

SORBERSCREEN MICRO

advanced micro-perforated metal 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.

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

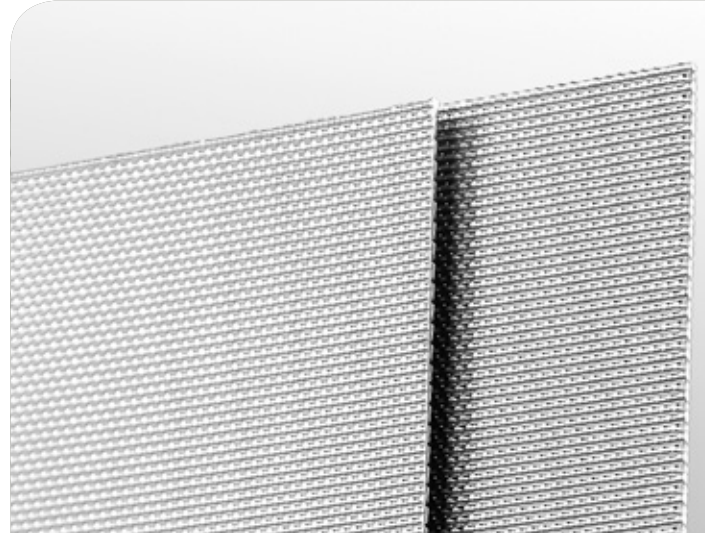
Available in plain aluminium, anodised or pre-painted to a range of colours. Sorberscreen™ Micro should not be painted or powder coated after micro perforation as this will change the acoustic performance of the panel.

The effective sound absorption obtained across the frequency range using Sorberscreen™ Micro can easily be adjusted by simply changing the depth of the backing void.

(Refer Installation Guide on 'Sorberscreen Micro' for details).

SPECIFICATIONS

Colour	aluminium surface other colours available on request, subject to minimum order quantities
Standard	1mm x700 mm x 2000 mm Other sizes available on request, subject to minimum order quantities



applications

- Unique interior decorative walls
- Architectural absorptive ceiling panels
- Acoustic wall and ceiling panels in all types of buildings
- Marine vessel engine rooms, walling and more
- Ideal for external, weather resistant applications
- Lining of acoustic enclosures
- Acoustic baffles

features

- Highly durable, offers high impact resistance
- Weather resistant, suitable for outdoor use
- Maximises noise control with superior air borne noise reduction
- Great for high velocity air flow applications such as communication cabinets and server racks
- Easily cut, shaped and bent using conventional metal working tooling
- Available in a wide range of anodised or prepainted colours
- Easy to clean with soap and water
- Resists mould, mildew and bacteria growth
- Self supporting
- Long service life

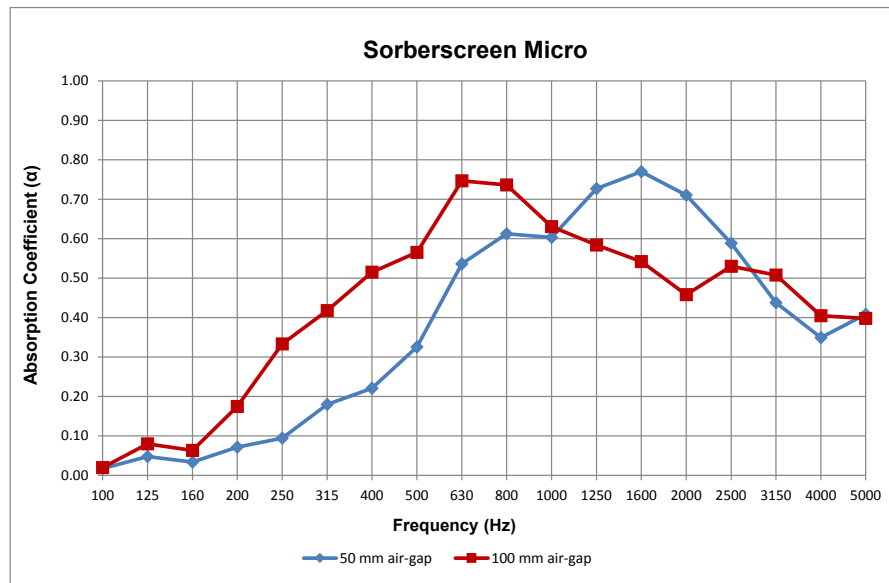


PRODUCT SPECIFICATIONS

Sorberscreen Micro type	Treatment	Finish	Thickness (mm)	Sheet size (mm)
Aluminium	Plain	Consult your local Pyrotek contact for available colours	1 mm (+/- 0.1mm nominal)	700 x 2000
Aluminium	Pre-painted (PVDF)			
Aluminium	Anodised			

