

TECHNICAL DATA SHEET

FR25 ACOUSTIC FOAM

PRODUCT DESCRIPTION

CMS Danskin Acoustics FR25 acoustic foam is a Fire retardant polyether based polyurethane foam designed to provide acoustic and fire resistant properties in external and industrial applications (contact CMS Danskin Acoustics for alternative Class "0" products if the intended application is domestic/habitated). It is grey in colour and flexible to use and handle.

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



PHYSICAL INFORMATION

Burn Rate (FMVSS 302)*:	PASS (≤ 102 mm/min)
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)

*Laboratory test average burning rate 0.0 mm/min

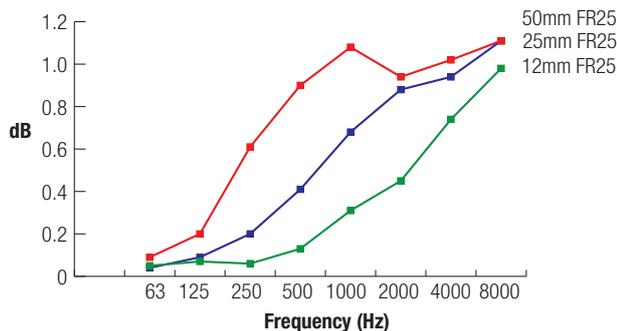
INSTALLATION SERVICE

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

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.

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 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 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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Email: info@cmsdanskin.co.uk Website: www.cmsdanskin.co.uk

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