

Technical Data Sheet

StoSilent Board 310

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 F acoustic system
 - For structures with increased requirements on mechanical resistance as well as for bent constructions (radius > 5 m)
 - Fixing with screws, bonded board joints

- Properties**
- Structure without expansion joint up to 200 m² possible and maximum 20 m side length
 - Reduction in the reverberation time
 - Reduction of noise level
 - Improved ability to concentrate
 - Improvement in speech intelligibility
 - Low weight
 - Low moisture-induced and thermal expansion

- Format**
- Board edge: sharp-edged/coated
 - Length x width x thickness
 - 1200 x 800 x 15 mm

- Appearance**
- Textured surface with StoSilent Decor M Finish

- Information/Notes**
- Use the product in brine or saltwater swimming pools only on request
 - The product is not suitable for splash zones
 - The product is not suitable for areas subject to mechanical stress
 - The product is not suitable for radiuses < 5 m

Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Diffusion-equivalent air layer thickness	EN ISO 7783	0.10 m	with coating
Reaction to fire (class)	EN 13501-1	B2-s1, d0	with coating
Rated value of thermal conductivity λ	TIAP-655 based on EN 12667	0.08 W/(m*K)	with coating
Mass per unit area		5.8 kg/m ²	
Bulk density		390 kg/m ³	
Sound absorption coefficient α_W	EN ISO 11654	0.45	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.

Technical Data Sheet

StoSilent Board 310

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

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

StoSilent Board 310

System adhesive:
Product: StoSilent Fix

System filler:
Product: StoSilent Plan
Consumption: approx. 0.25 kg/m²

Intermediate coat:
StoSilent Decor M (White and Tinted)

- Spray coating approx. 0.7 kg/m²
- Spray coating approx. 0.9 kg/m²

Finish:
StoSilent Decor M (White and Tinted)

- Spray coating approx. 1.1 kg/m²
- 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 consult the local sales office for further information and any site assistance required.

Please observe the general Sto application guidelines for Sto acoustic panel systems. They are available from Sto SEA Pte Ltd.

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

Technical Data Sheet

StoSilent Board 310

Delivery

Colour shade Visible side: White (approx. RAL 9010),
Rear side: Grey (approx. RAL 7039)

Packaging	Article number	Name	Packing
	03255-007	StoSilent Board 310	50 pcs/pallet

Storage

Storage conditions Store in cool dry conditions; avoid direct sunlight. Product is sensitive to shock; do not subject it to loads or stress.

Identification

Product group Acoustic panel

Safety Please refer to 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 www.sto-sea.com.

Sto SEA Pte Ltd
159 Sin Ming Road
#06-02 Amtech Building
Singapore 575625
Phone: +65 6453 3080
Fax: +65 6453 3543
info.sg@sto.com
www.sto-sea.com

Sto SEA Sdn Bhd
28, Jalan Rajawali 3
Bandar Puchong Jaya,
47170 Selangor, Malaysia
Phone: +60 3 8080 9066
Fax: +60 3 8080 9255
info.my@sto.com
www.sto-sea.com

Sto SEA Pte Ltd
3656/49-52 Green Tower, 16th Floor
Rama IV Rd, Klongton, Klongtoei,
10110 Bangkok, Thailand
Phone: +66 2 1684 921 Ext. 230
Fax: +66 2 1684 999
info.sg@sto.com
www.sto-sea.com

Sto SE & Co. KGaA
Ehrenbachstrasse 1
79780 Stühlingen,
Germany
Phone: +49 7744 57-0
Fax: +49 7744 57-2178
info.sg@sto.com
www.sto-sea.com

*Product images may differ from the actual product.