



## TECHNONICOL CARBON PROF 300

Extruded polystyrene



### Description:

Enhanced compressive stress performance of the material at deformation makes TECHNOMICOL CARBON PROF 300 the best choice for the most important and complicated projects.

TECHNONICOL CARBON PROF 300 is a thermal insulation material with uniformly distributed closed cells, which does not swell, shrink or absorb water. It is chemically resistant and is not a subject to putrefaction. The high strength of the material allows receiving equal and simultaneously rigid base that essentially increases the durability of the whole thermal insulation system. It contains nanoscale carbon particles, which allow significantly increasing the thermal efficiency of the material.



### Application:

Extruded polystyrene TECHNOMICOL CARBON PROF 300 is a high-performance material widely used in buildings and constructions while arranging the thermal insulation of basements, roofs, floors and facades. Also used in the construction of railways and highways.

### Harmonised standard:

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

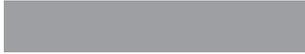
### Storage:

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.

### Declared performance:

Essential characteristics	Test method	Unit of measurement	Properties	
			TECHNONICOL XPS CARBON PROF 300	TECHNONICOL XPS CARBON PROF 300 TB
Thermal conductivity, $\lambda_D$	EN 12667	W/m <sup>2</sup> K	0.034	
Thermal resistance, RD	EN 12667	m <sup>2</sup> *K/W	50 mm - 1.471 60 mm - 1.765 70 mm - 2.059 80 mm - 2.353 100 mm - 2.941	110 mm - 3.235 120 mm - 3.529 130 mm - 3.824 140 mm - 4.118 150 mm - 4.412 160 mm - 4.706 170 mm - 5.000 180 mm - 5.294 190 mm - 5.588 200 mm - 5.882
Thickness, class T1	EN 823	mm	50, 60, 70, 80, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200	
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	≥ 300	
Long term water absorption by immersion, WL(T)	EN 12087	%	≤ 0.7	

Materials range:



Standard slabs of XPS are used for thermal insulation.



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

Examples of use:

