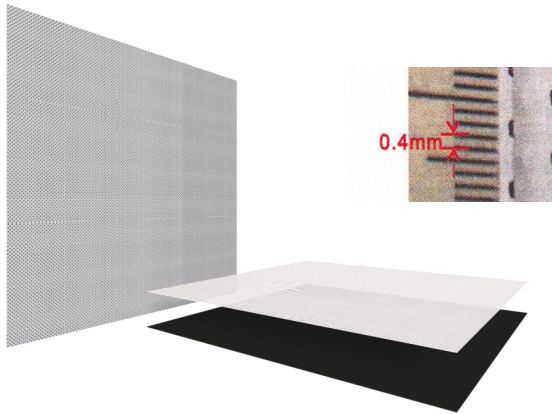




### Advanced Micro-Perforated Metal Sound Absorber



**Sorberscreen® Micro** is a unique, micro-perforated metal sound absorber. It eliminates the need for flow resistive textile backing, as used on conventional perforated metal screen products.

**Sorberscreen Micro** has a hard durable finish consisting of 1mm aluminium, with subtle aesthetic appeal, which could be mistaken for fabric.

It is the perfect finish for sound absorption in architectural and marine walls, ceilings, and absorptive panel applications. It also finds use in vessel engine rooms, transportation engine bay applications, and around enclosures for both noise control and thermal dissipation.

**Sorberscreen Micro** can be used alone, or in conjunction with **Sorbertext®** & **Sorberfoam®**, polyester acoustic infills, and **Sorberglass®** fibreglass products.

It's available in a single standard thickness and can be easily anodised to a range of colours. It cannot be painted or powder coated after micro perforation due to the micro perforations being so minute.

The frequency range, and amplitude of sound absorption obtained using **Sorberscreen Micro**, can easily be extended by simply increasing the depth of the backing void. The deeper the air-void the better the sound absorption at low frequencies.

#### FEATURES

- Excellent air borne noise reduction across the entire audible range even when used alone
- Available in a wide range of anodised colours
- Self supporting
- Highly durable, offers high impact resistance
- Weather resistant
- Outdoor use
- Can be used in conjunction with **Sorbertextile®**, **Sorberfoam™** and **Sorberglass®** products to increase the acoustic performance
- Easily cut, shaped and bent using conventional metal working tooling

#### APPLICATIONS

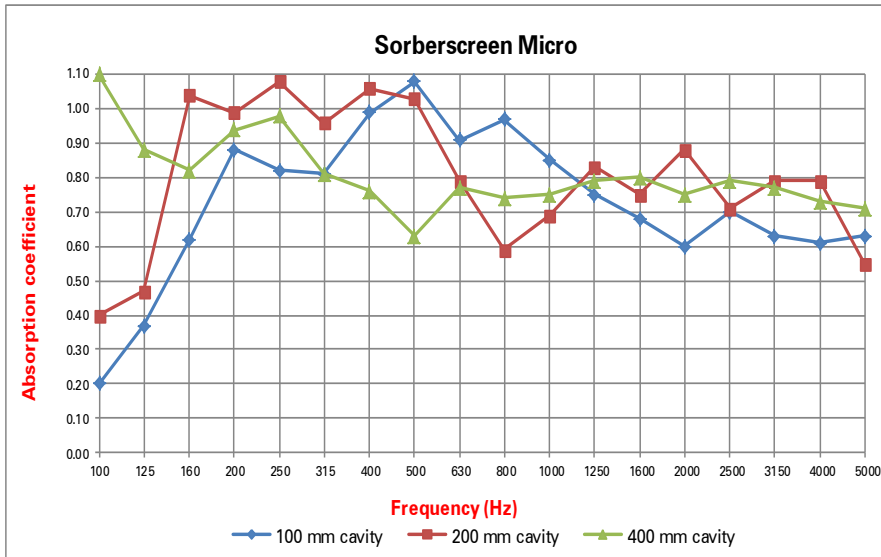
- Interior decorative wall absorbers
- Architectural absorptive ceiling panels
- Acoustic wall and ceiling panels in all types of buildings
- Wall and ceiling insulation in marine engine rooms
- Lining of acoustic enclosures
- Acoustic baffles

#### BENEFITS

- Maximises noise control by providing superior air borne noise reduction
- Easy to cut and install
- Easy to clean with soap and water
- Long service life
- Environmentally friendly/recyclable
- Resists mould, mildew and bacteria growth
- Can be used in high velocity air flow applications

## ACOUSTIC PERFORMANCE

(BS EN 1793-2; ASTM E90; GB/T20247-2006)



| Frequency (Hz) | 100 mm cavity | 200 mm cavity | 400 mm cavity |
|----------------|---------------|---------------|---------------|
| 100            | 0.20          | 0.40          | 1.10          |
| 125            | 0.37          | 0.47          | 0.88          |
| 160            | 0.62          | 1.04          | 0.82          |
| 200            | 0.88          | 0.99          | 0.94          |
| 250            | 0.82          | 1.08          | 0.98          |
| 315            | 0.81          | 0.96          | 0.81          |
| 400            | 0.99          | 1.06          | 0.76          |
| 500            | 1.08          | 1.03          | 0.63          |
| 630            | 0.91          | 0.79          | 0.77          |
| 800            | 0.97          | 0.59          | 0.74          |
| 1000           | 0.75          | 0.69          | 0.75          |
| 1250           | 0.75          | 0.83          | 0.79          |
| 1600           | 0.68          | 0.75          | 0.80          |
| 2000           | 0.60          | 0.88          | 0.75          |
| 2500           | 0.70          | 0.71          | 0.79          |
| 3150           | 0.63          | 0.79          | 0.77          |
| 4000           | 0.61          | 0.79          | 0.73          |
| 5000           | 0.63          | 0.55          | 0.71          |
| <b>NRC</b>     | <b>0.85</b>   | <b>0.90</b>   | <b>0.80</b>   |

## PRODUCT SPECIFICATIONS

| MATERIAL CONSTRUCTION | FINISH        | DESCRIPTION                | PRODUCT THICKNESS          | SHEET SIZE LENGTH X WIDTH |
|-----------------------|---------------|----------------------------|----------------------------|---------------------------|
| Aluminium             | Plain         | Colour - Aluminium         | 1mm<br>(+/- 0.1mm nominal) | 2000mm X 680mm            |
| Aluminium             | Anodised      | Range of colours           |                            |                           |
| Aluminium             | Powder coated | Range of colours           |                            |                           |
| Aluminium             | PVDF          | Offers chemical resistance |                            |                           |

Caveats: Specifications are subject to change without notice. The data in this document are typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. **DISCLAIMER:** This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See [www.pyroteknc.com/disclaimer](http://www.pyroteknc.com/disclaimer).

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Sorberscreen Micro

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**Pyrotek**  
noise control