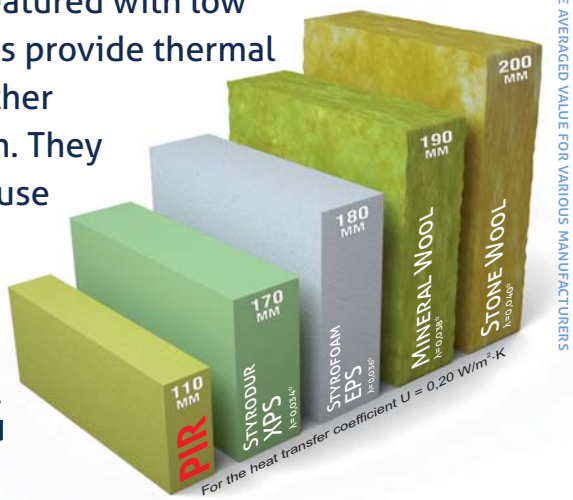
GÓR-STAL
SANDWICH PANELS

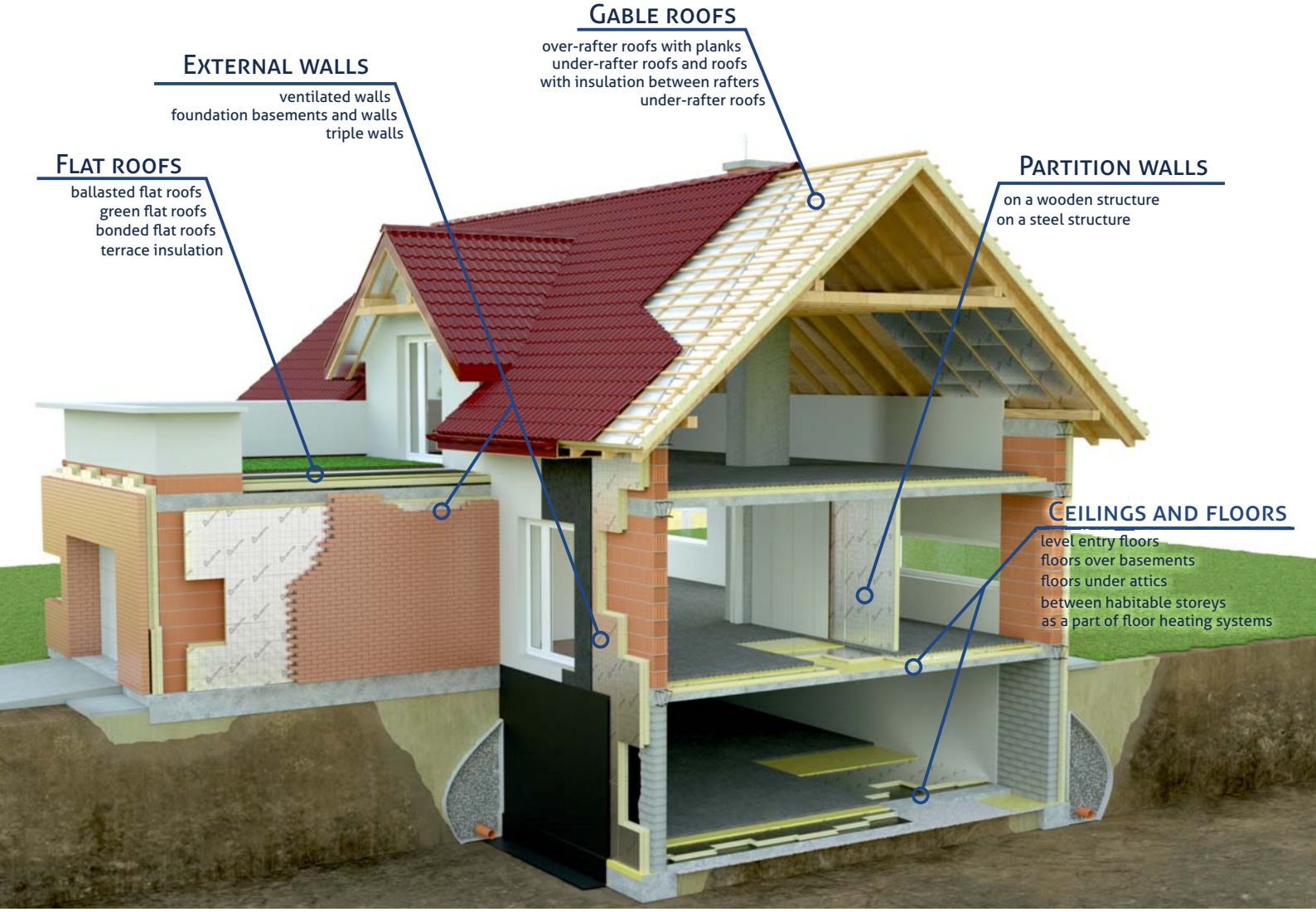
termPIR
Insulation boards

Green buildings make use of smart technologies which allow for a high level of heating-related comfort and for erecting buildings featured with low energy consumption and dwelling costs. **TermPIR** panels provide thermal insulation that is more efficient when compared with other constructional materials, like mineral wool or Styrofoam. They enable energy-saving, long-lasting and safe use of a house or apartment.



