



TECHNONICOL

PREMIUM



PIR BOARDS TECHNOMICOL

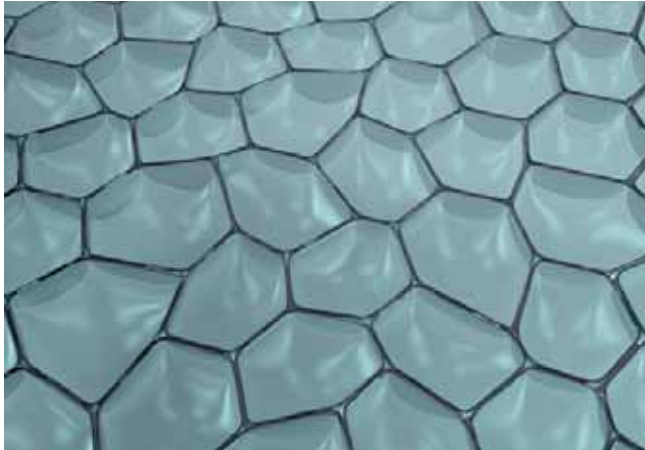
THERMAL INSULATION

KNOWLEDGE. EXPERIENCE. CRAFTSMANSHIP.

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THERMAL INSULATION BOARD

PIR TECHNOMICOL is a thermal insulating material of new generation made of rigid PIR (polyisocyanurate), which is used in flat and pitched roofing systems, basements, floors and facades.

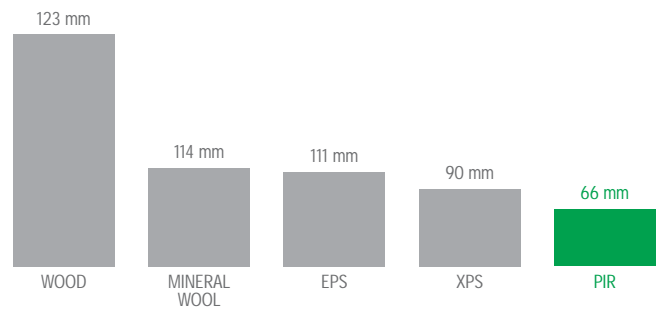


PIR TECHNOMICOL is a board made of rigid PIR (Polyisocyanurate) for use in flat roofing systems. Being very rigid and perfectly flat, PIR is an ideal substrate for roofing materials, especially for synthetic membranes. PIR has high compressive strength and a very low thermal conductivity value of 0.022 W/m*K.

More than 95% of PIR consists of closed cells. PIR board does not absorb water. It maintains stable parameters for a long period of time.



Thickness of different types of thermal insulation with the same R-value of 3.0 m² · K/W



UNIQUE FEATURES



RELIABILITY AND DURABILITY

Throughout its 25-year service life LOGICPIR retains its qualities.



DOES NOT ABSORB WATER

The board structure consists of closed rigid cells, which do not allow water to come into material. Composite facers, made of AL foil and plastic, provide an additional vapor barrier.



DOES NOT BURN

PIR is not flammable. When in contact with an open flame, polymer burns on surface only. This creates a charcoal skin, which is an effective defense against further polymer damaging.



DYNAMIC LOAD RESISTANCE

PIR complies with class 2 for dynamic load (EN 826). Compression strength of 120 kPa provides high resistance against deformation due to live loads.



RECORD LOW THERMAL CONDUCTIVITY

PIR has very low thermal conductivity of 0.022 W/m*K. Boards have L-shaped edges, so they fit tightly together and thus prevent cold bridges.



LOW DENSITY

The low density of PIR is combined with high thermal resistance. Use of the product reduces the overall weight of a roof. This is especially important for roofs renovation. Transportation costs are substantially reduced as well.



ALL SEASONS

It functions effectively within a temperature range from -65°C to +110°C, so it is suitable for use in any climate.

