

TECHNICAL CARD

termPIR® MAX19 AL INSULATION BOARDS

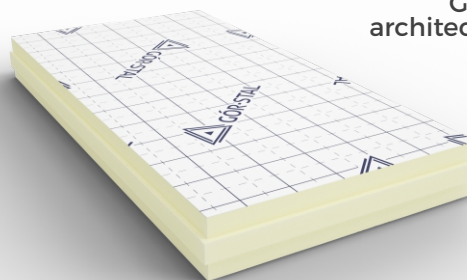


Description of board

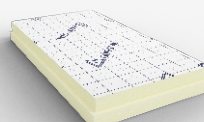
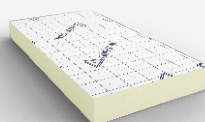
termPIR® MAX19 AL insulation boards comprise a rigid polyisocyanurate foam thermal insulation core, featuring a thermal conductivity coefficient of 0.019 [W/m·K]. The core is protected on both sides by gas resistant multilayer aluminium (AL), paper and polyethylene facings.

- Tests of thermal properties: **ITB**
- Fire classifications: **ITB, Fires**
- ISO 9001, ISO 14001** system certificates
- Compatibility with **EN 13165+A2** and **EN 13172**
- Admitted to trading in the **EU**

- Determination for parameters with DoP:



Visualisation of boards with available joint types



Joint types

FIT (flat milling)

LAP (stepwise milling)

TAG (tongue and groove)

Application of termPIR® MAX 19 AL boards in energy efficient buildings

Buildings:	Intended use of the board:	
residential, high density housing	on rafter insulation system on pitched roofs	
residential	under rafter insulation system on pitched roofs	
residential, retail and industrial	build Up Roofs [BUR] - Flat & Green roofs, mechanically fastened	
residential, retail and industrial	build Up Roofs [BUR] - Flat & Green 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	
Key	- the board recommended for use	- boards that can be used

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

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. 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. Additional information is available in the Technical Catalogue at the website www.gor-stal.pl and www.termpir.eu

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termPIR®
insulation boards

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		$d_n = (20 - 250) \text{ mm}$									
Declared heat transfer coefficient for lining, λ_D		$(20 \leq d_n \leq 250 \text{ mm}): 0,019 \text{ [W/m}\cdot\text{K]}$									
		Coefficient. U [W/m ² ·K], accod. to $U = 1 / (R_e + R_D + R_i)$									
For a given nominal thickness [mm]: Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$	for wall	20	0,82	30	0,56	40	0,43	50	0,35	60	0,29
	for roof		0,84		0,57		0,44		0,35		0,29
	for floor	1,05	0,82	1,60	0,56	2,15	0,43	2,70	0,35	3,25	0,29
For a given nominal thickness [mm]: Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$	for wall	70	0,25	80	0,22	90	0,20	100	0,18	110	0,16
	for roof		0,25		0,22		0,20		0,18		0,16
	for floor	3,80	0,25	4,35	0,22	4,90	0,20	5,45	0,18	5,95	0,16
For a given nominal thickness [mm]: Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$	for wall	120	0,15	130	0,14	140	0,13	150	0,12	160	0,11
	for roof		0,15		0,14		0,13		0,12		0,11
	for floor	6,50	0,15	7,05	0,14	7,60	0,13	8,15	0,12	8,70	0,11
For a given nominal thickness [mm]: Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$	for wall	170	0,11	180	0,10	190	0,10	200	0,09	210	0,09
	for roof		0,11		0,10		0,10		0,09		0,09
	for floor	9,25	0,11	9,80	0,10	10,35	0,10	10,90	0,09	11,45	0,09
For a given nominal thickness [mm]: Thermal resistance: $R_D \text{ [m}^2\cdot\text{K/W]}$	for wall	220	0,08	230	0,08	240	0,08	250	0,07		
	for roof		0,08		0,08		0,08		0,07		
	for floor	11,95	0,08	12,50	0,08	13,05	0,08	13,60	0,07		
Dimensional stability		DS(70,90)2									
Apparent PIR core density		30 kg/m ³									
Reaction to fire (of the product as placed on the market)		E Class									