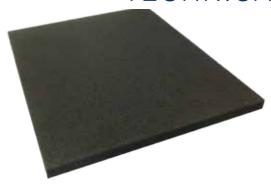
TECHNICAL INFORMATION SHEET



Advantages

- Available in sheet or roll form.
- Flexible and easily cut.
- Easy to handle and install.
- CFC and HCFC free.
- Available with various backings including self-adhesive backing and Class '0' foil facing.
- Non-toxic.

Applications

- Internal and external duct linings.
- Thermal & acoustic machine coverings.
- Suspended ceiling absorptive panels.
- Composite constituent combined with acoustic barrier material for acoustic flooring and external lagging.

Description

A general purpose acoustic foam that due to its extended properties is highly adaptable. CMS Danskin Acoustics Class '0' acoustic foam is a fire retardant modified polyurethane acoustic foam designed to meet the stringent requirements of British Building Regulations. Dark grey/black in colour, it is CFC and HCFC free.

Physical Information

Standard sheet size: 2m x 1.2m (also available in 10m & 20m rolls)

Standard thicknesses: 6, 12, 25 and 50mm

15, 20, 30, 45, 75 and 100mm thicknesses available

to order subject to quantity.

Density 80 to 100kg/m³

Indentation Hardness 156 N

Elongation at break 188% (minimum unaged)

Operating temperatures 80°C (max. continuous)

110°C (intermittent)

-30°C (minimum)

Technical Information

Fire Tests

BS 4735

BS476: Parts 6 & 7 Building Regulations Class '0'

BS476: Part 5: 1979 Class 'P'
BS476: Part 6: 1981 F.p.i index 8.5
BS476: Part 7: 1987 Class 1

BS 5852 Part 2 Pass
Civil Aviation CAA8 / FAA Pass

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Flammability(FMVSS 302) Zero burn rate

ASTM 1692: 1974 Resists ignition

UL 94 Classification 94-V-0
ATS1000.001 Smoke Toxicity Pass

Erosion Resistance 10,000cu ft/min NES (Naval Eng. Standard) 713 Issue 3

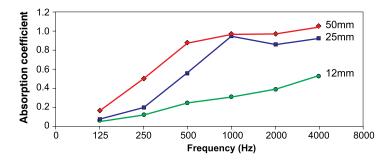
Acoustic Performance

CMS Danskin Class '0' Foam is a high performance material that has been acoustically tested at a UKAS certified independent test laboratory.

Char 4.5mm

Random Incidence Sound Absorption Coefficient as tested in accordance with BS3638:1987

Ma	Material Thickness	Frequency (Hz)							
Thi		125	250	500	1k	2k	4k	NRC	
12	mm	0.08	0.14	0.22	0.32	0.40	0.53	0.27	
25	mm	0.08	0.20	0.56	0.93	0.84	0.92	0.63	
50	mm	0.19	0.49	0.87	0.97	0.97	1.04	0.76	



Acoustic Performance (cont)

Ductwork Attenuation (dB) - Airborne noise

Material	Duct Size	Frequency (Hz)						
Thickness		125	250	500	1k	2k	4k	
12mm	900x600	0.2	0.6	1.7	3.7	5.3	4.5	
25mm	900x600	0.2	0.8	2.9	10.8	6.9	7.2	
50mm	900x600	0.8	2.9	7.2	11.0	7.1	6.2	
25mm	450x600	0.4	1.0	3.3	14.1	8.3	8.9	
50mm	450x600	1.6	3.1	8.7	16.6	8.8	8.6	
25mm	300x600	0.6	1.4	3.8	15.1	12.0	11.4	
50mm	300x600	2.6	5.4	10.5	19.5	15.1	11.6	

Ductwork Attenuation (dB) - Breakout noise

Material	Duct Size	Frequency (Hz)						
Thickness		125	250	500	1k	2k	4k	
12mm	900x600	2.9	5.1	8.8	4.2	7.2	13.0	

Facing and Backing Materials

CMS Danskin Acoustics 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 (COFF)
- Melinex Facing
- 200gm Woven Glass Cloth Facing
- S-V1 Polymeric Coating
- SVG1 Vinyl Coated Glass Cloth Facing

Installation Guidelines

CMS Danskin foam is easy to handle and simple to install. To facilitate easy handling it is recommended that it be installed in sheets not larger than $2m \times 1.2m$, but larger sizes are available to special order.

Plain CMS Danskin Acoustics Foam

Installing plain (unfaced and unbacked) CMS Danskin Acoustics foam can be accomplished by either bonding or using mechanical fixings, or a combination of both.

First, ensure that the substrate surface is dry, clean and free from oil and grease (this can be achieved using a solvent cleaner)

For vertical surfaces, it should be laid, cross bonded, from the bottom upwards using a suitable adhesive such as CMS Danskin Acoustics A8514.

For overhead or inverted surfaces, a combination of bonding and mechanical fixings must be used to avoid sagging of the foam. Support pins should be fixed to the surface at a rate of 9 pins per m². Once the pins are in place, the foam should be cross bonded, and from one side press the foam to firmly fix the material in place.

Self Adhesive foam

Installing foam with a self adhesive backing provides a quick and efficient means of applying the acoustic foam

First, ensure that the substrate surface is dry, clean and free from oil and grease (this can be achieved using a solvent cleaner).

The self-adhesive backing is protected with a backing paper that can be peeled off. If it is required to cut the acoustic foam to size, it is recommended this is undertaken before removal of the protective backing.

When the acoustic foam is cut to size, peel back one edge of the backing paper and line the material edge up square, then gently peel off completely and press until the panel is fixed firmly.

Apply an even pressure by pad or roller to ensure intimate contact between the self adhesive film and the substrate surface.

When adhering onto vertical or inverted horizontal surfaces, it is recommended to additionally use a mechanical fixing method such as hangers to prevent sagging of the acoustic foam at 9 per m².

Note, when using acoustic foam of 25mm thickness or greater on vertical surfaces, it is necessary to additionally use mechanical fixing hangers to help support the acoustic foam to the substrate surface.

Installation Accessories

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

Aerosol Adhesive

SPRAYTACK

CMS Danskin Acoustics SPRAYTACK is a specially formulated non-flammable synthetic rubber adhesive. Available in 500ml aerosol cans, which provides approximately 5m² coverage. CMS Danskin Acoustics SPRAYTACK is a contact adhesive that requires application to both surfaces before bonding.

STA-PUT

STA-PUT is a simple, strong adhesive spray for bonding materials to concrete, brick, wood, plaster or metal walls and ceilings. Available in 500ml aerosol cans, which provide approximately 3.4m² coverage. Offers immediate bond strength.

Brush Applied Adhesive

A8514 is a low n-Hexane formula designed specifically for CMS Danskin Acoustics material, and provides rapid tack development. Available in 5 litre cans, which provides approximately 10m² coverage. CMS Danskin Acoustics A8514 can be used either as a one way wet or two way dry contact adhesive the latter is recommended as the best method for fixing CMS Danskin Acoustic materials. Always stir the can well before use.

Pins and Washers

CMS Danskin 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 Class '0' 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 acoustic materials correctly.

Please contact CMS Danskin on 01925 577711 for a list of approved and qualified installers.

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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