

TECHNICAL CARD

termPIR® ETX R-eco INSULATION BOARDS

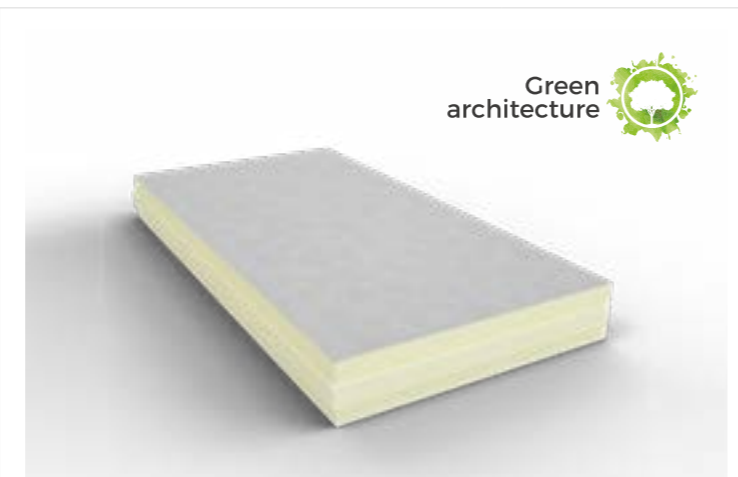


termPIR® ETX R-eco Product details:

Description of board:	The termPIR® ETX insulation boards comprise of a PIR rigid foam thermal insulation core based on recycled materials. 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.
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Certificates / Approvals:

CE mark	■
ISO 9001, ISO 14001 System certificates	■
Environmental Certificate and Declaration type II (regarding recycle content > 10%)	■
Environmental Certificate and Declaration type II (for hazardous substances)	■



* 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 substances contained in the product referred to in Art. 31 and 33 of the Regulation (CE) No.1907/2006 (REACH): Not applicable.
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Instruction:	<p>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.</p> <p>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</p> <p>Additional information is available in the Technical Catalogue at the website www.termpir.eu</p>
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termPIR® ETX R-eco Product details:

Kind of core:	Rigid polyisocyanurate foam (PIR)
Apparent PIR core density:	$\rho = 30 \text{ kg/m}^3$
Declared heat transfer coefficient for lining:	for $(20 \leq d_N < 80 \text{ mm})$: $\lambda_D = 0,027 \text{ (W/m-K)}$
	for $(80 \leq d_N < 120 \text{ mm})$: $\lambda_D = 0,026 \text{ (W/m-K)}$
	for $(120 \leq d_N \leq 250 \text{ mm})$: $\lambda_D = 0,025 \text{ (W/m-K)}$
Standard board dimensions [mm]:	600 x 1200 (minus the depth of the joint)
Available boards dimensions [mm]:	-

For a given nominal thickness [mm]: Thermal resistance: R_D [m ² -K/W]	Coefficient: U [W/m ² -K], wg $U = 1 / (R_e + R_D + R_i)$								
	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	
		0,25		0,23		0,20		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 strength at 10% of deformation:	$\sigma \geq 120 \text{ kPa}$	CS(10/Y)120
Tensile strength perpendicular to faces:	for $(20 \leq d_N < 50 \text{ mm})$: NPD	
	for $(50 \leq d_N \leq 250 \text{ mm})$: $\geq 80 \text{ kPa}$, TR80	
Dimensional stability:	for $(20 \leq d_N < 50 \text{ mm})$: NPD	
	for $(50 \leq d_N \leq 250 \text{ mm})$: 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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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 corrosion caused by concrete	

■ the board recommended for use