

SilentPET® acoustic solutions

Acoustic panels from recycled PET bottles



ACOUSTICS FROM PET **BOTTLES**

Enjoy peace of mind and time for reflection at work, while thinking about your health. Being in a noisy environment adversely affects your health and therefore worker output.

Finding a good solution for room acoustics is one of the standards of quality offices and living spaces in the world.

Therefore, we have found a solution that solves acoustic imperfections in spaces - SilentPET® panels.

HOW THEY ARE MADE













PRODUCT

INNOVATION

We think ecologically and we care about sustainability. That's why we came up with the idea of how to produce acoustic panels from PET bottles.

WASTE

A large number of recycled waste PET bottles are

PET bottles are processed into fibres in the manufacturing process to form a final blend of material.

PROCESS

Final rolling produces SilentPET® sound insulation boards with excellent acoustic properties.

WHERE SILENTPET WORKS



OFFICES



SCHOOLS



MANUFACTURING PLANTS AND **WORKSHOPS**



YOUR HOME

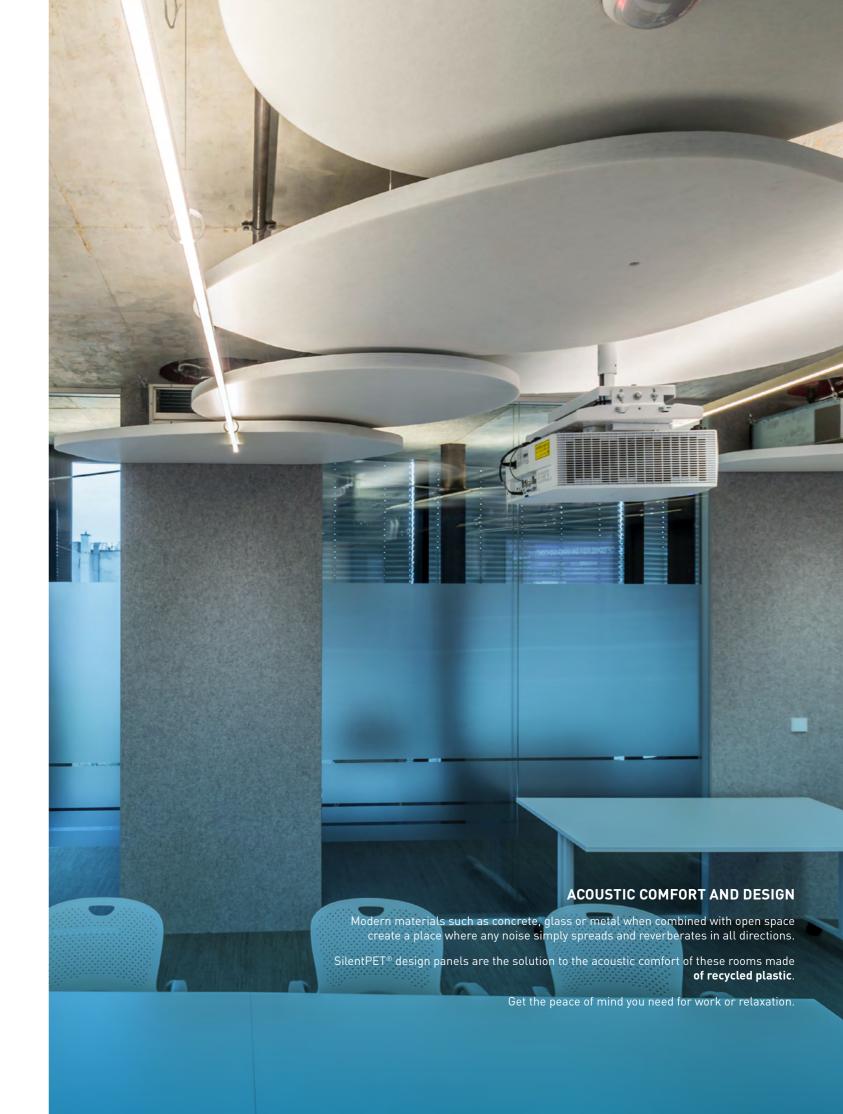
We specialize in office space and we know how to make yours a nice place for meeting and getting work done.

