

# Superlag Quietslab Laminate

## Technical Data Sheet

### PRODUCT

CMS Danskin Acoustics SuperLag Quietslab Laminate is manufactured from long stranded mineral fibres that are thermo-set with resin into slabs. The inner core of acoustic grade lead or polymeric barrier provides a high degree of resistance to the passage of sound.

### FEATURES and BENEFITS

- Excellent thermal and acoustic insulation
- Chemically inert
- Cost effective and easy to install
- Combined thermal and acoustic performance

### APPLICATIONS

CMS Danskin Acoustics SuperLag Quietslab Laminate is ideal for a wide range of building and industrial applications. A highly versatile material with an extensive listing of applications such as acoustic ceilings, partition panels, walls, floors, roofs, ductwork and industrial enclosures. Also, thermal insulation for boilers, heat exchangers, plant, tanks and pipes. CMS Danskin Acoustics SuperLag Quietslab Laminate can be flat or curved to suit requirements.

It is a particularly useful material where a combination of high acoustic and thermal insulation is required, for example, for hot air blower fans and other industrial and process plant equipment types.

### FACING AND COVERINGS

CMS Danskin Acoustics SuperLag Quietslab Laminate slabs are available in a wide range of coverings and facings; including:

- Class '0' foil facing
- Glass tissue scrim 60 gm/m<sup>2</sup> (black and white)
- Glass cloth 200 gm/m<sup>2</sup> (black and white)
- Melinex polyester film



### ACOUSTIC PERFORMANCE

CMS Danskin Acoustics SuperLag Quietslab Laminate are produced with mass barrier materials for acoustic insulation applications. Material options:

Polymeric mass barrier	5, 7.5 and 10kg/m <sup>2</sup>
Lead sheeting	5, 10 and 15kg/m <sup>2</sup>

### PHYSICAL INFORMATION

Standard slab sizes	1200 x 600mm
Standard slab thickness	25, 50, 60, 75, 100mm
Standard slab density	60kg/m <sup>3</sup>

Note Non standard slab sizes and thickness are available upon request.

### TECHNICAL INFORMATION

#### Reaction to fire

B-s1,d0 EN 13501-1 for unfaced c/w polymeric barrier (combinations with Lead core untested). Certificate available on request.

#### Resistance to compression (BS EN 826)

Stress to give 10% compression (N/m <sup>2</sup> )	6.7
Stress to reach elastic limit (kN/m <sup>2</sup> )	6.1
Displacement at 5kN/m <sup>2</sup> stress (%)	7.8

#### Minimum Bending Radius (m)

	Slab thickness (mm)					
	30	40	50	60	75	100
Density 60 kg/m <sup>3</sup>	0.42	0.50	0.70	1.00	1.35	1.90

## Mineral Fibre Thermal Conductivity 0.034 W/mK

### Maximum Service Temperatures

CMS Danskin Acoustics SuperLag Quietlab Laminate can be used up to a maximum temperature of 350°C, but this can vary depending on the composition of the product. The resin used to bond the slabs under extended exposure to temperatures above 180°C will be lost to the hot surface causing discolouration. Temperature at the acoustic barrier should not exceed 300°C for Lead based variants and 90°C for polymeric based variants.

## TYPICAL INSTALLATIONS

CMS Danskin Acoustics SuperLag Quietlab Laminate is a particularly versatile product that has a wide range of applications. Typical applications:

- Acoustic enclosures to reduce noise breakout over conventional mineral fibre performance and duct lining to reduce noise breakout over conventional mineral fibre performance.
- Lagging, partitions and floors, blower fans and other shaped industrial equipment.

CMS Danskin Acoustics SuperLag Quietlab Laminate provides excellent sound reduction characteristics by both impeding the transmission of sound and by absorption of the sound at the surface.

## ACOUSTIC INSULATION PERFORMANCE - BS EN ISO 10140-2:2010. Certificates available on request.

Material	Frequency								R <sub>w</sub>	SRI
	63	125	250	500	1K	2K	4K	8K		
QS 25mm WB5 QS 25mm	19.3	15.3	15.4	19.6	32.4	40.3	46.0	47.9	26	26
QS 25mm WB10 QS 25mm	22.9	18.8	17.5	23.7	37.5	45.3	50.7	50.8	29	30
QS 50mm L10 QS 50mm	22.7	17.5	14.8	32.3	43.0	52.3	58.8	53.4	31	34
QS 50mm WB5 QS 50mm	20.8	15.8	12.7	30.4	45.3	57.6	63.2	53.6	29	34
QS 50mm WB10 QS 50mm	22.1	18.7	15.6	34.0	45.1	55.1	61.9	53.6	32	35
QS 50mm WB15 QS 50mm	22.7	19.6	17.2	34.2	46.0	56.1	61.9	53.6	33	36
QS 70mm WB10 QS 50mm	22.0	16.3	17.6	37.5	50.1	61.2	63.9	53.5	38	33

