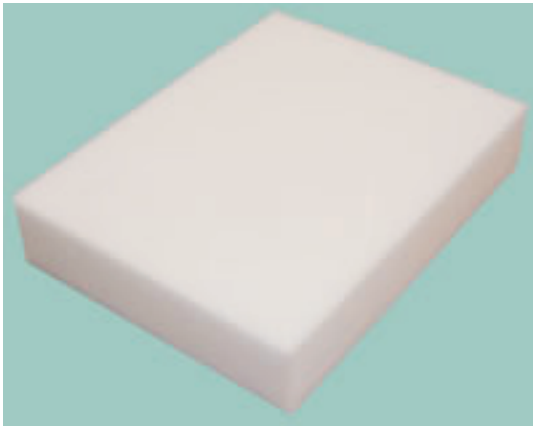


# Basotect



## Description



Basotect, is a lightweight open cell foam. Made from Melamine resin, it is designed for use in thermal and acoustic insulation applications.

It is flexible, easy to handle cut and install. It can be supplied in sheet form, or it can also be supplied pre-cut or profiled to size and shape

The natural colour of the foam is light grey, although it is also available in a range of functional or decorative facings and fabrics, and can be sprayed with flexible PVC coating to any RAL colour.

## Properties

Basotect offers a broad range of attractive properties. Its outstanding features being:

- High sound absorption
- Good thermal insulation properties
- Flame resistance
- Heat resistance
- Low weight

## Applications

Basotect is used extensively in the following applications:

- HVAC : fancoil units, plenum and duct linings
- Building services : Wall & ceiling panels for office & conference suites etc
- Industrial : Enclosure linings, suspended absorbers
- Automotive : Cab trim, engine & under bonnet panels
- Marine : Engine room & accommodation areas
- Recording studios : Wall panels, ceiling tiles, anechoic wedges.

## Specification

COLOUR	LIGHT GREY
SHEET SIZE	2.5 x 12.25Mtr STANDARD
THICKNESS	6mm TO 250mm
DENSITY	10.5 +/-1.5Kg/m <sup>3</sup>
TENSILE STRENGTH	>120kPa
HARDNESS	40% DEFORMATION : 7-20kPa
COMPRESSION SET	50% AT 70°C FOR 22 HOURS: 10% - 20%
CELL COUNT	130 - 200 PPI APPROXIMATELY
THERMAL CONDUCTIVITY	0.035W/mK @ 10°C
FIRE PERFORMANCE	CLASS 0 : BS476 PARTS 6 & 7
CONTINUOUS SERVICE TEMPERATURE	150°C
TOXICITY	DIN 4102 CLASS A2

## Physical Properties

Basotect's attractive range of properties is presented in Table 1. One of the most important advantages is its high sound absorption capacity. Figs. 1 and 2 show the sound absorption in accordance with DIN 52215 (vertically incident sound) and DIN 52212 (sound incidence from all directions) for layers of various thicknesses. At middle-range and high frequencies Basotect has very high sound absorption while at lower frequencies its low weight becomes apparent. A further advantage is its low thermal conductivity (Fig. 3). It is remarkable that this low value can be achieved with an open-cell foam. The reason for this is the reduced convection of the air due to the fine cellular structure of Basotect. Its high working temperatures and fire characteristics are attributable to the melamine resin employed. Basotect's long-term service temperature gives it a leading position among the polymeric foams. Its advantageous fire properties are reflected in the classifications it attains. Basotect is thus predestined for use in the construction industry, in vehicle and aircraft construction, etc.

