



Outback Acoustic Panels

Outback Acoustic Panels achieve superior Rw and NRC ratings. These Panels have been designed to withstand the harsh outdoor Australian environment and industrial conditions. The Panels have a 50mm engineered absorption core and the Sound-Stop 5 heavy visco elastic polymer. The panels can be used inside or outside in any environment. Mines, car wash bays, train stations, aircon clusters, extraction fans etc.

Specifications

Noise Reduction Coefficient - NRC	1
Rw/STC	33
Weight/ dimensions - 1.2m x 2.4m x 60mm Thick	49Kg
Frame aluminium	C-channel 60 x 32 x 3mm (welded corners)
Front face aluminium	Perforated 2mm holes on 3mm centers staggered
Back face aluminium	1mm

UV tolerant, power washable, animal resistant.



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System description

Panel 1 : 1 x 1.0 mm Aluminium ($\rho:2900 \text{ kg/m}^3, E:85 \text{ GPa}, \eta:0.01$) + 1 x 5.0 mm SoundSlop5 ($\rho:1300 \text{ kg/m}^3, E:4.7 \text{ GPa}, \eta:0.20$)
 Panel 2 + 1 x 1.0 mm Perforated Alloy

Cavity: Steel Frame (1.0-1.6 mm): Stud spacing 1200 mm, Infill Bradford Fiberlex 650 Thickness 50 mm ($\rho:100 \text{ kg/m}^3, Rf:53000 \text{ Pa}\cdot\text{s/m}^2$)
 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	

