TECHNICAL CARD
termPIR® ETX INSULATION BOARDS

termPIR® insulation boards

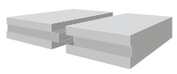
termPIR® ETX	Product details:
Description of board:	The termPIR® ETX insulation boards comprise of a PIR rigid foam thermal insulation core. Covered with a gas-permeable cladding (ETX), dedicated to external walls in the ETICS system with a thickened structure made of glass veil. The above boards should be fixed to the wall with the printed side, otherwise there may be problems with the durability of the façade.

Certificates / Approvals:	
CE mark	■
ISO 9001, ISO 14001 System certificates	■
Compatibility with EN 13165+A2 and EN 13172	■
Environmental Declaration EPD (type III)	■
Environmental Certificate (type III)	■
CO2 footprint	■
(Leed & Breeam) Green Card	■
Atest PZH	
VOC	
Keymark certificate and quality label	■
Tests of thermal properties ITB	■
Fire classifications	■
Board in the product base SVT	
Board in the product base EPDM	■
SundaHUS	
BVB	
Swan- The Nordic Ecolabel	
Certificate for the system ETICS	■
Admitted to trading in the EU	■

Green architecture

FIT (flat milling)

LAP (stepwise milling)*



TAG (tongue and groove)*

* dimensions of boards with joint types are 2 to 4 % smaller
FIT (flat milling for 30 - 40 mm)
TAG tongue and groove from 80-250 mm)

Information about product safety:	Information about suabstances contained in the product referred to in Art. 31 and 33 of the Regulation (CE) No.1907/2006 (REACH): Not applicable.
Instruction:	Boards can be installed in one or multiple layers in an interlocking manner. Boards should fit tightly to each other. The substructure needs to be stable. Install mechanically with fasteners, glue or suspend - depending on the kind of substructure and type of waterproofing. Prevent from pulling the fasteners through the board. Secure against the impact of weather conditions. The boards are not load-bearing elements Additional information is available in the Technical Catalogue at the website www.termpir.eu

termPIR® Insulation boards

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termPIR® ETX	Product details:
Kind of core:	Rigid polyisocyanurate foam (PIR)
Apparent PIR core density:	ρ = 30 kg/m³
Declared heat transfer coefficient for lining:	for (20 ≤ d_N < 80 mm): λ_D = 0,027 (W/m·K)
	for (80 ≤ d_N < 120 mm) : λ_D= 0,026 (W/m·K)
	for (120 ≤ d_N ≤ 250 mm) : λ_D= 0,025 (W/m·K)
Standard board dimensions [mm]:	600 x 1200 (minus the depth of the joint)
Available boards dimensions [mm]:	-

Coefficient: U [W/m²·K], wg
U = 1 / (Re + R_D + Ri)

For a given nominal thickness [mm]: Thermal resistance: R_D [m²·K/W]	for wall	**20**	1,10	**30**	0,78	**40**	0,61	**50**	0,49
	or roof	0,70	1,14	1,10	0,80	1,45	0,62	1,85	0,50
	for floor		1,10		0,78		0,61		0,49
		60	0,42	**70**	0,36	**80**	0,31	**90**	0,28
		2,20	0,42	2,55	0,37	3,05	0,31	3,45	0,28
			0,42		0,36		0,31		0,28
		100	0,25	**110**	0,23	**120**	0,20	**130**	0,19
		3,80	0,25	4,20	0,23	4,80	0,20	5,20	0,19
		140	0,17	**150**	0,16	**160**	0,15	**170**	0,14
		5,60	0,17	6,00	0,16	6,40	0,15	6,80	0,14
			0,17		0,16		0,15		0,14
		180	0,14	**190**	0,13	**200**	0,12	**210**	0,12
		7,20	0,14	7,60	0,13	8,00	0,12	8,40	0,12
			0,14		0,13		0,12		0,12
		220	0,11	**230**	0,11	**240**	0,10	**250**	0,10
		8,80	0,11	9,20	0,11	9,60	0,10	10,00	0,10
			0,11		0,11		0,10		0,10

Compressive strenght at 10% of deformation:	σ ≥120 kPa	20 ≤ d_N < 250 mm
Tensile strength perpendicular to faces:	for (20 ≤ d_N < 50 mm): NPD	
	for (50 ≤ d_N≤ 250 mm): ≥ 80 kPa, TR80	
Water vapour transmission:	μ = (90 ÷ 170)	
Dimensional stability:	for (20 ≤ d_N< 50 mm): DS(70,-)1	
	for (50 ≤ d_N ≤ 250 mm): DS(-20,-)2 / DS(70,90)3	
Reaction to fire (of the product as placed on the market):	20-49: F class, 50-250: E class	

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insulation boards

Parameters of the termPIR® ETX board in the ETICS facade system (for a board with a minimum thickness of 50 mm):	
Reaction to fire (end of use)	B-s1,d0 Class
Fire spread:	NRO, „non-fire spreading product"
Certifications:	The product has had issued for it a Certificate of Conformity, based on a EuropeanTechnical Approval, according to the ETAG 004 Guideline.

Buildings:	Intended use of the board:	
residential, high density housing	on rafter insulation system on pitched roofs	
residential	under rafter insulation system on pitched roof	
residential, retail and industrial	build Up Roofs [BUR] - Flat roofs, mechanically fastened	
residential, retail and industrial	build Up Roofs [BUR] - Flat roofs,adhesive or glued systems	
residential, retail and industrial	triple layered external walls - cavity walls	
residential, retail and industrial	double layered external walls - ETICS system	■
residential, retail and industrial	basement and foundation walls	■
residential, retail and industrial	partition walls	
residential, retail and industrial	slabs between floors	
residential, retail and industrial	ground floor slabs	
livestock, industrial	suspended ceilings - high pressure washable	
existing, historic, stair-cores	internal wall insulation	
prefabricated concrete walls	highly resistant to corrossion caused by concrete	

■ the board recommended for use ■ boards that can be used

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