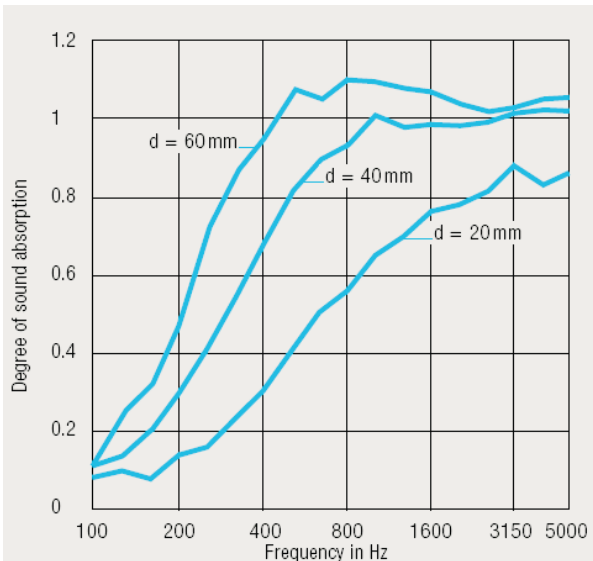


Fig. 1:  
Degree of sound  
absorption according  
to DIN 52215

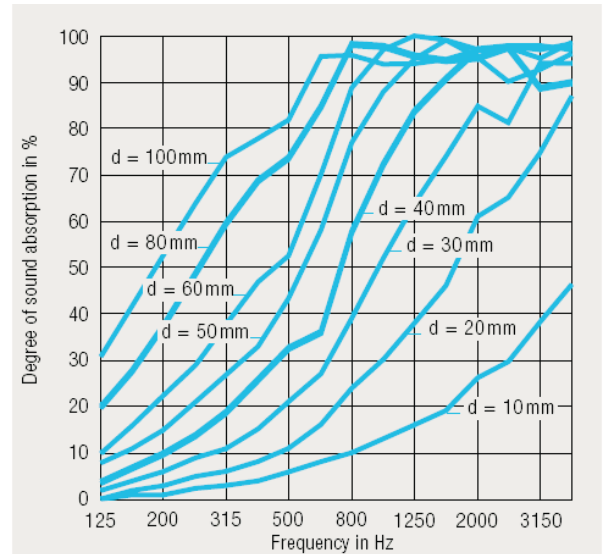


Fig. 2:  
Degree of sound  
absorption according  
to DIN 52212

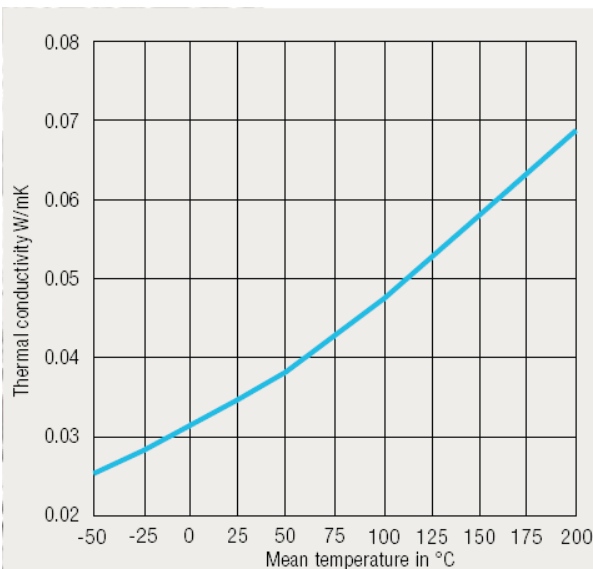


Fig. 3:  
Thermal conductivity  
according  
to DIN 52612

PRODUCT	THICKNESS (mm)	SOUND ABSORPTION COEFFICIENT					
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
PLAIN BASOTECT	25	0.04	0.22	0.54	0.74	0.88	0.92
PLAIN BASOTECT	50	0.22	0.46	0.95	1.00	1.00	1.00
BLACK TISSUE FACED ONE SIDE	25	0.03	0.21	0.78	0.91	0.98	0.95
BLACK TISSUE FACED ONE SIDE	50	0.13	0.72	1.00	1.00	1.00	1.00

### SOUND CONTROL SERVICES