

**PANELTECH<sup>®</sup>**



**PIR SOFT LE**  
**INSULATION BOARDS**

# ABOUT PRODUCT

Increasing energy efficiency requirements in construction present new challenges for investors and contractors. To meet these growing demands, we offer the PIR SOFT LE insulation board, which is the key to achieving high thermal comfort while keeping heating costs low.

This board features an **exceptional thermal conductivity coefficient of  $\lambda = 0,022 \text{ W/m}\cdot\text{K}$** , ensuring outstanding thermal insulation. The PIR SOFT LE board consists of two multilayer gas-tight laminate with an external aluminum foil coating with a rigid PIR foam insulation core in between. The board is available in two versions: with straight edges (SE) or L-shaped edges on all four sides (LS).



## APPLICATION

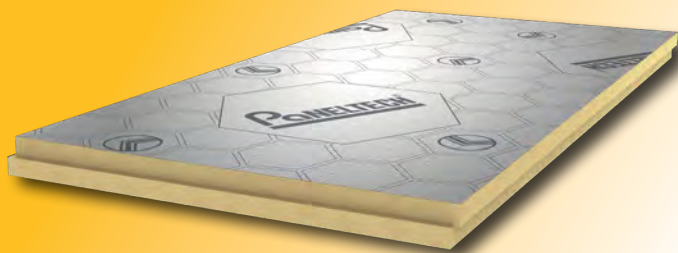
- ① Three-layered walls
- ② Flat roofs
- ③ Shed roofs
- ④ Floors
- ⑤ Terraces

## EDGE FINISHING

PIR SOFT LE boards can be delivered in two milling variants:

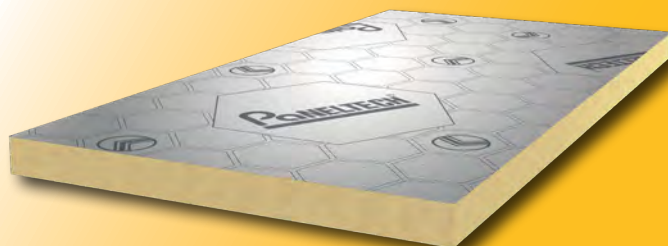
- LS (milled edges on 4 sides)
- SE (straight edge finish).

In the PIR SOFT LE SE variant, where all edges are straight, the coverage width is 1200 mm and the coverage length is 2400 mm (coverage area of 2,88 m<sup>2</sup>). And in the PIR SOFT LE LS variant, where all edges are milled, the coverage width is 1185 mm and the coverage length is 2385 mm (coverage area of 2,83 m<sup>2</sup>).



**PIR SOFT LE LS**  
L-SHAPED EDGES

**PIR SOFT LE SE**  
STRAIGHT EDGES



# ADVANTAGES OF PIR SOFT LE INSULATION BOARDS

The advantages of Paneltech's PIR SOFT LE insulation boards are:

- good thermal insulation –  $\lambda_D = 0,022 \text{ W/m}\cdot\text{K}$ ,
- easy and fast installation,
- excellent dimensional stability in changing operating conditions, so no thermal bridges appear on the partitions,
- resistance to fungi and mold due to closed cell structure with gas-tight facings,
- lack of biological enemies - rodents do not penetrate rigid PIR foam, which ensures long-term durability of the material without the need for replacement.

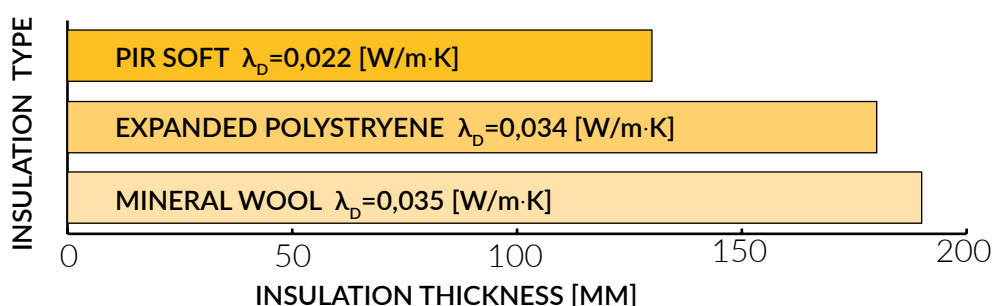
Parameter	Value									
Thickness [mm]	50*	60*	80	100	120	140	150*	160	180	200
Application	Insulation for flat roofs, shed roofs, three-layered walls, floors and terraces									
Type of milling	LS – L-shaped edges SE – straight edges									
Coverage length [mm]	2400 (SE) lub 2385 (LS)									
Coverage width [mm]	1200 (SE) lub 1185 (LS)									
Coverage area [m <sup>2</sup> ]	2,88 (SE) lub 2,83 (LS)									
Thermal resistance R [m <sup>2</sup> K/W]	2,25	2,70	3,60	4,50	5,45	6,35	6,80	7,25	8,15	9,05
Thermal conductivity coefficient of the board $\lambda_D$ [W/m·K]	0,022 (in accordance with EN 13165:2012+A2:2016 standard)									
Reaction to fire class	E									
Compressive strength (10% strain) [kPa]	≥ 150 kPa (1,5 kg/cm <sup>2</sup> )									
Insulation core	Rigid PIR foam with a density $32 \pm 3 \text{ kg/m}^3$ and a closed-cell structure									
Facing	LE: multilayer gas-tight laminate with an external aluminum foil coating									
Boards per pack [pcs]	10	8	6	5	4	3	3	3	2	2
Boards area per pack [m <sup>2</sup> ]	28,80	23,04	17,28	14,40	11,52	8,64	8,64	8,64	5,76	5,76
Boards area per pallet [m <sup>2</sup> ]	144,00	115,20	86,40	72,00	57,60	51,84	43,20	43,20	40,32	34,56
Boards area full load [m <sup>2</sup> ]	1584,00	1267,20	950,40	792,00	633,60	570,24	475,20	475,20	443,52	380,16

\*For the SE board variant, please inquire about availability.

