



GENERAL XPS 300 GRAPHITE

GENERAL XPS 300 GRAPHITE is a thermal insulation board, made of extruded polystyrene, to prevent the formation of thermal bridges.

Areas of use:

Thermal insulation of foundations and basement walls	Thermal insulation of interior and exterior floors
Thermal insulation of facades	Thermal insulation of internal walls
Thermal insulation of roofs and terraces	Thermal insulation of columns, beams and belts
Sandwich panels manufacturing	Construction of cold storage rooms





PRODUCT PERFORMANCE CRITERIA

Criterii deperformanta	Documente de referinta	UM	Nivel de referinta	Performante produs GENERAL XPS 300 GRAFITAT	
					Valoare/U M
Thermal resistance	SR EN 12667:2002	m ² K/ W	Min. 0,65 Max. 5,17 (depending on thickness)	G=20mm	0.65
				G=30mm	0.96
				G=40mm	1.20
				G=50mm	1.45
				G=60mm	1.85
				G=70mm	2.05
				G=80mm	2.55
				G=100mm	3.20
				G=120mm	3.85
				G=140mm	4.50
				G=150mm	4.85
				G=160mm	5.09
Thermal conductivity (10 °C)	SR EN 12667:2002	W/mk	Min. 0.027 Max. 0,036 (depending on thickness)	G=20mm	0.030
				G=30mm	0.031
				G=40mm	0.033
				G=50mm	0.034
				G=60mm	0.032
				G=70mm	0.034
				G=80mm	0.031
				G=100mm	0.031
				G=120mm	0.031
				G=140mm	0.031
				G=150mm	0.031
				G=160mm	0.031
Compressive strength, δ10	SR EN 826:2013	kPa	For class CS(10/Y)300:≥300		334.6
Tensile strength perpendicular to the faces	SR EN 1607:2013	%	For class TR200:≥200		320
Long term water absorption through total immersion	SR EN 12087:2013	%	For class WL(T)0,7 ≤0,7		0.165
Water vapor transmission (μ)	SR EN 12086:2013	-	Min. MU 200		233.3
Deformation under specified conditions of compressive loading and temperature	SR EN 1605:2013	%	For class DLT(1) ≤5		≤ 0,19
Dimensional stability -length variation -width variation -thickness variation	SR EN 1604:2013	%	For class DS(70,90) ≤ ± 5		≤ 0.18 ≤ 0.14 ≤ 0.37
Reaction to fire class	SREN13501-1:2007 +A1:2009	Class	Euroclasa		F





CERTIFICATION:

The extruded polystyrene insulation panels were tested in accordance with the provisions of the (SR)EN 13164:2012+A1:2015 standard, tests which showed that the performances comply with the reference.

The CE conformity marking is applied to the product label and accompanying documents.

TEHNOLOGICAL PRODUCT:

The manufacture of GENERAL XPS GRAPHITE panels is based on a physical expansion of the melted plastic material in the extruder, where the temperature, the amount of melt and expanding agents, D.M.E. are continuously controlled.

The closed cell structure of the panels obtained through this technology and additives introduced into the mixture with the polyester determine superior and long-lasting technical characteristics, namely:

- Superior mechanical resistance
- polystyrene determines superior and long-lasting technical characteristics, namely:
- Reduced thermal conductivity
- Homogeneous density
- High resistance to moisture
- Resistance to vapor diffusion
- Elasticity
- Resistance to freeze-thaw cycles
- Lack of capillarity
- Low specific weight
- Easy cutting with common tools
- Increased fire resistance

QUALITY: conformed SR EN 13164+A1:2015

PACKING:

GENERAL XPS GRAPHITE polystyrene panels are packaged in packages consisting of a number of panels, depending on the thickness of the panel. The packaging is made in heat-shrinkable foil.

MARKING:

GENERAL XPS GRAPHITE polystyrene panels are marked according to SR EN 13164:2012+A1:2015, by labeling the package with the following data:

- Product name, manufacturer's name
- Place, date of manufacture
- Thermal conductivity
- Identification code according to SR EN 13164+A1:2015
- CE marking

TRANSPORT:

GENERAL XPS GRAPHITE polystyrene panels can be transported with clean, covered means of transport that ensure the integrity of the load during transport. It is not allowed to transport extruded polystyrene panels together with other materials that may damage them (thinners, fuels, paints, materials that may move during transport). The load will not exceed the dimensions of the means of transport. Smoking and working with open fire are not allowed in the trailer loaded with extruded polystyrene panels.



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**GUARANTEE:**

GENERAL XPS GRAFITAT polystyrene panels are guaranteed for one year from the date of manufacture, provided that the transport and storage conditions are respected.

NOTES:

1. The fire-resistant and compression-resistant characteristics are relevant according to the declared standards after the maturation period has passed.
2. GENERAL XPS GRAPHITE extruded polystyrene panels are not biodegradable and do not pose a danger to water and soil.
3. Products can be recycled but should not be mixed with other polymers
4. The panels are stored in their original packaging, in clean, ventilated spaces, away from direct sources of heat and fire, corrosive substances and hard, sharp objects that may affect the product. If the product is stored outdoors, it can only be packaged with UV protection foil.
5. DO NOT USE open flame when using GENERAL XPS GRAPHITED panels.
6. IMPORTANT: When installing GENERAL XPS GRAFITAT panels (after laying), their protection against the influence of external factors will be ensured. Excessive heating through direct exposure to the sun can cause deformation of the thermal insulation panels. We recommend immediate application of the other components of the system.

