



A range of open cell foams of either melamine or polyurethane construction, which can be supplied in a wide variety of sizes, profiles and surface finishes, to meet various performance requirements. A cost effective solution that is simple to install, easy to trim to size and will significantly reduce sound reflections within any space.

Melamine Foam

A lightweight, flexible material, better known as MelaTech, that is easy to handle and does not emit toxic fumes when exposed to heat. Complies with the Class 'O' requirements of the Building Regulations when tested to BS476: Part 6:1981 and Part 7:1987. Sheets can be supplied up to 1250mm x 2500mm in size, with thickness from 6mm –250mm. Plain MelaTech is white in colour and can be supplied with a variety of facings including, fabric, foil, PVC spray coating, polyurethane film and many more. The nominal density is 9.5kg/m³ +/- 1.5 and it is suitable for use in areas with temperatures as high as 150°C.

Melamine Tiles

A range of tiles utilising the same material as detailed above. Available as plain foam or in louvre, sinewave, pyramid or ridge profiles. Nominally 600mm square x 50mm thickness.

Polyurethane Foam

A general purpose acoustic foam that can be supplied in standard form for non-critical applications, or chemically impregnated to afford fire retardant properties to comply with the Class 'O' standard as above. Sheets can be supplied up to 1200mm x 2000mm in size, with thickness from 6mm-100mm. The standard foam is grey, whilst the fire retardant version is black. Similar facings to those listed for melamine foam can be supplied. The nominal density of the standard material is 28-32kg/m³ and the fire retardant version is 75kg/m³. Both are suitable for operating temperatures from -10°C to 80°C.

Auralex Studiofoam

A profiled material available in several colours and supplied either in panels or packs, dependent upon the quantity required. Studiofoam Pyramids afford an excellent combination of both appearance and acoustic performance. Available in either 51mm or 102mm thickness in 610mm x 1220mm panels, the four sided geometry also provides the bonus of a little extra diffusion of sound. The excellent visual effect created by this product lends itself to applications within both recording and broadcast studios.

Acoustic Performance

	Frequency					
	125hz	250hz	500hz	1khz	2khz	4khz
50mm Standard Melamine	0.22	0.46	0.95	1.00	1.00	1.00
50mm Melamine Tiles	0.22	0.46	0.95	1.00	1.00	1.00
50mm Standard Polyurethane	0.15	0.33	0.76	0.85	0.81	1.02
50mm Class 'O' Polyurethane	0.24	0.46	0.71	0.84	0.87	1.02
51mm Studio foam Pyramids	0.13	0.18	0.57	0.96	1.03	0.98
102mm Studio foam Pyramids	0.27	0.50	1.01	1.13	1.11	1.12

Application

All of the above materials can be readily bonded to solid wall or ceiling substrates. Care, however, needs to be taken as dimensional changes in foam can occur, particularly with Melamine, dependant on the relative humidity of the surrounding air. Due allowance must therefore be made to overall sizes to compensate for possible moisture content. We consequently recommend that shadow gaps are left between sheets or panels. Various adhesives can be supplied dependant on the foam and the substrate to which it will be applied.

