

# CM

Soundproofing Absorber-  
Barrier Composite

# Superior soundproofing with high sound absorption and insulation

# CM

## Soundproofing Absorber-Barrier Composite

### Megasorber CM range provides excellent sound absorption and high sound transmission loss.

Megasorber CM are soundproofing absorber-barrier composites specifically designed to provide superior sound absorption (high NRC) and high sound transmission loss (Rw or STC).

Megasorber CM provides superior sound absorption by utilising patented sound absorption technology, with a sound absorption rating of up to NRC 1.0. As a result, Megasorber CM reduces the build-up of sound energy effectively.

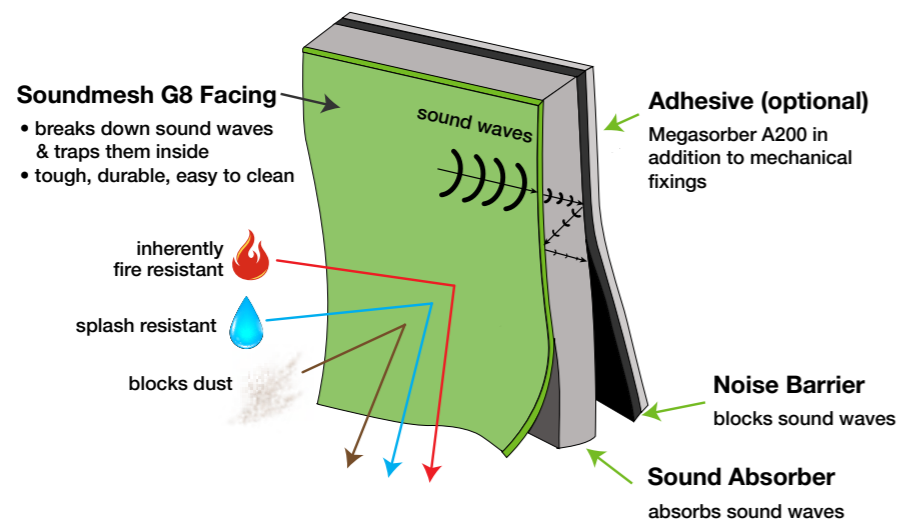
Megasorber CM also has a thin noise barrier to block out sound, with an STC (or Rw) of 24.

Megasorber CM provides effective soundproofing in a confined space, such as machinery enclosure, marine engine rooms, all types of vehicle engine bays and many more applications.

Megasorber CM is self-supporting, and the Soundmesh G8 facing and the sound absorbing foam are inherently fire-resistant, both components have a NCC (national Construction Code) Group 1 fire rating as per AS5637.1.

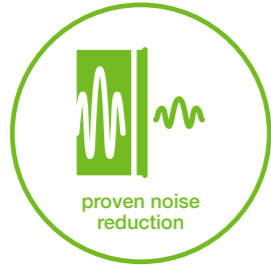
### Colours

Soundmesh G8 colour facing options.





# Key Features



Compact designed products with high sound absorption (NRC) and high sound insulation (Rw or STC).

Patented sound absorption technology to maximise soundproofing results.

Non-combustible Soundmesh G8 facing.

Self-supporting

Easy to clean

Tough and durable.

Splash resistance to water and engine fluids. A special grade of water repellent facing is also available.

# Applications

Highly effective soundproofing composites that combine sound absorption with the ability to fend off noise break-out.

Marine engine room soundproofing.

Compressor enclosure soundproofing

Engine bay soundproofing.

Machinery and equipment enclosures.

Air handling unit linings.

HVAC duct linings.

# Technical Specifications

## 1. Standard Product Codes

Product Code	Facing colour	Nominal thickness	Nominal Weight	Sheet size
Megasorber CM28RW	White	28mm	4.5kg/m <sup>2</sup>	1.2m x 1.2m
Megasorber CM52RW	White	52mm	4.7kg/m <sup>2</sup>	1.2m x 1.2m

### Note:

- 1) Standard facing colour is water repellent white. Other facing colours are available subject to MOQ (minimum order quantity).
- 2) Standard size is 1.2m x 1.2m. Also available in 1.2m x 0.6m and in 0.6m x 0.6m.
- 3) Soundmesh G8 facing may have some stripy appearance and small creases, however the creases will not affect the acoustic performance of the product.
- 4) The tolerance is  $\pm 5\%$  for thickness,  $\pm 10\%$  for sheet dimensions and  $\pm 10\%$  for weight.





