



THE
ACOUSTICS
COMPANY



Basotect® Melamine Foam



Technical

Basotect® Melamine Foam

Material Datasheet

Product Name	Basotect® Melamine Foam	
Composition	Melamine-formaldehyde resin expanded into an open-cell thermoset foam	
Type	ECO BALANCE BASOTECT G+, UF +, B & Dark	
Block Size	1250 x 2500 x 500mm	
Density ¹	Basotect® B	8.5 - 1.5 kg/m³
	Basotect® Ecobalanced G+	+9.0 - 1.5 kg/m³
	Basotect® UF+	+7.0 - 3.0 kg/m³
	Basotect® Dark	9.0 - 1.5 kg/m³
Acoustic ³	25mm — $\alpha_w = 0.65$ NRC = 0.65 Class A 50mm — $\alpha_w = 0.80-0.95$ NRC = 0.90-0.95 Class A 75mm — $\alpha_w = 0.95$ NRC = 0.95 Class A 100mm — $\alpha_w = 1.00$ NRC = 1.00 Class A	
Finishes	Basotect® Ecobalanced G+ : Light Grey Basotect® UF + : Mid Grey Basotect® B : White Basotect® Dark : Deep Grey / Black	
Fire Rating	Basotect® Ecobalanced G+ 5-15mm B-s1,d0 BS476 Class 0 available at 25mm Basotect® Ecobalanced G+ 16-80mm C-s2,d0 Basotect® Ecobalanced G+ >80mm C-s3,d0 Basotect® UF+ 5-20mm B-s1,d0 BS476 Class 0 available at 25mm & 50mm Basotect® UF+ 21-100mm C-s2,d0 Basotect® Dark 5-15mm B-s1,d0 Basotect® Dark 16-80mm C-s2,d0 Basotect® Dark 81-100mm C-s3,d0 Basotect® B 5-15mm B-s1,d0 Basotect® B 16-80mm C-s2,d0 Basotect® B >80mm C-s3,d0	



VOC Emissions

EI Classification:

Formaldehyde Emissions: ≤ 0.1 mg/L – compliant with EI emission classification for low formaldehyde release.

TVOC: < 0.01 mg/m³

Benzene: Not Detected

Toluene: 0.02 mg/m³

Xylene: Not Detected

VOC Emissions: Class A (ISO 16000)

Durability⁵

Lightweight structure reducing load on ceiling systems

Long-term acoustic performance stability

Resistant to ageing and material degradation

Will not rot and does not support mould growth

Thermoset composition – will not melt or drip under heat exposure

Suitable for dry internal environments

Tolerance²

Thickness: ± 3 mm

Length/Width: ± 5 mm

Sustainability

Manufactured using 100% green electricity.

Renewable raw materials allocated via certified biomass balance approach.

Product Carbon Footprint (PCF) reduced by up to 50% compared to standard grades

Carbon Footprint

Basotect® Ecobalanced G : 4.5 kg CO₂eq/kg

Basotect® B : 7.5 kg CO₂eq/kg

Certified according to ISO 14067, REDcert² and ISCC PLUS mass balance standards.

1 – Based on Basotect® Ecobalanced G+ core with 12mm PET backing. Fabric finish excluded.

2– Fire classifications apply only to the raw Basotect® material, and the final fire performance of the completed product or system may vary depending on added materials, construction, and installation methods.

3 – tested with 100 mm airgap

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

5 – relates to core material

6 – core only, fabrics not considered



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Basotect® Melamine Foam

Acoustic Data

Basotect® Melamine Foam — Indicative Acoustic Performance by Thickness

Raw foam only — no fabric, facings, coatings, substrates or composites.

