

**Extruded Polystyrene**



## DECLARATION OF PERFORMANCE

No. 28CPR22112018

1. Unique identification code of the product-type: **Extruded polystyrene GIAS XPS E 300**
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](mailto: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/oddzial: Calea Floresti nr 117, 400524 Cluj Napoca

3. No. 1396

### Fires

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

4. No. 3430

### AXACERT - LABORATOR DE ANALIZE SI INCERCARI PRODUSE PENTRU CONSTRUCTII GRAD I

Adress: Moara Vlasiei, str. Agromec 3, jud. Ilfov.

## 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 <sub>N</sub> – 20,30,40[mm], T1 (-2 mm, +2 mm) D <sub>N</sub> – 50,60,70,80,100,120[mm], T1 (-2 mm, +3 mm) D <sub>N</sub> -140,150 [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 <sub>D</sub> and thermal conductivity coefficient λ <sub>D</sub>	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**

<b>Thickness [mm]</b>	<b>Thermal conductivity [W/mK]</b>	<b>Thermal resistance [m<sup>2</sup> K/W]</b>
<b>20</b>	<b>0,030</b>	<b>0,65</b>
<b>30</b>	<b>0,032</b>	<b>0,90</b>
<b>40</b>	<b>0,033</b>	<b>1,20</b>
<b>50</b>	<b>0,034</b>	<b>1,45</b>
<b>60</b>	<b>0,032</b>	<b>1,85</b>
<b>70</b>	<b>0,034</b>	<b>2,05</b>
<b>80</b>	<b>0,031</b>	<b>2,55</b>
<b>100</b>	<b>0,031</b>	<b>3,20</b>
<b>120</b>	<b>0,031</b>	<b>3,85</b>
<b>140</b>	<b>0,031</b>	<b>4,50</b>
<b>150</b>	<b>0,031</b>	<b>4,85</b>

**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 08.11.2021**