# Effective Soundproofing for the Marine Industry





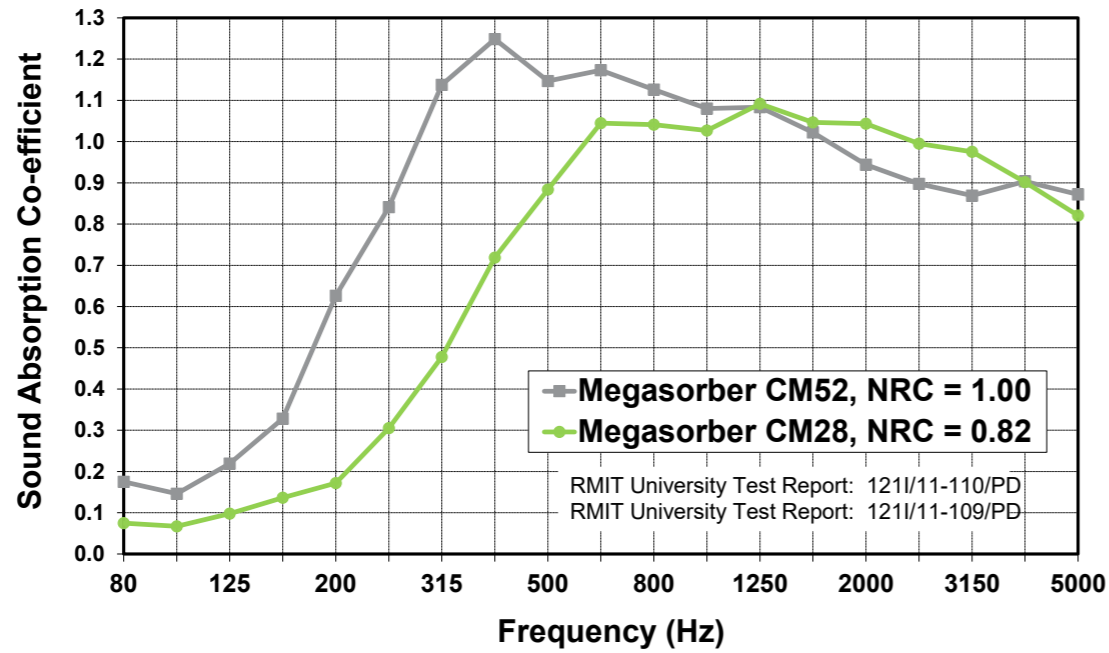
## 2. Acoustic Properties

Sound Absorption Coefficients: AS ISO 354-2006: Acoustics Measurement of Absorption Coefficients In A Reverberation Room.

