



StoSilent Panel Seamless acoustic system

Acoustics and aesthetics

Seamless wall and ceiling technology



Systematic solutions:

StoSilent Panel

The negative effects of long reverberation times (in laymans terms "echo") can be diminished substantially in both new and existing rooms with the StoSilent Panel acoustic system, which can be installed seamlessly over an area of up to 200 m². The acoustic panels, which are made of expanded glass

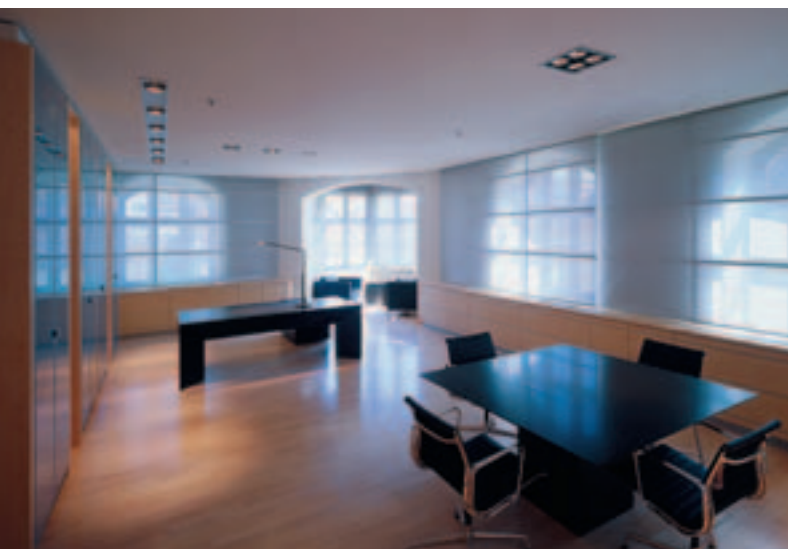
granulate, enable a mean sound absorption level of up to 85% when installed as a ceiling and wall system or as an independent architectural element – regardless of whether it is used in a conference room, function room, lecture theatre or swimming pool. Depending on the given room scenario and structural requirements, the basic Panel is available in different system variations: StoSilent Panel Alu,

for example, is suitable for plenum ceilings and in rooms with increased air circulation. Where curved ceilings are planned or a degree of mechanical stress in the wall area is anticipated, StoSilent Panel Robust with mesh insert on both sides is the perfect solution. If the sound in a room is to be deflected into a specific direction, the corresponding panels can be treated with plaster.

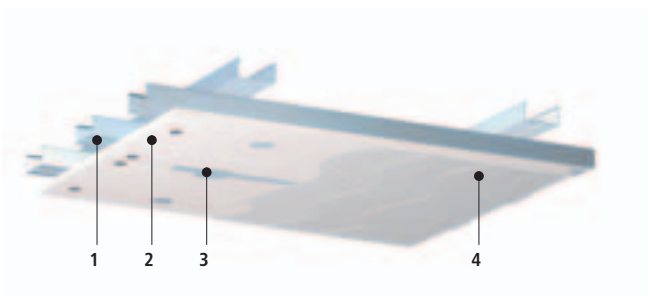


System description StoSilent Panel

Appearance	<ul style="list-style-type: none"> • Seamless • Broad design variety in terms of form and structure (flat surfaces, plastic forming, free-standing elements, stepped structures, radii etc.) • Barely textured, matt-effect surface • Colour design in 460 colours of the StoColor system
Application	<ul style="list-style-type: none"> • Installation-friendly acoustic panels (low weight, typical processing for dry construction) • Large-format panels for quick installation • Perfectly coordinated system components ensure reliable systems
Formats of the acoustic panel	<ul style="list-style-type: none"> • 1200 x 800 x 15 mm • 2400 x 1200 x 15 mm
Mean absorption level	NRC up to 0.85
Weighted sound absorption factor	up to 0.80
System weight	approx. 9.6 kg/m ²
Fire protection	Limited combustibility
Top coat StoSilent Superfein	<ul style="list-style-type: none"> • Acoustically transparent • Silicate-based coating • Luminous reflectance approx. 0.90 • Lightness value approx. 0.83 • Whiteness approx. 0.66
Approval	<ul style="list-style-type: none"> • P-SAC 02/III-052



◀ **Regulates the reverberation time in buildings with a large proportion of reverberant surfaces:**
StoSilent Panel



1 Carrier board

2 StoSilent Panel

3 Intermediate coat

Connection of the acoustic Panel (with StoSilent Fix or StoSilent Coll system adhesive for straight-edged panel and StoSilent Plan system filler)

4 Acoustically transparent decorative top coat

◀ **Suitable for seamless installation over areas of up to 200 m²:**
StoSilent Panel

System variations

StoSilent Panel



The solution for any requirement

Buildings and rooms have different room-acoustic requirements depending on their use – concert halls, theatres and opera houses usually have different functional and aesthetic specifications than buildings such as museums, schools, exhibition, training and conference venues. The precise requirements regarding absorption and reflection properties and reverberation times are always dependent on the specifics of the individual project concerned. The StoSilent Panel acoustic system provides individual solution concepts for all requirements.

Acoustic panel system variations

Acoustic Panel	Area of application	Functions/characteristics
StoSilent Panel Alu Airtight acoustic panel with rear lamination	<ul style="list-style-type: none"> • Plenum ceilings • Ceilings below the roof such as attic, trapezoidal profiled roof, timber roof and rooms subject to increased air movement or thermal requirements • Moist areas such as swimming baths (not saltwater baths) • Wall facing shells on outer walls free of mechanical stress 	<ul style="list-style-type: none"> • Suitable for seamless installation over areas of up to 200 m² (max. side length 20 m) • Weighted sound absorption factor: up to 0.45 • Low weight, high stiffness • Low moisture-induced and thermal expansion • Limited combustibility
StoSilent Panel Robust Acoustic panel with mesh insert on both sides	<ul style="list-style-type: none"> • Indoor ceiling and wall surfaces • Wall facing shells on inner walls subject to low levels of mechanical stress • Curved surfaces with a radius of ≥ 5 m 	<ul style="list-style-type: none"> • Suitable for seamless installation over areas of up to 200 m² (max. side length 20 m) • Weighted sound absorption factor: up to 0.75 • Low weight, high stiffness • Low moisture-induced and thermal expansion • Limited combustibility
StoSilent Panel Robust Alu Airtight acoustic panel with mesh insert on both sides and rear lamination	<ul style="list-style-type: none"> • Plenum ceilings • Ceilings below the roof such as attic, trapezoidal profiled roof, timber roof and rooms subject to increased air movement or thermal requirements • Moist areas such as swimming baths (not saltwater baths) • Indoor ceiling and wall surfaces • Wall facing shells on outer walls subject to low levels of mechanical stress • Curved surfaces with a radius of ≥ 5 m 	<ul style="list-style-type: none"> • Suitable for seamless installation over areas of up to 200 m² (max. side length 20 m) • Low weight, high stiffness • Low moisture-induced and thermal expansion • Weighted sound absorption factor: up to 0.45

Acoustics for a sense of wellbeing

StoSilent Panel

Hearing is the interpretation of sound waves and volume, the frequency and quantity of which has a direct effect on one's wellbeing and ability to concentrate.

The acoustic quality of a room is well balanced when there are no excessively long reverberation times, disturbing noises or undesirable sound reflection.

Sto acoustic systems provide solutions for ceilings and walls that meet all aesthetic, acoustic and climate requirements.



StoSilent Panel even caters for curved surfaces.



**Also suitable for use in moist rooms:
StoSilent Panel**

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