

# 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 'O' 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**

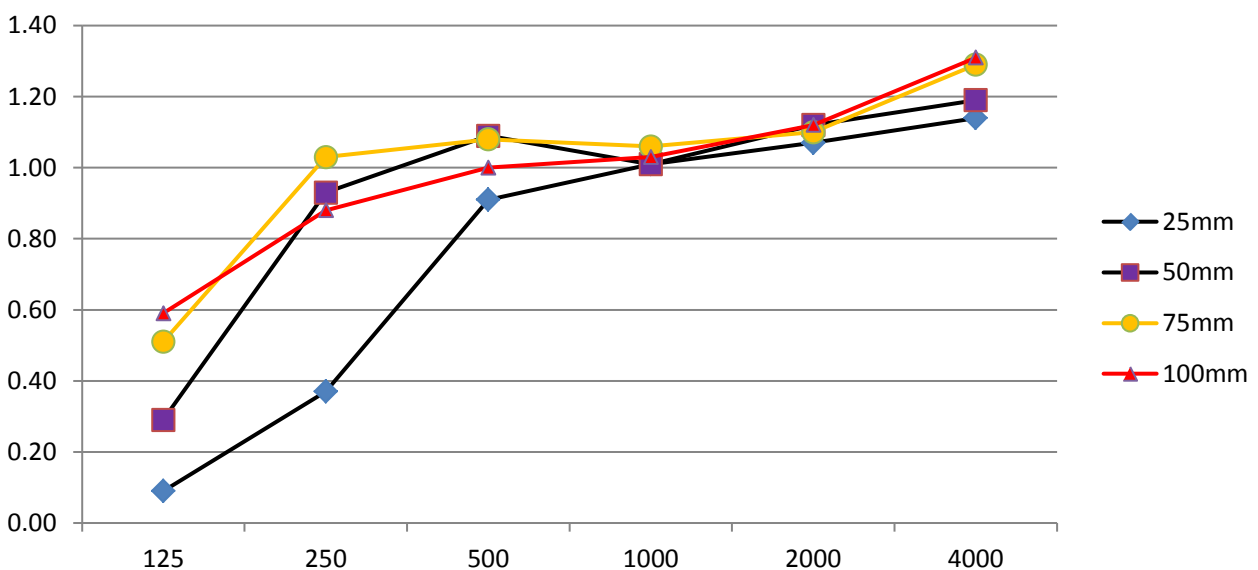
The borosilicate mineral fibres repel water due to the presence of water repellent additives. Moisture condensing from the air within the core is less than 0.02% by volume at 95% relative humidity.

**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 354:2003 is:

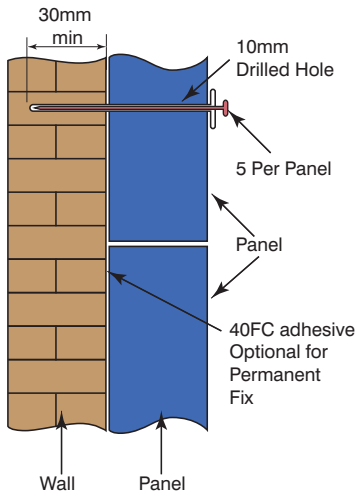
Thickness	Frequency							Absorption Class
	125	250	500	1k	2k	4k	NRC	
25mm	0.09	0.37	0.91	1.01	1.07	1.14	0.85	C
50mm	0.29	0.93	1.09	1.01	1.12	1.19	1.05	A
75mm	0.51	1.03	1.08	1.06	1.10	1.29	1.05	A
100mm	0.59	0.88	1.00	1.03	1.12	1.31	1.00	A

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**



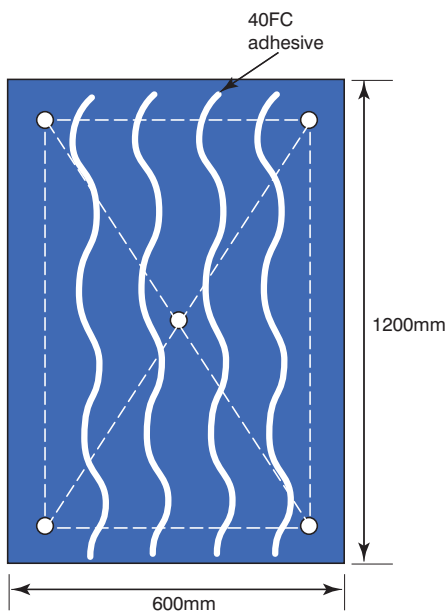
## PHYSICAL INFORMATION Continued

### 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

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)

**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. It is strongly recommended that prospective users test a sample of the product under their own conditions to satisfy themselves of its suitability for the intended purpose. For the Pre Completion Testing route to compliance with the Building Regulations CMS Danskin Acoustics may provide site test evidence (where available) concerning the use of their product in a similar overall construction. Test evidence of a product passing minimum standards in one construction is not a warranty or specification that the same product will meet the desired acoustic performance level in any other building. Such evidence can only be considered indicative and should not be relied upon.

**CMSDANSKIN**  
ACOUSTICS