

## Melamine Acoustic Foam

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Basotect Melatech melamine based acoustic foam is a unique, flexible, open cell foam, possessing a combination of low weight, a Class 0 fire specification and good sound absorption properties.

### MELAMINE

Produced from melamine resins, Melamine foam exhibits superior fire, temperature and chemical resistance. Furthermore being halide free, Melamine foam when exposed to either naked flame or extreme heat does not emit any of the toxic bi-products associated with conventional polyurethane based acoustic foams.

### FLEXIBILITY

Melamines low density and flexibility provide a practical material, convenient to handle, easy to cut and install, either to original equipment or on-site projects. This outstanding versatility, coupled with choice of complimentary acoustic materials, e.g. damping sheets, barriers and facings, allows Melatech foam to be used in a wide range of industrial and commercial applications where superior reverberation control is required.

**Please Note:** Although a superb acoustic foam this material does tend to expand and contract due to temperature and humidity so allowances should be made if fitting to an exact space.

### TYPICAL APPLICATIONS

<b>HVAC :</b>	fancoil units, plenum and duct linings.
<b>Building Services :</b>	wall and ceiling panels for office and conference suites, plant rooms etc.
<b>General Industrial :</b>	enclosure linings and suspended absorbers
<b>Marine :</b>	engine rooms and accomodation areas
<b>Sports and Leisure :</b>	theatre and cinema auditoria, swimming and ice arena complexes, lecture halls.
<b>Power Generation :</b>	case linings, splitter and louvre infill

### FACING OPTIONS

FGC.BK (or WH) :	Black or White 200gms weavelocked glass cloth.
FNG.BK (or WH) :	Black or White neoprene coated glass cloth.
FPG.WH :	White polyurethane coated glass cloth.
FPF.BK (or WH) :	Black or White Polyurethane film.
FPU (or FPP) :	Perforated or Unperforated PVC facing.
FAG :	Maritex - aluminium foil laminated to glass fibre fabric.
FOF : (BOAK) -	Reinforced aluminium foil.
FMP :	Metalised polyester film.
FMP.SC :	Metalised polyester film with scrim.
FVT.BK :	Black viscose tissue.

All the above also available with self adhesive (SA) backing



# Custom Audio Designs

## PRODUCT DATA SHEET

### MELAMINE ACOUSTIC FOAM

**DESCRIPTION** Light-weight open cell Class 'O' foam with excellent thermal and acoustic insulation properties.

**PROPERTIES**

**DENSITY:** 8.5-11kg/m<sup>3</sup>  
(BS4443 Part 1: Method 2)

**TENSILE STRENGTH:** 100-150 k.p.a  
(BS4443 Part 1: Method 3A)

**HARDNESS:** 7-20 k.p.a.  
(40% deformation) (DIN 53577)

**CELL COUNT:** 150-200 p.p.i.  
(BS4443 Part 1: Method 4)

**THERMAL CONDUCTIVITY:** 0.032-0.034 W/mk  
(DIN 52612)

**FIRE PERFORMANCE**

**BS476 PART 6/7:** Class O  
**FMVSS 302:** Fulfilled  
**NF P 92-501:** M1  
**ASTM E662-83:** Fulfilled  
**UL 94:** V-0, HF1  
**DIN 4102:** B1  
**DIN 54837:** S4, SR2, ST2  
**CSE RF 2/75/A & 3/77** Categ. 1

**Upper Service Temperature Limit:** 5°C

**Continuous Service:** 160 °C

### ACOUSTIC PERFORMANCE

MTL THK (mm)	ABSORPTION COEFFICIENTS					
	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)
30	0.06	0.09	0.25	0.56	0.8	0.95
50	0.08	0.20	0.55	0.9	1	0.92