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Technical Data Sheet **StoSilent Board 310**

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





Area of application	• interior		
	 for suspended ceiling and wall structures 		
	 for the StoSilent Distance acoustic system 		
	 fixing with screws and adhesive 		
Properties	• up to 200 m ² 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 		
	• weighted sound absorption coefficient α_W of up to 0.55 depending on the suspension height		
	 low weight and high stiffness 		
	 low moisture-induced and thermal expansion 		
Format	length x width x thickness		
	• 1200 x 800 x 15 mm		
	• 2400 x 1200 x 15 mm		
	• 1200 x 800 x 25 mm		
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 		
	 not suitable for radii < 10 m and areas exposed to mechanical stress 		
	 observe installation instructions 		
Technical data			

Criterion	Standard / test specification	Value/ Unit	Notes
Diffusion-equivalent air layer thickness	EN ISO 7783	0.11 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		4.9 kg/m²	
	Bulk density		376 kg/m³	
	Sound absorption coefficient w		0.55	With coating; can vary depending on the suspension height and damping
Substrate	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.			
Requirements	The substrate must be firm	n, dry, clean, and load-	bearing.	
Application				
Application Application temperature	Lowest substrate and app humidity; installation after Rapid shock-type heating formation.	adjusting the equilibriu	m humidity in the	e room.
	humidity; installation after Rapid shock-type heating	adjusting the equilibriu	m humidity in the lation and drying	e room.
Application temperature	humidity; installation after Rapid shock-type heating formation.	adjusting the equilibriu	m humidity in the lation and drying	e room. I can induce crac
Application temperature	humidity; installation after Rapid shock-type heating formation.	adjusting the equilibriu or cooling during instal	m humidity in the lation and drying Approx. co 1.00 ed as a guide. If	e room. can induce crac onsumption m²/m² required, precise
Application temperature	humidity; installation after Rapid shock-type heating formation. Type The stated consumption v	adjusting the equilibriu or cooling during instal alues are only to be us cuttings should be dete accordance with EN 13	m humidity in the lation and drying Approx. co 1.00 ed as a guide. If rmined on the pr	e room. can induce crac onsumption m²/m² required, precise oject.
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Application temperature Consumption	humidity; installation after Rapid shock-type heating formation. Type The stated consumption v consumption values plus of metal sub-construction in grid bonded with StoSilent	adjusting the equilibriu or cooling during instal alues are only to be us cuttings should be dete accordance with EN 13 Profile Tape	m humidity in the lation and drying Approx. co 1.00 ed as a guide. If rmined on the pr	e room. can induce crac onsumption m²/m² required, precise oject.
Application temperature Consumption	humidity; installation after Rapid shock-type heating formation. Type The stated consumption v consumption values plus of metal sub-construction in grid bonded with StoSilent StoSilent Board 310 System adhesive:	adjusting the equilibriu or cooling during instal alues are only to be us cuttings should be dete accordance with EN 13 Profile Tape	m humidity in the lation and drying Approx. co 1.00 ed as a guide. If rmined on the pr	e room. can induce crac onsumption m²/m² required, precise oject.
Application temperature Consumption	humidity; installation after Rapid shock-type heating formation. Type The stated consumption v consumption values plus of metal sub-construction in grid bonded with StoSilent StoSilent Board 310 System adhesive: StoSilent Fix(approx. 0.3 k System filler:	adjusting the equilibriu or cooling during instal alues are only to be us cuttings should be dete accordance with EN 13 Profile Tape	m humidity in the lation and drying Approx. cr 1.00 ed as a guide. If rmined on the pr 964 with vernier	e room. can induce crac onsumption m²/m² required, precise oject.



	StoSilent Decor MF (two spray coatings with 1.3 kg/m ² 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 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.
	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



special information,	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. Recommendation: installation on walls outside areas subject to a risk of impact, above a height of 2 m.			
miscellaneous				
	Structural expansion joints must be incorporated.			
Delivery				
Colour shade	visible side: white (approx. RAL 9010), 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 subjuit to loads or stress.			
Certificates/approvals				
	Declaration of conformity No. 2014-04	Acoustic products formulation identity/name change Certificate of conformity		
	M 35 120/49 Page 1	StoSilent Distance - StoSilent Board 310 - StoSilent Decor M - build-up E-45 Determination of the sound absorption factor in accordance with EN ISO 354		
	M 35 120/49 Page 2	StoSilent Distance - StoSilent Board 310 - StoSilent Decor M - build-up E-260 Determination of the sound absorption factor in accordance with EN ISO 354		
	M 35 120/57 Page 1	StoSilent Distance - StoSilent Board 310, 25 mm - StoSilent Decor M - build-up E-270 Determination of the sound absorption factor in accordance with EN ISO 354		
	M 35 120/114 Page 1	StoSilent Distance - StoSilent Board 310, 25 mm + mineral wool - StoSilent Decor M - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354		
	M 35 120/114 Page 2	StoSilent Distance - StoSilent Board 310, 25 mm - StoSilent Decor M - build-up E-55 Determination of the sound absorption factor in accordance with EN ISO 354		
	M 35 120/114 Page 3	StoSilent Distance - StoSilent Board 310, 25 mm - StoSilent Decor M - build-up E-125 Determination of the sound absorption factor in accordance with EN ISO 354		



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	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	a Sheet!
Special notes		
	intended use, or its suita	echnical Data Sheet serves to ensure the product's ability for use, and is based on our findings and experience. responsible for establishing the product's suitability and
	permissible only after pr	ally mentioned in this Technical Data Sheet are ior consultation. Where no approval is given, such ser's own risk. This applies in particular when the product <i>v</i> ith other products.
		Data Sheet is published, all previous Technical Data lid. The latest version is available on the Internet.
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