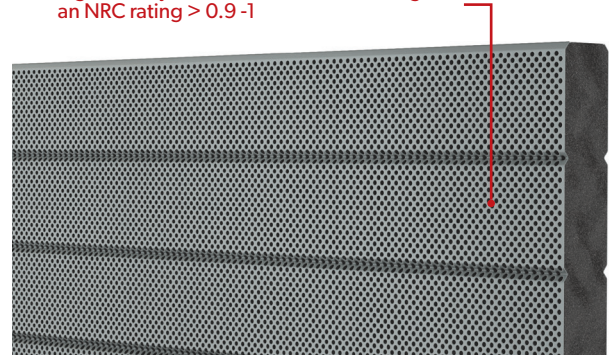


Composite Sound Absorbing Panel

FEATURES

- Suitable for external and internal applications
- Customisable Rw rating 29 - 45
- Full Pre-finished Aluminium body ensures 50+ years design life (Off White - other colours on special request)
- Recycled High Density PET Core Boosts Project Environmental Credentials
- Lightweight and Impact resistant
- Panel spans up to 4 metres
- Designed and Manufactured in Australia

Sound waves penetrate the perforated face of the panel and are absorbed within the high density core material, resulting in an NRC rating > 0.9 -1



With the constant push of development into residential areas and expansion of road and rail corridors, noise barriers are an integral part of modern civil and infrastructure development. Similarly, noise emitted from commercial and industrial loading docks, machinery, HVAC units and generators affect the health and amenity of neighbours and staff. The AcoustiSorb™ panel enables construction of simple, effective and aesthetically pleasing barriers and enclosures that absorb noise as opposed to simply reflecting it away. With the ability to customize the core of the panel, AcoustiSorb™ enables engineers, designers and builders to overcome even the most demanding noise attenuation challenges.

	AcoustiSorb 75™	AcoustiSorb 100™																								
Outer Skin	Aluminium / Painted Steel (off white)	Aluminium / Painted Steel (off white)																								
Panel Core	Sound Absorbing	Sound Absorbing																								
Available Lengths (mm)	2400 - 4000	2400 - 4000																								
Available Widths (mm)	600	600																								
Thickness (mm)	75	100																								
Density (kg/m ²)	14.32	14.72																								
NRC (frequencies hz)	<table border="1"> <tr> <td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td> </tr> <tr> <td>0.20</td><td>0.60</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td> </tr> </table> NRC 0.90	125	250	500	1000	2000	4000	0.20	0.60	1.00	1.00	1.00	1.00	<table border="1"> <tr> <td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td> </tr> <tr> <td>0.20</td><td>0.60</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td> </tr> </table> NRC 1.00	125	250	500	1000	2000	4000	0.20	0.60	1.00	1.00	1.00	1.00
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Rw (tuneable by mass)	29 - 34	34 - 45																								
Moisture Absorption (core specific)	Exposure to an atmosphere of 50°C & 95% RH for four days gives moisture absorption of less than 0.2% by volume																									
Fire Resistance (core specific)	The following results were obtained when a core sample was subjected to early fire hazard testing in accordance with Australian Standards AS 1530.3. Polymax meets all requirements of the BCA for all insulation application. <table border="1"> <tr> <td>Ignitability:</td><td>0</td></tr> <tr> <td>Spread of Flame:</td><td>0</td></tr> <tr> <td>Heat Evolved:</td><td>0</td></tr> <tr> <td>Smoke Developed:</td><td>0-1</td></tr> </table>		Ignitability:	0	Spread of Flame:	0	Heat Evolved:	0	Smoke Developed:	0-1																
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COMMERCIAL RAIL CORRIDOR



BAKERY PRODUCTION PLANT - ABSORBING WALL



VEHICLE DYNO ROOM



SUPERMARKET LOADING DOCK

