

# TECHNICAL DATA SHEET

## MELAMINE ACOUSTIC FOAM

### PRODUCT DESCRIPTION

CMS Danskin Acoustics Melamine is a general purpose acoustic foam that due to its extended properties is highly adaptable acoustic foam. It is an open cell acoustic foam available in both light grey as standard and white to order.

### BENEFITS

- Available in sheet form or cut to size
- Suitable for high temperature applications
- Lightweight, easy to handle and install
- Available with various backings including self- adhesive backing and Class '0' foil facing

### APPLICATIONS

- Internal and external duct linings
- Thermal / acoustic machine coverings
- Suspended ceiling absorptive panels
- Composites combined with an acoustic barrier material for external lagging

### FACING AND BACKING MATERIALS

CMS Danskin Acoustics Melamine acoustic foam is available in plain format or with a wide range of facing and backing materials to suit the application or to ease installation.

#### Standard surface treatments available are:

- Self adhesive backing.
- Class '0' foil facing



### PHYSICAL INFORMATION

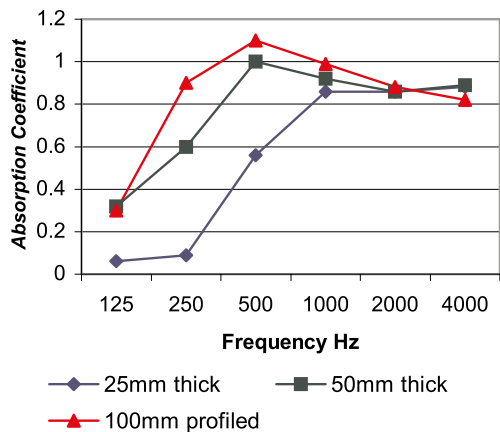
Standard sheet size	2.5m x 1.25m
Thickness	6mm to 100mm
Density	11 kg/m <sup>3</sup>
Tensile strength	100 to 150 kPa
Hardness (DIN 53577) (40% deformation)	7-13kpa
Thermal Conductivity (DIN 52612)	0.032 to 0.034 W/mK
Cell count	150/200 ppi
Operating temperatures	0 to 220°C (continuous)

## Acoustic Performance

CMS Danskin Acoustics Melamine acoustic foam is a high performance material that has been acoustically tested at a certified independent test laboratory.

### Random Incidence Sound Absorption Coefficients

Material\Hz	125	250	500	1k	2k	4k
25mm thick	0.06	0.09	0.56	0.86	0.86	0.88
50mm thick	0.32	0.60	1.00	0.92	0.86	0.89
100mm profiled	0.30	0.90	1.10	0.99	0.88	0.82



## INSTALLATION GUIDELINES

CMS Danskin Acoustics Melamine acoustic foam is lightweight, easy to handle and simple to install.

## Plain Melamine Foam

Installing plain Melamine foam can be accomplished by either bonding or using mechanical fixings, or a combination of both.

- 1) First, ensure that the substrate surface is dry, clean and free from oil and grease (this can be achieved using a solvent).
- 2) For vertical surfaces, the Melamine foam should be laid, cross bonded, from the bottom upwards using a suitable adhesive.
- 3) For overhead or inverted surfaces, a combination of bonding and mechanical fixings should be used to avoid sagging of the Melamine foam, especially for sheets over 50mm thick. Support pins should be fixed to the surface at a rate of 6 pins per m<sup>2</sup>. Once the pins are in place, the Melamine foam should be cross bonded, and from one side press the Melamine foam to firmly fix the material in place.

## INSTALLATION ACCESSORIES

CMS Danskin Acoustics can recommend the following products to assist installation.

### Pins and Washers

CMS Danskin Acoustics pins and washers are available in two designs.

- 1) With a self adhesive base.
- 2) With a perforated base for use with a separate adhesive.

Both types consist of a pointed spike attached to a square steel base. The CMS Danskin Acoustics Melamine Foam is held in place by a self-locking washer, which is slid over the spike after the material is installed.

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