

# ECOKARTA

## GIAS XPS 300

### Extruded polystyrene

PRODUCER

BRIOTHERMXPS SRL

ADRESS

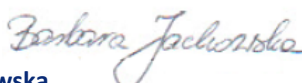
0777175 Loc. Stefanestii de jos,  
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Oddział w Polsce  
Briothermxps SRL Sp. z o.o. oddział  
w Polsce  
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**briotherm** XPS  
ekologiczna izolacja nowej generacji

Development date: 08.10.2021

Development: ECOSQUAD

Signature:



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Stamp:

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## ABOUT PRODUCT

The proven effectiveness of polystyrene as an element of a thermal insulation system, resulting from its excellent properties, energy-saving production and long, over 25-year service life, speak for polystyrene as a cost-effective solution for thermal insulation. Our innovative approach and the goal we have set for ourselves: the production of thermal insulation systems comparable to those used in passive houses - made us use graphite in our products, which, thanks to its unique properties, is an ideal material for insulation.

Briothermxps uses GIAS GRAFIT XPS technology because it offers the highest quality in thermal insulation applications for buildings, underground facilities, floors, facades and interior walls, roofs, terraces and special-purpose facilities (e.g. cold stores).

Our products can be found in construction wholesalers, as well as in stores belonging to our network of distributors, which was established so that customers in each region can get professional advice from us.



## ABOUT COMPANY

Briotherm - "energy stays where it is needed"

We are a Romanian company specializing in the production of thermal insulation. Our goal is to sell high-quality products that provide customers with thermal comfort and excellent indoor conditions regardless of the season, and at the same time protect against the negative influence of external factors, such as moisture, wind, noise, etc.

Our products can be found in all major DIY stores and wholesalers, as well as in stores belonging to our network of distributors, which was established so that customers in every region can get professional advice from us.

Our position as a sales leader in Romania and the most important exporter to countries such as Moldova, Belgium, Poland, Serbia, France, Germany, Bulgaria, Czech Republic, Slovakia, Greece, as well as to other European countries, is the best proof of the quality of GIAS XPS extruded polystyrene boards by Briotherm.

## LEED data sheet

LEED v4 certification - verification of product requirements		
Category:	Credit:	Impact:
Integrative process		Not applicable to this product
Location and Transportation		Not applicable to this product
Sustainable Sites		Not applicable to this product
Water efficiency		Not applicable to this product
Energy and Atmosphere		
	EA Credit Optimize Energy Performance	Positive - improving energy efficiency
Materials and Resources		
	MR Credit Building Product Disclosure and Optimization—Sourcing of Raw Materials	Positive – 100% comes from recycling
	MR Credit Building Product Disclosure and Optimization—Sourcing of Raw Materials	Positive conditionally - see the location and place where raw materials are obtained.
Indoor Environmental Quality		Not applicable to this product
Innovation		Positive conditionally
Regional Priority		Not applicable to this product

## BREEAM data sheet

<b>BREEAM International New Construction 2016 certification - verification of product requirements</b>		
<b>Category:</b>	<b>Credit:</b>	<b>Impact:</b>
<b>Management</b>		Not applicable to this product
<b>Health and wellbeing</b>		Not applicable to this product
<b>Energy</b>		
	<b>Ene01 Reduction of energy use and carbon emissions</b>	<b>Positive - improving energy efficiency</b>
<b>Transport</b>		Not applicable to this product
<b>Water</b>		Not applicable to this product
<b>Materials</b>		
	<b>Mat 03 Responsible sourcing of construction products</b>	<b>Positive – ISO14001</b>
<b>Waste</b>		<b>Positive - the possibility of collecting the waste for recycling</b>
<b>Landuse and ecology</b>		Not applicable to this product
<b>Pollution</b>		Not applicable to this product
<b>Innovation</b>		<b>Positive</b>

## LEED

LEED or Leadership in Energy and Environmental Design was established in the United States. It is currently one of the most widely used multi-criteria building assessment systems in the world. Certification is carried out in 120 countries and covers all types of buildings - from commercial to residential. Green Building Council organizations are being established in newer and newer countries. In Europe, as many as 25 countries belong to the World Green Building Council.