Cloakrooms, hallways, auditoriums and especially classrooms and lecture halls. We create peace and quiet in any space.

Even in extremely noisy conditions, we can make things run smoothly so that your skilled workers can get things done.

You don't have to shout each other down at home. Open galleries, large glass covered areas and interconnected rooms all are working against you.

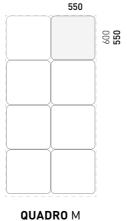
Create well-being at home!

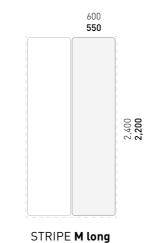


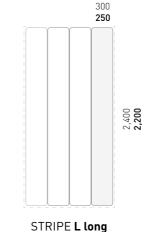


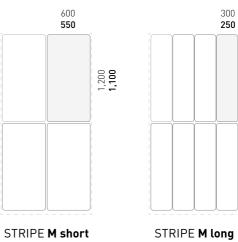


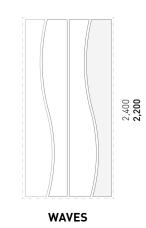
1,200 **1,100** 600 **550** 900 QUADRO L



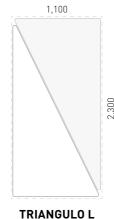




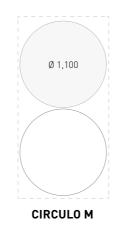


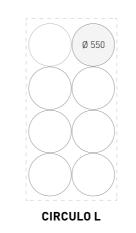


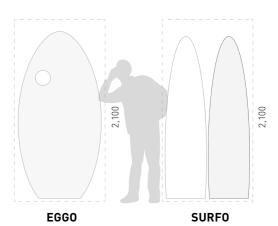
1,200 **1,100**

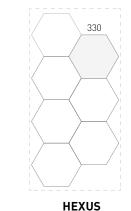


1,000 TRIANGULO M









THE RIGHT SHAPE

Functionality is important, but we also have to like

Choose from our library of features or choose your own design!

The basic dimension of 2,400 x 1,200 mm offers a wide range of shapes.

STAND OUT OR FIT IN?

Choose the thickness, colour variation or special surface treatments such as printing graphics and RAL staining.

A LITTLE HIGHER!

SilentPET® acoustic panels installed in the right places will achieve the ideal diffusion and reverberation absorption in rooms.

15 MM **50 MM**

THICKNESS OF THE MATERIAL

WHITE **GREY BLACK**

BASIC COLOURS

PRINT GRAPHICS **RAL** STAINING

SURFACE FINISH



HANGING ON THE CEILING

In most cases it is the most effective solution, whether you place it horizontally or vertically.



FASTENED TO THE WALL

Create a functional image, complement your existing design or convey your thoughts directly on the wall.



FREE STANDING

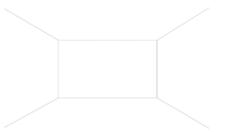
A divider is an ideal solution for quickly moving it to where you need it at the moment.

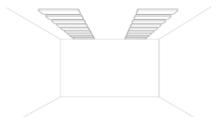


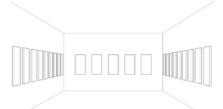
MODERATING REVERBERA-TION

The reverberation and echo time of a room can be influenced not only by the number of absorbing surfaces, **but also by their placement**.

Take a look at **the basic fastening options** and how the chosen solution **affects room acoustics**.







EMPTY ROOM

Room size 6 x 8 x 2.7 m. Glass surfaces 30%. Walls are exposed concrete. Smooth cast floor.

