





interiors

SilentPET®

SilentPET® are acoustic panels made from PET bottles and textile fibres. Ecological processes with minimum emissions of CO₂ are applied in the production process, therefore even the waste generated during such production goes back to the production process, thus also reducing negative impacts on the environment. Acoustic panels can be used in residences, offices, hotels, restaurants, and also in industrial buildings. SilentPET® is resistant to moisture, fungi and parasites.

Room acoustics

Noise - Stress - Health



Noise every day, everywhere
Every day, we are surrounded by a variety of noises. Some of these we are aware of, but for the most part we remain unaware since there are different levels of noise.



The Lombard-Effect
Modern architecture and new building materials often have a negative influence on room acoustics. Large rooms, hard floors, ceilings, and large windows in the room generate echo. Voice understandability is reduced, conversation becomes louder and requires increased concentration. The overall noise level accumulates on a relatively high level.



Poor room acoustics reduce the capacity for learning and productivity
These various noise influences combined with the difficulty of understanding conversations put us under stress relatively quickly, meaning that we soon feel tired or even exhausted.



Health
Noise affects our health, and it is not just the actual noise level but also the timescale over which the noise has an effect on our hearing that is crucial. Various studies show that noise also affects the nervous system across our entire bodies and can lead to headaches, insomnia, loss of concentration, tinnitus and even raised blood pressure and an increased risk of heart attacks.

Solution – good room acoustics

Better atmosphere for greater comfort

Premises with good acoustics are more pleasant, provide greater comfort, and reduce the stress factor generated by noise. Noise levels are reduced and noise emissions from the office equipment and staff communication are significantly restricted. The result is that the specific part of the room becomes nicer for both work and rest.



The right acoustics

It is not simply a matter of the problem being solved by having as many sound-deadening materials in one place, however. By adding acoustic materials to right places, the noise is absorbed instead of being reflected back into the room. This eliminates undesired crosstalk, noises, and the echo is reduced. Musicians need various acoustics. However, we cannot always "calculate" and plan everything in advance. Searching for the ideal acoustics of a space requires also certain level of experimentation and experience.



SilentPET® for the best acoustics in room

The reverberation period in a room can be significantly reduced by the implementation of our acoustically efficient SilentPET® products and brought down to a pleasant level. Different versions of SilentPET® products are available that can make the room also visually attractive.



Ecology

Using recycling for environmentally-friendly production

We think ecologically and we care about sustainability



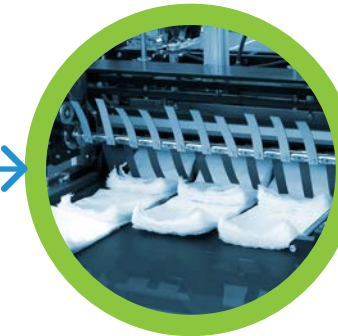
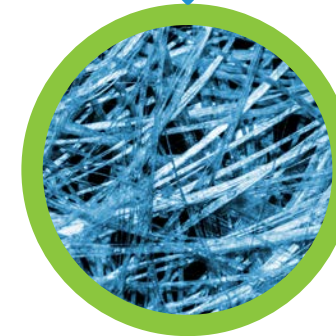
We had a great idea how to manufacture SilentPET® panels

The production base is a large volume of PET bottles from recycled waste



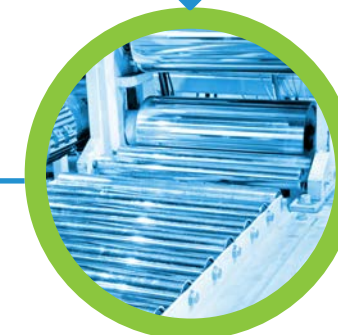
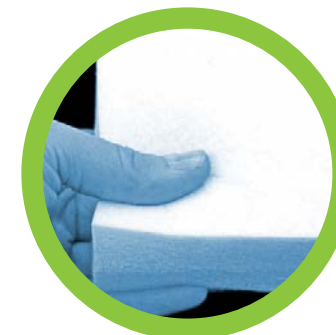
By utilization of separated waste in the form of PET bottles we help our nature

PET bottles are transformed in the production process into fibres



There is only one last step from the material so the final product

End product with excellent acoustic values.



Excellent SilentPET® noise-insulation panels are produced by final rolling.

SilentPET®

Home & Office

SilentPET® provides a pleasant atmosphere and reduces noise. Ideal for living areas, offices, health studios, hotels, restaurants and wherever aesthetics are just as important as good room acoustics.



The Home & Office version is made mostly from assorted recycled PET bottles. The base, which is highly efficient from the acoustic point of view, has a white core with white felted lining, placed usually on one side for pleasant light reflection to the room. The simple design and small surface area of the Home & Office version enable its installation anywhere and complements perfectly any existing interior design.

