

## Extruded polystyrene TECHNOMICOL CARBON PROF 300

EN 13164

### Descriptions of material:

The TECHNOMICOL CARBON PROF extruded foamed polystyrene is a thermal insulation material with uniformly distributed closed cells which does not absorb water, doesn't swell and shrink, is chemical-resistant and is not subject to digestion.

High resistibility allows to receive equal and simultaneously rigid base, and it essentially increases term of operation of the whole heat-insulating system. TECHNOMICOL CARBON PROF contains nano particles graphite that reflect heat radiation.



### Field of application:

TECHNOMICOL CARBON PROF –is an up-to-date thermal insulating material widely used in building and construction while arranging thermal protection of the basement, roofs, floors, facades, thermal insulation of railways and highways.

### Physicomechanical characteristics:

TECHNOMICOL XPS	CARBON PROF 300	
Density, kg/m <sup>3</sup>	30,0-35,0	
Compressive stress at 10 percent linear deformation, no less than (kPa)	300	
Thermal conductivity: Thickness, mm	R <sub>D</sub> , m <sup>2</sup> *K/W	λ <sub>D</sub> , W/( m*K)
50	1,471	0,034
60	1,765	
70	2,059	
80	2,353	
100	2,94	
Maximum strength for static bending, no less than, (MPa)	0,35	
Water absorption, no more than (% of volume)	0,7	
Rectangular, no more than (mm)	≤1200 -5mm ≤2400 -7mm >2400 -10mm	
Temperature range for normal operation, °C	from -70 to +75	

### The geometric parameters:

length	mm	1180-4500 (< 3000 mm ±10; ≥ 3000 mm ±15)
width	mm	580 (±8 mm .)
thickness	mm	100 (≤60 mm ±2; >60 mm -2, +3)