Absorption area (m²)	0
Reverberation time (seconds)	3.08

Improvement up to (%)

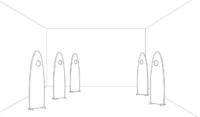
HORIZONTALLY ON THE CEILING

Suitable for low light clearance

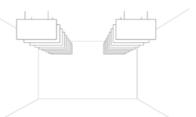
Absorption area (m²)	11.5
Reverberation time (seconds)	1.81
Improvement up to [%]	41

PLACEMENT ON THE WALL

Absorption area (m²)	11.5
Reverberation time (seconds)	1.75
Improvement up to (%)	43







SOLITARY DIVIDERS

✓ No interference with structures✓ Portable as needed

Absorption area (m²)	11.5
Reverberation time (seconds)	1.35
Improvement up to (%)	56

HORIZONTALLY SUSPENDED

✓ Interior design element

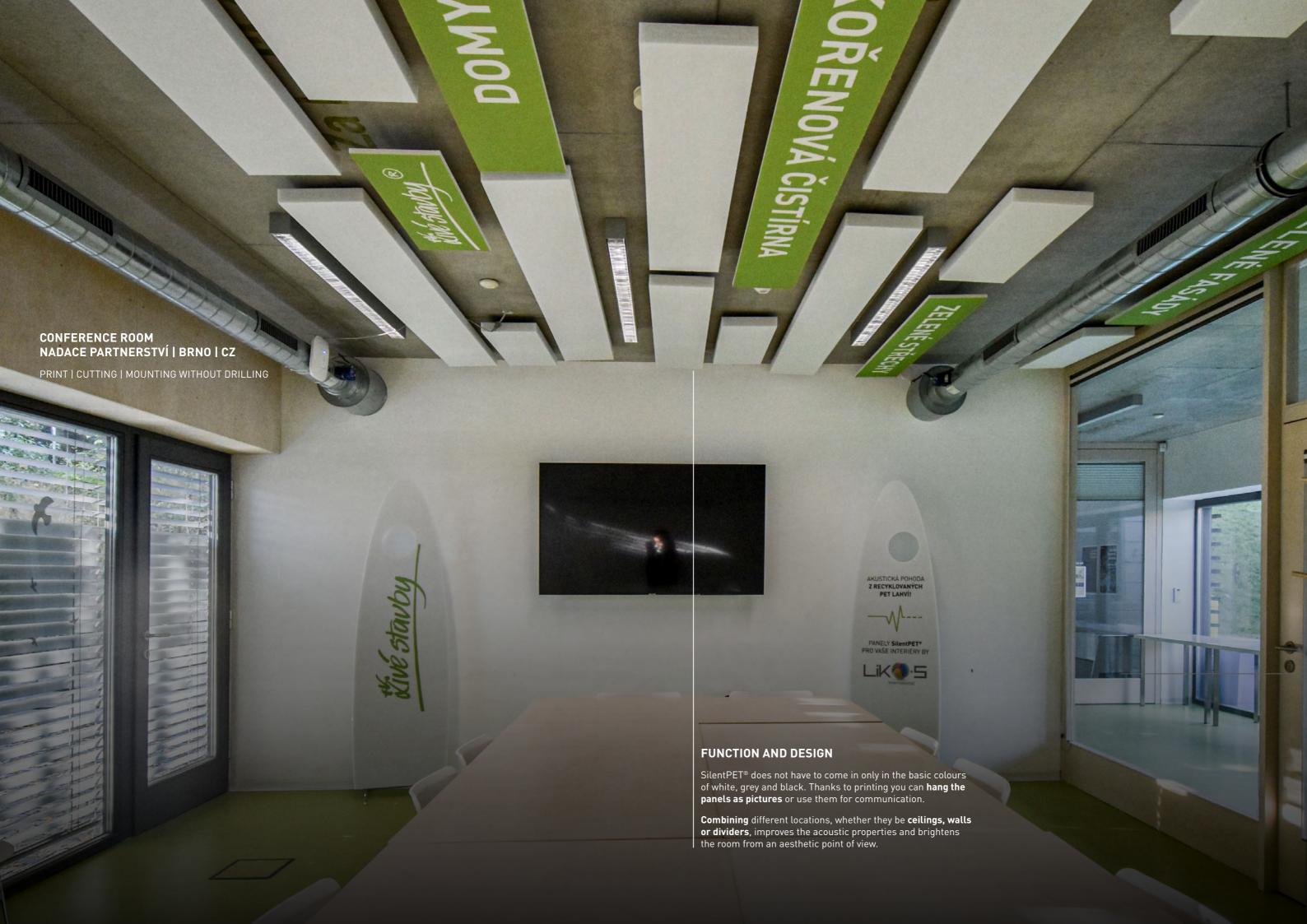
arphi Height adjustment possible

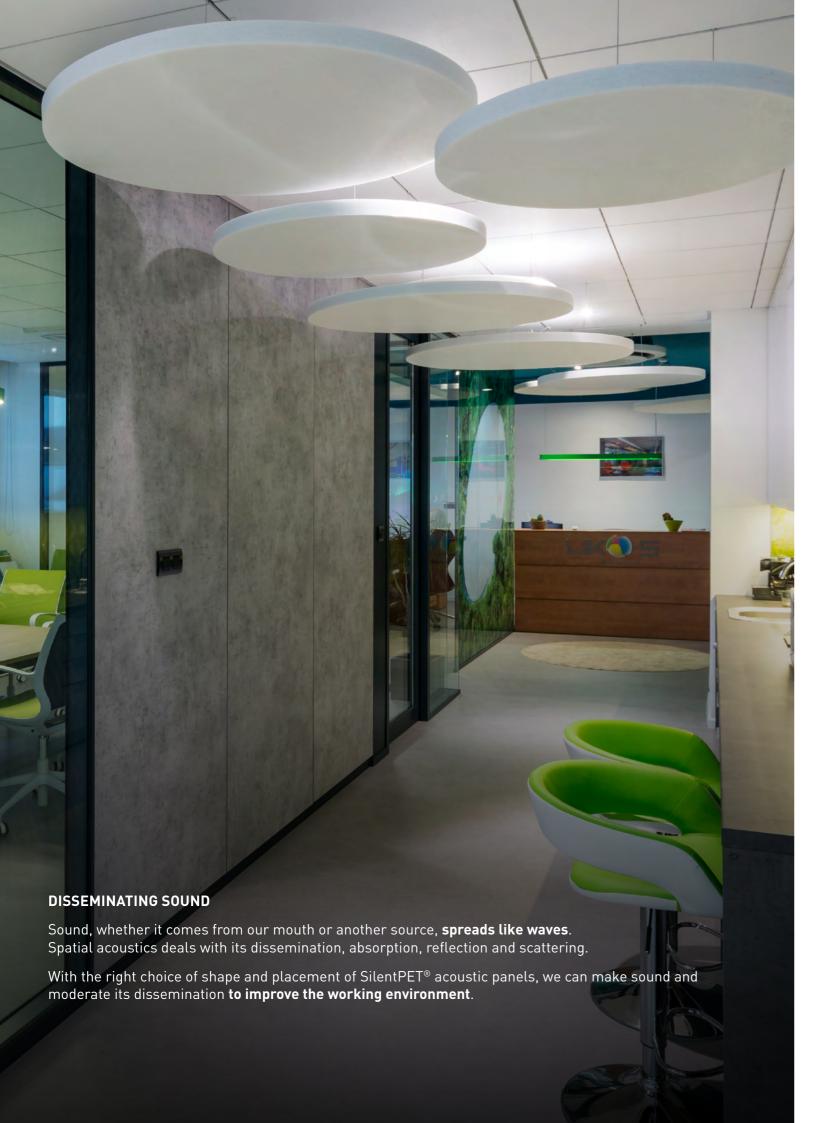
VERTICALLY SUSPENDED

Possibility of placing a large amount of material in a small area

Absorption area (m²)	11.5	Absorption area (m²)	11.5
Reverberation time (seconds)	1.3	Reverberation time (seconds)	1.17
Improvement up to (%)	58	Improvement up to (%)	62





