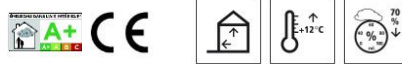


Technical Data Sheet

StoSilent Board 100 S

Acoustic panel made of expanded glass granulate for suspended ceiling and wall structures



Characteristics

- Area of application**
- interior
 - for suspended ceiling and wall structures
 - for the StoSilent Distance S 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
- reduction of noise level
- improved ability to concentrate
- improvement in speech intelligibility
- low weight
- high degree of stiffness
- low moisture-induced and thermal expansion

Format

- board edge: sharp-edged/coated
- length x width x thickness
- 1200 x 625 x 25 mm

Appearance

- smooth surface, fine graining with StoSilent Top Basic or ultra-fine graining with StoSilent Top Finish

Information/notes

- use the product in brine or saltwater swimming pools only on request
- the product is not suitable for splash zones
- not suitable for radii and areas subject to mechanical stress

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	EN 13501-1	A2-s1, d0	with coating
Rated value of thermal conductivity λ	TIAP-655 based on EN 12667	0.09 W/(m*K)	with coating

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Mass per unit area		6.8 kg/m ²	
Bulk density		270 kg/m ³	
Sound absorption coefficient α_w	EN ISO 11654	0.80	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

Substrate in general:
- firm, dry, clean, 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; fine grid bonded with StoSilent Profile Tape

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System adhesive:

- product: StoSilent Fix
- consumption: approx. 0.5 kg/m²

Intermediate coat:

- StoSilent Top Basic (approx. 2.0 - 3.0 kg/m²)

Finish:

- StoSilent Top Finish (approx. 3.0 kg/m²)

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or
- StoSilent Top Basic (approx. 2.5 - 3.0 kg/m²)

or

Finish:
- StoSilent Decor M or StoSilent Decor MF
1) Spray coating approx. 0.7 kg/m²
2) Spray coating approx. 0.9 kg/m²
3) Spray coating approx. 0.5 kg/m² (if required, according to appearance)

Application

In glancing light the ceilings are not free from visible unevenness.
Observe the application guideline for the acoustic system.

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.

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

Structural expansion joints must be incorporated.

Delivery

Colour shade

visible side: white (approx. RAL 9002), rear side: grey (approx. RAL 7039)

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.

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Certificates/approvals

M 10 0960/25 Page 1	StoSilent Distance A2 – StoSilent Board 100 – StoSilent Top Basic <-&-> StoSilent Top Basic tinted white – build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/25 Page 2	StoSilent Distance A2 - StoSilent Board 100 - StoSilent Top Basic & Finish, tinted black - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/25 Page 3	StoSilent Distance A2 - StoSilent Board 100 + Renovation - StoSilent Top Basic & Finish (removed and reapplied) - build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 10 0960/25 Page 4	StoSilent Distance A2 - StoSilent Board 100 + Renovation - StoSilent Top Basic & Finish - + Decor M (Renovation) build-up E-200 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/73 Page 5	StoSilent Distance A2 - StoSilent Board 100, 25 mm - StoSilent Top Basic & Finish - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/73 Page 6	StoSilent Distance A2 - StoSilent Board 100, 25 mm - StoSilent Top Basic & Finish - build-up E-270 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/112 Page 2	StoSilent Distance A2 - StoSilent Board 100, 25 mm + mineral wool - StoSilent Top Basic & Finish - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/112 Page 3	StoSilent Distance A2 - StoSilent Board 100, 25 mm - StoSilent Top Basic & Finish - build-up E-125 Determination of the sound absorption factor in accordance with EN ISO 354

Identification

Product group Acoustic panel

Safety

The product is a manufactured item. The creation of a safety data sheet in accordance with the REACH Regulation (EU) No. 1907/2006, Annex II, is not

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required.

Detailed information can be found at www.sto.de under the category Service & Tools / REACH regulation.

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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