

SILENT PERFORATED ALU

yüksek performanslı delikli metal saclar

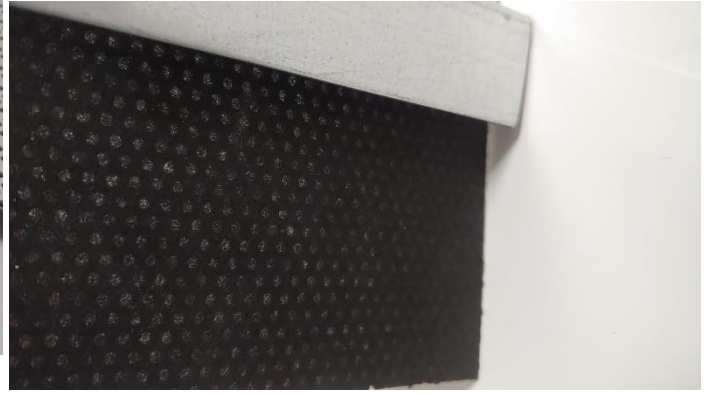
Silent Perforatad, mikro delikli bir metal levhadır. Levhalar, yüksek performanslı ses emilimi sunan siyah, yüksek hava akışına dayanıklı cam bazlı akustik tekstil olan Sorbertextile STA ile kaplıdır. Ürün, estetik bir çekiciliğe sahip sert, dayanıklı bir yüzeye sahiptir.

Delikli metal sac, %36 açık alana sahip denizcilik sınıfı 5052 alüminyum levhadan (Silent Perforated ALU) veya elektro galvanizli çelikten (Silent Perforated EGS) yapılmıştır. Bu açıklık (perfore açıklığı), ses dalgalarının gürültü kaynağından geçmesine ve destek kumaşı tarafından emilmesine izin verir. Ses dalgaları, akışa dayanıklı destek kumaşından geçerken sürtünme yoluyla ısı oluşturarak enerji kaybına neden olarak gürültüyü ve yansıyan sesi azaltır. Levhalar, korozyona karşı direnç sağlayan beyaz bir toz kaplamaya sahiptir. Sorbertextile STA ile yapıştırılmadan önce kolayca toz boya ile kaplanabilir veya istenilen herhangi bir renge sprey boya ile boyanabilir.

high-performance metal perforated sound absorber

Silent Perforated is a perforated metal sheet sound absorber. The sheets are supplied either plain or backed with Sorbertextile STA, a black, high airflow resistant glass-based acoustic textile, that offers high-performance sound absorption. The product has a hard, durable finish with an aesthetic appeal.

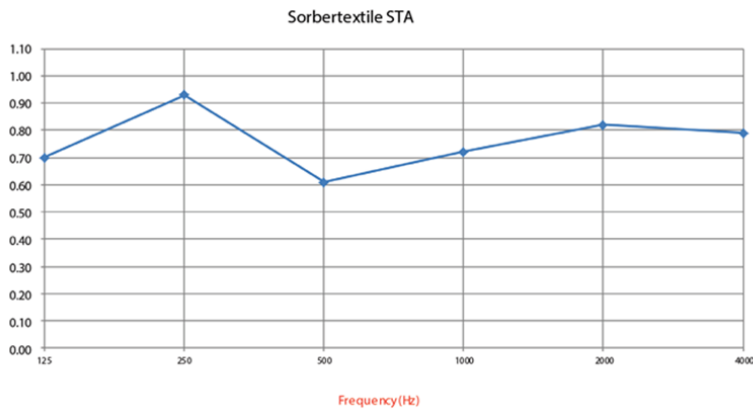
The perforated metal screen is made from either marine grade 5052 aluminium sheet (Silent Perforated ALU) or electro-galvanised steel (Silent Perforated EGS) with 36% open area. This open area allows the sound waves to be passed through from the noise source and be absorbed by the backing fabric. Sound waves when travelling through the flow resistant backing fabric, creates heat through friction, causing a loss of energy, thus reducing noise and reflected sound. The sheets have a white powder coating, offering resistance to corrosion. The metal screen can be easily powder coated, or spray painted to any colour desired, before being bonded with the backing fabric, Sorbertextile STA.



Product name	Coating/Colour	Thickness of perforated metal (mm)	Unperforated area at the edges	Total thickness (mm)	Sheet size lengthxwidth (mm)
SILENT PERFORATED ALU	Plain	2	All surface perforated	1.0	2450 X 950
SILENT PERFORATED ALU	Powder Coated/White (RAL 9010)	2	All surface perforated	1.22	
SILENT PERFORATED ALU	Powder Coated/White (RAL 9003)	2	All surface perforated	1.22	
SILENT PERFORATED ALU	In Desired Color (RAL X)	2	All surface perforated	1.22	
SILENT PERFORATED ALU	Plain	2	All surface perforated	1.0	2450 X 950
SILENT PERFORATED ALU	Powder Coated/White (RAL 9010)	2	All surface perforated	1.22	
SILENT PERFORATED ALU	Powder Coated/White (RAL 9003)	2	All surface perforated	1.22	
SILENT PERFORATED ALU	In Desired Color (RAL X)	2	All surface perforated	1.22	

SORBERTEXTILE STA SOUND APSORPTION TESTED

Frequency (Hz)	Metal perforated tile (36% open area, 2 mm hole size with STA and 400 mm air gap)
125	0.70
250	0.93
500	0.61
1000	0.72
2000	0.82
4000	0.79
NRC	0.80



BRANZ Technical Opinion

Group Number Assessment

This is to certify that the specimen described below has been tested by BRANZ Ltd on behalf of

Pyrotek Pty Ltd
147 - 149 Magowar Rd
Girraween
NSW 2145
Australia

Test standards: ISO 5660 Parts 1 and 2, AS/NZS 3837:1998
Specimen name: Sorbertextile™ STA
Specimen description: A black acoustic textile used for backing perforated materials.
Orientation: From the direction tested.

A full description of the test specimen and results are given in BRANZ Reports:

FH 5998-TT - test date 24 March and 21 June 2016 and FH 5998-TO

Regulatory authorities are advised to examine test reports before approving any product.

The test results were the basis for the following:

Classification Document	Group Number Classification
NZBC Verification Method C/M2 Appendix A	1-S
NCC Specification C1.10 Clause 4 determined in accordance with AS 5637.1	1

The average specific extinction area was less than the 250 m²/kg limit

Issue Date: 18 July 2016 **Expiry Date:** 18 July 2021



All tests and procedures reported herein, unless indicated, have been performed in accordance with the laboratory's scope of accreditation.