



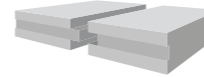


## TECHNICAL CARD

### termPIR® AGRO AL INSULATION BOARDS



termPIR® AGRO AL	Product details:	
Description of board:	The termPIR® AGRO AL insulation boards comprise of a PIR rigid foam thermal insulation core. The boards are protected on both sides with a washable gas tight aluminium foil lining thickness 50 µm (Agro AL).	
<b>Certificates / Approvals:</b>	 	
CE mark		■
ISO 9001, ISO 14001 System certificates		■
Compatibility with EN 13165+A2 and EN 13172		■
Environmental Declaration EPD (type III)		■
Environmental Certificate (type III)		■
CO2 footprint		■
(Leed & Breeam) Green Card		■
Atest PZH		■
VOC		
Keymark certificate and quality label		■
Tests of thermal properties ITB		■
Fire classifications		■
Board in the product base SVT		
Board in the product base EPDM		
SundaHUS		
BVB	■	
Swan- The Nordic Ecolabel		
Certificate for the system ETICS		
Admitted to trading in the EU	■	
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 <a href="http://www.termpir.eu">www.termpir.eu</a></p>	

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termPIR® AGRO AL	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)									
For a given nominal thickness [mm]: Thermal resistance: R <sub>D</sub> [m <sup>2</sup> ·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:	-								
Flatness after one-sided moisting:	≤ 10 mm / FW2								
Long-term absorption upon complete immersion:	≤ 2 % [kg/kg] / WL(T)2								
Water vapour transmission: (wg EN ISO 10456):	Sd coeicient for 50 µm aluminium foil: 1500 m Factor $\mu$ for polyurethane foam: 60								
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):	Declared performance: D-s2,d0 (20-39: E class, 40-250: D class)								

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termPIR® AGRO AL	Product details:
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Fire resistance:	REI 30 / REI 20 / REI 15
	Structure: - base: trapezoidal sheet, concrete; - vapour barrier: PE foil, bituminous sheeting or no vapour barrier; - termPIR® AGRO AL: at least 120 mm (REI 30), at least 100 mm (REI 15), 70 mm (RE 30) - waterproofing: PVC, EPDM, TPO, tar sheets, steel, alu. and titanium-zinc sheets; Conditions of use according to the Building Research Institute classification

Buildings:	Intended use of the board:
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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