The LEED system was created in 1998 by the USGBC - U.S. Green Building Council, a non-profit organization that maintains the standards of green building.

The operator of the LEED system granting the certificate is the USGBC.

The certificate is awarded on four levels, depending on the number of points obtained:



The categories assessed during the certification of the building with the LEED multi-criteria assessment system are:



The versions currently available on the market are LEED v4 and LEED v4.1, as well as projects in the end of the LEED v3 (2009) version. A separate category is the LEED EBOM certification - certification for existing buildings. The certificate is awarded only to buildings, however, the selection of appropriate materials and products has a significant impact on obtaining points for each category. A single product cannot generate individual points because the recognition of products in the LEED system is in the aggregate cost of all materials in the project, by weight or volume, depending on the product.

- ✓ Location and transport (LT)
- ✓ Sustainable sites (SS)
- ✓ Water efficiency (WE)
- ✓ Energy and atmosphere (EA)
- ✓ Materials and resource (MR)
- ✓ Indoor environmental Quality (EQ)
- ✓ Innovation (IN)
- ✓ Regional priority (RP)

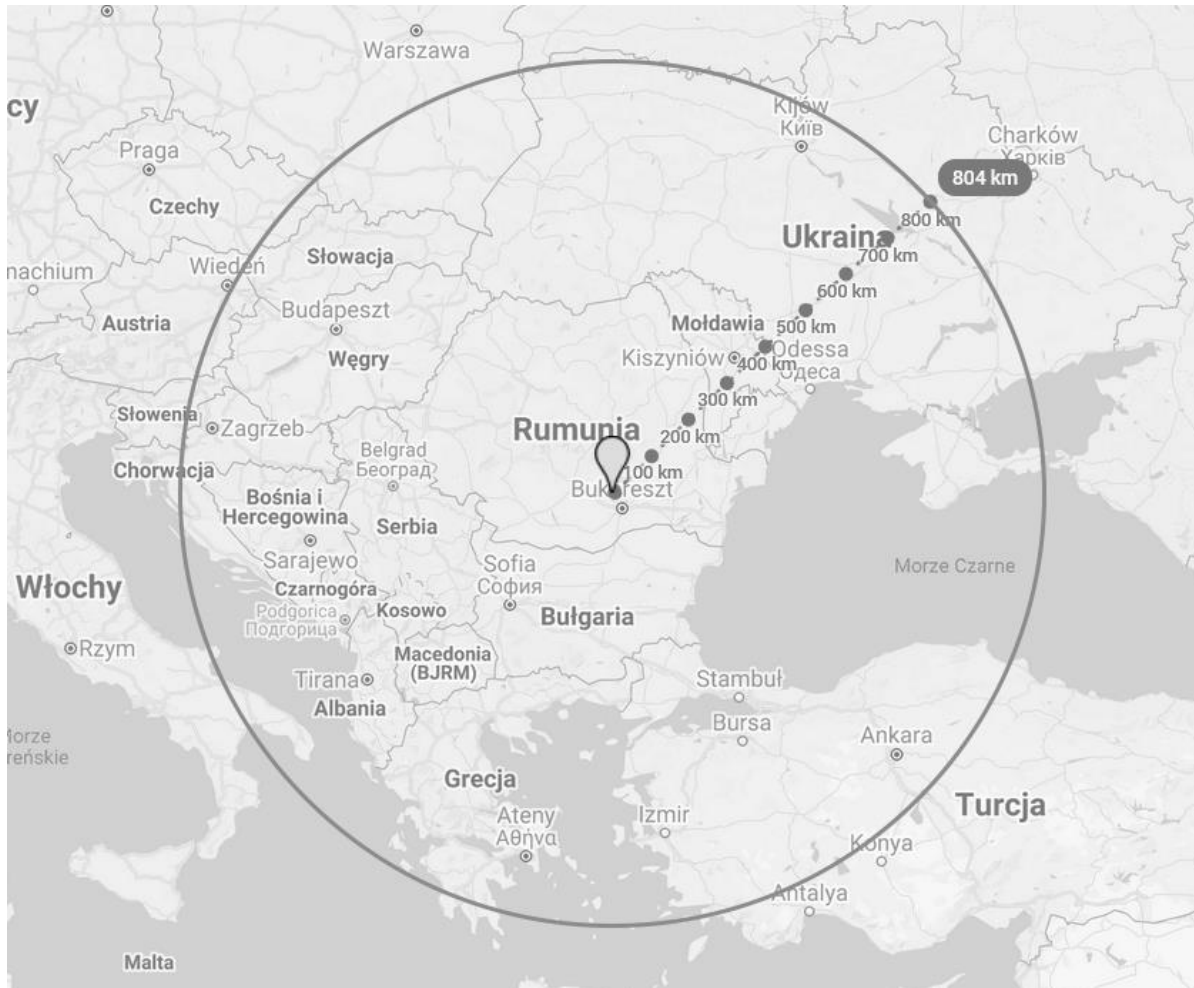
## LEED CERTIFICATION

## MANUFACTURING

Parc Industrial Mija, Jud. Dambovită

Com . IL Caragiale , Sos.Ploiesti – Targoviste 137255

Rumunia



As required by LEED points by the use of regional products can be obtained when at least 10% of the total cost of the materials used in the design are the materials in the region, which is obtained, produced or recovered in a radius of 500 miles (approx. 804 km) from the construction. It is possible to obtain: 1 point - 10% and 2 points - 20%.

The LEED v4 points can be multiplied x2 if local materials are sourced, manufactured or extracted within 100 miles (160 km).

