



Acoustic Panels

Technical Datasheet



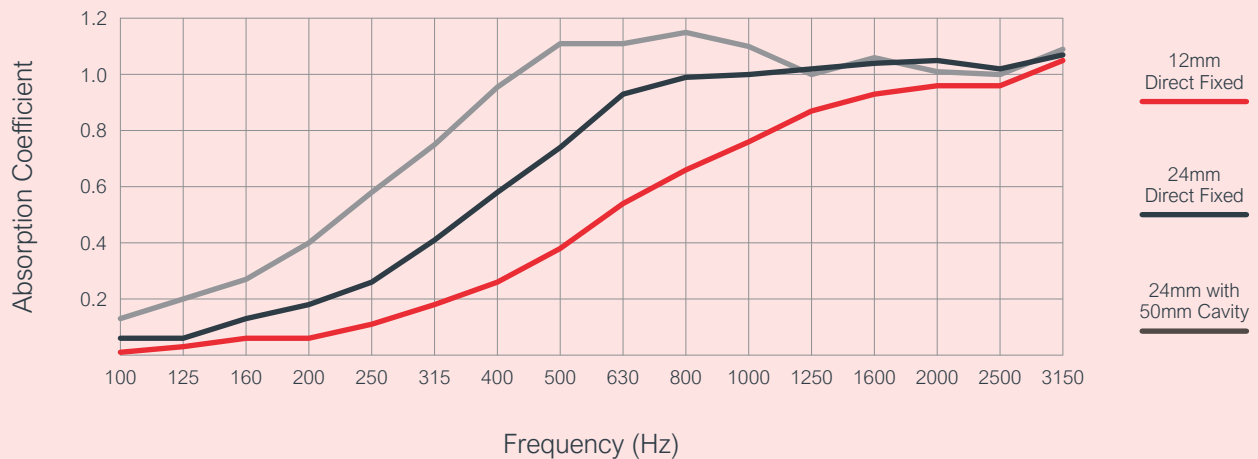
Acoustic Performance

Robin™ Acoustic Panels are high-performance sound-absorbing panels designed to reduce echo and reverberation in a variety of environments. Manufactured from a compressed polyester core made from post-consumer recycled plastic bottles, the panels are engineered to an optimal density for effective acoustic control and long-term durability. Panels can be cut to any shape or design and can be V Groove cut to create custom surface patterns. Robin™ Acoustic Panels are fully pinnable, available in 12 mm and 24 mm thicknesses, and offered in a range of 20+ colours. They can be installed as wall panels, rafts, grids or baffles to suit a wide variety of applications.

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Hz	12mm Direct Fixed Absorption Coefficient	24mm Direct Fixed Absorption Coefficient	24mm with 50mm Cavity Absorption Coefficient
100	0.01	0.06	0.13
125	0.03	0.06	0.2
160	0.06	0.13	0.27
200	0.06	0.18	0.4
250	0.1	0.26	0.58
315	0.18	0.41	0.75
400	0.26	0.58	0.95
500	0.38	0.74	1.11
630	0.54	0.93	1.11
800	0.66	0.99	1.15
1000	0.76	1.0	1.1
1250	0.87	1.02	1.0
1600	0.93	1.04	1.06
2000	0.96	1.05	1.01
2500	0.96	1.02	1.0
3150	1.05	1.07	1.09
Class Absorption / NRC	D / 0.55	C / 0.75	A / 0.95