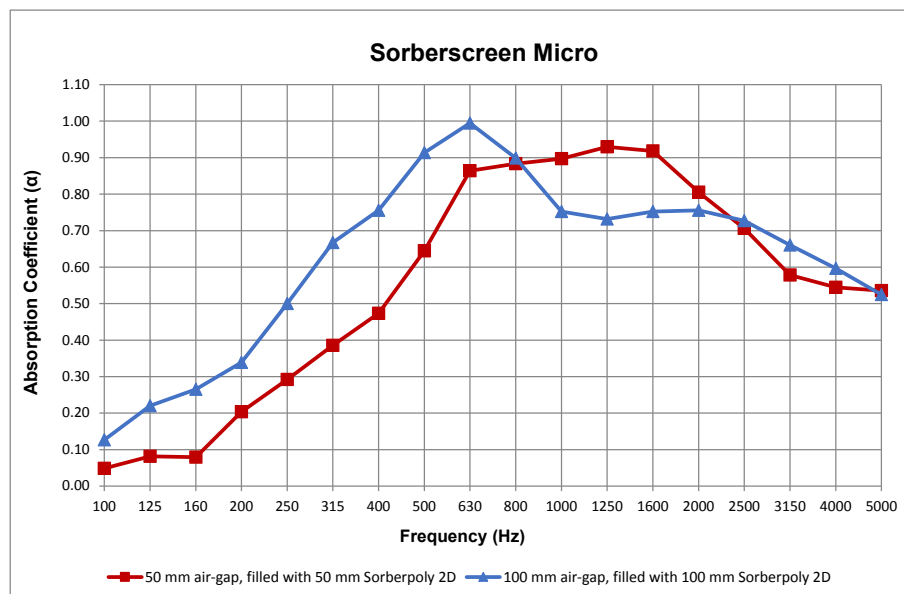
ACOUSTIC PERFORMANCE

Frequency (Hz)	50 mm airgap	100 mm airgap
100	0.02	0.02
125	0.05	0.08
160	0.03	0.06
200	0.07	0.17
250	0.09	0.33
315	0.18	0.42
400	0.22	0.51
500	0.33	0.57
630	0.54	0.75
800	0.61	0.74
1000	0.60	0.63
1250	0.73	0.58
1600	0.77	0.54
2000	0.71	0.46
2500	0.59	0.53
3150	0.44	0.51
4000	0.35	0.40
5000	0.41	0.40
NRC	0.45	0.50
SAA	0.45	0.52
α_w	0.35 (MH)	0.55



*Plain & anodised panels are equivalent in absorption
 Tested to ISO 354:2003 (reduced size reverberation room)
 Report Number: 23816AR

Frequency (Hz)	50 mm air-gap, filled with 50 mm Sorberpoly 2D	100 mm air-gap, filled with 100 mm Sorberpoly 2D
100	0.05	0.13
125	0.08	0.22
160	0.08	0.27
200	0.20	0.34
250	0.29	0.50
315	0.39	0.67
400	0.47	0.76
500	0.64	0.91
630	0.86	0.99
800	0.88	0.90
1000	0.90	0.75
1250	0.93	0.73
1600	0.92	0.75
2000	0.81	0.76
2500	0.71	0.73
3150	0.58	0.66
4000	0.54	0.60
5000	0.54	0.52
NRC	0.65	0.75
SAA	0.67	0.73
α_w	0.60 (M)	0.75



*Plain & anodised panels are equivalent in absorption
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For further information and contact details, please visit our website pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is 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, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek 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 pyroteknc.com/disclaimer.

