

# TECHNICAL DATA SHEET

## SUPERLAG ORIGINAL POLYMERIC

### PRODUCT DESCRIPTION

CMS Danskin Acoustics SuperLag Original Polymeric is a flexible material consisting of a five part laminate incorporating a scrim backed acoustic spacer layer, a heavy polymeric mass barrier and an outer thermal insulating layer with vapour barrier meeting Class 'O'. Being of a laminated construction it overcomes the need for a separate isolation layer normally required beneath most forms of acoustic lagging.

### BENEFITS

- Easy and quick to apply
- Excellent acoustic performance
- Applied as a single layer treatment
- Excellent fire resistance & temperature stability
- Highly durable
- Low thermal conductivity
- Polymeric sheet mass barrier for high performance

### APPLICATIONS

CMS Danskin Acoustics SuperLag Original Polymeric is a highly efficient acoustic insulation lagging for ductwork, pipes, machine coverings, partition infill, suspended ceilings and where considerable reduction in the passage of noise is required.



### 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 (250 °C Short Term)
Chemical resistance	Oils, water, most solvents
Fire resistance	Class 'O'
Thermal Conductivity	0.037 W/m <sup>2</sup> K to BS 4745
R Value	1.35m <sup>2</sup> /Kw

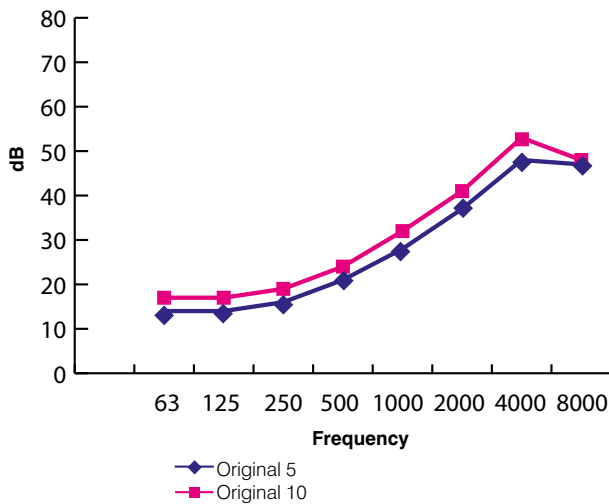
## ACOUSTIC PERFORMANCE

CMS Danskin Acoustics SuperLag Original Polymeric 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

Material \ Frequency	63	125	250	500	1k	2k	4k	8k
Original 5	14	14	16	21	28	37	48	47
Original 10	17	17	19	24	32	41	53	48



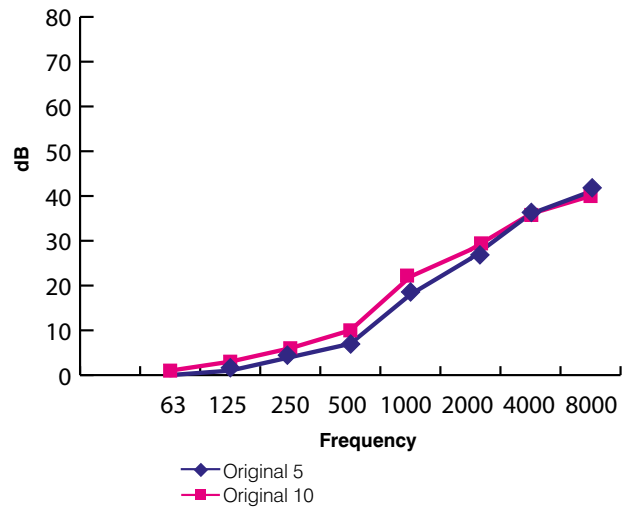
Acoustic duct lagging is a complex subject with the size, shape, thickness and configuration of the ductwork all having a significant effect on the system performance. The data shown above and below is based on flat panel tests used for SuperLag Original products. Similar tests carried out on ducting will generally produce similar or slightly lower levels of performance.

## SELECTION GUIDELINES

CMS Danskin Acoustics have recognised the complex problems associated with noise breakout from ductwork and have developed performance data from laboratory test results. This performance data predicts, as closely as possible, the minimum likely improvement achievable by lagging a duct with SuperLag Original insulating materials.

The data below is based on 1mm thick ductwork of 3.5m length and 200mm diameter cross section, and indicates the actual improvement of the SuperLag Original, with the noise reduction of the original untreated ductwork being removed from this performance data.

Material \ Frequency	63	125	250	500	1k	2k	4k	8k
Original 5	0	1	4	7	18	26	36	41
Original 10	1	3	6	10	22	28	36	40



To boost the performance and reduce low frequency noise breakout, CMS Danskin Acoustics damping sheet should be applied to the ductwork before installing SuperLag.

## INSTALLATION GUIDELINES

The method required in the fitting of SuperLag insulation 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 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 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 in the form of contact adhesive and/or proprietary insulation fixings, particularly on the underside where the SuperLag 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 will be compressed at the corners, thus affecting performance.

## INSTALLATION ACCESSORIES

CMS Danskin Acoustics recommends the following products to assist installation:

### Aerosol Adhesive

SPRAYTACK is a specially formulated nonflammable synthetic rubber adhesive. Available in 500ml aerosol cans, which provides approximately 5m<sup>2</sup> 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 3.4m<sup>2</sup> 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 SuperLag is held in place by a self-locking washer, which is slid over the spike after the material is installed.

## 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.

For further details contact your local CMS Danskin Acoustics.

## CMS DANSKIN ACOUSTICS

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