



## TECHNONICOL CARBON ECO

Extruded polystyrene



### Description:

TECHNONICOL CARBON ECO 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.

### Application:

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

### 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:



### Harmonised standard:

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

Essential characteristics	Test method	Unit of measurement	Properties
Thermal conductivity, $\lambda_D$	EN 12667	W/m <sup>2</sup> K	10, 15 mm = 0.035 20, 30, 40 mm = 0.034 50, 60, 80, 100 mm = 0.035
Thermal resistance, RD	EN 12667	m <sup>2</sup> *K/W	10 mm - 0.28 15 mm - 0.40 20 mm - 0.588 30 mm - 0.882 40 mm - 1.176 50 mm - 1.40 60 mm - 1.70 80 mm - 2.25 100 mm - 2.85
Thickness, class T1	EN 823	mm	10, 15, 20, 30, 40, 50, 60, 80, 100
Width	EN 822	mm	580, 600
Length	EN 822	mm	1180, 1200, 2380, 2400, 4000
Reaction to fire, Euroclass	EN 13501-1	-----	Class F
Compressive stress under 10% deformation, CS(10)	EN 826	kPa	≥ 200
Long term water absorption by immersion, WL(T)	EN 12087	%	≤ 0.7
Long term water absorption by diffusion, WD(V)	EN 12088	%	≤ 3.0
Dimensional stability, DS(TH)	EN 1604	%	Relative change of length, width and thickness not exceeding 5% (for thickness 10, 50, 60, 80, 100 mm)

### 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