

TECHNICAL INFORMATION SHEET

Description

CMS Danskin Acoustics FR25 acoustic foam is a Fire retardant polyether based polyurethane foam designed to provide acoustic and fire resistant properties. It is grey in colour and flexible to use and handle.

Physical Information

Standard sheet size:	2m x 1.2m
Standard thicknesses:	12mm, 25mm, and 50mm.
Density	21-25 kg/m ³
Indentation Hardness	125-155 N
Tensile strength	70kps
Elongation at break	150% (minimum unaged)
Operating temperatures	80°C (max continuous) 110°C (intermittent) -30°C (minimum)



Benefits

- Available in sheet form.
- Flexible and easily cut.
- Easy to handle and install.
- Suitable for curved surfaces or complex shapes.
- Available with a self-adhesive backing.
- Available with various backings including self-adhesive backing

Applications

CMS Danskin Acoustics FR25 acoustic foam is typically used for machinery enclosures, doors, walls, partitions and air conditioning ducts. It is also ideal for insulating cabs of industrial vehicles and enclosures for vehicle and boat engines. For wall and machinery enclosures, the acoustic performance of CMS Danskin Acoustics FR25 can be dramatically enhanced when used in combination with DS damping sheet and WB Sound Barrier. FR25 is a non-dusting and flexible acoustic foam that provides excellent sound absorption.

Technical Information

CMS FR25 acoustic foam conforms to the following specifications:

Fire Tests

BS 4735 :1974*	Complies
Flammability (FMVSS 302)	Pass

*BS 4735 contains the statement "The test results relate to the behaviour of the test specimens under particular conditions of test: they should not be used as a means of assessing the potential fire hazard of the material in use".

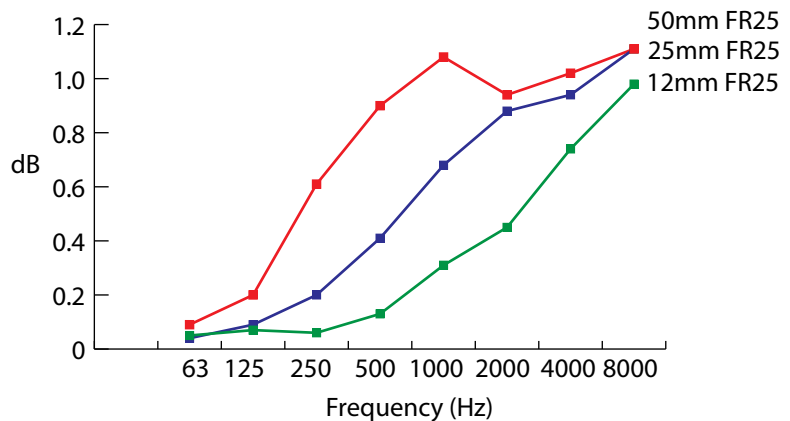
Installation Service

CMS Danskin Acoustics FR25 acoustic foam is a high performance material that has been acoustically tested as follows.

Random Incidence Sound Absorption Coefficients

Material\Hz	63	125	250	500	1k	2k	4k	8k
12mm FR25	0.05	0.07	0.06	0.13	0.31	0.45	0.74	0.98
25mm FR25	0.04	0.09	0.20	0.41	0.68	0.88	0.94	1.11
50mm FR25	0.09	0.20	0.61	0.90	1.08	0.94	1.02	1.11

Sound Absorption Coefficient



Facing and Backing Materials

CMS Danskin Acoustics FR25 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 (COFF)
- Melinex Facing

Installation Guidelines

CMS Danskin Acoustics FR25 acoustic foam is easy to handle and simple to install. To facilitate easy handling it is recommended that FR25 foam be installed in sheets not larger than 2m x 1.2m.

Plain FR25 Foam

Installing plain FR25 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 FR25 foam should be laid, cross bonded, from the bottom upwards using a suitable adhesive.
- 3) For overhead or inverted surfaces, due to its lightweight, the FR25 can be fitted without the need for mechanical fixings and the use of adhesive only is usually sufficient to hold the acoustic foam in place.

Self Adhesive FR25 foam

Installing FR25 foam with a self adhesive backing provides a quick and efficient means of applying the acoustic foam.

- 1) First, ensure that the substrate surface is dry, clean and free from oil and grease (this can be achieved using a solvent).
- 2) The FR25 foam with a 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.
- 3) 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.
- 4) Apply an even pressure by pad or roller to ensure intimate contact between the self adhesive film and 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 FR25 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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