category	sound absorber
description	melamine acoustic foam
part code	F370 – F450

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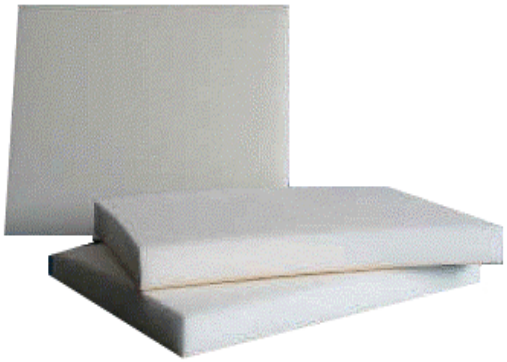


F370 (ETC.) BASOTECT MELATECH MELAMINE-BASED ACOUSTIC FOAM is a unique, flexible, open cell foam, possessing a combination of low weight, a Class 0 fire specification and good sound absorption properties.

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

Flexibility

- Low density
- Good flexibility
- Convenient to handle
- Easy to cut and install
- Practical

Outstanding versatility, coupled with a choice of complementary 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.

Typical Applications

HVAC: fan coil units, plenum and duct linings.

Building Services: wall and ceiling panels for offices and conference suites, plant rooms, etc.

General Industrial: enclosure linings and suspended absorbers.

Marine: engine rooms and accommodation areas.

Sports and Leisure: theatre and cinema auditoriums, swimming and ice arena complexes, lecture halls.

Power Generation: case linings, splitter and louvre infill.

Technical Specification

Product	F370/380/390/400/410/420/430/440/450/460 Melamine Foam
Description	Melamine-based acoustic foam
Colour	Light grey
Nominal sheet size	1250mm x 1250mm
Weight	5kg/m^2
Nominal thickness	25mm, 50mm, 75mm and 100mm
Density	approx. 10kg/m^3
Flammability	Class 0 to BS476 Part 6&7
Thermal conductivity	0.035 W/mK @ 10ºC
Continuous operating temperature	up to 150ºC

Acoustic Performance

Facing	Thickness (mm)	Sound Absorption Coefficient (BS EN 20345 1993)					
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Plain	25	0.04	0.22	0.54	0.74	0.88	0.92
	50	0.22	0.46	0.95	1.00	1.00	1.00
Thin Tissue	25	0.03	0.21	0.78	0.91	0.98	0.95
	50	0.13	0.72	1.00	1.00	1.00	1.00
PVC Coated Glass Cloth	25	0.10	0.36	0.98	0.35	0.14	0.16
Class 0 Foil	25	0.09	0.33	1.00	0.42	0.19	0.20

Installation

In general the material is fixed using proprietary adhesives; alternatively it is available with self-adhesive backing.

Please contact our technical department for advice on the use of adhesives.

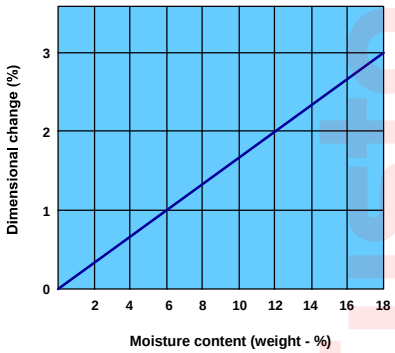
Bespoke

Although we generally supply the material in standard sheet sizes, we can manufacture to other custom sizes and thicknesses subject to minimum orders.

We can also apply a wide range of facing options. For more information contact our Technical Department.

Please Note:

This superb acoustic foam will naturally expand and contract due to temperature and humidity variations; please therefore make allowances if fitting to an exact space.



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