### Megasorber CM

#### Sound Absorption

CM28: NRC 0.82  
CM50: NRC 1.00

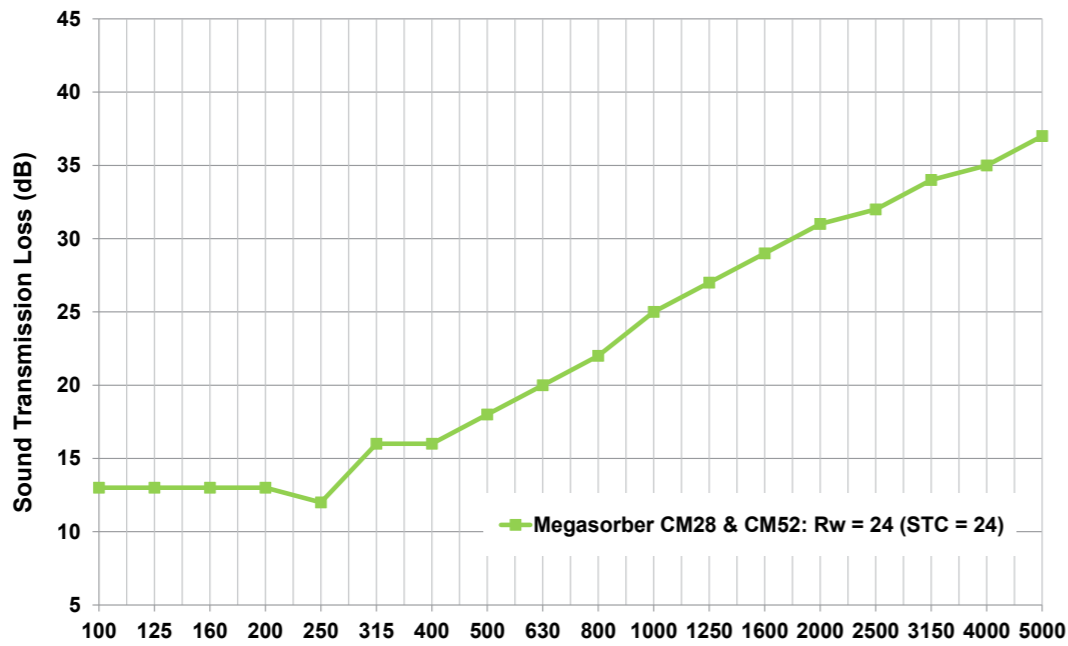


Sound Transmission Loss: SAE J1400 – Laboratory Measurement of the Air-borne Sound Barrier Performance of Automotive Materials and Assemblies.

### Megasorber CM

#### Sound Transmission Loss

CM28: Rw 24  
CM50: Rw 24



Product	Sound Absorption	Sound Transmission Loss	Total Rw or STC on Substrates	
	NRC	Rw or STC	2mm aluminium	16mm plywood
CM28	0.82	24	31	31
CM52	1.00	24	31	31

Check [here](#) for estimated improvement in engine noise after installation of CM28 and CM50.

## 3. Flammability

AS1530.3.1989: Early Fire Hazard Properties: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release

Ignitability	Spread of Flame	Heat Evolved	Smoke Developed
0	0	0	3

MVSS-302-1999 Federal Motor Vehicle Safety Standard (49CFR Part 571) Flammability of Interior Materials.

#### Results

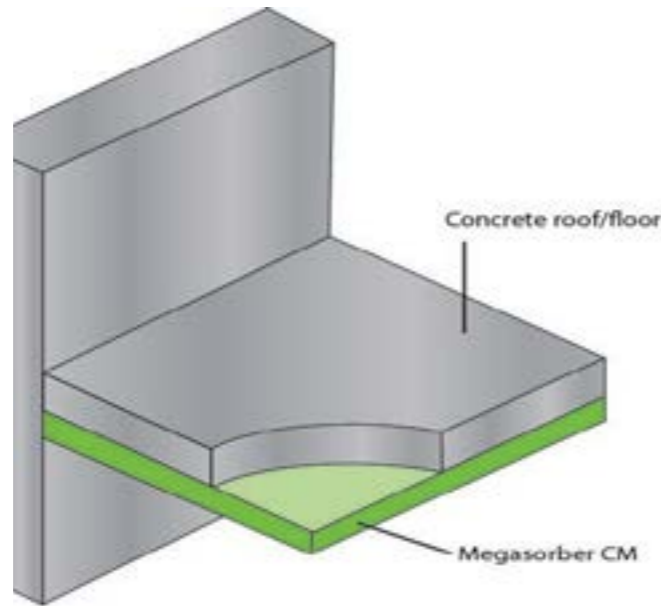
Type of Burn	Burn Rate
Self Extinguish	0 mm/min Complies

## 4. Recommended service temperature

Continuous: -40°C to 100°C. Intermittent temperature: 120°C



## 5. Thermal Properties



Product	Total R value with 150 mm concrete in summer (heat flow up)	Total R value with 150 mm concrete in winter (heat flow up)	R value of product
CM28	1.06	1.16	0.74
CM52	1.80	1.89	1.47

### Related Products

**Megasorber FM** is a lightweight, inherently fire-resistant acoustic foam with a non-combustible Soundmesh G8 facing.

**Megasorber BG** is a fire-resistant flexible noise barrier with a non-combustible Soundmesh G8 facing.

#### Important notice and disclaimer.

Specifications are subject to change without notice. Please contact us for the latest version.

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials and installation methods must be tested under actual service to determine their suitability for a particular purpose.

[megasorber.com](http://megasorber.com)



# Quiet Cruising with a Supreme Absorber-Barrier Composite



# megasorber.com

# megasorber<sup>®</sup>

Megasorber is the registered trademark of  
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