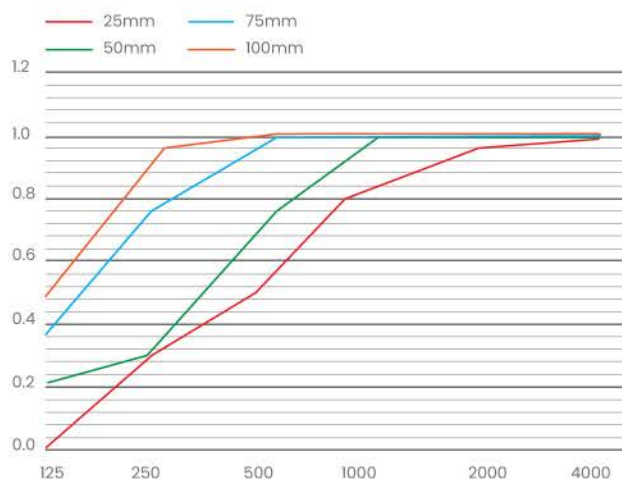
TESTING STANDARDS

(all values extracted from certified test results.)

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

For α_w , it is strongly recommended to use this single-number rating in combination with the complete sound absorption.

Thickness	125	250	500	1000	2000	4000	α_w	NRC	CLASS
25mm	0.00	0.25	0.55	0.80	0.95	1.00	0.65	0.65	A
50mm	0.20	0.55	0.90	1.00	1.00	1.00	0.80-0.95	0.90-0.95	A
75mm	0.35	0.75	1.00	1.00	1.00	1.00	0.95	0.95	A
100mm	0.45	0.90	1.00	1.00	1.00	1.00	1.00	1.00	A



Values are indicative for plain Basotect® foam only. Final performance may vary depending on mounting method, airgap, backing, adhesive, facings, fabric, edge treatment and installation conditions.



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Aftercare

Basotect® Melamine Foam

Care and Maintenance

Basotect® Melamine Foam should be handled carefully during transportation and installation due to its lightweight open-cell melamine foam structure. Proper care and routine maintenance will help preserve its acoustic performance, appearance, and long-term durability in interior applications.

For ongoing maintenance:

- Clean using a soft brush vacuum attachment or low-pressure compressed air
- Light surface marks may be removed using a slightly damp soft cloth
- Avoid excessive rubbing or abrasive cleaning methods
- Do not use solvent-based or aggressive chemical cleaners
- Avoid saturation with water or prolonged moisture exposure
- Protect from prolonged direct UV exposure during storage
- Basotect® Melamine Foam is best suited to low-contact interior acoustic applications where lightweight performance, thermal stability, and high fire performance are required

CLEANING METHODS

A. Dry Vacuum Cleaning - Use a vacuum cleaner with a soft brush attachment to remove loose dust and debris. Avoid high suction pressure that may damage the foam surface.

B. Compressed Air Cleaning - Use low-pressure compressed air to remove dust from textured or profiled surfaces. Maintain adequate distance to avoid tearing or surface deformation.

C. Damp Cloth Spot Cleaning - Lightly wipe affected areas using a soft lint-free cloth dampened with clean water. Blot gently without scrubbing.

D. Mild Detergent Cleaning - For stubborn marks, use a diluted mild pH-neutral detergent solution with a soft cloth. Remove residue using a clean damp cloth and allow to air dry fully.

E. Surface Dust Removal - Use a microfiber cloth or anti-static duster for routine maintenance in low-dust interior environments.

F. Panel Replacement - Where physical damage or permanent staining occurs, replace affected sections or panels if required.



Recommended Application & Maintenance Guidance

- Handle panels carefully during transport and installation to avoid crushing or tearing
- Suitable for dry interior environments only
- Avoid excessive handling after installation
- Ensure fixing systems are periodically checked for stability and safety
- Store flat or properly supported to prevent deformation
- Protect stored material from prolonged direct sunlight and moisture exposure
- Use clean gloves during installation to minimise surface marking.

IMPORTANT NOTES

- Do not use abrasive pads, brushes, or aggressive scrubbing methods
- Do not use solvent-based cleaners, alcohols, acetone, or harsh chemicals
- Do not pressure wash or saturate with water
- Avoid prolonged UV exposure during storage before installation
- Avoid sharp impacts or concentrated point loads
- Always clean gently to maintain acoustic and surface performance





Basotect® Melamine Foam

Designed to integrate seamlessly into architectural environments, Reverb delivers high-performance acoustic control with clarity in specification and confidence in delivery.

Basotect® is a registered trademark of BASF SE. The Acoustics Company is an independent fabricator and supplier of products manufactured from Basotect® melamine foam and is not affiliated with or endorsed by BASF SE.

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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.