



Sto AG | Interiors

**Acoustic system
StoSilent A-Tec**

StoSilent A-Tec – Acoustic design with built-in fire protection

Fire protection in an elegant guise: The StoSilent A-Tec acoustic system enables you to meet even the most stringent safety requirements with the greatest of ease, without having to compromise on ceiling or wall design. Not to mention perfect room acoustics. So it's no wonder that ever increasing numbers of professionals are warming to this system in a big way.

Non-combustible, should the worst come to the worst

Integrated fire protection already plays an extremely important role in the commercial sector today, and requirements are becoming ever more stringent. Non-combustible wall and ceiling linings are now compulsory in many public buildings and meeting places.

The StoSilent A-Tec system offers an ideal, innovative solution here. Its core element, the non-combustible StoSilent A-Tec acoustic panel, is approved by the building inspectorate for areas subject to a risk of fire. It combines maximum safety with the many other advantages of the high-quality Sto acoustic systems.

Perfect acoustics

The StoSilent A-Tec system is also a top performer on the acoustic front. Its excellent sound absorption characteristics in all frequency ranges provide for pleasant room acoustics. Undesired reflected sound is reduced substantially by the lightweight monolithic acoustic panels. This ensures a well-balanced, harmonious sound even in rooms with hard surfaces.

Office building of Vattenfall Europe, Cottbus, Germany





Law Faculty Building, Cambridge University, Great Britain

Versatile in design

The StoSilent A-Tec system provides planners and building owners with practically unlimited scope for wall and ceiling design. Thanks to their extremely minimal expansion characteristics, the acoustic panels can be joined to create seamless surfaces covering areas of up to 200 m². They can also be used to produce offset surfaces, acoustic baffles and curtain walls as required.

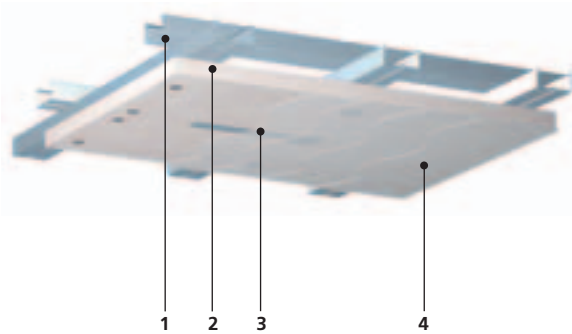
A particularly elegant surface design is obtained with StoSilent Superfein, the system's sound-permeable top coat. StoSilent Superfein is available in more than 460 attractive colours from the StoColor System, to lend every room its own individual, unique appearance.

Simple and reliable application

The panels of the StoSilent A-Tec system are extremely easy to install. Integrating lighting, loudspeaker or ventilation elements is equally simple. The top coat is applied quickly and reliably by means of the tried and tested spraying method.

The StoSilent A-Tec Panel Alu variant is available for all areas subject to pronounced air movement, such as swimming baths, vacuum ceilings or the ceilings of top floors. A fleece lining on the rear of these panels prevents air flow through the panels. As a welcome side effect, this also leads to a considerable lengthening of renovation cycles.

System components



- 1 Compression-proof metal sub-structure
- 2 StoSilent A-Tec Panel / StoSilent A-Tec Panel Alu
- 3 Panel joint, bonded with StoSilent Fix and filled with StoSilent Plan
- 4 Sound-permeable top coat of StoSilent Superfein

Technical data

StoSilent A-Tec Panel / Sto Silent A-Tec Panel Alu

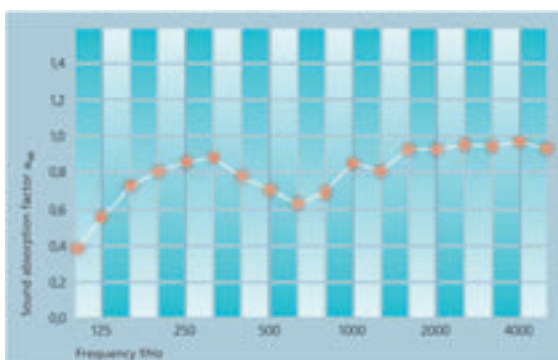
Panel format	1200 x 625 x 25 mm
Weighted sound absorption factor α_w	up to 0.85*
Panel weight	approx. 7.0 kg/m ²
Building materials class (in accordance with DIN 4102)	non-combustible A2

Top coat in StoSilent Superfein

Luminous reflectance	approx. 0.90
Lightness value	approx. 0.83
Whiteness	approx. 0.66

*depending on system components and type of panel used

Sound absorption



StoSilent A-Tec, at a suspension height of 233 mm

Technical note:

All information and figures have been carefully checked and are in accordance with current practices and standards. They are to be considered as general information and do not take into account the special aspects relating to specific buildings and applications. All the above information is provided without any guarantee of its applicability to a real application scenario. This brochure will cease to apply upon publication of a new edition.



Eugen Schwarz office building, Stuttgart, Germany

Room acoustics: Reconciling architecture and well-being

Acoustics are important to the functions of a room and the feeling of well-being in a room. Long reverberation times, disturbing noises or undesired sound reflection can have severely detrimental consequences. This calls for a systematic approach to prevent such effects.

A complex challenge

Smooth walling and sound-reflecting surfaces such as concrete, metal, glass or marble are common features of modern architecture. This results in a low level of sound absorption.

The precise requirements pertaining to the absorption and reflection characteristics of individual room elements always depend on the specific situation applying to the room concerned, however. From concert halls through foyers and open-plan offices to conference halls, every room has its own acoustic concept entailing a broad range of highly complex factors. Professional planning expertise is required in order to meet the challenges involved here.

Comprehensive system for individual solutions

Sto offers planners comprehensive support in all aspects of room acoustics, covering both the design of new rooms and improvements to existing premises.

Where necessary, Sto's technical consultants are able to oversee projects right from the initial planning phase, until the ideal solution is found. The diverse range of tried and tested Sto acoustic systems ensures concepts that are tailored perfectly to every individual requirement.

StoSilent Panel

Basic system panel for seamless acoustic ceilings and walls

StoSilent Top

Acoustic system with ultra-fine surface finish

StoSilent A-Tec

Acoustic system with built-in fire protection

StoSilent Cool

Acoustic system incorporating room cooling and heating

Sto Acoustic Plaster / Sto Acoustic

Spray Plaster

Sound protection coating for direct application

StoSilentlyl acoustic wallpaper

Paste-on sound protection

Music school, Friedrichshafen, Germany



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