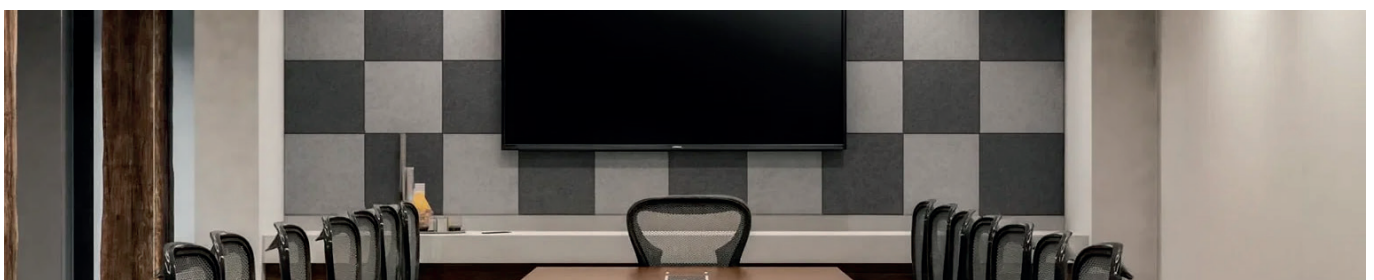
Sound Absorption Coefficient



Technical Performance

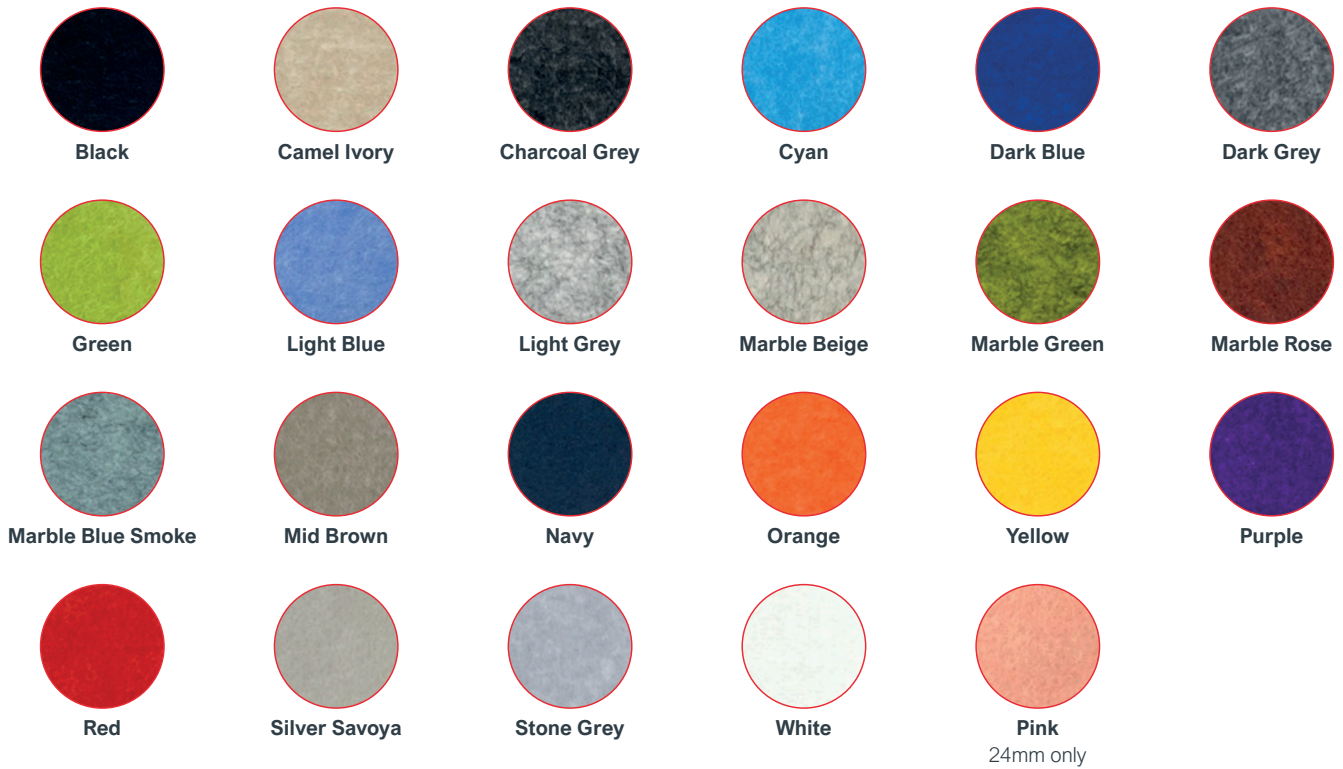
Robin™ Acoustic Panels are precision-engineered polyester-fibre panels made from post-consumer recycled material, delivering a sustainable balance of acoustic performance, durability, and visual clarity. Lightly compressed for a refined finish and suitable for wall, ceiling, raft, grid, and baffle installations, they effectively reduce reverberation and enhance overall room acoustics. The following section presents Robin™'s key technical performance data - including acoustic absorption, fire rating, and other specifications essential for informed design and specification.

Cleaning	Light dirt marks may be removed by using a moist cloth. A small area should be tested before doing the rest of the area to ensure that the surface is not adversely affected.
Weight	4.5 (kg/m ²)
Fire	Tested to EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests, Class B.
Thickness	12mm / 24mm
Cutting Tolerance	+/- 3 mm max
Thickness Tolerances	+/- 4mm
Hygiene, Health & Environment	Oeko-tex Certified
Impact Resistant	Yes
Printable	Yes
Customisable	V Groove Pattern Engraving (12mm panel only)
Pinnable	Yes
Substrate	The substrate must be even, smooth, clean, and dry. It must also be free from elements that could damage the boards. The surface receiving the panel should be clean, free of oil, dust and grease. Always perform a test with the glue to ensure compatibility and adhesion while strictly following the bonding instructions provided by the manufacturer.