* The averaged value for various manufacturers

Build your energy-saving home with us



PERFECT THERMAL INSULATION
HIGH LEVEL OF FIRE RESISTANCE
WEATHERPROOF
RODENT-PROOF
INSECT-PROOF
EASILY DECORATED
EASILY MOUNTABLE
DAMAGE-PROOF

Parameters Of termPIR Boards

Type of core	Rigid polyisocyanurate foam (PIR)											
Apparent density of core	$\rho = 30^{+6}_{-2}$ kg/m²											
Declared heat conductivity coefficient	λ_D = 0,022 W/m*K for termPIR AL λ_D = 0,026 W/mK for thickness ≥ 20 mm* λ_D = 0,025 W/mK for thickness ≥ 100 mm* λ_D = 0,024 W/mK for thickness ≥ 120 mm* * for others											
Board facing	• PK – papier KRAFT • AL – paper covered with aluminium • WS – fiberglass • BT – bitumen lining											
Board dimensions	600 x 1200 / 1200 x 2400											
Available board dimensions on reqest	1000 x1200 / 1200 x 1200 / 1200 x 1800 / 1200 x 3000											
Joint types	**FIT** - Straight edges, **LAP** - Overlap edges*, **TAG** - Tounge and Groove*											
Thickness [mm]	available board thickness at increments of 10 mm on request											
	20	**30**	**40**	**50**	**60**	**80**	**100**	**120**	**150**	**180**	**200**	**220**	**250**
Thermal resistance R [m²K/W]	0,90[1] 0,75[2]	1,35[1] 1,15[2]	1,80[1] 150[2]	2,25[1] 1,90[2]	2,70[1] 2,30[2]	3,60[1] 3,20[2]	4,50[1] 4,00[2]	5,45[1] 5,00[2]	6,80[1] 6,25[2]	8,15[1] 7,50[2]	9,05[1] 8,30[2]	9,05[1] 8,30[2]	10,00[1] 9,15[2]
Heat transfer coefficient U [W/m²K]	1,10[1] 1,30[2]	0,73[1] 0,87[2]	0,55[1] 0,65[2]	0,44[1] 0,52[2]	0,37[1] 0,52[2]	0,28[1] 0,31[2]	0,22[1] 0,25[2]	0,18[1] 0,20[2]	0,15[1] 0,16[2]	0,12[1] 0,13[2]	0,11[1] 0,12[2]	0,11[1] 0,12[2]	0,10[1] 0,11[2]
Compressive strength at 10% of deformation	σ = 120 kPa											
Fire reaction classification (board itself)	E – self-extinguishing for termPIR AL, termPIR WS F - termPIR BT, termPIR PK											
Water absorbability	≤ 2,0 %V											

* milled board covering surface is lessened by 15 mm. Available panels' mills: **LAP** - panel thickness minimum 30 mm, **TAG** – panel thickness minimum 40 mm
Legend: 1 - for termPIR AL **2** - for others

termPIR AL

Polyisocyanurate thermal insulation boards (PIR) for insulation of flat roofs, partition walls and floors.

termPIR WS

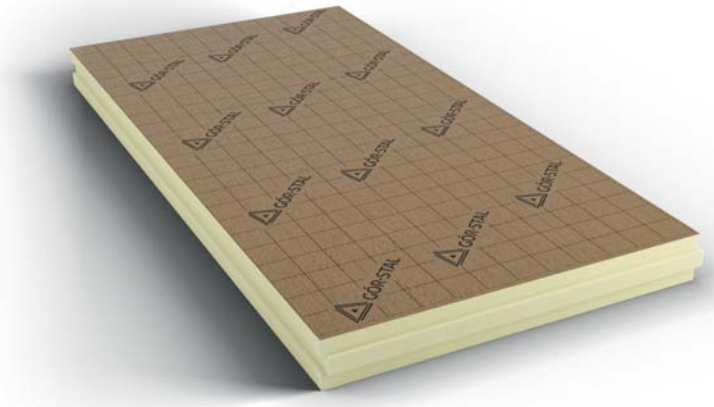
Polyisocyanurate thermal insulation boards (PIR) for pitched roofs, interior and exterior walls and **CARPATIA Facade System manufactured by Gór-Stal.**

termPIR BT

Polyisocyanurate thermal insulation boards (PIR) are insulation materials for the renovation of flat roofs in residential buildings. Various types of roofing can be used directly on the board.

termPIR AGRO AL

Polyisocyanurate thermal insulation boards (PIR) for the insulation of agricultural and industrial facilities. High resistance to pressure washing and ammonia.



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