

TECHNICAL DATA SHEET

DAMPING SHEET

PRODUCT DESCRIPTION

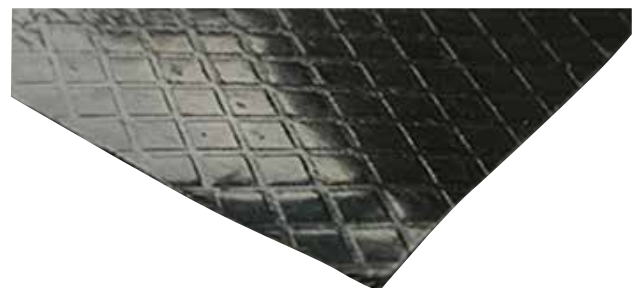
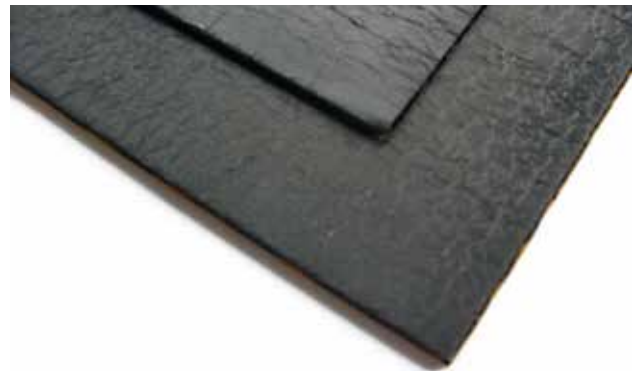
CMS Danskin Acoustics DS Damping Sheet is a bitumen enriched, self adhesive backed material manufactured from a mixture of bitumen, plasticizers and elastomers. The adhesive backing is protected by a silicon release paper that permits easy storing and stacking. CMS Danskin Acoustics DS damping sheet is black in colour (DS 13 dark grey).

BENEFITS

- Available in sheet form
- Flexible and easily cut
- Easy to handle and install
- Available in four standard weights
- Provides a cost effective sound proofing solution

APPLICATIONS

- Sound proofing of formed steel or aluminium panels and cabinets
- Steel panels in the automotive industry and agricultural machinery
- Widely used in air-conditioning ductwork and the white goods industry
- Used in conjunction with CMS Danskin Acoustics products to dramatically enhance acoustic performance



PHYSICAL INFORMATION

Sheet length	1.50m (standard length) 1.08m (DS 13 only)
Sheet width	1.00m (standard width) 1.02m (DS 13 only)

Available in cut to size components. Details available upon request.

DS 13	1.7mm thick	1.7 kg/m ² *
DS 03	1.5mm thick	3 kg/m ² *
DS 05	3.0mm thick	5 kg/m ² *
DS 10	5.0mm thick	10 kg/m ² *

* Nominal weight

TECHNICAL INFORMATION

Density	1.8 to 2.0 gr/cc
Combustion speed (ISO 9772)	<20mm/min
Flexibility at >10°C	20mm diameter cylinder
Adhesive instant tack (ASTM D 3121)	<10cm
Adhesive cohesion (FINAT 8)	>4 hours
Service temperature	-30°C to +70°C continuous +90°C for intermittent periods
Shelf life	6 months at 10 to 35°C

ACOUSTIC PERFORMANCE

CMS Danskin Acoustics DS Damping Sheet is a high performance material that has been acoustically tested at a UKAS certified independent test laboratory.

