



## TECHNONICOL CARBON SOLID 500

Extruded polystyrene



### Description:

Extruded polystyrene TECHNOMICOL CARBON SOLID is a heat-insulating material with uniformly distributed closed cells. XPS TECHNOMICOL CARBON SOLID does not absorb water and does not swell, does not shrink, is chemically stable and is not susceptible to decay. High durability ensures uniform and at the same time hard base: this significantly increases service life of all heat-insulating system.

### Application:

TECHNONICOL CARBON SOLID is used in general civil construction for heat insulation of foundations, operated roofs, loaded floors, as well as for heat insulation layers in foundations of transportation facilities.

### Storage:

Extruded polystyrene should be stored sorted by brands and dimensions, in a dry closed place, horizontally in piles at a distance of not less than 1 m from heaters. Slabs on pallets or linings should be stored under an awning protecting them against atmospheric precipitation and sunlight.



### Harmonised standard:

**EN 13164:2012 + A1:2015**

### Declared performance:

Essential characteristics	Test method	Unit of measurement	Properties
Thermal conductivity, $\lambda_D$	EN 12667	W/m <sup>2</sup> K	0.033
Thermal resistance, RD	EN 12667	m <sup>2</sup> *K/W	50 mm - 1.515
Thickness, class T1	EN 823	mm	50
Width	EN 822	mm	580, 600
Length	EN 822	mm	1180, 1200, 1250, 2380, 4000
Reaction to fire, Euroclass	EN 13501-1	-----	Class E
Compressive stress under 10% deformation, CS(10)	EN 826	kPa	≥ 500
Long term water absorption by immersion, WL(T)	EN 12087	%	≤ 0.7
Long term water absorption by diffusion, WD(V)	EN12088	%	≤ 3.0

### Materials range:



Standard slabs of XPS are used for thermal insulation.



Slabs with grooves are used for construction of wall drainage and additional thermal insulation of the foundation.



Slabs with a rough surface are used to increase the adhesion of the facade plaster.



Slope shaped slabs are used to install the slope on flat roofs in order to drain water on the roof to funnels.

### Advantages:



Effective thermal insulation



Chemical resistance



Good for any climate



Easy installation



Biostability



High strength



Durability



Minimal water absorption



Consistent dimensions



Resistant to rodents