TECHNICAL CARD ▷ termPIR[®] ETX INSULATION BOARDS



Description of board	The termPIR® ETX insulation boards comprise of a PIR rigid foam thermal insu core. The boards are protected with gas-permeable lining from glass reticular (EXT).				
 D Tests of thermal properties: ITB D Fire classifications:: ICiMB D Keymark certificate and quality label D Certificate for the ETICS system D ISO 9001, ISO 14001 system certificates D Compatibility with EN 13165+A2 and EN 13172 D Admitted to trading in the EU D Determination for parameters with DoP: 	Green architecture				
021-IMBICS-001 16, 1488 1487					
Visualisation of boards with available joint types					
Joint types	FIT (flat milling) LAP (stepwise milling) TAG (tongue and groups)	oove)			
	Application of termPIR [®] ETX boards in energy efficient buildings				
Buildings:	Intended use of the board:				
> residential, high density housing	D on rafter insulation system on pitched roofs	~			
> residential	 D under rafter insulation system on pitched roofs 				
> residential, retail and industrial	D build Up Roofs [BUR] - Flat & Green roofs, mechanically fastened				
> residential, retail and industrial	 D build Up Roofs [BUR] - Flat & Green roofs, adhesive or glued systems 				
> residential, retail and industrial	 D triple layered external walls - cavity walls 				
> residential, retail and industrial	double layered external walls - ETICS system				
> residential, retail and industrial	D basement and foundation walls	~			
> residential. retail and industrial	 partition walls 				
> residential, retail and industrial	D slabs between floors				
> residential, retail and industrial	D ground floor slabs				
> livestock, industrial	 Suspended ceilings - high pressure washable 				
> existing, historic, stair-cores	Internal wall insulation				
> prefabricated concrete walls	 D highly resistant to corrossion caused by concrete 				
Key	- the board recommended for use - boards that can be	used			
Ney		useu			
nformation about product safety	Information about suabstances contained in the product referred to in Art. 31 a 33 of the Regulation (CE) No.1907/2006 (REACH): Not applicable.	nd			
Instrukcje	Lay boards in a single layer or multiple layers, in a staggered pattern. Ensure the boards adhere tightly to each other. Ensure substrate stability. Insulation boards or installed mechanically using screws, can be suspended or bonded - depending or type of surface and type of waterproofing membrane. Ensure that the screws d come clear through the boards. Protect your insulated board system agains elements. termPIR [®] boards are not structural components. Where insulation board to be installed as part of an ETICS facade system, do not install them until after month from the date of manufacture shown on the label. For further inform consult the Technical Catalogue available on www.gor-stal.pl., termpir.eu as well a ETICS Guideline - termPIR [®] system.	can be on the do not st the ods are er one nation			
DoP nr termPIRETX/13	Update 01.10.2018 r .	_			

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Performance		Values	/ Classes	;								
Length / Width		2,4 m / 1,2 m; 1,2 m / 1,2 m; 0,6 m/ 1,2 m; (minus the depth of the joint) Other lengths also available on request										
Nominal thickness		d _א = (20 - 250) mm										
Declared heat transfer coefficient for lining, $\lambda_{\scriptscriptstyle D}$		for $(20 \le d_N < 80 \text{ mm})$: for $(80 \le d_N = 0.025 \text{ [W/m-K]})$ 0,025 [W/m-K] 0,025 [W/m-K]										
	Coefficient. U [W/m ² ·K], accod. to U = 1 / (Re + R_p + Ri)											
For a given nominal thickness [mm]: Thermal resistance: R _p [m ^{2.} K/W]	for wall for roof for floor	20 0,75	1,09 1,12 1,09	30 1,15	0,76 0,78 0,76	40 1,55	0,58 0,59 0,58	50 1,90	0,48 0,49 0,48	60 2,30	0,40 0,41 0,40	
For a given nominal thickness [mm]: Thermal resistance: R _o [m ^{2.} K/W]	for wall for roof for floor	70 2,70	0,35 0,35 0,35	80 3,20	0,30 0,30 0,30	90 3,60	0,27 0,27 0,27	100 4,00	0,24 0,24 0,24	110 4,40	0,22 0,22 0,22	
For a given nominal thickness [mm]: Thermal resistance: R _o [m ² ·K/W]	for wall for roof for floor	120 5,05	0,19 0,19 0,19	130 5,45	0,18 0,18 0,18	140 5,85	0,17 0,17 0,17	150 6,30	0,15 0,16 0,15	160 6,70	0,15 0,15 0,15	
For a given nominal thickness [mm]: Thermal resistance: R _o [m ² ·K/W]	for wall for roof for floor	170 7,15	0,14 0,14 0,14	180 7,55	0,13 0,13 0,13	190 8,00	0,12 0,12 0,12	200 8,40	0,12 0,12 0,12	210 8,80	0,11 0,11 0,11	
For a given nominal thickness [mm]: Thermal resistance: R _o [m ² ·K/W]	for wall for roof for floor	220 9,25	0,11 0,11 0,11	230 9,65	0,10 0,10 0,10	240 10,10	0,10 0,10 0,10	250 10,50	0,09 0,09 0,09			
Compressive strenght at 10% of deformation, $\sigma_{\mbox{\tiny 10}}$		for (20 ≤ d _N < 30 mm): ≥ 120 kPa , CS(10/Y)120					for (30 ≤ d _N ≤ 250 mm): ≥ 150 kPa , CS(10/Y)150					
Tensile strength perpendicular to faces		for $(20 \le d_N < 50 \text{ mm})$: NPD					for (50 \leq d _N \leq 250 mm): \geq 80 kPa, TR80					
Water vapour transmission		μ = (90 ÷ 170)										
Dimensional stability		for (20	for (20 ≤ d _N < 50 mm): DS(70,-)1					for (50 ≤ d _N ≤ 250 mm): DS(-20,-)2 / DS(70,90)3				
Apparent PIR core density		30 kg/m³										
Reaction to fire (of the product as placed of	on the market)	E Class	5									

Mechanical and physical properties of termPIR[®] ETX insulation panels in the ETICS facade system (for panels with 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 European Technical Approval, according to the ETAG 004 Guideline.