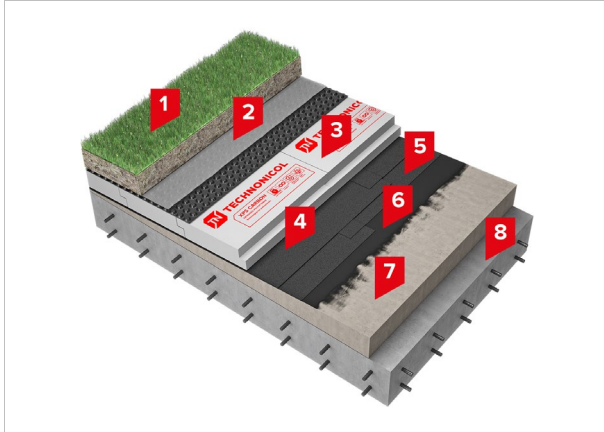




## TN ROOF BRM CONCRETE GREEN

Solution for a green flat roof 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



Eco-friendly roofing



Durability



Great thermal and noise insulation



Mechanical impacts protection

### System composition and material consumption rates

No.	Material	Unit	Thickness, mm*	Consumption rate**
1	Soil with plants	–	–	acc. to calculation
2	PLANTER geo	m <sup>2</sup>	8	1.1
3	XPS TECHNONICOL CARBON PROF 300***	m <sup>3</sup>	50-200, increments 10 mm	1.03
4	ULTRAFLEX GREEN (SBS)****	m <sup>2</sup>	3.1	1.15
5	ULTRAFLEX A (SBS)*****	m <sup>2</sup>	3.0, 4.0	1.15
6	BITUMEN PRIME COATING	l	–	0.25-0.35
7	Sloping layer of sand-cement screed	–	–	acc. to calculation
8	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 TECHNONICOL CARBON SOLID 500.

\*\*\*\*ULTRAPLAST GREEN (APP).

\*\*\*\*\*ULTRAPLAST B (APP), ULTRAPLAST A (APP).

### Technical description

A green roof reduces energy costs, creates aesthetically attractive landscape and recreational space, increases biodiversity in urban areas and regulates the temperature and humidity in the building and the environment.

The waterproofing system comprises two layers of SBS-modified bitumen membrane of the ULTRAFLEX series. ULTRAFLEX A is torched to the sloping layer of sand-cement screed primed in advance. The top layer is made of ULTRAFLEX GREEN membrane that contains a special chemical compound to prevent roots penetration and ensure reliable waterproofing. The polymer-bitumen membrane in this system also serves as a vapor barrier.

Extruded polystyrene slabs TECHNONICOL 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 thickness and type of the soil or substrate are selected taking into account the requirements of the chosen plants.