

## **Product description**

Polystyrene "sandwich" thermal insulation panels are made of two steel plate layers having in between one polystyrene layer with different density and thickness.

They are used for external and internal walls and for construction of roofs and ceilings of residential buildings, industrial buildings, commercial buildings, farms, office buildings, warehouses, production facilities and other special buildings.

The polystyrene filling is known for removal of thermal bridges and low weight that do not affect the strength structure of the construction.

## **Production Specifications**

- the wall panels BILKA with polystyrene are produced in two options: with concealed fastening and visible fastening.
- the roof panels BILKA filled with polystyrene are produced in two options: 3 corrugations and 5 corrugations.
- the panel thickness varies from 20 to 100 mm, based on the intended purpose.
- the thickness of the exterior layers of steel varies from 0.4 to 0.6 mm.
- the exterior layers of steel can be produced in various color options.
- the standard length of the panel ranges from 2.5 and 13.5 m. Execution of the panels with different lengths from the standard ones will be made after prior consultation with the technical specialist from BILKA.

## **Advantages**

- reduces heating costs of the construction due to the low heat transfer coefficient.
- it has no negative effects on the environment; polystyrene is an environmentally friendly material.
- high degree of heat insulation, soundproof and waterproof, quick and easy assembly and transport both for walls and roofs.
- no need for strict maintenance, as classical materials

### 1. Technical characteristics

Panel Type	Thickness min/max (mm)	Interior/exterior Sheet thickness min/max(mm)	Weight min/max (kg/m)	Heat transfer coefficient min/max
Wall with visible fastening	50	0.50/0.50	9.65	0.70
	60		9.85	0.58
	80		10.25	0.43
	100		10.65	0.35
	120		11.05	0.29
Wall with concealed fastening	50	0.50/0.50	9.85	0.70
	60		10.05	0.58
	80		10.45	0.43
	100		10.85	0.35
	120		11.25	0.29
Roof	50	0.50/0.50	10.37	0.70
	60		10.57	0.58
	80		10.97	0.43
	100		11.37	0.35
	120		11.77	0.29

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