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Basotect® Dark Eco-Balanced

High-performance acoustic absorption with a reduced CO_2 footprint

Key Benefits

- Excellent sound absorption
- Extremely lightweight
- Fire classification B1
- Up to ±50% lower CO_2 footprint
- Elegant design

Basotect® Dark Eco-Balanced is a premium melamine foam with an elegant dark color, specifically developed for acoustic applications where design, performance, and sustainability meet. Through the Eco-Balanced production method, part of the fossil-based raw materials is replaced by renewable resources using a mass-balance approach. This results in up to ±50% lower carbon footprint compared to conventional Basotect grades, without compromising technical performance. The material combines excellent sound absorption with low weight, fire safety (Class B1), and easy processing.

1. Product Properties

Property	Value
Material	Melamine foam (open-cell)
Density	8,5 +/- 1,5 KG/M3
Colour	Black / Dark
Available thicknesses	10 – 100 MM (+ custom sizes)
Thermal conductivity	$\lambda \leq 0{,}04$ W.mK
Sound absorption	≥ 90 %
Standard sheet sizes	1200 X 1200 / 1200 X 600 / 600 X 600 MM
Shapes	Cube / Cylinder / Pyramid / Custom

2. Main Advantages

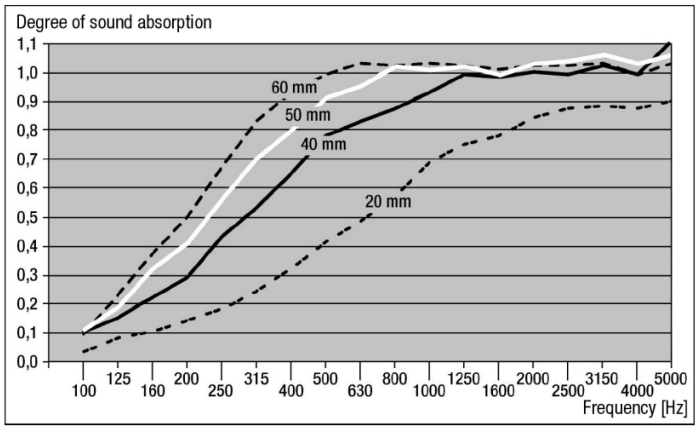
- Extremely lightweight
- High sound absorption
- Fire resistant
- Easy to process
- Durable and dimensionally stable

3. Applications

Offices, meeting rooms, studios, music rooms, HVAC systems, industrial environments, automotive applications, and more.

4. Acoustic Performance

Thickness	αw	Class	NRC
20 mm	0,45	D	0,55
40 mm	0,70	C	0,80
50 mm	0,85	B	0,90
60 mm	0,95	A	0,95



5. Fire Performance & Certification

DIN 4102-1	B1
EN 13501	B, s1, d0 (up to 15 mm)
	C, s2, d0 (15 – 80 mm)

6. Tolerances at Constant Humidity

Thickness tolerances

Sheet thickness	Tolerance
5 – 15 mm	+/- 1 mm
20 – 45 mm	+/- 1.5 mm
Vanaf 50 mm	+/- 2mm

Length / Width tolerances

± 0,3% with a maximum deviation of 3 mm.

Squareness

Deviation up to a maximum of 5 mm per meter.

At an ambient temperature of 23°C, the dimensions of the melamine foam may vary due to humidity.

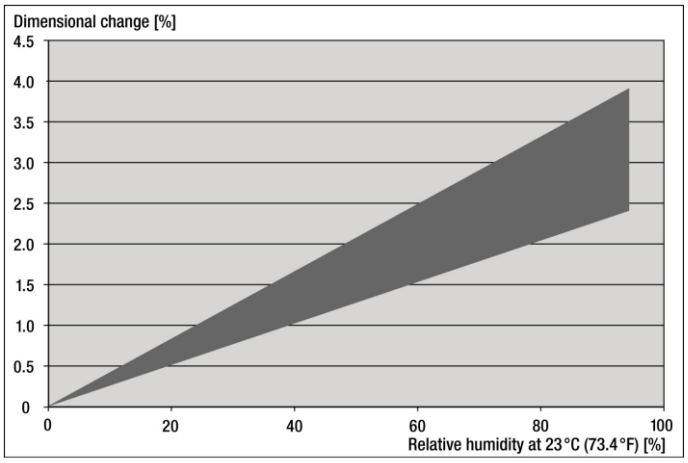


Diagram 1: Dimensional change as a function of the relative indoor humidity at an ambient temperature of 23°C [73.4°F]

(Source: BASF, melamine foam.

RECOMMENDATION:

Allow Basotect foam to acclimatize for at least 2 days in the installation area before mounting (with packaging boxes opened)

7. Holes and Surface Irregularities

Small holes or irregularities in the foam are permissible under the following conditions:

- Maximum 10 holes per m^2
- Hole diameter not exceeding Ø15 mm

8. Color Variations

Color differences between panels may occur and are inherent to the manufacturing process.

9. Various coatings are available

Please refer to the Basotect Coatings Datasheet for more information.

10. Contact Information

Akomo NV

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