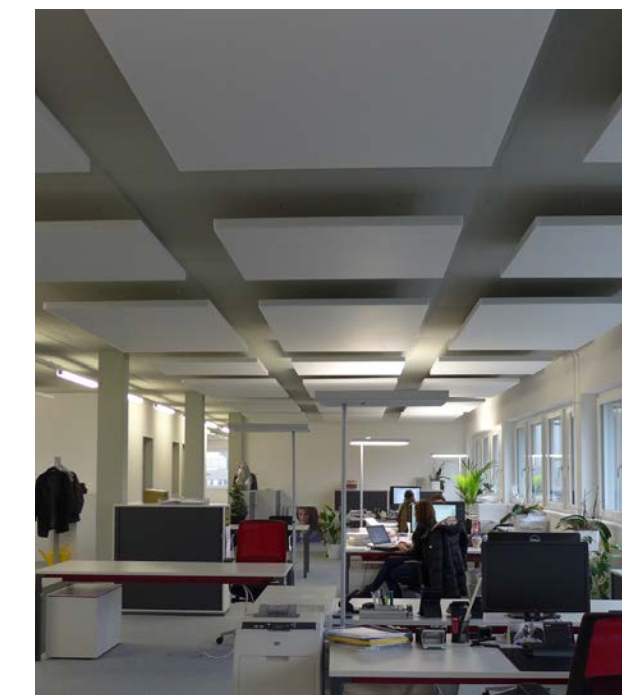


ADVANTAGES

- Installation during normal operations
- Installation into the design of the room
- Flexible types of assembly
- Available in a variety of colours and designs
- Environmentally-friendly production
- Causes no irritation of skin or airways

Versions

SilentPET® Home & Office acoustic components are available in a wide range of colours and finishes. Our standard colour collection offers in most cases selected shades with the shortest delivery terms, while for special design or customer's requests we have a more complex set of finishes and colours.



Print & Art

Acoustic elements printed with your favourite motif or with a hand-painted image of your choice. Sound-absorbing, stylish artwork that can be mounted on the ceiling or the wall. Acoustic panels can also be sprayed in RAL colours or given an imaginative airbrushed design.

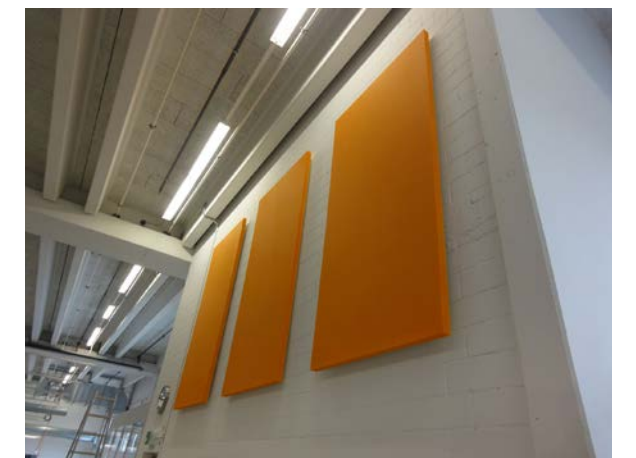


Print

To print your favourite motif and pattern of your choice on SilentPET®Print, we use state-of-the-art printing technologies. The acoustically effective image improves the room both visually and in terms of acoustics.

Industry & Wall

Robust design resistant to impacts for demanding industrial environments. Resistant to moisture and fungi, and parasites. Acoustic components are non-hygroscopic and water resistant, and may therefore be installed for the optimization of room acoustics even in humid operations. SilentPET® wall components are integrated directly in the wall structure and create the best room acoustics. At the same time, they represent an ideal alternative of space saving in offices and other places.