## COMPOSITION OF THE PRODUCT

General purpose polystyrene and polystyrene recyclates / granules	– 98-98,85%
Crystalline talc	– 0,15-0,50%
Graphite	– 1-1,5%

## CONTENT OF RECYCLED MATERIALS

**In product – 100% (by weight)**

**Post-consumer – 100% (by weight)**

Recycled material has been determined in accordance with the definition of ISO 14021.

The content of recycled material is given in%.

In accordance with the requirements of LEED NC and LEED CS is possible to obtain 1 or 2 points in the credit MR4 if the contents of products derived from recycled post-consumer and pre-consumer is 10% or 20% of the total cost of the materials used in the project.

## CONTENT OF MATERIALS THAT CAN BE RECYCLED

**Content in the product – 100%**

The percentage of material suitable for recycling in the finished product. The product can be recycled in its entirety or after preparation.

## CONTENT OF DANGEROUS SUBSTANCE

**LEED requirements – YES**

- VOC (LZO)	not contain
- formaldehyde:	not contain
- phenols	not contain

The product does not contain CFC (chlorofluorocarbon) and HCFC blowing agents (hydrochlorofluorocarbons) or HFCs (hydrofluorocarbons), thanks to which it contributes to reduce emissions of harmful greenhouse gases.

## ENERGY AND ATMOSPHERE

The product contributes to obtaining points in LEED v4 certification in the field of EA Credit: Optimize Energy Performance by improving the energy efficiency of the building.

## INDOOR AIR QUALITY

The product has an impact on obtaining points in the LEED v2009 NC and LEED v2009 CS certification in the field of IEQ 4.2, IEQ 4.3 and indirectly IEQ 4.1 as well as in obtaining points in the LEED v4 certification in the field of EQ Credit: Low-Emitting Materials.

## CERTIFICATES HOLDING BY THE PRODUCT AND FULFILLED STANDARDS

- CE mark
- DoP
- Fire classification
- Factory production control
- REACH

## CERTIFICATES HOLDING BY THE COMPANY

- ISO14001
- ISO9001
- ISO18001



The product has been verified for LEED and sustainable development.



