

## Technical Data Sheet

### PRODUCT

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 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

### 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
Reaction to Fire (EN 13501-1):	B-s1,d0
Thermal Conductivity:	0.037 W/m <sup>2</sup> K

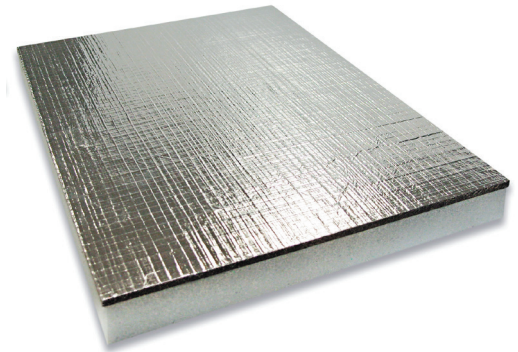
\*The foam is a cross linked polymer whose Melamine resin base is completely consumed during manufacture.

### ACOUSTIC PERFORMANCE

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

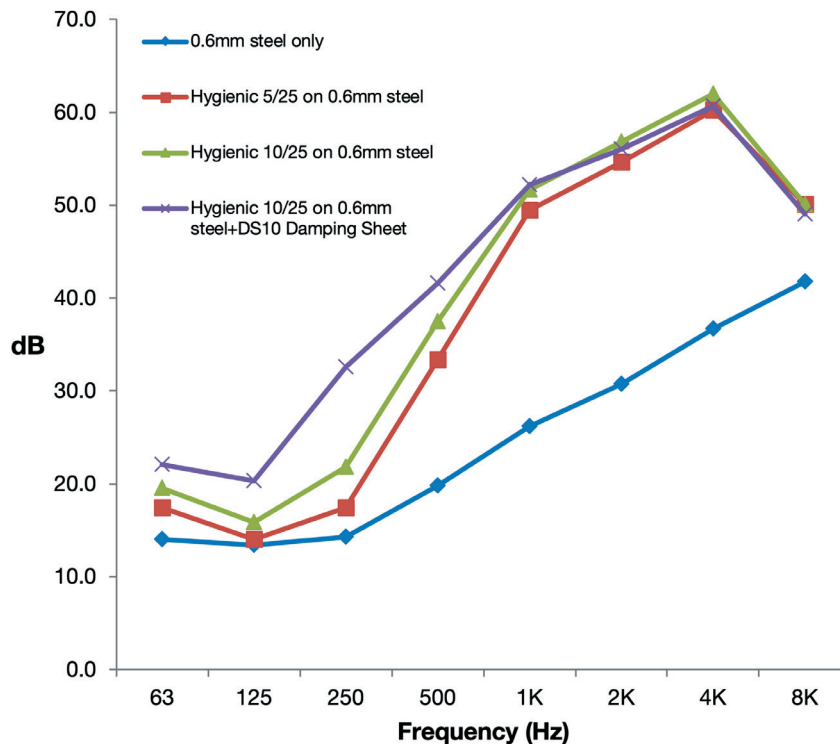
Tested and Rated according to:

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



Material	Frequency								R <sub>w</sub> (C,Ctr)
	63	125	250	500	1k	2k	4k	8k	
0.6mm steel only	14	13.4	14.3	19.8	26.2	30.7	36.7	41.8	25 (-1,-4)
Hygienic 5/25 on 0.6mm steel	17.4	14	17.4	33.4	49.5	54.6	60.2	50.1	32 (-2,-7)
Hygienic 10/25 on 0.6mm steel	19.5	15.9	21.8	37.5	51.7	56.8	62	50.1	36 (-3,-8)
Hygienic 10/25 on 0.6mm steel+DS10 Damping Sheet	22.1	20.3	32.6	41.6	52.2	56	60.7	49	43 (-3,-8)

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

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 on 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.

## 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 selflocking washer, which is slid over the spike after the material is installed.