QUIETSLAB

CMSDANSKIN ACOUSTICS

Technical Data Sheet

PRODUCT

CMS Danskin Acoustics Quietslab is manufactured from long stranded mineral fibres that are thermo-set with resin into slabs.

FEATURES and BENEFITS

- Excellent thermal and acoustic insulation
- Fire and temperature resistant
- Chemically inert
- Cost effective and easy to install
- Vermin and rot proof
- CFC and HFC free

APPLICATIONS

CMS Danskin Acoustics Quietslab is ideal for a wide range of acoustic 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 insulatior for boilers, heat exchangers, plant, tanks and pipes.

FACING AND COVERINGS

CMS Danskin Acoustics Quietslab is available in a wide range of coverings and facings; a brief selection of coverings and facings available include:

- Class 'O' foil facing
- Glass tissue scrim 60 gm/m^2 (black and white)
- Glass cloth 200 gm/m^2 (black and white)
- Melinex polyester film
- Ceramic paper

LAMINATES

CMS Danskin Acoustics Quietslab is also available laminated with mass barrier materials for acoustic insulation applications. Laminates include:

Polymeric mass barrier: 5, 7.5, and 10 kg/m^2
Lead sheeting: 5, 10 and 15kg/m^2

PHYSICAL INFORMATION

Standard slab size	1200 x 600mm
Standard slab thicknesses	25, 30, 40, 50, 60, 75 and 100mm
Standard slab densities	45, 60, 100kg/m^3

Non standard slab sizes, thickness and density are available upon request.

TECHNICAL INFORMATION

Reaction to fire

Unfaced	EN 13501-1 A1

Minimum Bending Radius (mm)

Slab thickness (mm)	30	40	50	60	75	100
Density 45 kg/m^3	425	500	700	900	1200	1800
Density 60 kg/m^3	425	500	700	1000	1350	1900
Density 100 kg/m^3	550	700	1000	1500	2250	2500

TECHNICAL INFORMATION continued

Maximum Service Temperatures

CMS Danskin Acoustics Quietslab can be used up to a maximum temperature of 850°C, but this can vary depending on the compostion of the slab / product. The resin used to bond the slabs is resistant to temperatures up to 175°C, above this some resin wil be lost to the hot surface causing discolouration.

TYPICAL INSTALLATIONS

CMS Danskin Acoustics Quietslab is a particularly versatile product that has a wide range of applications. Typical applications include:

- 45 kg/m^3 density slab is ideal for acoustic enclosures and duct lining
- 60 kg/m^3 density slab is ideal for acoustic enclosures, duct lining and lagging, partitions and floors
- 100 kg/m^3 density slab is ideal for duct lining, partitions and floors

ACOUSTIC PERFORMANCE

CMS Danskin Acoustics Quietslab provides excellent sound reduction characteristics by both impending the transmission of sound and by absorption of the sound at the surface.

Absorption coefficients (Direct Mounting)

Slab Density (kg/m^3)	Thickness (mm)	Frequency (Hz)					
		125	250	500	1000	2000	4000
45	50	0.20	0.50	0.85	1.00	1.00	1.00
45	60	0.30	0.70	1.00	1.00	1.00	1.00
60	50	0.11	0.60	0.96	0.94	0.92	0.82
60	75	0.34	0.95	1.00	0.82	0.87	0.86
100	30	0.10	0.40	0.80	0.90	0.90	0.90
100	75	0.40	0.75	0.90	0.80	0.90	0.85

Noise absorption is expressed as a factor between 0 and 1.0, the more sound that a surface absorbs the higher the coefficient. The composition of the MF mineral bonded fibres makes them ideal for use as sound absorbers due to the high coefficients over a wide range of frequencies.

CMSDANSKIN ACOUSTICS

T 01925 577711
E sales@cmsdanskin.co.uk
W www.cmsdanskin.co.uk

Issue 3 - 02/2022 JW