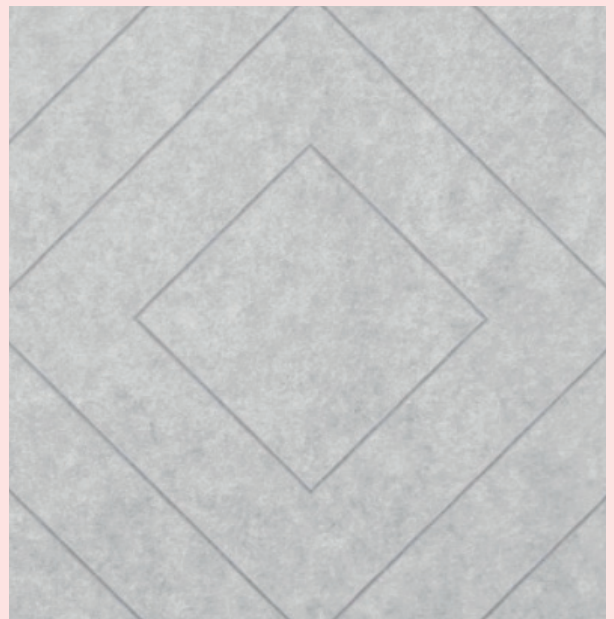
Colours

Choose from a range of over 20 colours to find the ideal look for your interior space.



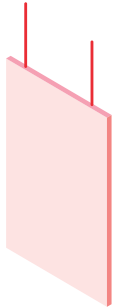
Bespoke Design

Robin™ Acoustic Panels offer complete creative freedom, turning your design concepts into standout acoustic features. While our standard panels are available in 1200 x 2400mm sheets and in 12mm or 24mm thicknesses, Robin truly excels when you need something unique. Any size, any shape, any configuration—every panel is made to order, allowing you to push beyond conventional formats and create installations that are tailored to your space. From dramatic curves and custom wall runs to branded cut-outs and complex geometries, our team can fabricate panels exactly to your specifications. Simply provide your drawings or CAD files and we'll engineer your vision into a finished acoustic solution that's both functional and visually striking. With Robin™, your imagination sets the boundary.

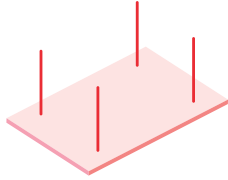


Applications

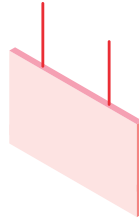
Robin™ Acoustic Panels support a wide range of applications, functioning as wall or ceiling-mounted panels, or as suspended rafts, baffles, grids, and screens. Manufactured to order, they can be produced in any size or shape, and can be cut directly from customer-supplied CAD files to deliver fully bespoke designs.



Suspended screens



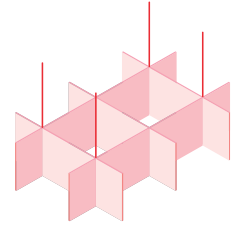
Suspended ceiling rafts



Suspended ceiling baffles



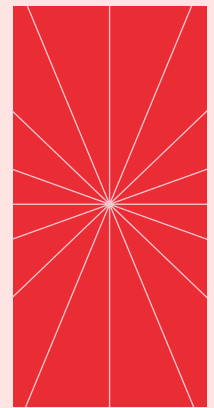
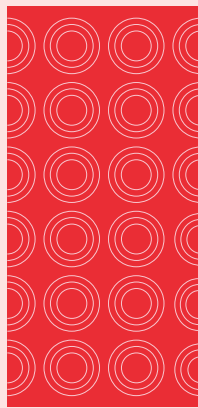
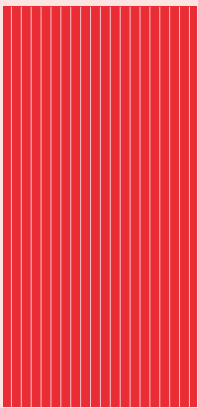
Direct fix wall and ceiling panels



Suspended ceiling grids

V Groove Patterns

Panels can also be V Groove (12mm only) cut to create an extensive variety of surface patterns, and their pinnable finish makes them well-suited to collaborative and adaptable interiors.



Suspended

Robin Panels can be suspended from ceilings using suspension kits and wires.

Direct Fix

Robin panels can be applied directly to walls and ceilings using appropriate spray adhesive and mechanical fixings.

Key Terms & Conditions

Liability and Product Suitability: Songbird Acoustic accepts no liability for loss, damage, or performance issues arising from circumstances beyond its control, including site conditions, handling, storage, installation, or end use. Product suitability must be independently verified by the specifier, installer, or end user prior to installation.

Inspection and Acceptance: All panels must be inspected upon delivery and before installation for colour variation, defects, or damage. Installation constitutes acceptance that the panels were supplied in satisfactory condition. Any issues reported after installation has commenced will not be covered under warranty.

Installation Responsibility: Panels must be installed strictly in accordance with the manufacturer's published guidelines. The installer is solely responsible for ensuring correct installation; failure to comply may void the warranty.

Colour, Weight, and Materials: Colour samples are representative only and may vary in shade or texture; physical samples are available upon request. All stated weights are approximate.

Adhesive and Moisture: Where specified, adhesive must be applied to 100% of both bonding surfaces, e.g. panel and wall. Panels must be protected from excessive moisture during storage, handling, and installation.

Full terms & conditions can be found here: <https://www.novaacoustics.co.uk/terms-conditions/>

