# sto

# Technical Data Sheet Sto-Insulation Board PIR BLF-S

Insulation board made of polyurethane block foam in accordance with EN 13165

Characteristics	
Area of application	<ul> <li>exterior</li> <li>as insulation board in external wall insulation systems</li> <li>bonded or bonded and anchor-fixed</li> <li>in StoTherm PIR</li> <li>cannot be used in the ground</li> </ul>
Properties	<ul> <li>declared thermal conductivity λ<sub>D</sub>: 0.023 - 0.025 W/(m*K)</li> <li>fire classification E in accordance with EN 13501-1</li> </ul>
Format	<ul> <li>100 x 50 cm</li> <li>edges: straight</li> <li>for board thicknesses, see product guide</li> </ul>
Information/notes	<ul> <li>type of application WAP (rendered external insulation of walls) in accordance with DIN 4108-10</li> <li>normal combustibility in accordance with DIN 4102</li> </ul>

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#### **Technical data**

Criterion	Standard / test specification	Value/ Unit	Notes
Water vapour diffusion- equivalent air layer thickness µ	EN 12086	50 - 110	
Water absorption	EN 1609	< 0.3 kg/m²	
Rated value of thermal conductivity $\lambda$		0.026 W/(m*K)	20 ≤ d < 80 mm
Rated value of thermal conductivity $\lambda$		0.025 W/(m*K)	80 ≤ d < 120 mm
Rated value of thermal conductivity $\lambda$		0.024 W/(m*K)	120 ≤ d < 300 mm
Tensile strength perpendicular to faces	EN 1607	≥ 100 kPa	
Declared thermal conductivity $\lambda_D$		0.025 W/(m*K)	20 ≤ d < 80 mm
Declared thermal conductivity $\lambda_D$		0.024 W/(m*K)	80 ≤ d < 120 mm



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	Declared thermal conductivity $\lambda_{\text{D}}$	0.023 W/(m*K)	120 ≤ d < 300 mm	
	The characteristic values stated are average values or approximate values. Due 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.			
Substrate				
Requirements	The substrate must be level, firm, dry, free fr adhesive.	om grease and dust a	and suitable for	
	A qualified professional needs to examine the long-term compatibility of any existing coatings with the adhesive used. It is possible to bridge unevenness of up to 1 cm/m on bonded EWIS and up to 2 cm/m on bonded and anchor-fixed EWIS. Level any larger irregularities mechanically or by using a render in accordance with EN 998-1.			
Preparations	In accordance with the application regulation	is regarding adhesive	compounds.	
Application				
Consumption	Туре	Approx. cc	onsumption	
		1.00	m²/m²	
	Material consumption depends on the application among other factors. The stated consumption guide. If required, determine precise consumption specific project.	ation, substrate, and on values are only to b ption values on the b	consistency, e used as a asis of the	
Application	<ul> <li>Applying adhesive to the insulation board ma Spot/edge bonding:</li> <li>Apply adhesive all around the edges in a stri of adhesive the size of small plates to the ce contact surface must be at least 40 %.</li> <li>Full-surface bonding: Only possible on smoo using a notched trowel.</li> <li>Applying adhesive to the wall by machine: Beaded application: Adhesive contact surface bead distance 10 cm. Comb the bonding mo notched trowel immediately before installing</li> <li>Fix the insulation boards to the pre-treated s aligned flush, even, and tight butted. Always the front edge and long sides of the insulatio Turbofix). Create a staggered offset in board building (offset joints) and form corners so the</li> </ul>	anually/by machine: p approx. 5 cm wide. ntre of the board. The oth substrates; apply th e of at least 60 %, ma rtar over the entire su the insulation boards. ubstrate in a bond fro ensure that no bondin n board (does not app thickness on all corn ney are right-angled (p	Apply three dabs adhesive he adhesive face using a m bottom to top, ng mortar is on oly to Sto- ers of the berpendicular)	



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and flush.

	For substrates that are suitable for bonding, but have an insufficient load-bearing capacity (tensile strength < 0.08 N/mm <sup>2</sup> ): after the adhesive has dried enough, additionally fix the insulation boards with approved collared dowels as defined in the structural engineering verification. For further details, see the corresponding system approvals.	
	To achieve a level and smooth surface and to treat surfaces damaged by UV radiation/sunlight, sand surfaces with a sanding board after the adhesive has dried enough.	
	Reinforcement: Observe the current Technical Data Sheet of StoLevell Novo. Ensure a minimum layer thickness of 10,0 mm.	
	Facade openings: Cut insulation boards to size (e.g. cut notches as necessary) and plan their overall positions, because the insulation board joints must not protrude beyond the corners of the openings in the facade.	
	Board joints: Fill any gaps or open butt joints between the insulation boards with strips of insulation material, if necessary with Sto-Gun Foam SE (for joint widths of up to 5 mm).	
	Structural expansion joints: Existing expansion joints in the building must also be carried over into the EWI system.	
Notes, recommendations, special information, miscellaneous	Protect insulation boards mounted on the facade from humidity and coat them as soon as possible with a reinforcing compound/base coat. Damaged insulation boards must not be installed.	
Delivery		
Packaging	bundle	
Storage		
Storage conditions	Store in dry conditions. Protect from direct sunlight.	



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Certificates/approvais	ETA-17/0041	StoTherm PIR European Technical Approval	
Identification			
Product group	Insulation board		
Safety	Observe the 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 spe permissible only after applications are at the is used in combination	cifically mentioned in this Technical Data Sheet are er prior consultation. Where no approval is given, such ne user's own risk. This applies in particular when the product on with other products.	
	When a new Techni Sheets are no longe	cal Data Sheet is published, all previous Technical Data r valid. The latest version is available on the Internet.	
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