

Absorb™

Material Datasheet

Product Name	Absorb™
Composition	Polyester Fiber (PET) 50 % Recycled PET fibers (REACH) 50 % Bi Co 110 C. (REACH)
Thickness¹	40 mm (1.6") +1-0.5 mm
Sheet Size¹	1220mm x 2440mm (48" x 96") +- 5mm
Acoustic²	$\alpha_w = 0.90$ (MH) NRC 0.95
Density	2.6kg/m ²
Core Finishes	White, Black & Grey
Certifications	SS-EN 13964;2014, Emission Class M1, EPD Certification (nr S-P-04908), VDA 270
Recyclability⁴	100% reusable and recyclable material. This product has been designed to be fully recyclable, including both the fabric and the core. No adhesives have been used in its construction, allowing the fabric and core to be easily recycled, recovered, or repurposed to maximise sustainability.
VOC Emissions	Class M1
Durability⁵	Moisture, mould, and mildew resistant
Carbon Footprint⁶	Total embodied carbon (A1-A3) ≈ 4.63 kg CO ₂ e per panel Third-party verified EPD (ISO 14025 / EN 15804)

1 - all values are nominal

2 - measured with 50 mm air gap

3 - other fabrics available

4 - this applies to standard products
that have been installed without adhesives

5 - relates to core material

6 - core only, fabrics not considered



Telford, UK
Le Lude, FR

+44 (0)1952 947390
sales@acousticscompany.com

www.acousticscompany.com
www.acousticscompany.fr

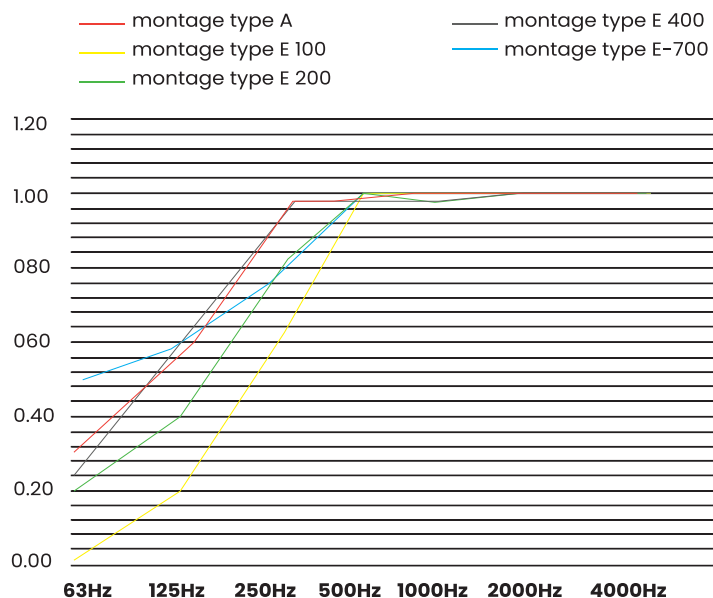
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Specify with clarity.

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Acoustic Data

ISO 354	Measurement of sound absorption in a reverberation room
ISO 11654	Sound absorbers for use in buildings – Rating of sound absorption
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ACOUSTICS:	Sound absorbers for use in buildings – Rating of sound absorption

Frequency (Hz)	63	125	250	500	1000	2000	4000	aw	Class
type A mounting	0.05	0.15	0.60	0.95	1.00	1.00	1.00	0.90	A
type E-100 mounting	0.05	0.20	0.65	1.00	1.00	1.00	1.00	1.00	A
type E-200 mounting	0.20	0.40	0.85	1.00	0.95	1.00	1.00	1.00	A
type E-400 mounting	0.30	0.60	0.95	0.95	1.00	1.00	1.00	1.00	A
type E-700 mounting	0.50	0.55	0.70	1.00	1.00	1.00	1.00	1.00	A



Weighted Sound Absorption Coefficient (aw) - Measured in accordance with ISO 11654. Practical sound absorption coefficient ap values at given standard frequencies are compared with reference curve aw.

Noise Reduction Coefficient (NRC) - The mean average as value at frequencies 63, 125, 250, 500, 1000 and 2000 Hz.

Absorption Class - Levels of comparison of absorption values against a reference curve with A as highest and E as lowest. Measured in accordance with ISO 11654.

Practical Sound Absorption Coefficient (ap) - The average of the three as values centered on the 1/3 octave band center frequency, measured accordance with EN ISO 354.



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Care and Maintenance

Caring for a recover involves regular dusting with a soft cloth or vacuuming with a brush attachment to keep it clean. For stains, use a mild detergent and water, avoiding harsh chemicals. Periodically inspect the panels for any signs of wear and tear to ensure they maintain optimal acoustic performance. Proper maintenance will keep your acoustic PET panels looking functioning well for years!

