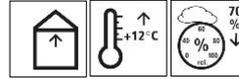


# Technical Data Sheet

## StoSilent Board 105

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 C acoustic system
  - Fixing: bonded

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

- Information/Notes**
- Use in brine or saltwater swimming pools only on request
  - Not suitable for areas subject to mechanical stress
  - Not suitable in splash water zones
  - Observe installation instructions

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Diffusion-equivalent air layer thickness	EN ISO 7783	0.13 m	with coating
Reaction to fire (class)	EN 13501-1	A2-s1, d0	with coating
Rated value of thermal conductivity $\lambda$	TIAP-655 based on EN 12667	0.08 W/(m*K)	with coating
Mass per unit area		6.6 kg/m <sup>2</sup>	
Bulk density		265 kg/m <sup>3</sup>	
Sound absorption coefficient $\alpha_W$		0.95	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 105

Substrate					
<b>Requirements</b>	The substrate must be firm, dry, clean, and load-bearing				
Application					
<b>Application temperature</b>	<p>Lowest substrate and application temperature: +12 °C at max. 70 % relative air humidity; installation after adjusting the equilibrium humidity in the room.</p> <p>Rapid shock-type heating or cooling during installation and drying can induce crack formation.</p>				
<b>Consumption</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Type</th> <th style="text-align: right;">Approx. consumption</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: right;">1.34 no's of panel/m<sup>2</sup></td> </tr> </tbody> </table> <p>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.</p>	Type	Approx. consumption		1.34 no's of panel/m <sup>2</sup>
Type	Approx. consumption				
	1.34 no's of panel/m <sup>2</sup>				
<b>Coating build up</b>	<p>Metal sub-construction at the same level with vernier hangers in accordance with EN 13964</p> <p>StoSilent Board 105</p> <p>System adhesive: Product: StoColl HT Consumption: approx. 120 ml/m<sup>2</sup></p> <p>Intermediate coat: StoSilent Top Basic (approx. 1.5 kg/m<sup>2</sup>)</p> <p>Finish: StoSilent Top Finish (approx. 3.0 kg/m<sup>2</sup>) or StoSilent Top Basic (approx. 2.5 - 3.0 kg/m<sup>2</sup>) or Finish: StoSilent Decor M</p> <ul style="list-style-type: none"> <li>• Spray coating approx. 0.9 kg/m<sup>2</sup></li> <li>• Spray coating approx. 0.7 kg/m<sup>2</sup></li> <li>• Spray coating approx. 0.5 kg/m<sup>2</sup> (if required, according to appearance)</li> </ul>				
<b>Application</b>	In glancing light the ceilings are not free from visible unevenness. Observe the application guideline for the acoustic system.				
<b>Cleaning the tools</b>	Remove dust after use.				
<b>Notes, recommendations, special information, miscellaneous</b>	<p>Please consult the local sales office for further information and any site assistance required.</p> <p>Please observe the general Sto application guidelines for Sto acoustic panel systems. They are available from Sto SEA Pte Ltd.</p> <p>Installation/coating must only be carried out after prior instruction.</p> <p>Recommendation: installation on walls outside areas subject to a risk of impact, above a height of 2 m.</p> <p>Structural expansion joints must be incorporated</p>				

# Technical Data Sheet

## StoSilent Board 105

### Delivery

**Colour shade** Visible side: White (approx. RAL 9002),  
Rear side: Grey (approx. RAL 7047)

Packaging	Article number	Name	Packing
	04779-008	StoSilent Board 105	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](http://www.sto-sea.com).

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\*Product images may differ from the actual product.