






TECHNICAL CARD

termPIR® AL R-eco INSULATION BOARDS



termPIR® AL R-eco		Product details:		
Description of board:		The termPIR® AL insulation boards comprise of a PIR rigid foam thermal insulation core based on recycled materials. The boards are protected on both sides with a gas tight lining layer composed of aluminium (AL), paper and polyethylene.		
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)	■	  		
		FIT (flat milling)	LAP (stepwise milling)*	TAG (tongue and groove)*
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.		
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>		

* dimensions of boards with joint types are 2 to 4 % smaller

TECHNICAL CARD

termPIR® AL R-eco INSULATION BOARDS



termPIR® AL 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 $(20 \leq d_N \leq 250 \text{ mm})$: $\lambda_D = 0,022 \text{ (W/m}\cdot\text{K)}$							
Standard board dimensions [mm]:		600 x 1200 / 1200 x 2400 (minus the depth of the joint)							
Available boards dimensions [mm]:		1000 x 1200 / 1200 x 1200 / 1200 x 1800 / 1200 x 3000 (minus the depth of the joint)							
		Coefficient: U [W/m ² ·K], wg $U = 1 / (R_e + R_D + R_i)$							
For a given nominal thickness [mm]: Thermal resistance: R_D [m ² ·K/W]	for wall	20	0,93	30	0,66	40	0,50	50	0,40
	or roof	0,90	0,96	1,35	0,67	1,85	0,50	2,30	0,41
	for floor		0,93		0,66		0,50		0,40
		60	0,34	70	0,29	80	0,26	90	0,23
		2,75	0,35	3,25	0,29	3,70	0,26	4,15	0,23
			0,34		0,29		0,26		0,23
		100	0,21	110	0,19	120	0,17	130	0,16
		4,65	0,21	5,10	0,19	5,55	0,18	6,05	0,16
			0,21		0,19		0,17		0,16
		140	0,15	150	0,14	160	0,13	170	0,12
		6,50	0,15	6,95	0,14	7,45	0,13	7,90	0,12
			0,15		0,14		0,13		0,12
		180	0,12	190	0,11	200	0,11	210	0,10
		8,35	0,12	8,85	0,11	9,30	0,11	9,75	0,10
			0,12		0,11		0,11		0,10
		220	0,10	230	0,09	240	0,09	250	0,08
		10,25	0,10	10,75	0,09	11,15	0,09	11,60	0,08
			0,10		0,09		0,09		0,08
Compressive strength at 10% of deformation:		$\sigma \geq 120 \text{ kPa}$	CS(10/Y)120						
Reaction to fire (of the product as placed on the market):		E - termPIR® AL (20-49: F class, 50-250: E class)							

TECHNICAL CARD

termPIR® AL R-eco INSULATION BOARDS



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 ■ boards that can be used