CLEANING METHODS

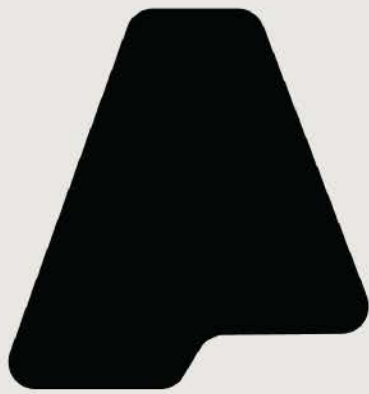
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- A.** Mop up excess as soon as possible with a sponge or cloth.
-
- B.** Remove surplus with a knife edge or appropriate Instrument.
-
- C.** Sponge with a solution of carpet shampoo working from well outside the stain in a circular motion towards the centre (this avoids spreading the stain). Sponge afterwards with clean warm water and mop excess moisture with a clean dry cloth or sponge. Allow to dry then brush gently with a soft brush. If any stain remains, sponge with a solution of one part household bleach to six parts clear water. Thoroughly rinse after treatment.
-
- D.** Lightly sponge with household dry cleaning fluid and blot. Apply sparingly, as the substance may have an adverse effect on the adhesive.
-
- E.** Lubricate the stain with glycerine or petroleum jelly.
-
- F.** Apply nail polish remover. The nail polish remover should not include lanolin or be of a greasy nature.
-
- G.** Sponge with turpentine (or substitute).
-
- H.** Freeze with ice cubes and scrape away while cold.
-
- I.** Clean with regular extractive carpet cleaner (if possible).
-
- J.** Use circular cutter and remove damaged portion.
-

CLEANING GUIDE

CONTAMINANT	GUIDE			
Blood	A	C		
Burn/Scorch Mark	J			
Chewing Gum	B	C	D	H
Chocolate	B	C	D	
Cooking Oils	B	C	D	
Crayons/Markers	A	C		
Drinks	Vacumm, I, or C			
Dust/Dirt	B	C		
Excrement	C			
Grease	B	C	D	
Ink	D	C		
Lipstick	A	C		

CONTAMINANT	GUIDE			
Mildew	B	C	D	
Milk	C			
Mud	A			
Nail Polish	B	C		
Oil	A	F		
Paint (Water-based)	B	C	D	
Paint (Oil-based)	A	C	E	
Sauces	A	C	D	G
Shoe Polish	B	D	D	
Urine	A	C		
Vomit	A	C	D	
Wine	A	Salt	C	





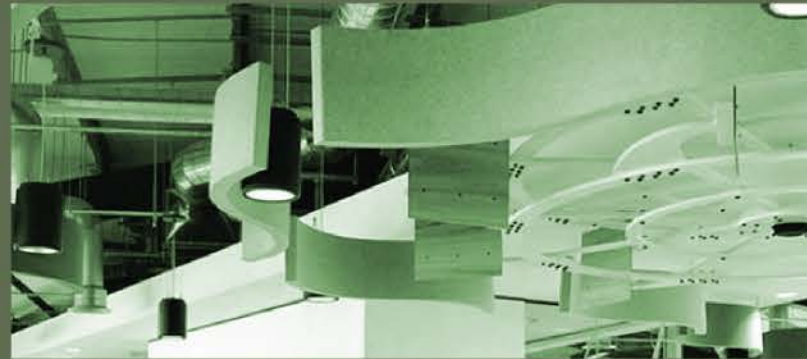
THE
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COMPANY

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Our Sustainability Principles



01



We prioritise recycled, recyclable, and low-impact materials, including PET derived from plastic bottles and recycled glass-based acoustic solutions.

02



Our products are designed for longevity and adaptability, reducing waste and supporting reuse across multiple life cycles.

03



We continuously optimise our processes to minimise waste, reduce energy consumption, and eliminate harmful chemicals.

04



All materials are selected to support low emissions and safe indoor environments, contributing to improved occupant wellbeing.

05



Our state-of-the-art manufacturing facility runs on 100% renewable energy generated directly from solar power. We don't just talk about sustainability; we've engineered it right into our product lines.

Credentials



Sustainability at The Acoustics Company

Designing spaces that sound good, and do good.

At The Acoustics Company, we believe the spaces we create should enhance both human wellbeing and the environment. Every product we develop is guided by a commitment to responsible materials, efficient manufacturing, and long-term performance.



Environmental Performance

- Use of recycled and recyclable materials
- Low VOC and indoor air quality compliant products
- No harmful chemicals in core materials
- Lightweight systems reducing transport and installation impact
- Long lifecycle performance supporting reduced waste



Built for Better Spaces

Our acoustic solutions are designed not only to control sound, but to support healthier, more comfortable interior environments across workplace, education, hospitality, and public spaces. By combining acoustic performance with responsible material choices, we help create spaces that feel better and perform better, for the people who use them.



A Future in Harmony

Sustainability and performance should work together. With every panel, ceiling system, and acoustic solution, we are contributing to a more responsible built environment, one that balances design, function, and environmental impact.