

# TECHNICAL DATA SHEET

## SUPERLAG HYGIENIC

### PRODUCT DESCRIPTION

CMS Danskin Acoustics SuperLag Hygienic is a modern product consisting of three layers in the form of a single laminate. The acoustic isolating layer or spacer is a melamine foam. This isolating spacer supports a layer of heavy mass polymeric barrier and an outer Class '0' flame/vapour barrier.

### BENEFITS

- Easy and quick to apply
- Excellent acoustic performance
- Applied as a single dry treatment
- Excellent fire resistance & temperature stability
- Low thermal conductivity
- Low toxicity

### APPLICATIONS

CMS Danskin Acoustics SuperLag Hygienic is a highly efficient acoustic treatment designed for areas where hygiene and cleanliness are of paramount importance such as pharmaceutical industries and clean room applications e.g. food & drinks processing and electronics industries.



### TECHNICAL INFORMATION

Melamine foam density	11 kg/m <sup>3</sup> nominal
Operating temperature	-30 to 200°C
Chemical resistance	Oils, water, most solvents
Fire resistance	Class '0' Foil Faced
Thermal Conductivity	0.037 W/m <sup>2</sup> K

## ACOUSTIC PERFORMANCE

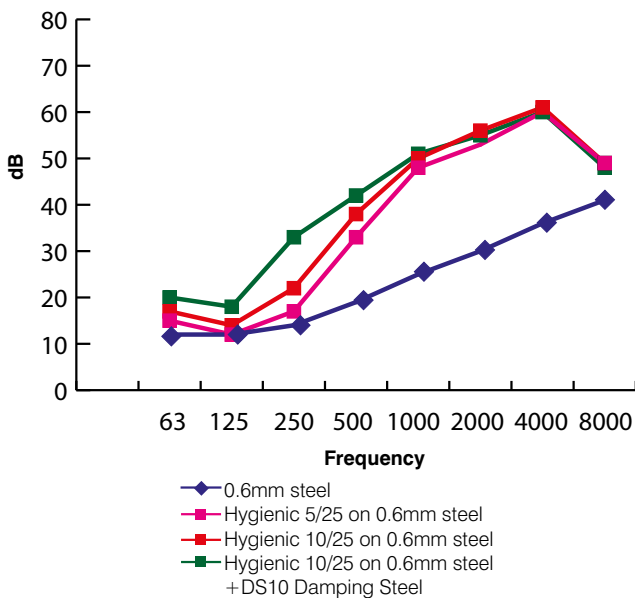
CMS Danskin Acoustics SuperLag Hygienic is a high performance material that has been acoustically tested at certified independent test laboratories.

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
0.6mm steel only	12	12	14	19	25	30	36	41
Hygienic 5/25 on 0.6mm steel	15	12	17	33	48	53	60	49
Hygienic 10/25 on 0.6mm steel	17	14	22	38	50	56	61	49
Hygienic 10/25 on 0.6mm steel +DS10 Damping Steel	20	18	33	42	51	55	60	48

The data shown above and below is based on flat panel tests for SuperLag Hygienic products. Similar tests carried out on ducting will generally produce similar or slightly lower levels of performance.



## INSTALLATION GUIDELINES

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

- 1) The size and circumference of the duct.
- 2) The shape of the duct -rectangular or round.  
(Note: Superlag Hygienic is not suitable for use in small diameter pipes)
- 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 Hygienic 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 Hygienic 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 Hygienic in the form of contact adhesive and/or proprietary insulation fixings, particularly on the underside where the SuperLag Hygienic 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 Hygienic will be compressed at the corners, thus affecting performance.

## INSTALLATION SERVICE

CMS Danskin Acoustics recommends the following products to assist installation:

### 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 Hygienic 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 please contact your local technical team – details below.

### CMS DANSKIN ACOUSTICS

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**Central/Southern Office:** Tel: **01925 577711** Fax: **01925 577733**  
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Email: [info@cmsdanskin.co.uk](mailto:info@cmsdanskin.co.uk) Website: [www.cmsdanskin.co.uk](http://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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