TECHNICAL DATA



PIR board with aluminum foil facing



PIR board with facing of glass tissue with mineral coating

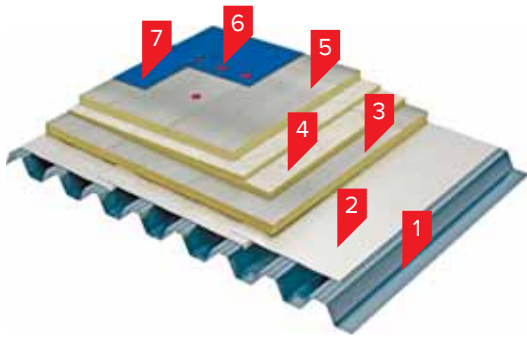


PIR board with facing of glass tissue with bitumen coating

ESSENTIAL CHARACTERISTICS	PERFORMANCE		
	aluminum foil	mineral coating	bitumen coating
Thermal conductivity, W/m ² K	0,022	0,026	0,026
Reaction to fire	Class E	Class E	Class F
Thickness, mm	30-150 (in steps of 10 mm)		
Board sizes, mm	1200x600, 2400x1200		
Compressive strength	CS(10\Y)150 ≥ 150	CS(10\Y)150 ≥ 150	CS(10\Y)150 ≥ 150
Water permeability - short term water absorption	WS(P)0.1	WS(P)0.1	WS(P)0.1
Water permeability - flatness after one sided wetting	FW2 ≤5	FW2 ≤5	FW2 ≤5

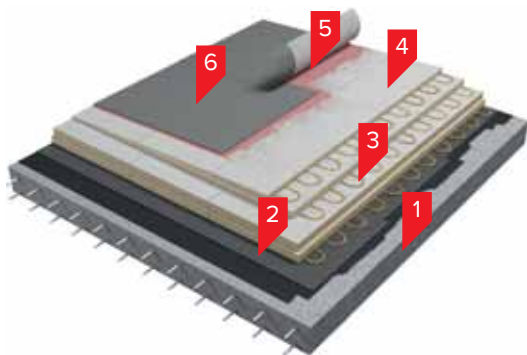


ROOFING SYSTEMS



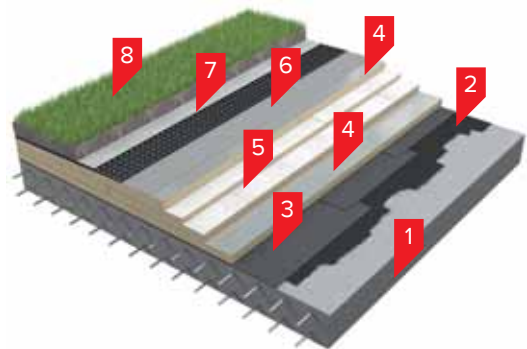
MECHANICALLY FIXED ROOFING SYSTEM

1. Corrugated steel sheet
2. Vapor barrier TECHNOELAST VB 500 SELF
3. Thermal insulation board PIR TECHNOMICOL F/F
4. Thermal insulation board PIR TECHNOMICOL Slope
5. Thermal insulation board PIR TECHNOMICOL F/F
6. Mechanical fixation
7. PVC membrane LOGICROOF V-RP



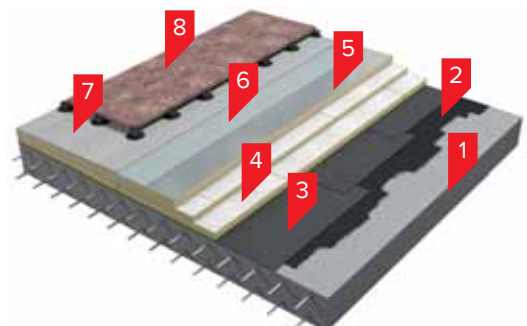
FULLY ADHERED ROOFING SYSTEM

1. Reinforced concrete
2. Bitumen vapor barrier
3. Adhesive foam
4. Thermal insulation board PIR TECHNOMICOL F/F
5. Adhesive compound
6. PVC membrane LOGICROOF V-RP FB



SYSTEM FOR «GREEN ROOF»

1. Reinforced concrete
2. Bitumen primer BITUMEN PRIME COATING
3. Bitumen vapor barrier
4. Thermal insulation board PIR TECHNOMICOL F/F
5. Thermal insulation board PIR TECHNOMICOL Slope
6. PVC membrane LOGICROOF V-GR
7. Drainage membrane with geotextile PLANTER GEO
8. Soil with vegetation layer



ROOFING SYSTEM FOR TERRACE

1. Reinforced concrete
2. Bitumen primer BITUMEN PRIME COATING
3. Bitumen vapor barrier
4. Thermal insulation board PIR TECHNOMICOL Slope
5. Thermal insulation board PIR TECHNOMICOL F/F
6. PVC membrane LOGICROOF V-GR
7. Needle-punched geotextile
8. Paving slabs on adjustable supports

