

SORBERSCREEN™ FM40 / CM40

micro-perforated aluminium panels

Sorberscreen™ FM40 and CM40 are fibre-free, lightweight, all-aluminium sound and noise absorbing honeycomb panels with flat or corrugated micro-perforated aluminium surfaces.

Sorberscreen™ FM40 / CM40 feature a hard, durable finish with a facing sheet thickness of 0.9 mm (FM40), 1.0 mm (CM40) and a subtle aesthetic appeal.

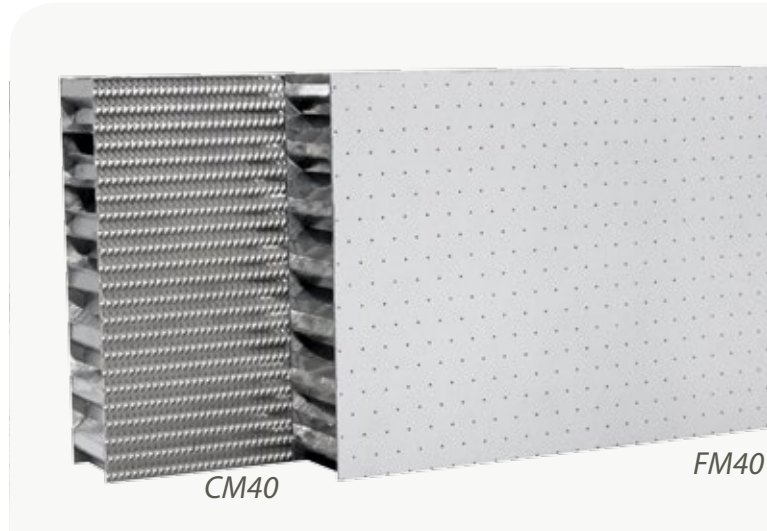
Applied as a decorative feature wall, on the ceiling of a building or as a noise panel application in commercial projects, Sorberscreen™ FM40 / CM40 can also be placed in engine bay applications and around enclosures for effective noise control.

Sorberscreen™ FM40 / CM40 can be cut and drilled with conventional metal working tools. Negative rake blades are recommended for circular saws.

Sound absorption can be tuned to absorb problem frequencies by selecting Sorberscreen™ FM40 / CM40 panel thickness. Low frequency performance improves as the depth of the air-cavity within the honeycomb layer increases.

SPECIFICATIONS

Colour	Aluminium (Standard) Anodised to a range colours (upon MOQ)
Standard	2400 mm x 1200 mm (standard dimension) Panel thickness: 40 mm (6 mm - 80 mm max depending on MOQ)



applications

- Acoustic wall and ceiling panels in all types of buildings, enclosures and even outdoor
- Sound absorption in clean rooms, trains and aircraft

features

- Excellent sound absorption
- Highly durable and lightweight
- Strong, self-supporting
- Easily cut and drilled using conventional metal working tools
- Free of any fibrous or dust producing materials
- Available in powder coated and anodised finishes on request (FM40)
- Resists mould, mildew and bacteria growth
- Easy to clean with soap and water
- Long service life



PRODUCT SPECIFICATIONS

Product name	Standard thickness (mm)	Weight (kg/m ²)	Long beam		Sheet size (mm)	Climbing drum peel	Flatwise compression
			Max load (Newtons)	Deflection at max load (mm)			
Sorberscreen FM40	40	5.2	5250	5	2400 x 1200	188 N / 76 mm	0.9 (MPa)
Sorberscreen CM40	40	5.2	5350	4			

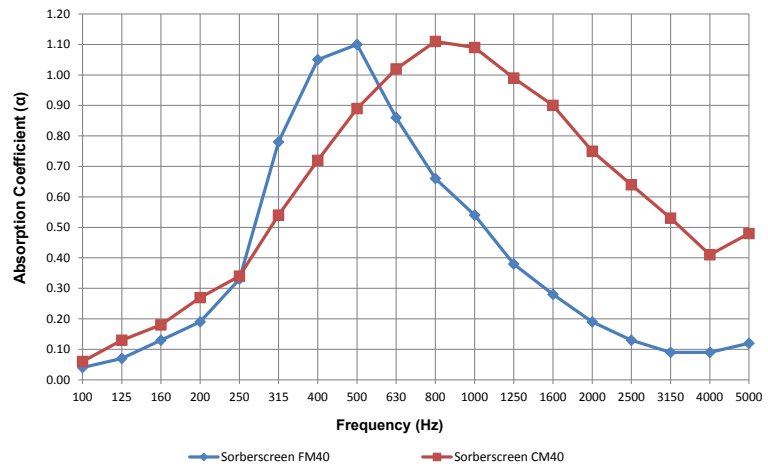
Mechanical test procedures to AMS-STD-401

ACOUSTIC PERFORMANCE

Frequency (Hz)	Sorberscreen™ FM40	Sorberscreen™ CM40
100	0.04	0.06
125	0.07	0.13
160	0.13	0.18
200	0.19	0.27
250	0.33	0.34
315	0.78	0.54
400	1.05	0.72
500	1.10	0.89
630	0.86	1.02
800	0.66	1.11
1000	0.54	1.09
1250	0.38	0.99
1600	0.28	0.90
2000	0.19	0.75
2500	0.13	0.64
3150	0.09	0.53
4000	0.09	0.41
5000	0.12	0.48
NRC	0.55	0.75
SAA	0.54	0.77
α_w	0.25 (LM)	0.60 (M)

Tested to AS ISO 354-2006 at Acoustic Laboratories Australia
Report Number: ALA 15-080-1b & ALA 12-084-1b

Sorberscreen™ FM40 / CM40



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.

