DoP Nr **termPIR / BWS / 15**

TECHNICAL CARD

termPIR® BWS INSULATION BOARDS

termPIR® insulation boards

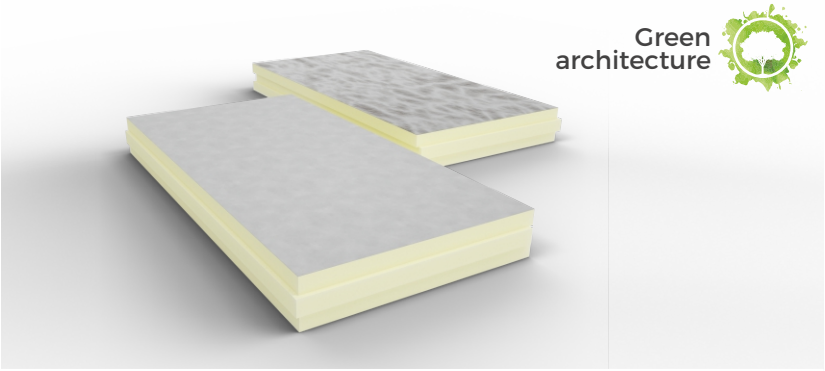
Description of board:	The **termPIR® BWS** insulation boards comprise of a PIR rigid foam thermal insulation core. The boards are protected with gas-permeable lining from glass reticular fibre (WS) on one side and with lining from glass reticular fibre impregnated with bitumen (BT) on the other side.

- Tests of thermal properties: **ITB**
- **Keymark** certificate and quality label
- **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:

021-IMBIGS-001 16, 1488 1454

Green architecture



Visualisation of boards with available joint types:			
Joint types:	**FIT** (flat milling)	**LAP** (stepwise milling)	**TAG** (tongue and groove)
Information about product safety:	Information about suabstances 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		

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 corrossion caused by concrete	

Key: ■ the board recommended for use ■ boards that can be used

Update: **20.07.2020 r.**

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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:		$\mathbf{d_N}$ = (20 - 250) mm									
Declared heat transfer coefficient for lining, λ_D:		for (20 ≤ d_N < 80 mm) : **0,027** [W/m·K]		for (80 ≤ d_N < 120 mm) : **0,026** [W/m·K]			for (120 ≤ d_N ≤ 250 mm) : **0,025** [W/m·K]				
	Coefficient. U [W/m²·K], accod. to U = 1 / (Re + R_D + Ri)										
For a given nominal thickness [mm]: Thermal resistance: R_D [m²·K/W]	for wall for roof for floor	**20** 0,70	1,10 1,14 1,10	**30** 1,10	0,78 0,80 0,78	**40** 1,45	0,61 0,62 0,61	**50** 1,85	0,49 0,50 0,49	**60** 2,20	0,42 0,42 0,42
For a given nominal thickness [mm]: Thermal resistance: R_D [m²·K/W]	for wall for roof for floor	**70** 2,55	0,36 0,37 0,36	**80** 3,05	0,31 0,31 0,31	**90** 3,45	0,28 0,28 0,28	**100** 3,80	0,25 0,25 0,25	**110** 4,20	0,23 0,23 0,23
For a given nominal thickness [mm]: Thermal resistance: R_D [m²·K/W]	for wall for roof for floor	**120** 4,80	0,20 0,20 0,20	**130** 5,20	0,19 0,19 0,19	**140** 5,60	0,17 0,17 0,17	**150** 6,00	0,16 0,16 0,16	**160** 6,40	0,15 0,15 0,15
For a given nominal thickness [mm]: Thermal resistance: R_D [m²·K/W]	for wall for roof for floor	**170** 6,80	0,14 0,14 0,14	**180** 7,20	0,14 0,14 0,14	**190** 7,60	0,13 0,13 0,13	**200** 8,00	0,12 0,12 0,12	**210** 8,40	0,12 0,12 0,12
For a given nominal thickness [mm]: Thermal resistance: R_D [m²·K/W]	for wall for roof for floor	**220** 8,80	0,11 0,11 0,11	**230** 9,20	0,11 0,11 0,11	**240** 9,60	0,10 0,10 0,10	**250** 10,00	0,10 0,10 0,10	- -	- - -
Compressive strenght at 10% of deformation, σ_{10}:		for (20 ≤ d_N < 30 mm): ≥ **120 kPa**, CS(10/Y)120					for (30 ≤ d_N ≤ 250 mm): ≥ **150 kPa**, CS(10/Y)150				
Dimensional stability:		DS(70,-)2									
Apparent PIR core density:		30 kg/m³									
Reaction to fire (of the product as placed on the market):		20-49: **F** class, 50-250, **E** class (WS facing), **F** class (BT facing)									

Update: **20.07.2020 r.**