Extruded Polystyrene

GIAS GRAFIT XPS

DECLARATION OF PERFORMANCE

No. 28CPR22112018

Rev.3 / 2023

1. Unique identification code of the product-type: **Extruded polystyrene GIAS XPS 300 E**

2. Product identification **: XPS-EN13164-T1-DS(70,90)-CS(10/Y)300-CC(1,5/1,0/50)75-WL(T)0,7-TR200-MU200-FTCI2**

3. Intended use or uses: Thermal insulation in the construction industry

4. Manufacturer's name and contact address

SC BRIOTHERMXPS SRL

Registered office: Soseaua de Centura, Nr 6, Stefanestii de Jos , Jud. Ilfov 077175, Romania

Production facility: Parc Industrial Mija, Jud. Dambovita,Com . IL Caragiale , Sos.Ploiesti – Targoviste 137255

5. The name and contact of the authorized representative: Not the chase

6. Performance stability assessment and verification system or systems:

System 3

7. Harmonised standard: **EN 13164:2012+A1:2015**

1. No. 1803

Institutul de Cercetari pentru Echipamente si Tehnologii si Constructii " ICECON " SA

Address: Sos.Pantelimon nr.266 , Sector 2 , Bucuresti

Tel: (004)021.255.07.34 Fax:(004)021.255.14.20 E-mail: icecon@icecon.ro

2. No. 1841

Institutul National de Cercetare-Dezvoltare in Constructii, Urbanism si dezvoltare Teritoriala Durabila URBAN INCERC,

Address: Soseaua Pantelimon, nr 266, 021652, Sector 2, Bucuresti/oddział: CaleaFloresti nr 117, 400524 Cluj Napoca

3. No. 1396

Fires

Adress: Osloboditelov Street, no. 282, 059 35 Batizovce, Slovakia

8. Declared performance

Basic characteristics		Performance	Harmonised Standard
Thermal resistance	Thermal resistance	See Table 1 below	**SR EN 13164+A1:2015**
	Thermal conductivity coefficient	See Table 1 below	
	Thickness	D_N — 20,30,40[mm], T1 (-2 mm, +2 mm) D_N — 50,60,70,80,100,120[mm], T1 (-2 mm, +3 mm) D_N-140,150,160 [mm] T1 (-2mm, +6mm)	
Reaction to fire	Reaction to fire class (EUROCLASS)	E	
Stability of reaction to fire as a function of heat, weather conditions, ageing/degradation	Stability of properties	Does not decrease over time	
Stability of thermal resistance as a function of heat, weather conditions, ageing/degradation	Thermal resistance R_D and thermal conductivity coefficient λ_D	Does not change over time	
	Stability of properties Dimensional stability under certain temperature and humidity conditions	DS (70.90) (≤ 5%)	
	Freezing and thawing resistance	FTCI2 (WV ≤ 1%)	
Compression strength	Compression strength	CS(10/Y)300 (≥ 300 kPa)	
Bending/tensile strength	Face surface perpendicular tensile strength	TR200 (≥ 200 kPa)	
Stability of compression strength as a function of ageing/degradation	Compression creeping	300 kPa – CC(1.5/1.0/50)75	
Water permeability	Long-term water absorption through complete immersion	WL(T)0.7 (≤ 0.7%)	
Steam permeability	Steam penetration	MU 200	
Release of hazardous substances into the internal environment	Emissions of hazardous substances	No hazardous substances	

Table 1

Thermal values

Thickness [mm]	Thermal conductivity [W/mK] λ_d	Thermal resistance [m² K/W] R_d
20	0,030	0,65
30	0,032	0,90
40	0,033	1,20
50	0,034	1,45
60	0,032	1,85
70	0,034	2,05
80	0,031	2,55
100	0,031	3,20
120	0,031	3,85
140	0,031	4,50
150	0,031	4,85
160	0.031	5,00

9. The performance of the product defined above is in accordance with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer referred to above.

Signed on behalf of the manufacturer by:

Head of Quality Control Department

Eng. Rotariu Vasile

Bucharest 11.01.2023