

XPS CARBON

TS 2244-047-17925162-2006



Application areas

XPS CARBON 30-280 STANDARD is designed for heat insulation in inversion, multipurpose and conventional (with underlayment) roofing structures, in a plaster facade system (with splittings from TECHNINICOL stonewool), internal insulation of walls, loggias, and balconies.

XPS CARBON 35-300 is designed for heat insulation of basements and cellars, heated floors, floors on the ground, insulation of cold bridges in panel construction.

XPS CARBON 45-500 is designed for heat insulation of floors of refrigerating chambers, ice arenas, multipurpose roofs, highways and railways.

Description of material

XPS CARBON extruded polystyrene foam is a heat-insulating material with uniformly distributed closed cells. XPS CARBON does not absorb water, does not bulk up or shrink, is chemically stable, and does not decay. Its high strength allows for an even and simultaneously rigid base that essentially increases the service life of the entire heat insulating system.

Storage

XPS CARBON slabs 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.

Multifunction heat insulating material

Basic physical and mechanical properties

Property	XPS CARBON 35-300	XPS CARBON 30-280 STANDARD	XPS CARBON 45-500	XPS CARBON DRAINAGE	XPS CARBON FACADE	XPS CARBON KLIN 1,7	XPS CARBON KLIN 3,4
Compression strength at 10% linear deformation, kPa, not less than	300	280	500	250	250	250	250
Heat conductivity at (25±5)°C, W/(m·K), not less than	0,028	0,028	0,031	0,029	0,029	0,029	0,029
Heat conductivity under operating conditions A and B, W/(m·K), not less than	0,030	0,030	0,032	0,031	0,031	0,031	0,031
Flammability group	G3	G4	G4	G4	G3	G3	G3
Water absorption, %, no more than	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Vapor permeability, mg/(m·h·Pa)	0,010	0,011	0,005	0,010	0,010	0,010	0,010
Bending strength, MPa, not less than	0,40	0,40	0,45	0,35	0,35	0,35	0,35
Operating temperature, °K	from -70 up to +75			from -70 up to +75			
Dimensions							
Thickness, mm	40, 50, 60, 80, 100	40, 50, 60, 80, 100, 120	40, 50, 60, 80, 100	40, 50, 60	60	30, 40, 50, 60, 80, 100	from 10/30 up to 30/50
Length, mm	1180, 2380	1180, 2380	1180, 4000, 4500	1180	1180	1200	600
Width, mm	580	580	580	580	580	600	1200

* In coordination with the customer, manufacturing of products with other dimensions is permitted.