PRODUCT DATA SHEET

Foam – Basotect

Description

Basotect also known as **Melatech**, is 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 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 : fan coil 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.
- Sport & leisure : Theatre & cinema auditoria, swimming & ice arena, lecture halls

Specification

• Colour	Grey
• Size	2500x1250mm
• Thickness	6mm to 250mm
• Density	10.5kg/m³ +/- 1.5kg/m³
• Tensile Strength	>120kPa
• Hardness	40% deformation: 7 - 20kPa
• Compression Set	50% @ 70°C for 22hrs: 10%-20%
• Cell Count	130 - 200ppi approx
• Thermal Conductivity	0.035W/mK @ 10°C
• Service Temperature Range	-60 to +150°C (Short term to +250°C)
• Fire Performance	Class 0: BS476 parts 6 & 7
• Continuous Service Temp'	150°C
• Toxicity	Din 4102 Class A2

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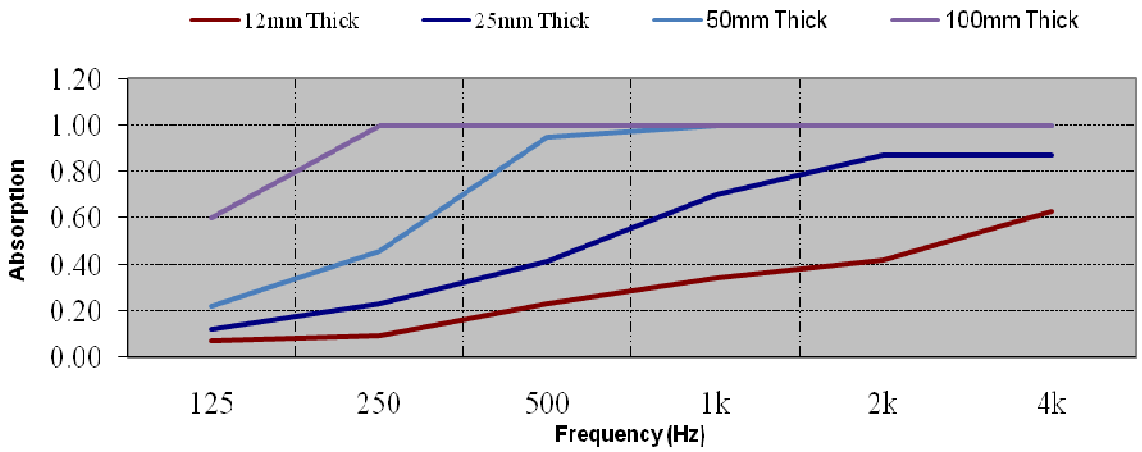
Acoustic Performance

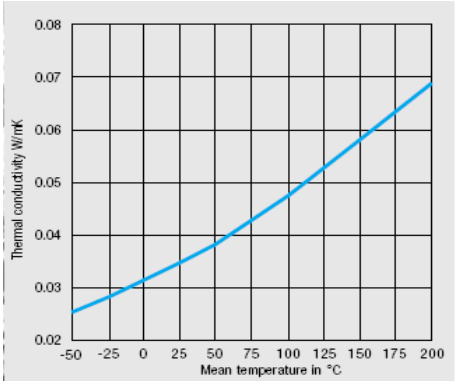
Product Type	**Sound Absorption Coefficient (tested in accordance with BS EN 20354)** Octave Bands (Hz)								Building Regulations Absorber Classification When tested to BS EN ISO 11654-1997
	Thickness (mm)	125	250	500	1k	2k	4k	α_w	**NRC**
Basotect	12	0.07	0.09	0.23	0.34	0.42	0.63	**0.30**	**0.27**	**D**
	25	0.12	0.23	0.41	0.70	0.87	0.87	**0.45**	**0.55**	**D**
	50	0.22	0.46	0.95	1.00	1.00	1.00	**0.75**	**0.85**	**C**
	100	0.60	1.00	1.00	1.00	1.00	1.00	**1.00**	**1.00**	**A**



Basotect	Thickness (mm)	Length (mm)	Width (mm)	Nominal Weight of Absorber (Kg)
	12	2500	1250	0.35
	25	2500	1250	0.70
	50	2500	1250	1.41
	100	2500	1250	2.81

Physical Properties

Fig 1:
Thermal conductivity
According to DIN 52612



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