aluminium alloy

Frame 3 mm Aluminium alloy c-channel extrusion

Gross weight 50 kg
2410 x 1210 x 60 mm

Mill finish on frame
Can powder coat front and back face and frame



INSTALLATION INSTRUCTIONS

for Outback Acoustic Panels

A Comprehensive Guide

Introduction

Outback Acoustic Panels are designed to improve the acoustic quality of any space by reducing noise and echo. This guide provides step-by-step instructions to ensure a successful installation process.

Tools and Materials Needed

- Outback Acoustic Panels
- Measuring tape
- Pencil or chalk line
- Level/ Lazer level
- Drill and screws
- Protective gloves

Preparation

1. Assess the Area

Identify the area where the panels will be installed. Ensure the surface is clean, dry, and free of dust or grease.

2. Measure and Plan

Use a measuring tape to determine the dimensions of the wall. Mark the positions for each panel using a pencil or chalk line. This will help in aligning the panels correctly.

3. Gather Tools and Materials

Ensure all tools and materials are ready before starting the installation. Wear protective gloves to handle the panels safely.

Installation

1. Position the Panels

Align the first panel with the marked position. Press it firmly against the wall, ensuring it is level and plumb. Hold it in place and drill with roofing screws. Holes to be drilled in 15mm from inside edge of frame.

For a 2400 x 1200 panel we recommend minimum 4 screws on both sides of panel, 8 in total. For high wind areas more will be required. Check with your engineer.

2. Continue Installation

Repeat the process for the remaining panels, ensuring each panel is aligned correctly with the previous ones. Use a level to check that the panels are straight.

3. Cut Panels to Fit if needed

If necessary, use aluminium saw to cut panels to fit in desired area. Ensure the cuts are clean and precise for a professional finish.

Finishing Touches

1. Inspect the Installation

Check that all panels are securely attached and aligned correctly. Make any necessary adjustments to ensure a seamless appearance.

2. Clean the Area

Remove any residue from the panels and surrounding area. Dispose of any waste materials properly.

Maintenance

Outback Acoustic Panels are designed to be low maintenance. However, regular cleaning will help maintain their appearance and performance. Use a soft cloth or vacuum cleaner with a brush attachment to dust the panels periodically. Panels can be power washed too if necessary.

Conclusion

By following these installation instructions, you can achieve a professional and effective acoustic treatment for your space. Outback Acoustic Panels not only enhance the acoustic quality but also add a touch of aesthetic appeal to any environment.



Soundproof Warehouse

Get Your Obligation Free Quote

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