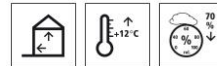


Technical Data Sheet

StoSilent Board 115

Acoustic panel made of expanded glass granulate for suspended ceiling constructions



Characteristics

- Area of application**
- interior
 - for suspended ceiling and wall structures
 - for the StoSilent Distance A2 acoustic system
 - fixing with screws, bonded board joints

- Properties**
- up to 200 m² possible without expansion joint (max. side length: 20 m)
 - reduction in the reverberation time and noise level
 - improved ability to concentrate
 - improvement in speech intelligibility
 - weighted sound absorption coefficient α_w of up to 0.85 depending on the suspension height

- Format**
- board edge: sharp-edged
 - length x width x thickness
 - 1200 x 625 x 25 mm

- Appearance**
- textured surface
 - fine graining with the StoSilent Decor M or StoSilent Decor MF finish

- Information/notes**
- use in brine or saltwater swimming pools only on request
 - not suitable in splash water zones
 - not suitable for radii and areas subject to mechanical stress
 - observe installation instructions

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Diffusion-equivalent air layer thickness	EN ISO 7783	0.12 m	with coating
Reaction to fire (class)	EN 13501-1	A2-s1, d0	with coating
Rated value of thermal conductivity λ	TIAP-655 based on EN 12667	0.08 W/(m*K)	with coating

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Mass per unit area	6.7 kg/m ²	
Bulk density	298 kg/m ³	
Sound absorption coefficient α_w	0.85	With coating; can vary depending on the suspension height and damping

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements The substrate must be firm, dry, clean, and load-bearing.

Application

Application temperature Lowest substrate and application temperature: +12 °C at max. 70 % relative air humidity; installation after adjusting the equilibrium humidity in the room. Rapid shock-type heating or cooling during installation and drying can induce crack formation.

Consumption	Type	Approx. consumption	
		1.00	m ² /m ²

The stated consumption values are only to be used as a guide. If required, precise consumption values plus cuttings should be determined on the project.

Coating build-up

metal sub-construction in accordance with EN 13964 with vernier hangers

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System adhesive:
StoSilent Fix (approx. 0.5 kg/m²)

System filler:
StoSilent Plan (approx. 0.25 kg/m²)

Intermediate coat:
StoSilent Decor M (two spray coatings with 1.2 kg/m² in total)

Finish:
StoSilent Decor MF (two spray coatings with 1.3 kg/m² in total)

or

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finish
StoSilent Decor M(four spray application cycles with a total of 3.2 kg/m²)

Application

The boards should be fixed to the carrier profiles in transverse direction. Align longitudinal joints toward the incidence of light. Install the boards with transverse joints that are offset by at least 400 mm.
Fix the boards with phosphate-treated, quick-assembly screws with a needle point (TN form in accordance with DIN 18182) starting from the middle of the board or a corner in order to avoid compressions. When fixing the screws, press the board firmly onto the sub-construction. Insert the screws approx. 15 mm from the board edge and sink the screw heads to a depth of approx. 1 mm. Ensure a distance of 200 mm between the screws.

The bonding edges must be free from dust. Mix the system adhesive (StoSilent Fix) in accordance with the application guidelines.

After fixing the board, apply the system adhesive to the edges (e.g. with a Japanese spatula or cartridge).

Press the following board onto the fine grid of the sub-construction, then push it against the already installed boards and fix it with screws.

Use an electrical keyhole saw, handsaw or surform to cut, grind or plane the material.

System connections:

to enable pressure equalisation between the ceiling cavity and the used space, ensure rear ventilation either through an open, all-around joint or openings in the ceiling. The proportion of the ceiling opening should account for at least 0.8 % of the ceiling surface area. In most cases, this is achieved by an open all-around joint of 2 cm.

In glancing light the ceilings are not free from visible unevenness.

Cleaning the tools

Remove dust after use.

Notes, recommendations, special information, miscellaneous

Please observe the general Sto application guidelines for Sto acoustic panel systems. They are available from Sto SE & Co. KGaA.

Installation/coating must only be carried out after prior instruction.

If the fine grid (e.g. when retrofitting ceiling installations) is cut through, create additional transition points. Seal the cavities in adjacent walls to prevent low-pressure ceilings.

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Structural expansion joints must be incorporated.

Recommendation: installation on walls outside areas subject to a risk of impact, above a height of 2 m.

Delivery

Colour shade visible side: white (approx. RAL 9003), rear side: grey (approx. RAL 7047)

Packaging

pallet

Storage

Storage conditions Store in dry and frost-free conditions. Product is sensitive to shock; do not subject it to loads or stress.

Certificates/approvals

Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Certificate of conformity
Certificate 43 I 07/2017	StoSilent Distance A2 - reaction to fire A2-s1, d0 Classification of fire behaviour according to EN 13501-1

Identification

Product group Acoustic panel

Safety

Observe the Safety Data Sheet!

Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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