Specifications

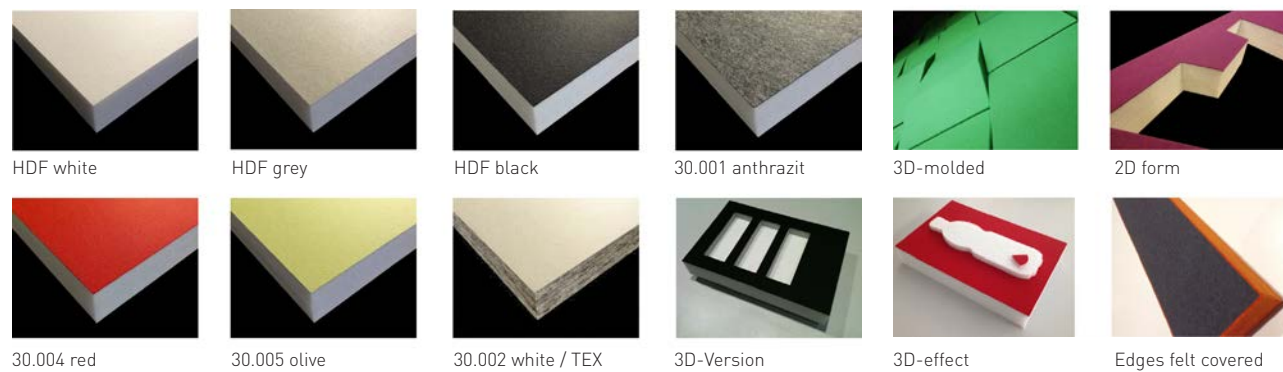
	SilentPET® Home & Office	SilentPET® Print & Art	SilentPET® Wall	SilentPET® Industry
«RECwhite» ¹⁾	X	X	X	X
«TEX» ²⁾	X		X	X
Surface	Felt, various colours	Thermally treated	Felt or thermal	Raw
Maximum size	1500 x 2400mm	1500 x 2400mm	1500 x 2400mm	1500 x 2400mm
2D-forms possible	X	X		X
Panel thickness	50mm	15mm / 50mm	15mm	50mm
Weight	2600g /m ²	15mm: 1200g/m ² 50mm: 2600g/m ²	1200g /m ²	2600g /m ²
Temperature range	-30°C bis +80°C	-30°C bis +80°C	-30°C bis +80°C	-30°C bis +80°C
Damp resistant ³⁾		X	X	X
Emissions (SP Ref. F1 22842)	Odour-free, emits no gases	Odour-free, emits no gases	Odour-free, emits no gases	Odour-free, emits no gases
Fire rating ⁴⁾	B-S1,d0 (EN13501)	B-S1,d0 (EN13501)	na vyžádání	B-S1,d0 (EN13501)
Contents	No noxious contents	No noxious contents	No noxious contents	No noxious contents
Standard element sizes	1200 x 1200mm 1200 x 2400mm Ø 1200mm	1200 x 1200 x 50mm 1200 x 1200 x 15mm Ø 1200mm x 50mm	1180 x 2400mm 1180 x 1150mm 1200 x 1200mm	1200 x 1200mm 1200 x 2400mm

1) RECwhite composition: 60% recycled PET fibres, 40% bico fibers (fibre adhesives)

2) TEX composition: 40% recycled textile fibres, 20% recycled PET fibres, 40% bico fibers (fibre adhesives)

3) Applies to RECwhite versions without felt surface

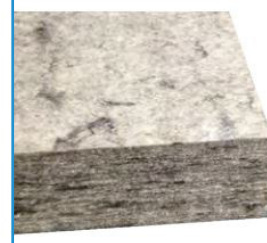
4) Applies to RECwhite versions



SilentPET® Print (RAL)



SilentPET® RECwhite



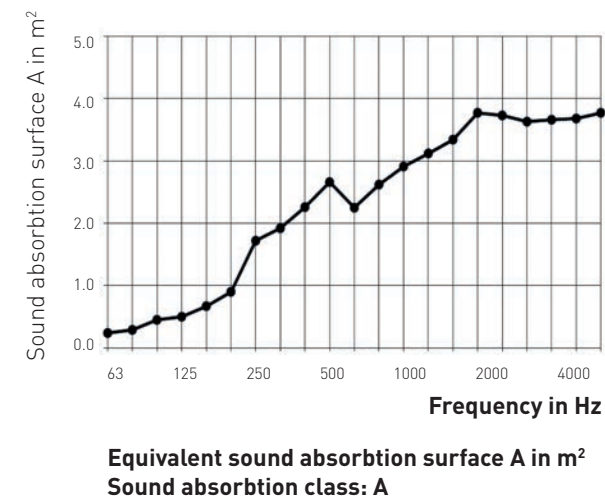
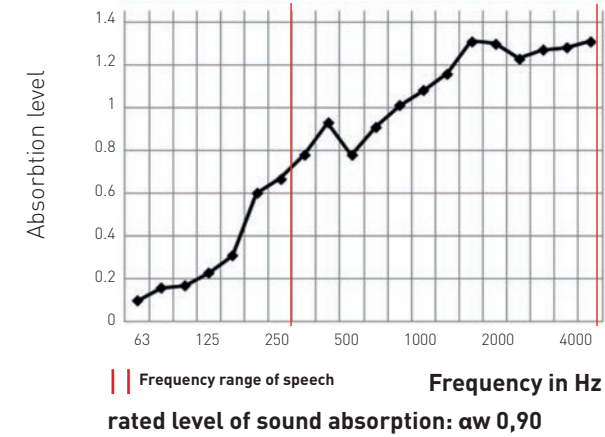
SilentPET® TEX

