TECHNICAL CARD

termPIR® ETX INSULATION BOARDS



Description of board:

The **termPIR® ETX** insulation boards comprise of a PIR rigid foam thermal insulation core. The boards are protected with gas-permeable lining from glass reticular fibre (EXT).

- 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:







021-IMBIGS-001

16, 1488 1454

Visualisation of boards with available joint types:







Green

architecture

Joint types:

FIT (flat milling)

LAP (stepwise milling)

TAG (tongue and groove)

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.

Lay boards in a single layer or multiple layers, in a staggered pattern. Ensure that the boards adhere tightly to each other. Ensure substrate stability. Insulation boards can be installed mechanically using screws, can be suspended or bonded - depending on the type of surface and type of waterproofing membrane. Ensure that the screws do not come clear through the boards. Protect your insulated board system against the elements. termPIR® boards are not structural components. Where insulation boards are to be installed as part of an ETICS facade system, do not install them until after one month from the date of manufacture shown on the label. For further information consult the Technical Catalogue available on www.gor-stal.pl., termpir.eu as well as the ETICS Guideline - termPIR® system.

Instruction:

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

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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 _N = (20 - 250) mm										
Declared heat transfer coefficient for lining, $\lambda_{\text{\tiny D}} \colon$					(80 ≤ d _N < 120 mm) : 26 [W/m·K]			for $(120 \le d_N \le 250 \text{ mm})$: 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 _D [m²-K/W]	for wall for roof for floor	20 0,70	1,10 1,14 1,10	30 1,10	0,78 0,80 0,78	40 1,45	0,61 0,62 0,61	50 1,85	0,49 0,50 0,49	60 2,20	0,42 0,42 0,42	
For a given nominal thickness [mm]: Thermal resistance: R _D [m²-K/W]	for wall for roof for floor	70 2,55	0,36 0,37 0,36	80 3,05	0,31 0,31 0,31	90 3,45	0,28 0,28 0,28	100 3,80	0,25 0,25 0,25	110 4,20	0,23 0,23 0,23	
For a given nominal thickness [mm]: Thermal resistance: R _D [m²-K/W]	for wall for roof for floor	120 4,80	0,20 0,20 0,20	130 5,20	0,19 0,19 0,19	140 5,60	0,17 0,17 0,17	150 6,00	0,16 0,16 0,16	160 6,40	0,15 0,15 0,15	
For a given nominal thickness [mm]: Thermal resistance: R _D [m²·K/W]	for wall for roof for floor	170 6,80	0,14 0,14 0,14	180 7,20	0,14 0,14 0,14	190 7,60	0,13 0,13 0,13	200 8,00	0,12 0,12 0,12	210 8,40	0,12 0,12 0,12	
For a given nominal thickness [mm]: Thermal resistance: R _D [m²-K/W]	for wall for roof for floor	220 8,80	0,11 0,11 0,11	230 9,20	0,11 0,11 0,11	240 9,60	0,10 0,10 0,10	250 10,00	0,10 0,10 0,10		-	
Compressive strenght at 10% of deformation, σ_{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 ≤ 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 $(50 \le d_N \le 250 \text{ mm})$: DS(-20,-)2 / DS(70,90)3					
Apparent PIR core density:		30 kg/m³										
Reaction to fire (of the product as placed on the market):		20-49: F class, 50-250: E class										

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.