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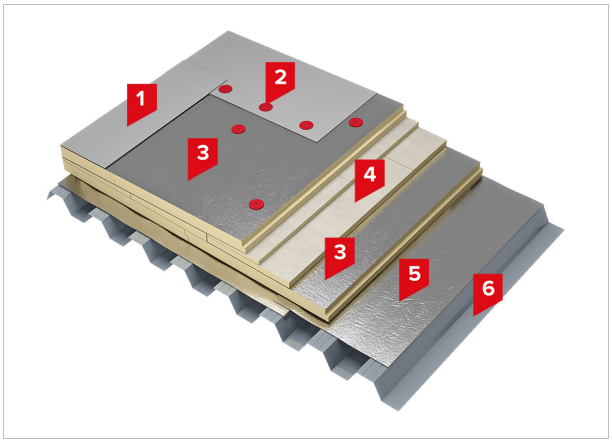
TN ROOF PVC STEEL CLASSIC PIR

Solution for a flat roof on corrugated steel deck with PVC membrane and PIR thermal insulation



Area of application

Logistic centers, warehouses, industrial buildings, shopping centers, sports complexes, buildings with a large area and a lot of engineering equipment on the roof.

Advantages

- Quick installation
- High energy efficiency
- Trampling resistance
- Lightweight construction

System composition and material consumption rates

No.	Material	Unit	Thickness, mm*	Consumption rate**
1	LOGICROOF V-RP	m²	1.2, 1.5, 1.8, 2.0	1.15
2	Mechanical fastening system TECHNONICOL	pcs	–	acc. to calculation
3	LOGICPIR	m³	30-150, increments 10 mm	1.03
4	LOGICPIR SLOPE (with glass fiber covering)***	m³	acc. to project	acc. to calculation
5	VAPORSTOP CA 500	m²	0.5	1.1
6	Corrugated steel deck	–	–	–

*The available thicknesses of the selected thermal insulation materials are to be checked with the manufacturer.
**The consumption rates are taken conditionally – according to the manufacturer's recommendations.
***Regular LOGICPIR boards in case of slope formation by corrugated steel deck.

Technical description

The solution is suitable for roofs of a large area, pre-fabricated buildings and structures. The system is featured by high strength and rigidity, which allow using it on roofs with a lot of equipment.

Aluminized self-adhesive polymer-bitumen membrane VAPORSTOP CA 500 is used as vapor barrier on the corrugated steel deck. The membrane has high vapor barrier properties (including at the points perforated by fasteners), is resistant to mechanical impacts and can support a weight of an applicator.

Rigid polyisocyanurate (PIR) boards LOGICPIR are used as a thermal insulation layer. The material has high compressive strength, low weight and a record low thermal conductivity value allowing to decrease the total thickness of the roofing system.

Polyester reinforced PVC membrane for single-ply waterproofing of exposed flat roofs LOGICROOF V-RP is used as the final roof covering. The top layer of the PVC membrane is featured by very high resistance to weather factors and UV rays, while the bottom layer offers a high resistance to puncture.

Insulation and waterproofing layers are mechanically fixed to the base with telescopic fasteners.