

Technical Data Sheet

PRODUCT

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. It is grey in colour and flexible to use and handle.

FEATURES and 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

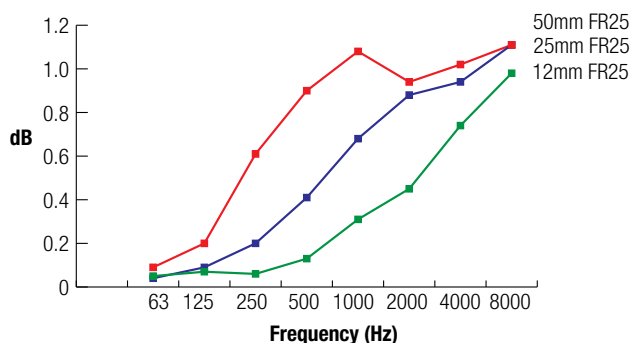
Standard sheet size:	2m x 1.2m
Standard thicknesses:	12mm, 25mm, and 50mm
Density	21-25 kg/m ³
Indentation Hardness	125-155 N
Tensile strength	70kps
Elongation at break	150% (minimum unaged)
Operating temperatures	90°C (max) -20°C (minimum)

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 'O' 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.