

DS Series Type 1, Type 2 and FT13

Technical Data Sheet

PRODUCT

CMS Danskin Acoustics DS Damping Sheet is a bitumen enriched, self adhesive backed material manufactured from a mixture of bitumen, plasticizers, fillers 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). DS13 is a lightweight Bitumen impregnated card type damping sheet.

FEATURES and 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
- Boosts the low frequency performance of Duct Lagging Treatments

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

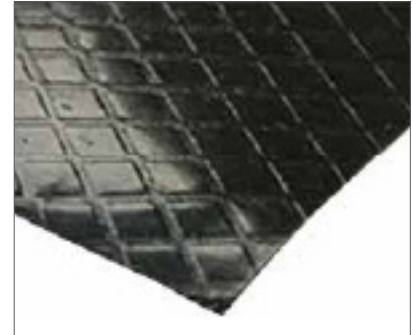
PHYSICAL INFORMATION

Sheet length	1.50m - Type 1 1.08m - DS 13 only 1.00m - Type 2
Sheet width	1.00m - Type 1 1.02m - DS 13 only 1.00m - Type 2

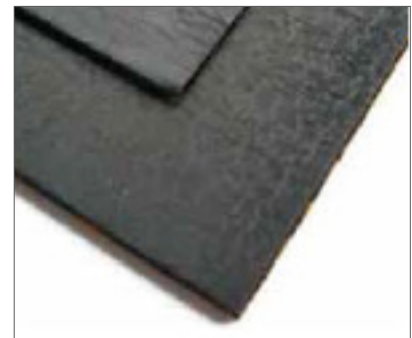
Available in cut to size components. Details available upon request.

DS 13	1.6mm thick	1.6 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 *

*Normal weight



Type 1



Type 2

TECHNICAL INFORMATION

Density	1.8 to 2.0 gr/cc
Service temperature	Type 1 -20°C to +80°C 24hr in vertical position, continuous in Horizontal position Type 2 Up to 100°C DS13 -30°C to +90°C
Flexibility at >10°C	Type 1 20mm diameter cylinder Type 2 60mm diameter cylinder
Adhesive instant tack (ASTM D 3121)	Type 1 Instant Tack under 7cm IOL Q51 Adhesive peel at 90degrees after 2hrs over 5N/cm Av ISO 4578 Type 2 Adhesive peel at 20°C over 4N/cm
Adhesive cohesion (FINAT 8)	>4 hours
Shelf life	Type 1 6 months @ 10°C to 35°C avoid direct sunlight Type 2 3 months @ 18°C to 35°C

TECHNICAL INFORMATION continued

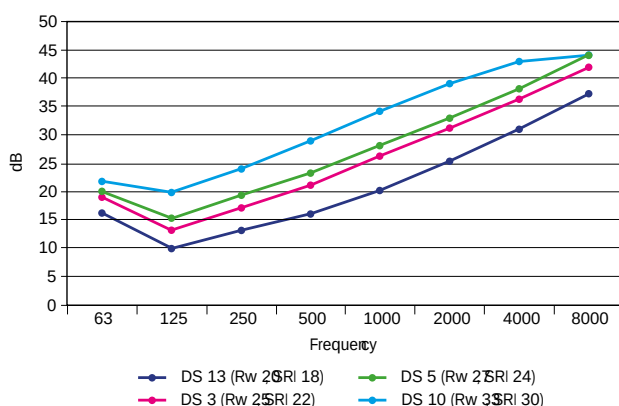
DS 10 Type 1 when used in conjunction with SuperLag 10/50 and 0.6mm steel improves the performance from 36dB (-3, 8) to 45dB (-3, 10).

Testing to BS EN ISO 10140-2-2010 and
BS EN ISO 717-1-1997

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

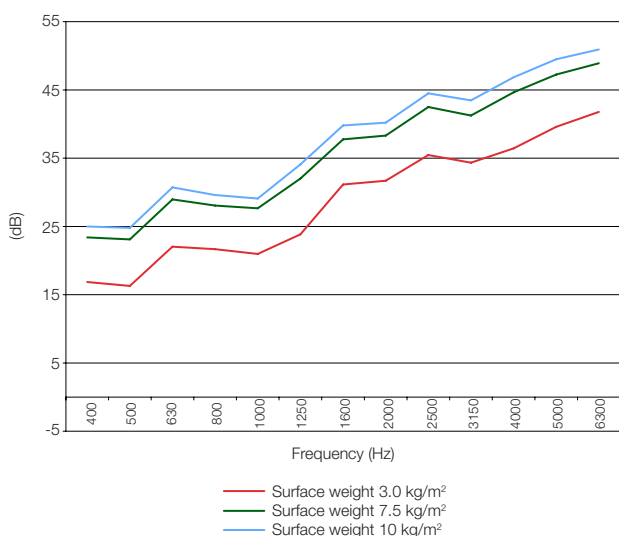
TRANSMISSION LOSS



ACOUSTIC DATA

	DS 13	DS 3	DS 5	DS 10
Loss factor*	0.14	0.152	0.22	0.35

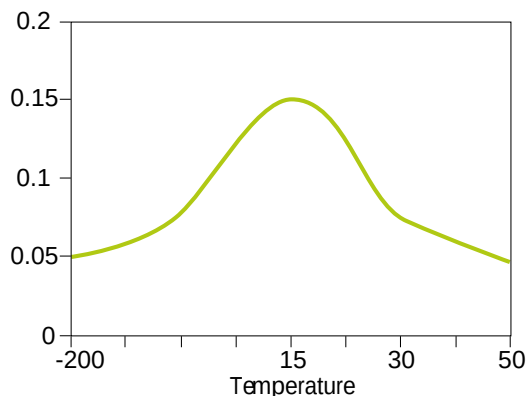
*Test method: EN ISO 6721-3



SOUND REDUCTION INDEX

Hz	125	250	500	1k	2k	4k	
dB	27	32	32	33	41	43	0.8mm steel + DS10
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.

