

Extruded Polystyrene



DECLARATION OF PERFORMANCE

No. 24CPR22112018

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

Mailing address: 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 13164:212+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

8. Declared performance

| Basic characteristics | | Performance |
|---|--|---|
| Thermal resistance | Thermal resistance | See Table 1 below |
| | Thermal conductivity coefficient | See Table 1 below |
| | Thickness | $D_N - 20,30,40[\text{mm}]$, $T1 (-2 \text{ mm}, +2 \text{ mm})$ $D_N - 50,60,70,80,100,120[\text{mm}]$, $T1 (-2 \text{ mm}, +3 \text{ mm})$ |
| Reaction to fire | Reaction to fire class (EUROCLASS) | F |
| 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) ($\leq 5\%$) |
| | Freezing and thawing resistance | FTCI2 (WV $\leq 1\%$) |
| Compression strength | Compression strength | CS(10/Y)300 ($\geq 300 \text{ kPa}$) |

| | | |
|---|---|----------------------------|
| 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 ($\leq 0.7\%$) |
| Steam permeability | Steam penetration | MU 200 |
| Release of hazardous substances into the internal environment | Emissions of hazardous substances | No hazardous substances |
| Continuous combustion in the form of glow | Continuous combustion in the form of glow | NPD |

Table 1

Thermal values

| Thickness [mm] | Thermal conductivity [W/mK] | Thermal resistance [m ² K/W] |
|----------------|-----------------------------|---|
| 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 |

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. RotariuVasile

Bucharest 30.04.2019

