

TECHNICAL DATA SHEET

SUPERLAG ACOUSTISHIELD

PRODUCT DESCRIPTION

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 Class 'O' foil facing.

The heavy mass barrier is available with a surface weight of 5kg/m² for standard applications or high performance requirements, a 10kg/m² barrier is available.

Product designations are as follows:

L5 is with a 5kg/m² lead barrier

L10 is with a 10kg/m² lead barrier

P5 is with a 5kg/m² polymeric barrier

P10 is with a 10kg/m² polymeric barrier

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 ³ nominal density. White glass tissue backing.
Thermal spacer	Glass fibre 25mm thick, 16-24 kg/m ³ nominal density. Class 'O' foil facing.
Service temperature	-30 to 100°C (250°C Short Term).
Chemical resistance	Oils, water, most solvents.
Fire resistance	Class 'O'.
Thermal Conductivity	0.037 W/m ² K to BS 4745.
R Value	1.35m ² /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 ²)	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.

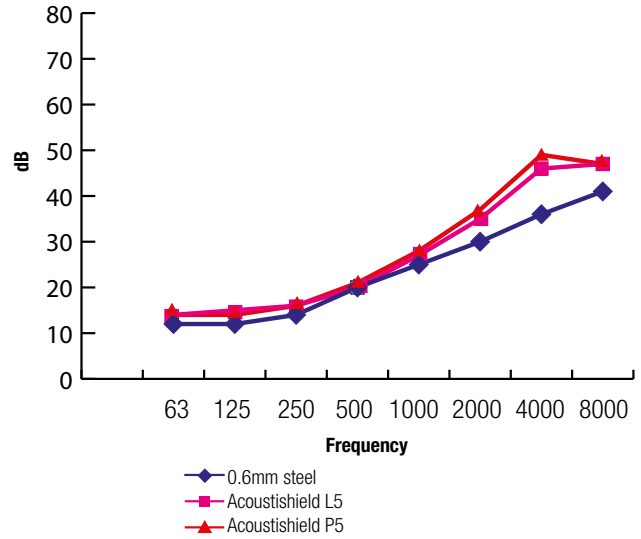
Tested and Rated according to:

BS EN ISO 717-1

BS EN ISO 10140-2

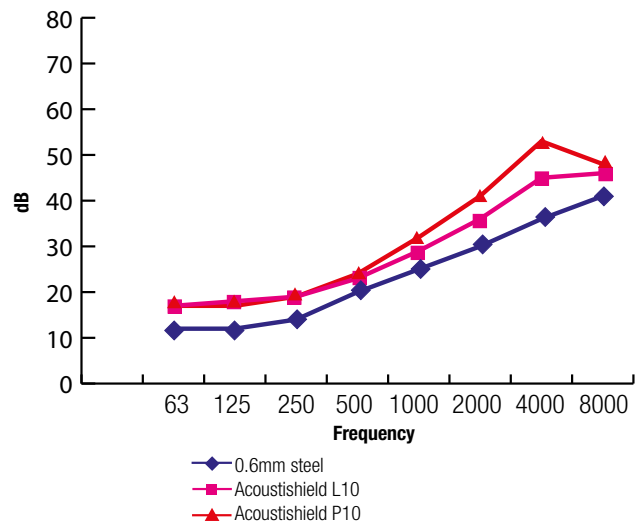
Acoustishield L5/P5

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.

INSTALLATION ACCESSORIES

CMS Danskin recommends the following products to assist installation:

Aerosol Adhesive

SPRAYTACK is a specially formulated non-flammable 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 SuperLag Acoustishield is held in place by a self-locking washer, which is slid over the spike after the material is installed.

CMS DANSKIN ACOUSTICS

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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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