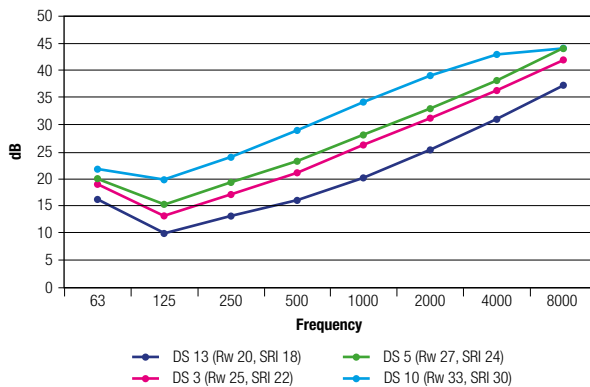
Tested and rated according to:

BS EN ISO 717-1:2013

Transmission Loss Data

Material	Frequency							
	63	125	250	500	1k	2k	4k	8k
DS 13	16	10	13	16	20	25	31	37
DS 03	19	13	17	21	26	31	36	42
DS 05	20	15	19	23	28	33	38	44
DS 10	22	20	24	29	34	39	43	44

Transmission Loss



Acoustic Data

	DS 13	DS 3	DS 5	DS 10
Loss Factor*	0.14	0.152	0.22	0.35
Decay Rate (dB/s)**	11	15	40	98

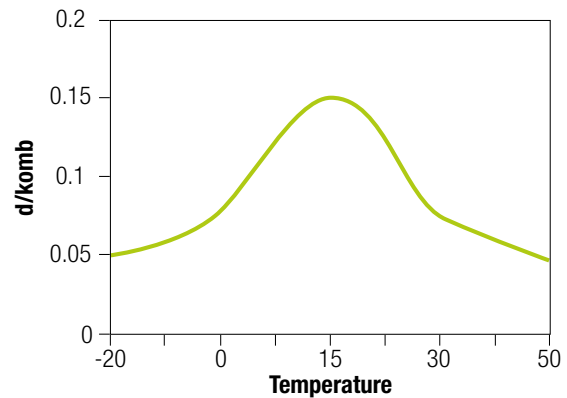
* Test method: Oberst@20°C 299Hz freq (DIN 53440).

** Test method: Geiger 5mm plate SAE@ 20°C. Decay rate is the rapidity with which a sound level attenuates after the source of sound is switched off.

Sound Reduction Index

Hz	125	250	500	1k	2k	4k	
dB	27	32	32	33	41	43	0.8mm steel + DS 10
dB	8	14	20	26	32	38	0.8mm steel only

Loss Factor (DS 13 only)



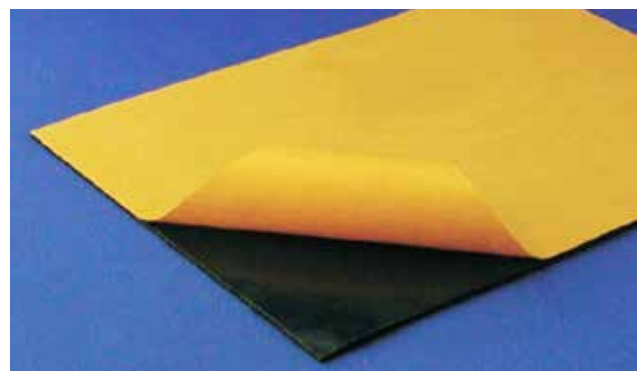
INSTALLATION GUIDELINES

CMS Danskin Acoustics Damping Sheet is simple to install.

When selecting the damping sheet weight to use, it is recommended that the thickness of the Damping Sheet is 1 to 2 times that of the panel thickness being treated.

As the Damping Sheet is supplied with a self-adhesive backing, it is important to ensure that the surface is clean and free from dust and grease. After aligning the damping sheet, peel back the release paper and adhere to the surface. To ensure that sufficient pressure is equally applied to the damping sheet, use a pressure roller or pressure pad. Adhesion is enhanced at temperatures above 30°C.

It is important to note that in cold weather, care should be taken when handling the Damping Sheets as the material can be quite brittle.



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 office for a list of approved and qualified installers.

CMS DANSKIN ACOUSTICS

Scotland Office: Tel: **01698 356000** Fax: **01698 372222**
1 Netherton Road, Wishaw, ML2 0EQ

Central/Southern Office: Tel: **01925 577711** Fax: **01925 577733**
Unit 2 Lyncastle Road, Appleton, Warrington, WA4 4SN

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

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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ACOUSTICS

