

## TECHNICAL CARD

### termPIR® AL AT INSULATION BOARDS

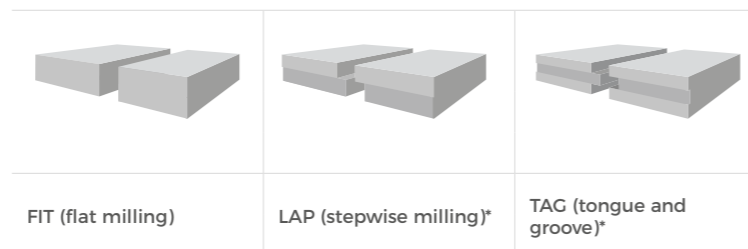
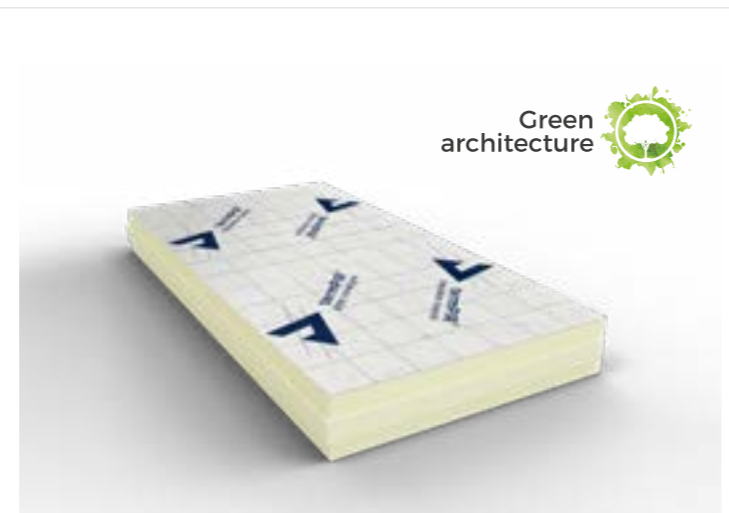


#### termPIR® AL AT Product details:

Description of board:	The termPIR® AL AT insulation boards comprise of a PIR rigid foam thermal insulation core. The boards are protected on both sides with a gas tight lining layer composed of aluminium (AL), paper and polyethylene.
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#### Certificates / Approvals:

CE mark	■
ISO 9001, ISO 14001 System certificates	■
Compatibility with EN 13165+A2 and EN 13172	■
Tests of thermal properties ITB	■
Reaction to fire: GRYFIT LAB/ Fires	■
Fire classifications: ICIMB	■
Admitted to trading in the EU	■



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

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 <a href="http://www.termpir.eu">www.termpir.eu</a></p>
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#### termPIR® AL AT 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 <sup>2</sup> ·K], wg U = 1 / (Re + R <sub>o</sub> + Ri)		20	0,90	30	1,35	40	1,85	50	2,30
For a given nominal thickness [mm]:	Thermal resistance: R <sub>D</sub> [m <sup>2</sup> ·K/W]	60	2,75	70	3,25	80	3,70	90	4,15
		100	4,65	110	5,10	120	5,55	130	6,05
		140	6,50	150	6,95	160	7,45	170	7,90
		180	8,35	190	8,85	200	9,30	210	9,75
		220	10,25	230	10,75	240	11,15	250	11,60

Compressive strength at 10% of deformation:	$\sigma \geq 120 \text{ kPa}$	$20 \leq d_N < 30 \text{ mm}$ ,
	$\sigma \geq 150 \text{ kPa}$	$30 \leq d_N < 140 \text{ mm}$ ,
	$\sigma \geq 140 \text{ kPa}$	$140 \leq d_N \leq 250 \text{ mm}$ ,
Tensile strength perpendicular to faces:	$(20 \leq d_N \leq 130 \text{ mm})$ : $\geq 80 \text{ kPa}$ , TR80	
	$(50 < d_N \leq 200 \text{ mm})$ : $\geq 50 \text{ kPa}$ , TR50	
	$(130 < d_N \leq 250 \text{ mm})$ : $\geq 40 \text{ kPa}$ , TR40	
Flatness after one-sided moisting:	$\leq 10 \text{ mm} / \text{FW2}$	
Long-term absorption upon complete immersion:	$\leq 2 \% \text{ [kg/kg]} / \text{WL(T)2}$	
Dimensional stability:	for $(20 \leq d_N < 50 \text{ mm})$ : DS(70,-)1	for $(50 \leq d_N \leq 250 \text{ mm})$ : DS(-20,-)2 / NDS(70,90)3
Reaction to fire (of the product as placed on the market):	E - termPIR® AL (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    ■ boards that can be used