



## Advantages

- **Excellent sound absorption.**
- **Light reflective.**
- **Good thermal insulation.**
- **Easv to handle, install, and clean.**
- **Cost effective sound.**
- **High quality finish.**
- **Fire rated.**
- **Will not sustain bacteria, mold or fungus.**

## Applications

CMS Acoustic Ceiling Panels provide an effective means of controlling reverberation time and reflected sound in sound studios, conference centres, auditoria and offices, stairwells and other areas where high acoustic absorption combined with an aesthetically pleasing appearance is required.

## Description

CMS Acoustic Ceiling Panels are highly effective, sound absorbing, non-combustible panels manufactured from medium density, moisture resistant mineral wool faced with a painted glass tissue one side and a non-woven glass tissue the other. The painted glass tissue is available in a large choice of colours, subject to a minimum order quantity.

The panels are intended for use in locations requiring extremely high levels of acoustic absorption, and can also make a significant contribution to the thermal resistance of buildings when incorporated in roof construction. They may be mechanically fixed or adhered to suitably sound vertical and horizontal surfaces or can be installed as part of a suspended ceiling.

## Physical Information

Thickness (mm)	Weight (kg/m <sup>2</sup> )	Sheet Size (mm)
30	1.5	600 x 1200
50	2.5	600x 1200, 1200 x 1200
100	5.0	600x 1200, 1200 x 1200

The above sizes and weights are nominal figures.

## Thermal Conductivity

Thickness (mm)	Thermal Conductivity Wm/K at 10°C
30	0.035
50	0.035
100	0.035

## Fire Performance

When tested in accordance with BS EN 13501-1, CMS Acoustic Ceiling Panels achieve a Euroclass Reaction to Fire Class A1 (non-combustible). This is equivalent to BS 476: Part 6 & Part 7 Class 1.

## Moisture Resistance

The panels are suitable for use in areas of 90% RH at 25°C.

## Building Regulation Classification

Depth of void behind panels	Absorber Classification (to BS EN ISO 11654-1997)		
	30mm thick	50mm thick	100mm thick
0mm	A	A	A
50mm	A	A	A
100mm	A	A	A
200mm	A	A	A

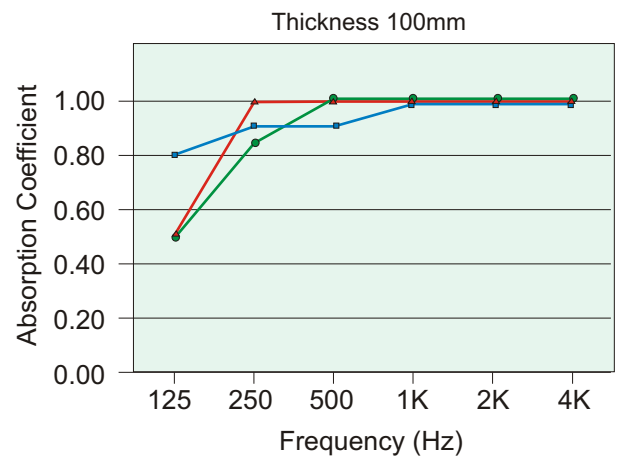
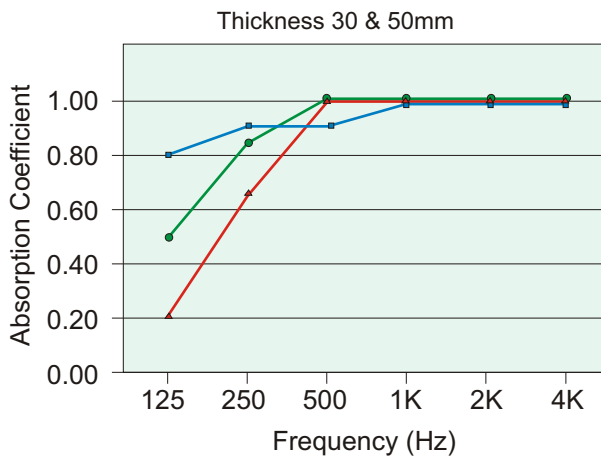
## Colour

Standard panels are supplied in white (light reflectance approx 70%) or black (light reflectance approx 9%). Alternatively, any Ral or NCS colour or a match to a chosen colour can be supplied to special order, with a minimum order quantity of 750 m<sup>2</sup>.

## Acoustic Performance

The sound 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 co-efficient. The noise absorption co-efficient for CMS Acoustic Ceiling Panels, as tested to BS EN 20354:1993, ISO 354:1985 and BS EN ISO 11654:1997 are:

Thickness	Depth of void behind panels	Frequency (Hz)						$\alpha_w$
		125	250	500	1k	2k	4k	
30 and 50mm	0mm*	0.20	0.65	1.00	1.00	1.00	1.00	0.90
	200mm	0.50	0.85	1.00	1.00	1.00	1.00	
	500mm	0.80	0.90	0.90	1.00	1.00	1.00	
100mm	0mm*	0.50	1.00	1.00	1.00	1.00	1.00	1.00
	200mm	0.50	0.85	1.00	1.00	1.00	1.00	
	500mm	0.80	0.90	0.90	1.00	1.00	1.00	



## Installation Guidelines

CMS has many years experience manufacturing and supplying wall panels, and often the site limitations or restrictions require a non-standard means of supporting the panels to be developed. If you have any concerns concerning installation, please do not hesitate to discuss your requirements with our engineers.

The most common methods of installation methods are:

1. CMS Acoustic Ceiling Panels can be direct fixed to a concrete soffit using a suitable adhesive.
2. CMS Acoustic Ceiling Panels can be mechanically fixed directly to the underside of a roof or to a wall using four big head fastenings per 600mm x 1200mm panel. One fastening should be placed at each corner, spaced 150mm from the long edge and 200mm from the short edge.
3. The CMS Acoustic Ceiling Panels can also be installed in a standard T24 exposed ceiling grid system.

It is important to keep hands clean when working with the panels, or wear gloves to avoid soiling the panel.

The panels are *not* designed to carry the weight of recessed light fittings and therefore other methods should be used for such support.

## Maintenance

CMS Acoustic Ceiling Panels can be cleaned by gentle brushing, vacuuming with a soft brush attachment or by gently wiping with a damp cloth and mild detergent.

## Installation Service

In addition to supply of this product CMS Acoustic Solutions offers a competitively-priced installation service anywhere in the UK. Use of our service ensures that installation is performed to the highest standards by tradesmen fully experienced in the specialist skills of fitting acoustic materials correctly. For further details contact our technical team on 01925 577711.



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