

# 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
Toxicity (DIN 4102)	Class A2
Operating temperatures	0 to 220°C (continuous) 295°C (max. intermittent)

## TECHNICAL INFORMATION

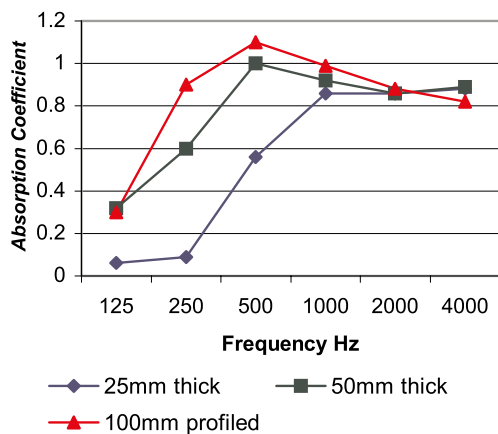
BS 476-6	Index 9.5 Pass
BS 476-7	Class 1
BS 476-6 & BS 476-7	Class '0'
Sheet size	1m <sup>2</sup>

## 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.

## INSTALLATION SERVICE

In addition to supply of this product CMS Danskin Acoustics can provide a listing of competitively-priced approved installers that service anywhere in the UK. Use of this service ensures that installation is performed to the highest standards by tradesmen fully experienced in the specialist skills of fitting CMS Danskin Acoustics materials correctly.

Please contact your local CMS Danskin Acoustics for a list of approved and qualified installers.

## CMS DANSKIN ACOUSTICS

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**IMPORTANT:** Directions for use are given for guidance only and are not intended to form part of any contract. They should be varied or adapted to suit your particular materials or conditions of use. Goods supplied by the company are made to approved standards from the highest quality raw materials but no warranty or guarantee is given as to their suitability for any particular purpose or application, and no liability is accepted for any loss or damage arising directly or indirectly from the use of the Company's products irrespective of any information given to us as to intended use of such products. It is therefore recommended that prospective users should test a sample of this product under their own conditions to satisfy themselves that the product is suitable for the purpose intended.

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ACOUSTICS