



XPS TECHNICAL CARBON SOLID 500

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EN 13164

Heat insulating material made by extrusion of polystyrene with addition of gaseous pore agent and technological additives.



Product description:

Extruded polystyrene TECHNICAL CARBON SOLID is a heat-insulating material with uniformly distributed closed cells.

XPS TECHNICAL 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.

Scope of application:

XPS TECHNICAL 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.

Main physical and mechanical characteristics:

TECHNICOL XPS	CARBON SOLID 500	
Thickness, mm	50	100
Compressive stress at 10 percent linear deformation, no less than (kPa)	500	
Thermal conductivity: $\lambda_D, W/(m \cdot K)$	0,032	0,034
Thermal resistance: $R_D, m^2 \cdot K/W$	1,56	2,98
Maximum strength for static bending, no less than, (MPa)	0,4 - 0,7	
Water absorption, no more than (% of volume)	0,2	
Rectangular, no more than (mm)	5 mm	
Flatness, no more than (mm)	<1500 – 6 mm ≥1500 – 35 mm	
Reaction to fire, Euroclass	E – 2d class	
Temperature range for normal operation, °C	from -70 to +75	

The geometric parameters:

Length	mm	1180 (±8 mm), 2380 (±10 mm)	1250 (±8 mm), 2400 (±10 mm)
Width	mm	580 (±8 mm)	600 (±8 mm)
Thickness	mm	50, 100 (-2 mm; +3 mm)	50, 100 (-2 mm; +3 mm)