## BREEAM

**BREEAM (BRE Environmental Assessment Method)** is currently one of the most widely used methods of assessing buildings in terms of their environmental performance in Europe. It was established in 1990 by the BRE (Building Research Establishment) organization. This organization was established in 1972, but the BREEAM certification system itself was created much later - in 1990.

There are five levels of certification in BREEAM certification:

> 30% Pass	★ ★ ☆ ☆ ☆ ☆
> 45% Good	★ ★ ★ ☆ ☆ ☆
>55% Very Good	★ ★ ★ ★ ☆ ☆
>70% Excellent	★ ★ ★ ★ ★ ☆
>85% Outstanding	★ ★ ★ ★ ★ ★

The categories assessed during the certification of the building with the BREEAM multi-criteria assessment system are:

- ✓ Transport (Tra)
- ✓ Management (Man)
- ✓ Health and wellbeing (Hea)
- ✓ Energy (Ene)
- ✓ Land use and ecology (LE)
- ✓ Materials (Mat)
- ✓ Water (Wat)
- ✓ Waste (Wst)
- ✓ Pollution (Pol)



The versions currently operating on the market are BREEAM International 2016 and also BREEAM International 2013, which are currently under construction. A separate category is BREEAM In-Use - certification of existing buildings. The certificate is awarded only to buildings, however, the selection of appropriate materials and products has a significant impact on obtaining points for each category.

A single product cannot generate individual points because the recognition of products in the BREEAM system occurs in aggregate terms of all materials in the project, by weight or volume, depending on the product.

## BREEAM CERTIFICATION

### MANUFACTURING

In accordance with the requirements of the BREEAM International New Construction 2016 certification, you can get points in the Man03 category - Transport monitoring. This category requires a record of cars arriving and departing from the construction site, their types, fuel consumption and kilometers traveled by them. The product has an indirect impact on this category.

#### PLACE MANUFACTURING:

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Rumunia

Transport monitoring performed during the investment is then converted into CO2 equivalent, which was produced during the transport of materials from and to the construction site.

### CONTENT OF DANGEROUS SUBSTANCE

#### BREEAM requirements – YES

- VOC (LZO)	not contain
- formaldehyde:	not contain
- phenols	not contain

The product does not contain CFC (chlorofluorocarbon) and HCFC blowing agents (hydrochlorofluorocarbons) or HFCs (hydrofluorocarbons), thanks to which it contributes to reduce emissions of harmful greenhouse gases.

### CERTIFICATES HOLDING BY THE PRODUCT AND FULFILLED STANDARDS

- CE mark
- DoP
- Fire classification
- Factory production control
- REACH

### CERTIFICATES HOLDING BY THE COMPANY

- ISO14001
- ISO9001
- ISO18001

## ENERGY

The product can contribute to obtaining additional credit points Ene01 - Reduction of energy consumption and carbon dioxide emissions by improving the energy efficiency of the building.

## INNOVATION

The product can contribute to additional points for innovation by influencing the Mat03 category



The product has been verified for BREEAM and sustainable development.

## OTHER INFORMATION ABOUT THE COMPANY'S SUSTAINABILITY

### ORGANIZATIONAL PARTNERSHIP

The manufacturer belongs to the Polish Association of Styrofoam Producers.

### LIST OF QUALIFIED SUPPLIERS

The producer has a qualified list of suppliers.

### RESPONSIBLE RECOVERY OF RAW MATERIALS

The producer acquires raw materials in a sustainable and responsible manner.

The card is not an official document in the sense of the LEED, BREEAM multi-criteria systems or any other assessment system. The information contained is only to be the basis for selecting a product as an investment component applying for the certificate. The card is prepared on the basis of information provided by the card owner. Data should be verified before being used in the certification process. The data contained in the document may differ from the current in the event of changes to the version of the certification systems or introducing significant changes to the product.