

StoSilent Board 300

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











Area of application	• interior
	 for suspended ceiling and wall structures
	fixing with screws and adhesive
Properties	limited combustibility
	 reaction to fire (class) in accordance with EN 13501-1: B-s1, d0 (panel with coating)
	• up to 200 m² possible without expansion joint (max. side length: 20 m)
	reduction in the reverberation time and noise level
	improved ability to concentrate
	• improvement in speech intelligibility
	$ullet$ weighted sound absorption coefficient α_W of up to 0.60 depending on the
	suspension height
	 low weight and high stiffness
	 low moisture-induced and thermal expansion
Format	board edge: sharp-edged / coated
	 length x width x thickness
	• 1200 x 800 x 15 mm
	• 2400 x 1200 x 15 mm
	• 1200 x 800 x 25 mm
Appearance	coating: StoSilent Top Basic and StoSilent Top Finish
Information/notes	use in brine or saltwater swimming pools only on request
	 not suitable in splash water zones
	 not suitable for radii < 10 m and areas exposed to mechanical stress
	 observe installation instructions



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Technical data				
	Criterion	Standard / test	Value/ Unit	Notes
	Diffusion-equivalent air layer thickness	EN ISO 7783-2	0.16 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	0.09 W/(m*K)	With coating
	Mass per unit area		4.9 kg/m²	
	Bulk density		494 kg/m³	
	Sound absorption coefficient α w		0.60	With coating; can vary depending on the suspension height and damping
	The characteristic values stathe natural raw materials in same delivery batch; this do intended use.	our products, the stat	ted values can v	ary slightly in the
Substrate				
Requirements	The substrate must be firm, dry, clean, and load-bearing.			
Application				
Application temperature	Lowest application and substrate 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.		e room.	
Consumption	Туре		Approx. c	onsumption
	-		1.00	m²/m²
	The stated consumption values on consumption values plus cut			
Coating build-up	metal sub-construction in ac grid bonded with StoSilent P		964 with vernier	hangers; fine
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	System adhesive: StoSilent Fix(approx. 0.4 kg/	/m²)		
	Intermediate coat:			



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StoSilent Top Basic(approx. 1.5 - 2.5 kg/m²)

finish

StoSilent Top Finish(approx. 3.0 kg/m²)

Application

The boards should be fixed in longitudinal direction to the carrier profiles to which the StoSilent Profile Tape has been applied. Align longitudinal joints toward the incidence of light. Install the boards with transverse joints that are offset by at least 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.

At the factory, a sealant is applied to the board edges to make them flow-proof. Dust off, paint, or waterproof all edges cut subsequently or on site using the system paint or system adhesive in order for the finished surface to appear homogeneous (closed pores, no visible expanded glass).

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.

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.

If the fine grid (e.g. when retrofitting ceiling installations) is cut through, create



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additional transition points. Seal the cavities in adjacent walls to prevent low-pressure ceilings.

Structural expansion joints must be incorporated.

Delivery			
Colour shade	visible side: white (approx. RAL 1013), 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.		
Certificates/approvals			
	Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Certificate of conformity	
	M 35 120/108 Page 1	StoSilent Distance - StoSilent Board 300 - StoSilent Top Basic & Finish - build-up E-45 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/108 Page 2	StoSilent Distance - StoSilent Board 300 + mineral wool - StoSilent Top Basic & Finish - build-up E-45 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/108 Page 3	StoSilent Distance - StoSilent Board 300 - StoSilent Top Basic & Finish - build-up E-115 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/108 Page 4	StoSilent Distance - StoSilent Board 300 - StoSilent Top Basic & Finish - build-up E-260 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/109 Page 1	StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic & Finish - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/109 Page 2	StoSilent Distance - StoSilent Board 300, 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 35 120/109 Page 3	StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic & Finish - build-up E-125 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/109 Page 4	StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic & Finish - build-up E-270 Determination of the sound absorption factor in accordance with EN ISO 354	
	M 35 120/110 Page 1	StoSilent Distance - StoSilent Board 300, 25 mm + mineral	



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	wool - StoSilent Top Basic & Sto-Terrazzo Effect - build-up E-55
	Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/110 Page 2	StoSilent Distance - StoSilent Board 300, 25 mm + mineral wool - StoSilent Top Basic & silicon carbide F14 - build-up E-55 Determination of the sound absorption factor in accordance
M 35 120/110 Page 3	with EN ISO 354 StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic, tinted (blue) - build-up E-125 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/117 Page 1	StoSilent Distance - StoSilent Board 300, 25 mm + mineral wool - StoSilent Top Basic, white - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/117 Page 2	StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic, white - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/117 Page 3	StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic, white - build-up E-125 Determination of the sound absorption factor in accordance with EN ISO 354
M 35 120/117 Page 4	StoSilent Distance - StoSilent Board 300, 25 mm - StoSilent Top Basic, white - build-up E-270 Determination of the sound absorption factor in accordance with EN ISO 354

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



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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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