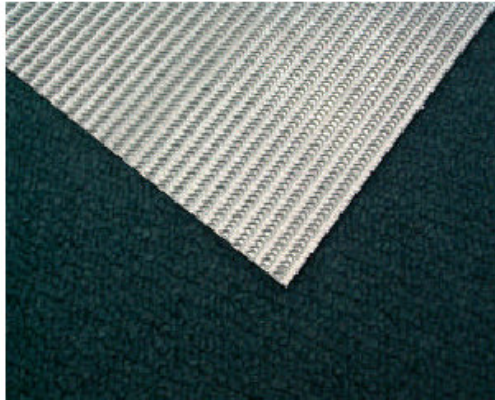


THERMAL- ACOUSTIC CONTROL MATERIALS

Millennium Metal Sound Absorption Panels



Millennium Metal (**MM**) is an all metal sound absorbing panel without any fibers intended for use as interior linings of engine enclosures and hoods in trucks, buses, tractors, construction equipment, compressors, generator sets and boats.

MM is a self supporting metal sheet, micro perforated by a patented process to give the optimum airflow resistance for absorbing sound. **MM** is usually installed with a small airspace between the absorber panel and the back wall of the room/enclosure, utilizing spacers and its own self supporting quality. The low frequency performance can be optimized by varying the size of the airspace.

As the **MM** has an optimized airflow resistance there is no need to vary the thickness as with flexible foam or fiberglass absorbers to achieve a high level of low frequency absorption.

MM Can be supplied with pre painted finishes or in aluminum or stainless steel.

Advantages

- Non Combustible
- Does not attract fluids or dirt
- Easily cleaned – withstands high pressure jets
- High temperatures no problem
- Chemically stable
- Fiber free
- Mechanically rigid and tough
- Wear resistant
- Formable as base metal
- Recyclable
- Aesthetic appearance

Technical Data

Sound Absorption	See Figure 1
Temperature Resistance	Same as metal
Flammability	Non Combustible
Metal	Stainless, Aluminum, Galvanized Pre painted
Color	Pre painted or natural metal
Thickness	0.040", 0.080", 0.120" (1,2,3mm)
Weight	Depends on metal
Formability	As metal sheet

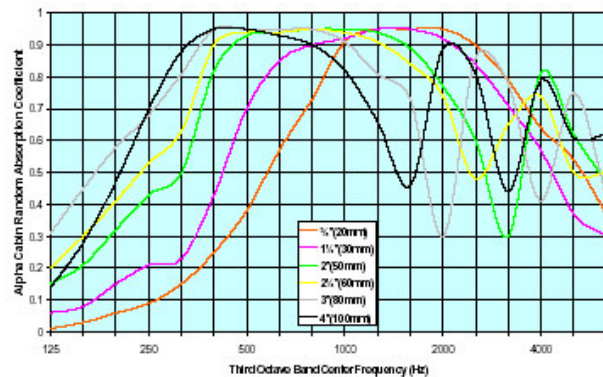


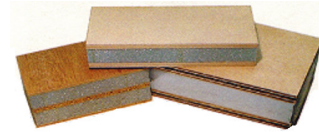
Figure 1 Absorption Factor of 0.040"(1mm) Millennium Metal in a small reverberation chamber.



Figure 2 Use of MM in engine room for absorption in marine applications

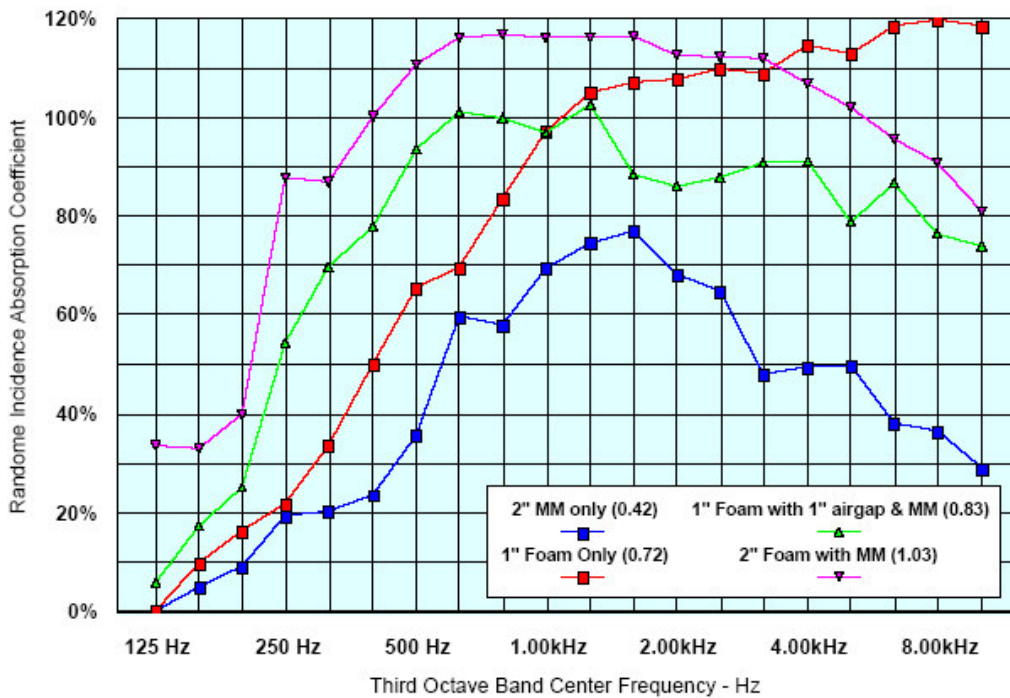
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**Spaced Air-gap Absorption System
Combined Effect of Millennium Metal with or without Melamine Foam Backer**

Sound Absorption from Reverberation Room - Figures in (Brackets) NRC



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