

## Technical Data Sheet

### PRODUCT

CMS Danskin Acoustics SuperLag Acoustishield is a five part laminate incorporating an inner 25mm glass fibre spacer or isolating layer backed by woven glass tissue, a middle heavy mass barrier of lead or a polymeric acoustic barrier material with an outer 25mm glass fibre spacer with a Class 'O' foil facing. The heavy mass barrier is available with a surface weight of 5kg/m<sup>2</sup> for standard applications or high performance requirements, a 10kg/m<sup>2</sup> barrier is available.



### Product designations are as follows:

L5 is with a 5kg/m<sup>2</sup> lead barrier  
L10 is with a 10kg/m<sup>2</sup> lead barrier  
P5 is with a 5kg/m<sup>2</sup> polymeric barrier  
P10 is with a 10kg/m<sup>2</sup> polymeric barrier

### FEATURES and BENEFITS

- Available in sheet form
- Flexible and easily cut
- Easy to handle and install
- Excellent acoustic performance
- Single product wrap

### APPLICATIONS

SuperLag Acoustishield is typically used for air conditioning ductwork, and pipe work that requires acoustic treatment.

### TECHNICAL INFORMATION

Acoustic spacer	Glass fibre 25mm thick, 16-24 kg/m <sup>3</sup> nominal density. White glass tissue backing.
Thermal spacer	Glass fibre 25mm thick, 16-24 kg/m <sup>3</sup> nominal density. Class 'O' foil facing.
Service temperature	-30 to 100°C.
Chemical resistance	Oils, water, most solvents.
Thermal Conductivity	0.037 W/m <sup>o</sup> K to BS 4745.
R Value	1.35m <sup>2</sup> /Kw.

## PHYSICAL INFORMATION

### Dimensions

Standard sheet size: 2m x 1.2m

Other sizes are available upon request.

### Grades

CMS Danskin Acoustics SuperLag Acoustishield is available in four grades to suit different performance requirements:

Grade	Sheet (kg/m <sup>2</sup> )	Thickness (mm)*
L5	5	43
L10	10	43
P5	5	45
P10	10	49

\*Nominal thickness after glass fibre is quilted

## ACOUSTIC PERFORMANCE

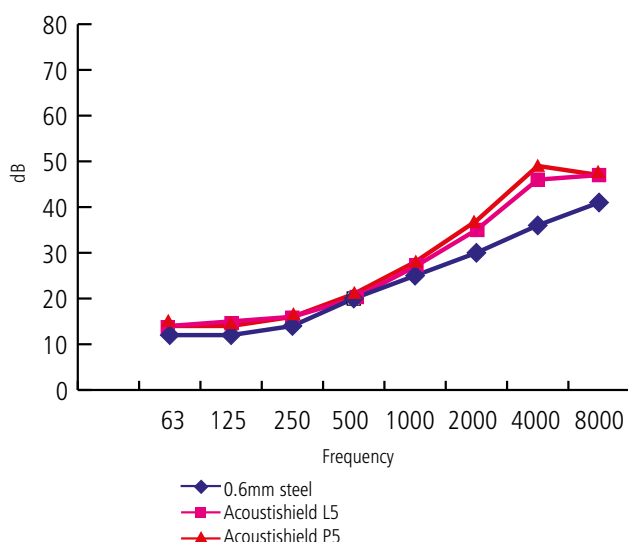
CMS Danskin Acoustics SuperLag Acoustishield is a high performance material that has been acoustically tested at certified independent test laboratories.

### Tested and Rated according to:

BS EN ISO 717-1  
BS EN ISO 10140-2

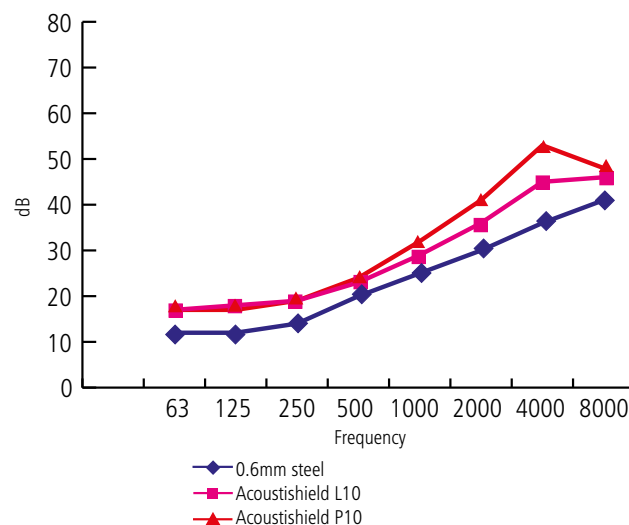
## ACOUSTISHIELD L5/P5

Material/Frequency	63	125	250	500	1k	2k	4k	8k
0.6mm steel	12	12	14	20	25	30	36	41
Acoustishield L5	14	15	16	20	27	35	46	47
Acoustishield P5	14	14	16	21	28	37	49	47



## ACOUSTISHIELD L10/P10

Material/Frequency	63	125	250	500	1k	2k	4k	8k
0.6mm steel	12	12	14	20	25	30	36	41
Acoustishield L10	17	18	19	23	29	36	45	46
Acoustishield P10	17	17	19	24	32	41	53	48



## INSTALLATION GUIDELINES

The method required in the fitting of SuperLag Acoustishield is dependent on several factors.

- 1) The size and circumference of the duct.
- 2) The shape of the duct - rectangular or round.
- 3) The ambient temperature and temperature within the duct normal and maximum.
- 4) The location of the duct inside or outside.

### Circular ductwork

Round ducts where one sheet of SuperLag Acoustishield will completely lap the circumference can be insulated without the need for adhesives or extra mechanical fixings. Mating edges are sealed with a foil faced adhesive tape to match the finish required.

The SuperLag Acoustishield insulation can be secured to large round ducts using proprietary banding systems, in conjunction with the edge tape.

### Rectangular ductwork

Rectangular ducts normally require additional support for the SuperLag Acoustishield in the form of contact adhesive and/or proprietary insulation fixings, particularly on the underside where the SuperLag Acoustishield will tend to hang away from the duct surface.

It is recommended that large intricate ducts be further supported and reinforced with 25mm wire mesh (i.e. chicken wire) and wire ties.

Banding rectangular ductwork is not recommended as insufficient support is given across the sides of the duct and the SuperLag Acoustishield will be compressed at the corners, thus affecting performance.