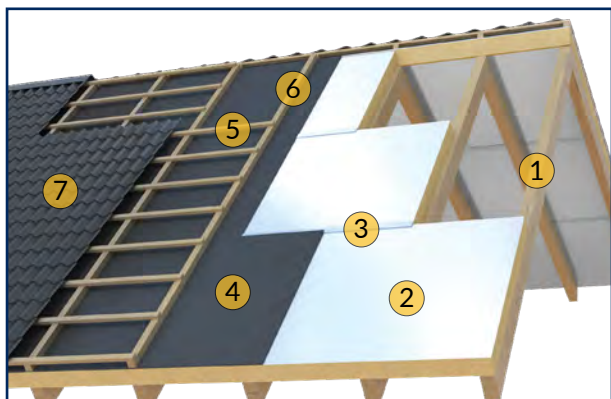
## ENERGY EFFICIENCY

At present, investors more and more often opt for energy-efficient construction. To make a newly built facility meet strict thermal requirements, products providing the lowest possible energy consumption are used for its construction. The key to achieve a high thermal comfort at low heating costs, and thus reduction of CO<sub>2</sub> emissions, is to use Paneltech PIR SOFT insulation boards.

They help to build a facility which is provided with an excellent thermal insulation and protected against loss of heat. With use of PIR SOFT insulation boards it is possible to achieve the same insulating power with a lower thickness compared to mineral wool or expanded polystyrene foam, which proves that Paneltech PIR SOFT insulation boards are the most efficient out of all commercially available insulating materials.

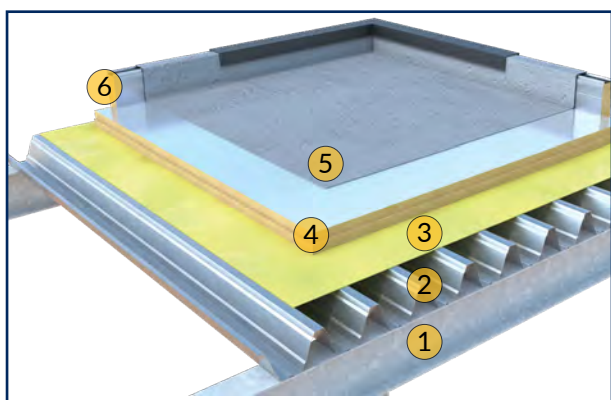






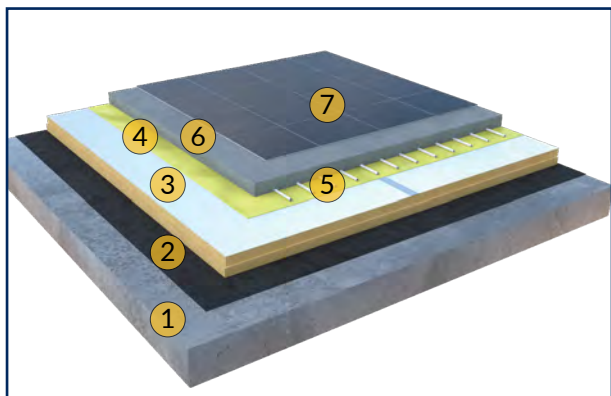
## SHED ROOFS

1. Rafters
2. PIR SOFT LE thermal insulation board
3. Aluminum tape
4. Membrane
5. Battens
6. Counter-battens
7. Roofing



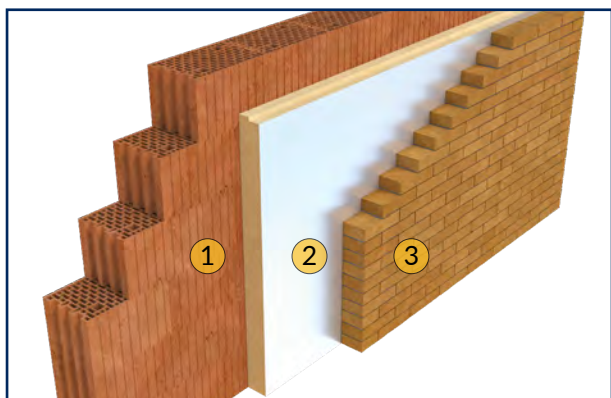
## FLAT ROOFS

1. Structure
2. Supporting substrate
3. Vapor barrier foil
4. Thermal insulation board PIR SOFT LE
5. Waterproofing
6. Wall panels



## FLOORS AND TERRACES

1. Reinforced concrete slab
2. Moisture insulation
3. Thermal insulation board PIR SOFT LE
4. Vapor-proof foil
5. Underfloor heating system
6. Screed
7. Floor



## THREE-LAYER WALLS

1. Load-bearing wall
2. PIR SOFT LE thermal insulation board
3. Façade wall