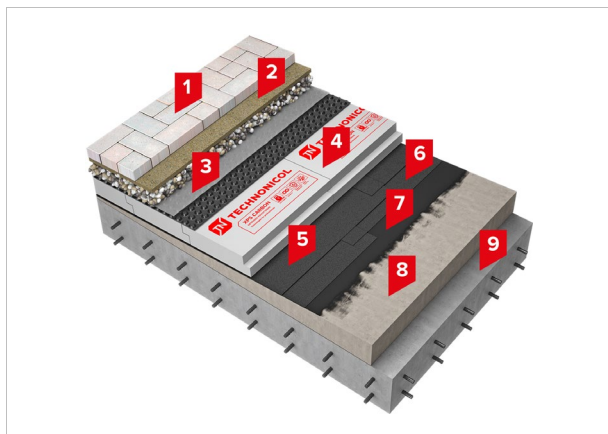




TN ROOF BRM CONCRETE PAVEMENT

Solution for a terrace with polymer-bitumen membrane, drainage and XPS thermal insulation



Area of application

Residential and administration buildings, multifunctional complexes, hotels, sports and healthcare facilities, business centers, shopping centers.

Advantages



High pedestrian traffic resistance



Reliable waterproofing



Additional operating area



Mechanical impacts protection

System composition and material consumption rates

No.	Material	Unit	Thickness, mm*	Consumption rate**
1	Paving slabs	—	—	acc. to calculation
2	Sand-cement mix for paving	—	—	acc. to calculation
3	PLANTER geo	m ²	8	1.1
4	XPS TECHNOMICOL CARBON PROF 300***	m ³	50-200, increments 10 mm	1.03
5	ULTRAPLAST B (APP)****	m ²	3.0, 4.0	1.15
6	ULTRAPLAST B (APP)****	m ²	3.0, 4.0	1.15
7	BITUMEN PRIME COATING	l	—	0.25-0.35
8	Sloping layer of sand-cement screed	—	—	acc. to calculation
9	Reinforced concrete base	—	—	acc. to calculation

*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.

Alternative materials:

***XPS TECHNOMICOL CARBON SOLID 500.

****ULTRAPLAST A (APP), ULTRAFLEX GREEN (SBS), ULTRAFLEX A (SBS).

*****ULTRAPLAST A (APP), ULTRAFLEX A (SBS).

Technical description

The solution for a terrace allows gaining additional space for recreation, walking or sports activities. In this system, the roof is reliably protected from any atmospheric or mechanical impacts.

The waterproofing system comprises two layers of APP-modified bitumen membrane ULTRAPLAST B for reliable waterproofing in areas with various environmental conditions and rainfall levels. The waterproofing membrane in this system also serves as a vapor barrier. It is installed over the primed sloping layer of sand-cement screed.

Extruded polystyrene slabs TECHNOMICOL CARBON PROF 300 used as a thermal insulation layer are featured by low water absorption and high compressive strength, which meets the requirements for thermal insulation materials in inverted roofs. They also provide additional protection for waterproofing layers from mechanical damage and other negative impacts.

The dimpled drainage HDPE membrane with geotextile PLANTER geo effectively removes rainwater from the system.

The finishing layer of paving slabs is characterized by high resistance to pedestrian loads.