

# TECHNICAL DATA SHEET

## PLANT ROOM WALL LINING

### PRODUCT DESCRIPTION

Plant Room Wall Lining Panels consist of borosilicate mineral fibres impregnated with a suitable resin binder faced with Type E alkali glass cloth.

### APPLICATIONS

CMS Danskin Acoustics Plant Room Wall Lining Panels provide an effective means of controlling reverberation time and reflected sound in plant rooms. They have an aesthetically pleasing appearance and are typically suitable for industrial applications such as engine enclosures, test cells and workshops.

### PHYSICAL INFORMATION

#### Dimensions

Thickness (mm)	Weight (kg/m <sup>2</sup> )	Sheet Size (mm)
25	2.5	1200 x 600
50	5.0	1200 x 600
75	7.5	1200 x 600
100	10.0	1200 x 600

The above sizes and weights are nominal.



### BENEFITS

- Excellent sound absorption
- Light reflective
- Good thermal insulation
- Easy to handle, install, and clean
- Cost effective sound
- High quality finish
- Fire rated
- The mineral fibre BRE Green Guide element number is 815320011; the summary rating is A

## PHYSICAL INFORMATION CONTINUED

### Fire Performance

The borosilicate mineral fibres impregnated with a suitable resin binder core and its facing Type E alkali glass cloth are non combustible when tested to BS 476-4.

When tested to BS 476-6 & BS 476-7 the system will comply with a Class '0' Surface Spread Of Flame.

### Resistance to Vibration

When tested in accordance with BS 2972 the liner (all thickness) is free from fibre fall out and delamination.

### Toxicity and Oxygen Index

The finished liner has passed the test in NES 02-713 (toxic) and NES 02-714 (oxygen)

### Existing Floor Coverings

Not recommended for use over existing floor coverings.

### Water Resistance

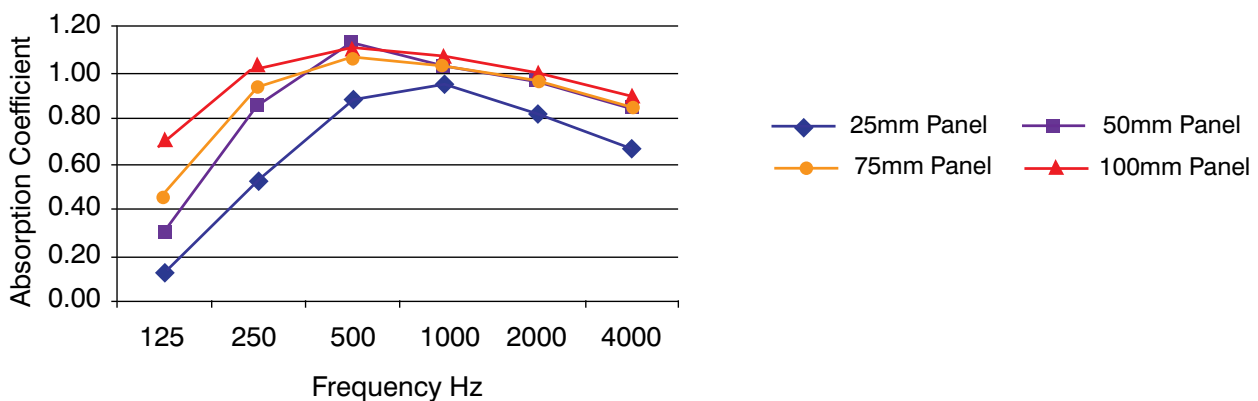
The borosilicate mineral fibres repel water due to the presence of water repellent additives. Moisture condensing from the air within the core is less than 0.02% by volume at 95% relative humidity.

## ACOUSTIC PERFORMANCE

The noise absorption co-efficient is expressed as a factor between 0 and 1.0. The more sound that a material absorbs, the higher the noise absorption coefficient. The noise absorption co-efficient for our Plant Room Wall Lining Panels, as tested to BS EN 20354:1993 is:

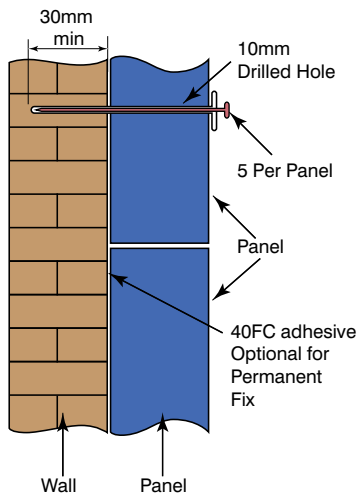
Thickness	Frequency						
	125	250	500	1k	2k	4k	NRC
25mm	0.12	0.52	0.88	0.95	0.82	0.67	0.80
50mm	0.30	0.85	1.13	1.03	0.96	0.84	0.99
75mm	0.45	0.95	1.12	1.05	0.97	0.86	1.02
100mm	0.70	1.04	1.11	1.07	0.99	0.89	1.05

The above sizes and weights are nominal.



## THERMAL CONDUCTIVITY

Thickness (mm)	Thermal Conductivity W/mC at 50°C
25	0.038
50	0.039
75	0.040
100	0.040



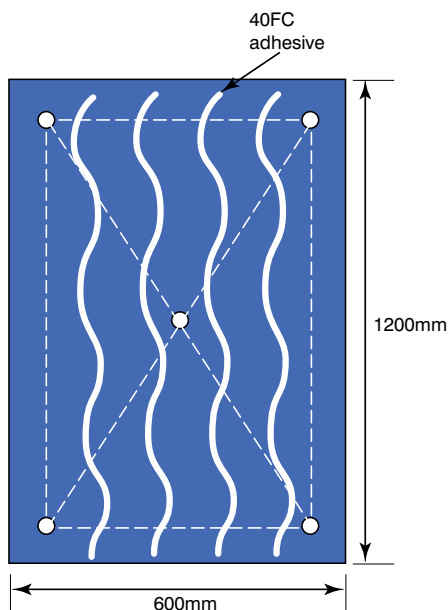
**CMS Danskin Acoustics Plant Room Anchor**



## PHYSICAL INFORMATION CONTINUED

### Installation

1. Pins are supplied loose.
2. Drill the substrate with a 10mm  $\varnothing$  drill to a minimum depth of 30mm.
3. Cut a small X into the panel face lining up the pre-drilled holes.
4. Optional for a permanent fix apply CMS Danskin Acoustics supplied 40FC adhesive to the rear of the panel as shown.
5. Insert anchors into the panel pushing all the way through.
6. Line up the anchors into drilled holes and push home.
7. Tap the anchor rod flush with flange.



## 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.

Please contact your local CMS Danskin Acoustics branch for a list of approved and qualified installers.

## CMS DANSKIN ACOUSTICS

**Scotland Office:** Tel: **01698 356000** Fax: **01698 372222**  
1 Netherton Road Wishaw ML2 0EQ

**Central/Southern Office:** Tel: **01925 577711** Fax: **01925 577733**  
Unit 2 Lyncastle Road, Appleton, Warrington, WA4 4SN

Email: [info@cmsdanskin.co.uk](mailto:info@cmsdanskin.co.uk) Website: [www.cmsdanskin.co.uk](http://www.cmsdanskin.co.uk)

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