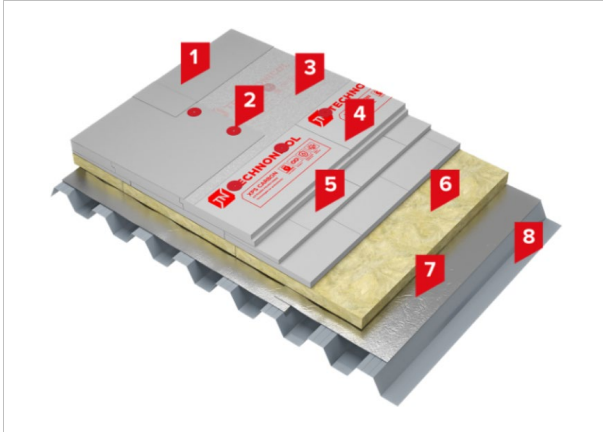




TN ROOF PVC STEEL SMART

Solution for a flat roof on corrugated steel deck with PVC membrane and combined 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 strength welds



Trampling resistance



Easy installation

System composition and material consumption rates

No.	Material	Unit	Thickness, mm*	Consumption rate**
1	LOGICROOF V-RP	m ²	1.2, 1.5, 1.8, 2.0	1.15
2	Mechanical fastening system TECHNOMICOL	pcs	–	acc. to calculation
3	Glass fiber	m ²	0.5	1.2
4	XPS TECHNOMICOL CARBON PROF 300	m ³	50-200, increments 10 mm	1.03
5	XPS TECHNOMICOL CARBON PROF SLOPE***	m ³	acc. to project	acc. to calculation
6	TECNOROOF N30****	m ³	50-200, increments 10 mm	1.03
7	VAPORSTOP CA 500	m ²	0.5	1.1
8	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 TECHNOMICOL CARBON PROF 300 slabs in case of slope formation by corrugated steel deck.

****If necessary, the mineral wool layer may be excluded, unless this does not conflict with national building codes.

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. VAPORSTOP CA 500 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.

At least 50 mm thick non-flammable stone wool insulation TECNOROOF N30 is used as a bottom thermal insulation layer, which provides the system with high fire resistance. Extruded polystyrene slabs TECHNOMICOL CARBON PROF 300 are used as an upper layer of the thermal insulation system. They are characterized by high insulation properties and increased compressive strength.

Polyester reinforced PVC membrane for single-ply waterproofing of exposed flat roofs LOGICROOF V-RP must be separated from the XPS layer by a glass fiber mat weighing not less than 100 g/m². 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.