




# Bakūžė LT



STRUCTURAL  
INSULATED  
PANEL ONO  
MANUFACTURING



SIP HOUSES  
CONSTRUCTION



CONVENTIONAL  
FRAME HOUSE  
CONSTRUCTION

ALL JOBS, NEEDED  
TO COMPLETELY  
FINISH CUSTOMERS  
HOUSE

RESPONSIBLE  
PARTNER  
FOR



# Who we are?

## Short Description

- Bakūžė LT in house construction business is for 6 years. During this period of intensive development, it has achieved significant results in their struggle for the customer's recognition in Lithuania and abroad;
- Bakūžė LT is always trying to do its best offering best solutions to its customers by implementing newest insulation materials and innovations;
- The company has its own production plant, where production technologies are developed and SIP panels are produced for own customers and other companies as well;
- Bakūžė LT particularly values its reputation, carefully implements the commitments and seeks to remain a reliable partner.

## Activities

- Structural Insulated Panel ONO manufacturing;
- SIP houses construction;
- Conventional frame house construction;
- Additional: all jobs, needed to completely finish customers house.

## Operating regions

- Europe



# What is SIP?



Structural Insulated Panel (SIP) is composite building material consisting of an insulating layer, sandwiched between two layers of structural board (most common OSB).

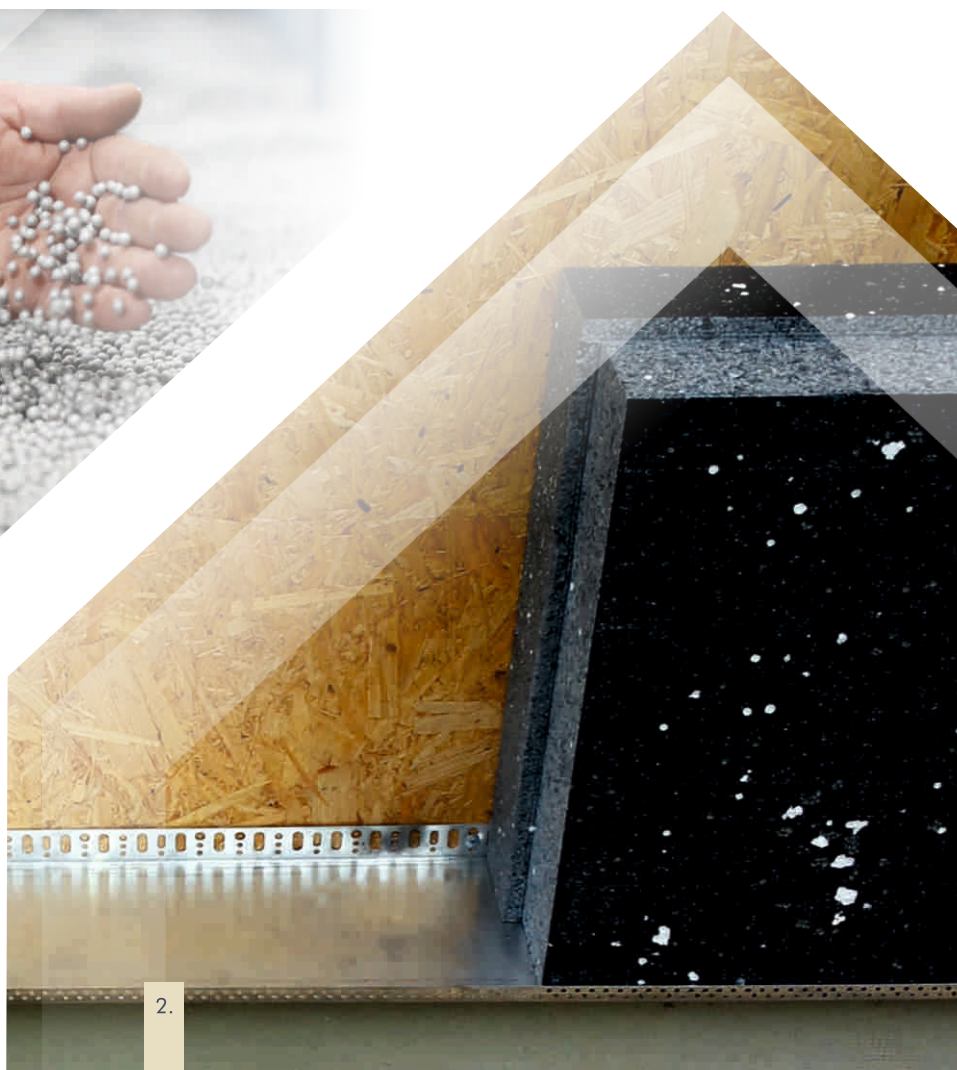


Structural insulated panels consist of three components:

- two facings (OSB);
- an inner core of insulating material;
- the adhesive to bond the facings to the core.



