

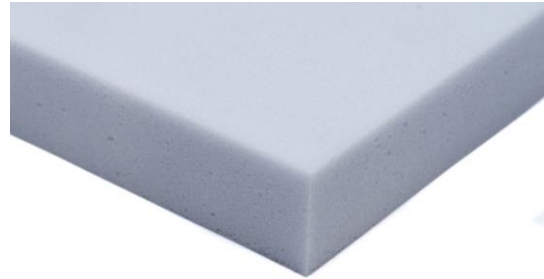


# Basotect® G+ Eco-Balanced

High-performance acoustic absorption with a reduced CO<sub>2</sub> footprint

## Key Benefits

- Excellent sound absorption
- Extremely lightweight
- Fire classification B1
- Up to ±50% lower CO<sub>2</sub> footprint
- Elegant design



Basotect® G+ Eco-Balanced is a premium melamine foam with an elegant light grey 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               | 9 +/- 1,5 KG/M3                         |
| Colour                | Light grey                              |
| Available thicknesses | 10 – 100 MM (+ custom sizes)            |
| Thermal conductivity  | $\lambda \leq 0,04 \text{ W.mK}$        |
| Sound absorption      | $\geq 90 \%$                            |
| Standard sheet sizes  | 1200 X 1200 / 1200 X 600 / 600 X 600 MM |
| Shapes                | Cube / Cylinder / Pyramid / Custom      |

## 2. Main Advantages

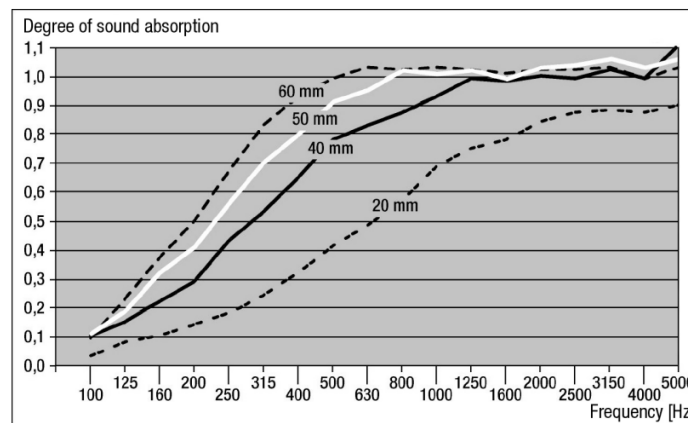
- Extremely lightweight
- High sound absorption
- Fire resistant
- Easy to process
- Durable and dimensionally stable

## 3. Applications

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

## 4. Acoustic Performance

| Thickness | $\alpha_w$ | 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.

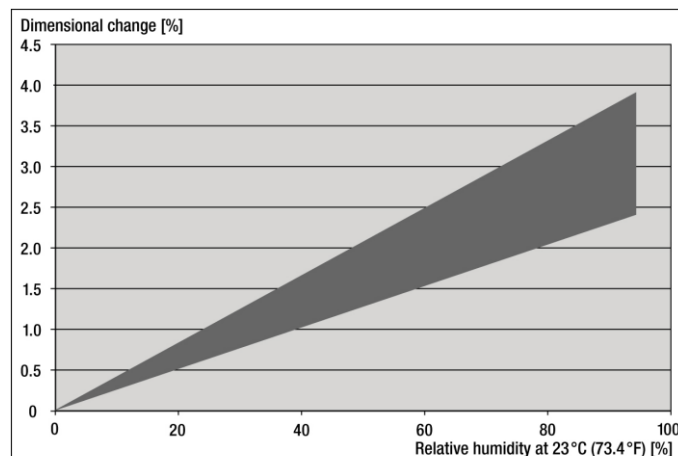


Diagram 1: Dimensional change as a function of the relative indoor humidity at an ambient temperature of 23°C [73.4°F]

(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<sup>2</sup>
- 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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