Excellent acoustic values

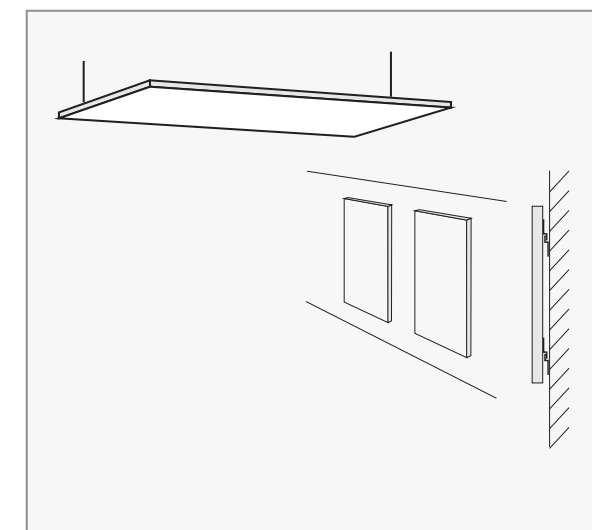
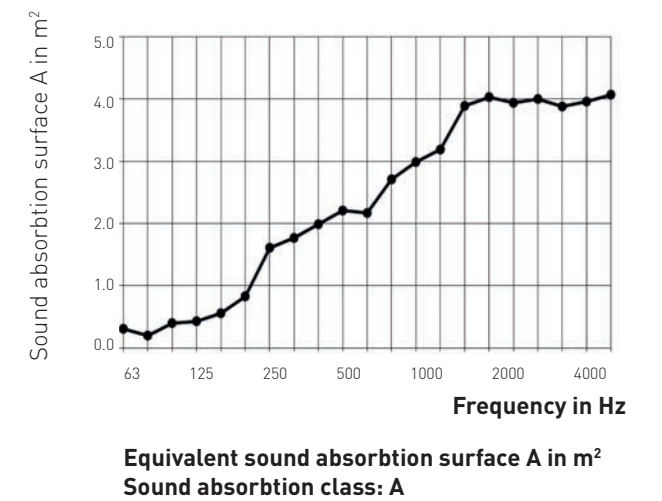
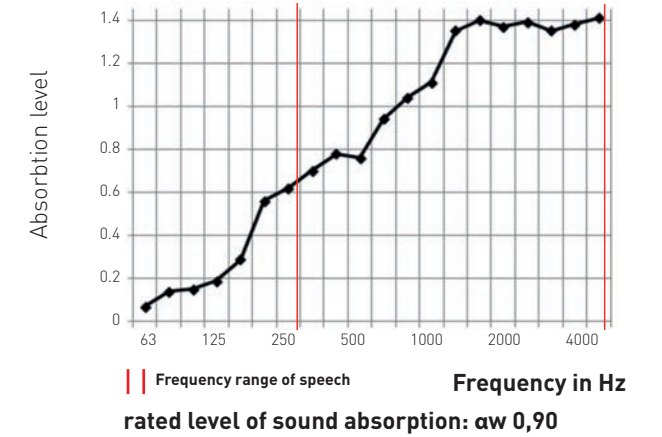
(tested using DIN EN ISO354/DIN EN ISO 11654)

“Sound absorbtion”

SilentPET® RECWhite, 300mm hanging height
1200x2400mm, 50mm, 2600g/m²



SilentPET® RECWhite, 500mm hanging height
1200x2400mm, 50mm, 2600g/m²



Installation

SilentPET® acoustic elements can be mounted directly on ceilings or walls using a special aluminium mounting profile. For ceiling mountings we recommend where possible hanging using our elegant steel cable system, since this improves the acoustic effect. The ideal height for hanging is 200 - 500 mm. The elements can also be glued directly.

Product care

SilentPET® elements do not usually require any special care. As is the case with any object in a room however, dust and dirt particles may build up on the surface over time. These can be removed using a vacuum cleaner or duster. When using a vacuum cleaner, select the same settings as for curtains or similar textiles. Dirt flecks can be removed with a soft brush.



Health proven

SilentPET® is in compliance with the "Öko-Tex® Standard 100 of Product Class I" for products suitable for small children, it is therefore used even as cushioning in mattresses of children's beds. The material is skin friendly and does not cause allergies, irritation, or respiratory tract problems. SilentPET® is odour free and does not produce any emissions. In addition, it is resistant to moisture and does not tend to form fungi or parasites.



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