Bakūžė LT panels insulated using Neopor, which is superior to its predecessor - conventional EPS, and has 20% better thermal insulation (ONO = OSB-Neopor-OSB).







## Insulating material - Neopor

Neopor is a graphite-enhanced expandable polystyrene (EPS) insulation material that uses infrared absorbers and infrared reflectors, and that makes it possible to greatly reduce thermal conductivity and raise insulation effect up to 20 percent higher than with conventional EPS panels.

## Why Neopor?

The same result – thin walls;

- To achieve the same thermo insulating effect, because of thermo insulation advantages, the walls are at least 20% thinner.

For us - it is easier to work with, for customer – high quality house;

- During manufacturing process, we use only high quality Neopor, manufactured from materials, imported exclusively from German company BASF.

Neopor – is Eco friendly material.

- Neopor is a long lasting, moisture, decay resistant material. It does not emit any gasses. Customers can be sure that this material will never affect his health;
- Because we need a smaller amount of thermo insulating material to build a house, by using Neopor, we also reduce manufacturing, transportation costs, and most important – CO emissions

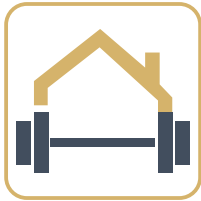
## OSB - high quality wood substitute

- Oriented strand board (OSB) or SmartPly - Designed from the demand to find good quality wood structural elements, while retaining all of the best timber qualities and improving resistance to bending, the influence of moisture and final product price. Those features mainly influence this product's popularity across the world and global application in construction.

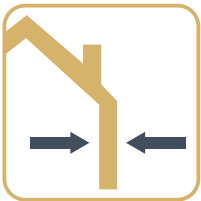
## Structure of glued timber

- Structural elements are made from glued timber because of its strength, resistance to season changes and moisture.

# Benefits of our technology



STRONG



THIN



ANY DECORATION



FAST

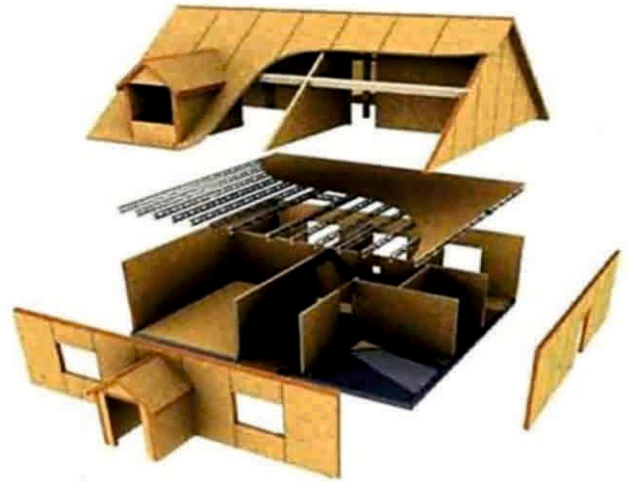
- 20% better thermal insulation for the same width of walls;
- Thanks to the thinner external ONO walls, customer gets up to 10% more space compared with analogous log or brick house;
- ONO construction may outperform 4 times conventional stick framed due to the standardized and all-in-one nature of SIPs constructing, ONO panels will result in a tighter building envelope;
- House structure will be ready for further procedures only after 6-10 days from the start of construction;
- There is no need for heavy machinery at the building site;
- Jobs are almost resistant to meteorological impact;
- ONO house construction is 20-50 % cheaper than the analogical brick house;
- ONO house is much lighter, so foundation is simpler and also cheaper;
- SIP house requires the same care as the brick building;
- There are no limitations on exterior decoration materials.





# Steps of construction

- Architectural design:
  - You choose one of our offered standard projects;
  - You bring your own project (if needed, our experienced architects will adjust your project to the ONO technology);
  - You just give us an idea and our architect will draw your unique house project.
- Within several days all panels are manufactured according the construction plan;
- All manufactured SIPs and joinery elements are brought to construction site and within several days the whole building is mounted;
- According to agreement, further internal and external decoration work may be proceeded.





# Why Bakūžē LT?



- We are trying to be ahead by implementing newest technologies and innovations in order to offer our customers most effective solutions;
- Bakūžē LT focuses primarily on a high quality product and best service to our customer;
- We have our own manufacturing plant. We control all manufacturing processes by ourselves, so we guarantee, that the quality of the product will be the best possible.





## References

Please contact us, and we will be glad to show you our already completed houses. You will be able to assess our quality and to hear feedback from our customers.



**UAB „BAKŪŽĖ LT“**  
Jonavos str. 260  
LT-44131 Kaunas  
LITHUANIA

+370 630 00298  
+370 606 04400

[info@bakuzelt.com](mailto:info@bakuzelt.com)

[www.bakuzelt.com](http://www.bakuzelt.com)