Melamine Acoustic Foam



Technical Data Sheet

PRODUCT

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.

FEATURES and 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	5m x 1.25m		
Thickness	6mm to 100mm		
Density	11 kg/m³		
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)		

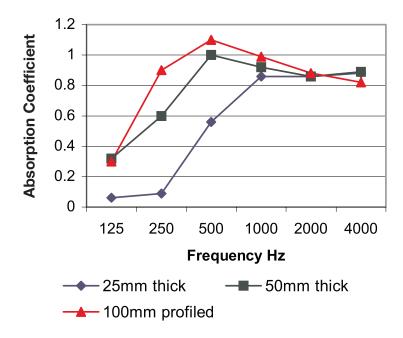


ACOUSTIC PERFORMANCE

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



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 m². 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.







CMS Danskin Acoustics is part of the

own purpo p.com are c reser

IMPORTANT: The information provided within this document is believed correct and to the best of our available knowledge at its revision date and is provided as suggestion for safe handling, storage, transportation, use and disposal. The information should not be considered obligation in respect of warranty of (technical) performance, quality (specification) or suitability for any application or design. The customer must satisfy themself the product (or draft specification) are relevant and suitable for their need and design intent. Prospective users should test a sample of product under their own conditions to satisfy themselves of its suitability for intended purpose and that expert advice be sought where different applications are contemplated. Due to our policy of continuous improvement we reserve the right to alter or amend published specification or design without prior notice. Reproduction of any part of this publication in any manner is not permitted without our prior written consent.