

# **StoSilent Board 305**

Acoustic panel made of expanded glass granulate for suspended ceiling constructions











| Technical data      | <ul> <li>observe installation instruction</li> </ul>   | ctions               |                  |               |
|---------------------|--|----------------------|------------------|---------------|
|                     | <ul> <li>not suitable for radii &lt; 10 m and areas exposed to mechanical stress</li> </ul>                              |                      |                  |               |
| Information/notes   | <ul> <li>use in brine or saltwater swimming pools only on request</li> <li>not suitable in splash water zones</li> </ul> |                      |                  |               |
|                     | graining with StoSilent Top F  |                      | ·                |               |
| Appearance          | smooth surface     depending on the finish: fin  | ne graining with Sto | Silent Top Basic | or ultra-fine |
|                     | • 1200 x 800 x 25 mm   |                      |                  |               |
|                     | • 2400 x 1200 x 15 mm  |                      |                  |               |
|                     | • 1200 x 800 x 15 mm   |                      |                  |               |
| Format              | <ul> <li>board edge: sharp-edged/or all-round bevel</li> <li>length x width x thickness</li> </ul>                       |                      |                  |               |
| <b>-</b>            |  |                      |                  |               |
|                     | suspension height  |                      |                  |               |
|                     | weighted sound absorption  |                      | p to 0.65 depend | ling on the   |
|                     | <ul><li>improved ability to concentrate</li><li>improvement in speech intelligibility</li></ul>                          |                      |                  |               |
|                     | reduction in the reverberati      improved ability to consent  |                      | evel             |               |
| Properties          | • up to 200 m² possible without expansion joint (max. side length: 20 m)   |                      |                  |               |
|                     | • fixing with screws, bonded   | board joints         |                  |               |
|                     | <ul> <li>for the StoSilent Distance a</li> </ul>   | •                    |                  |               |
|                     | <ul> <li>for suspended ceiling and wall structures</li> </ul>  |                      |                  |               |
| Area of application | • interior   |                      |                  |               |

thickness

Diffusion-equivalent air layer

EN ISO 7783

0.14 m

with coating



# **StoSilent Board 305**

| Reaction to fire (class)                      | EN 13501-1                    | B-s1, d0     | with coating   |
|---|-------------------------------|--------------|--|
| Rated value of thermal conductivity λ         | TIAP-655 based on<br>EN 12667 | 0.09 W/(m*K) | with coating   |
| Mass per unit area                            |                               | 4.8 kg/m²    |  |
| Bulk density                                  |                               | 475 kg/m³    |  |
| Sound absorption coefficient $\alpha_{\ \ W}$ |                               | 0.65         | With coating;<br>can vary<br>depending on<br>the suspension<br>height and<br>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.

| 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 crac formation. |  |  |  |
|---|--|--|--|
| Approx. consumption   |  |  |  |
| m²/m²   |  |  |  |
| quired, precise<br>ect.   |  |  |  |
| ingers  |  |  |  |
|   |  |  |  |
|   |  |  |  |
|   |  |  |  |
| orox. 1.50 -  |  |  |  |
| ur  |  |  |  |



### StoSilent Board 305

#### **Application**

The boards should be fixed to the carrier profiles in longitudinal direction. Align longitudinal joints toward the incidence of light. Lay the boards with offset transverse joints, offset width min. 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 | 3 |
|--------------------|---|
|--------------------|---|

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.

Structural expansion joints must be incorporated.

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



### StoSilent Board 305

| Delivery               |  |  |  |
|------------------------|--|--|--|
| Colour shade           | visible side: white (approx. RAL 1013), 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<br>Certificate of conformity                            |  |
|                        | Certificate 44 I 07/2017   | StoSilent Distance - reaction to fire B-s1, d0<br>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.

Sto SE & Co. KGaA Ehrenbachstr. 1 79780 Stühlingen / Germany Phone: +49 7744 57-0



# **StoSilent Board 305**

Fax: +49 7744 57-2178 Infoservice.export@sto.com www.sto.com