



## Extruded polystyrene TECHNOMICOL CARBON ECO

### Product description

XPS TECHNOMICOL 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. TECHNOMICOL CARBON ECO contains nanoscale carbon particles, which allow significantly increasing the thermal efficiency of the material.



Can be supplied with flat or L-shaped edges.

### Area of 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

TECHNONICOL XPS slabs should be stored under a shelter in order to protect them against precipitations and sunlight. It could also be stored outdoors, but only in a special package for protection against external atmospheric impacts. The slabs must be stored on pallets, supports or bars. Shelf life if all storage requirements are met: 24 months from the date of production.

### Main characteristics

Properties	Test method	Value
Thermal conductivity $\lambda_D$ , W/m <sup>2</sup> *K	ASTM C177 (EN 12667)	0.028-0.034
Compressive stress at 10% deformation, kPa	ASTM D1621 (EN 826)	≥200
Long term water absorption by immersion WL(T) 0.7, %	ASTM C272 (EN 12087)	≤0.7
Reaction to fire – ignitability, Euroclass	EN ISO 11925-2	F
Length, mm	EN 822	1180-1500 (±8) 1500-4000 (±10)
Width, mm	EN 822	580-650 (±8)
Thickness, mm	EN 823	10-40 (±2) 50-100 (-2; +3)

### Thermal resistance (ASTM C177)

Thickness, mm	10	20	30	40	50	60	70	80	100
$R_D$ , m <sup>2</sup> *K/W	0.294	0.588	0.882	1.176	1.471	1.765	2.059	2.353	2.941