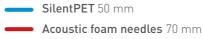


TECHNICAL SPECIFICA-TIONS

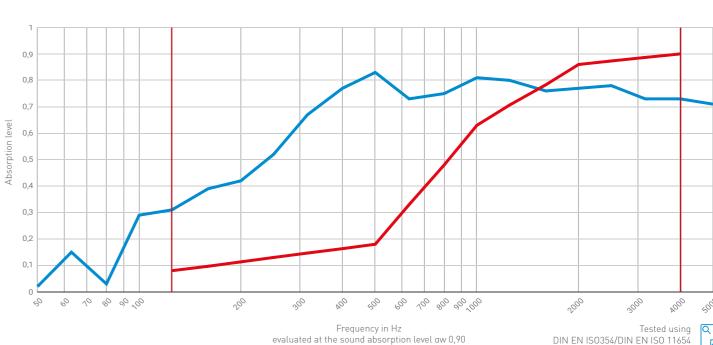
Excellent acoustic properties and high product standards guarantee **health-friendly** properties and **easy maintenance**.

In addition, we use environmentally friendly processes with the lowest possible CO_2 emissions in our production, which is why the production waste is returned to the production process.

SOUND ABSORPTION



Frequency range essential for the clarity of the human voice.



TECHNICAL SPECIFICATIONS

COMPOSITION	60% recycled PET bottles 40% bico fibers (fibrous adhesives)
STANDARD SIZE	standard 2,400 x 1,200 mm (other sizes upon request)
PANEL THICKNESS	15 mm 50 mm
COLOURING	white grey black print
WEIGHT	2,600 g/m ²
MOISTURE RESISTANCE	yes
EMISSION	odour-free, does not release gases
FIRE RESISTANCE	B-S1, d0 (EN13501)
TEMPERATURE RANGE	-30 °C to + 80 °C

NOT HARMFUL TO HEALTH

SilentPET® complies with "Öko-Tex® Standard 100 Product Class I" for products suitable for young children, even used as a padding for cot mattresses. The material is **skin friendly and does not cause allergies, irritations or respiratory problems**.

SilentPET® is odourless and emits no emissions. In addition, it is moisture resistant and does not tend to get mouldy or become infested by parasites.

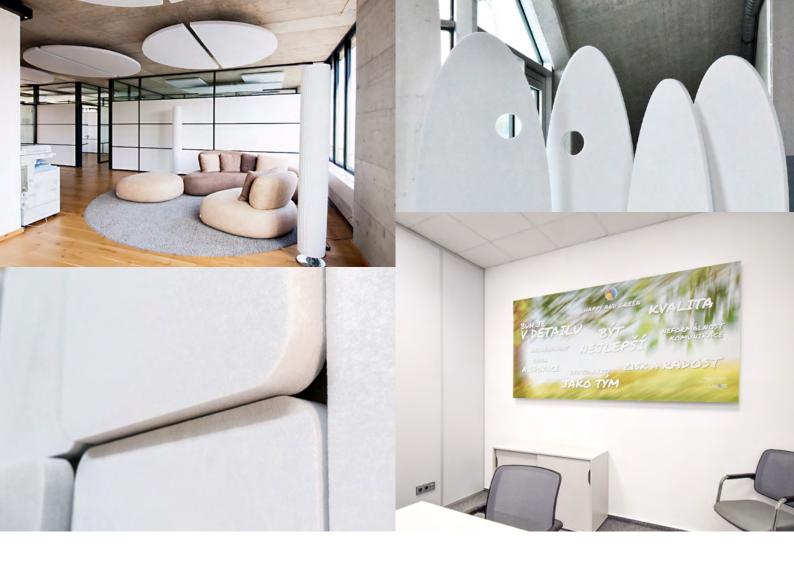
EXPERT ANALYSIS

If you want to make your environment a more pleasant place to work or relax, all you have to do **is contact us** and we will provide you with professional analysis, calculations of reverberation time and other quantities.

Not everything can be calculated, so we apply our rich experience and development from our own acoustic chamber.

TECHNICAL DATA SHEET SILENTPET | EN | 02-2021







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