

## **StoSilent Board 315**

Acoustic panel made of expanded glass granulate for suspended ceiling constructions











Area of application	• interior			
	<ul> <li>for suspended ceiling and wall structures</li> <li>fixing with screws, bonded board joints</li> </ul>			
Properties	• up to 200 m² possible without expansion joint (max. side length: 20 m)			
	<ul> <li>reduction in the reverberation time and noise level</li> </ul>			
	improved ability to concentrate			
	• improvement in speech intelligibility			
	$ullet$ weighted sound absorption coefficient $\alpha$ $_W$ of up to 0.80 depending on the			
	suspension height			
Format	board edge: sharp-edged/or all-round bevel			
	<ul> <li>length x width x thickness</li> </ul>			
	• 1200 x 800 x 15 mm			
	• 2400 x 1200 x 15 mm			
	• 1200 x 800 x 25 mm			
	• special dimensions are possible (special thicknesses and untrimmed, raw panels			
	on request)			
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			
	<ul> <li>not suitable for radii &lt; 10 m and areas exposed to mechanical stress</li> </ul>			
	observe installation instructions			



# **StoSilent Board 315**

Technical data					
	Criterion	Standard / test	Value/ Unit	Notes	
	Diffusion-equivalent air layer thickness	EN ISO 7783	0.10 m	with coating	
	Reaction to fire (class)	EN 13501-1	B-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		4.8 kg/m²		
	Bulk density		343 kg/m³		
	Sound absorption coefficient $\alpha_{\ \ W}$		0.80	With coating; can vary depending on the suspension height and damping	
Substrate Requirements	the natural raw materials in same delivery batch; this do intended use.  The substrate must be firm,	pes not affect the suita	ability of the prod		
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	Туре		Approx. c	onsumption	
			1.00	m²/m²	
	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				
	StoSilent Board 315				
	System adhesive: StoSilent Fix(approx. 0.3 kg/m²)				
	System filler:				



### StoSilent Board 315

StoSilent Plan(approx. 0.2 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

finish

StoSilent Decor M(three spray application cycles with a total of 2.7 kg/m²)

#### **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 screwing on the panel, press it 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, Please observe the general Sto application guidelines for Sto acoustic panel



### StoSilent Board 315

special information, miscellaneous

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.

Delivery Colour shade	visible side: white (approx.	RAL 9010), 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	
	M 35 120/97 Page 1	StoSilent Distance - StoSilent Board 315 (filled reflectively) - StoSilent Decor M - build-up E-260 Determination of the sound absorption factor in accordance with EN ISO 354	
	Certificate 44 I 07/2017	StoSilent Distance - reaction to fire B-s1, d0 Classification of fire behaviour according to EN 13501-1	

Identification	
Product group	Acoustic panel
Safety	Observe the Safety Data Sheet!



### **StoSilent Board 315**

#### 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

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