

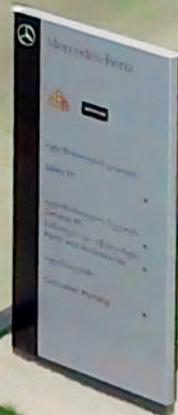
პანექსი  PANEX



**Build Fast, Smart & Green  
with Georgian-Made Excellence**



# Mercedes Benz Dealership Tbilisi



# Why Polyurethane Sandwich Panels?

## Reduce Construction Time by Up to 10x

Buildings made with Panex polyurethane sandwich panels can be assembled **10 times faster** than those using traditional materials like brick or concrete. Accelerate your project timelines without compromising quality!

## 50+ Years of Unmatched Energy Efficiency

Backed by **PU Europe Association** research, our polyurethane foam maintains exceptional thermal performance over decades. Even after **33 years** in use, its thermal conductivity remains stable at just **0.022 W/(m·K)** – ensuring long-term savings and sustainability.

## Timeless Aesthetics, Customized for You

Panex sandwich panels are precision engineered to your specifications, with no need for additional interior or exterior finishing. Choose from an **extensive color palette** to bring even the most sophisticated architectural visions to life – straight from the factory to your site.

## Secret Fix Lock

Add modern appearance to your building's façade with the **Secret Fix Lock** – the fastening system that combines sleek design with superior performance. No visible fasteners mean a clean, seamless look that enhances the aesthetic appeal of any industrial or commercial building. **Enhanced Durability** – with no protruding elements, corrosion and contamination's risk is significantly reduced, as the lock is shielded from moisture and harsh environmental factors. **The smooth, flush surface** prevents dirt buildup and minimizes wear, ensuring long-lasting performance with minimal upkeep.



U-Value 0,022 W/(m·K)



Fire Resistance B2



Saves up to 162 Kw\*h per 1 sq. m annually



Waterproof



Cost Savings on Transportation



Reduced Foundation Costs



Maximized Usable Space

# Why Panex?

## Build Fast, Smart & Green with Georgian-Made Excellence

Choose Panex sandwich panels – **proudly manufactured in Georgia**, just 20 km from Tbilisi. Produced on a fully automated line with cutting-edge Korean and Italian equipment, our panels combine **local precision** with **global innovation** – delivering speed, sustainability, and superior quality for your projects.

11 years

In business

20 km

South of Tbilisi

2,5 mln sq. m

Continuous automatic line capacity

100%

Italian and Korean equipment



# About Panex



**4500 m<sup>2</sup>**

**manufacturing area**

**50**

**employees**

**21%**

**manufacture growth 2024**

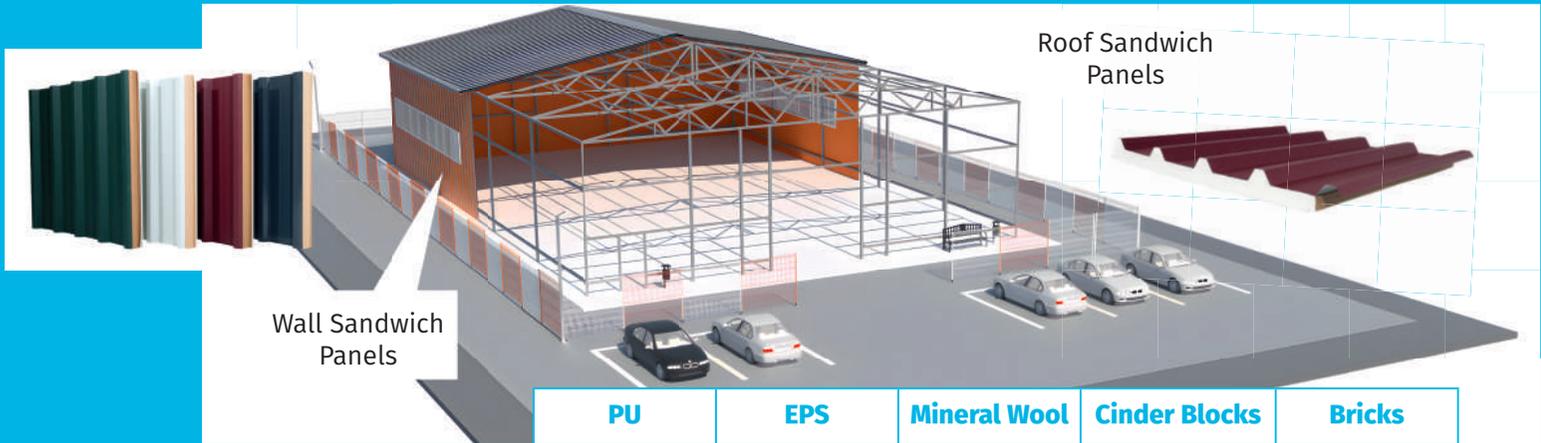
**5**

**export countries**





# Polyurethane Sandwich Panels for your Warehouses, Cold Rooms, Industrial Buildings, etc.



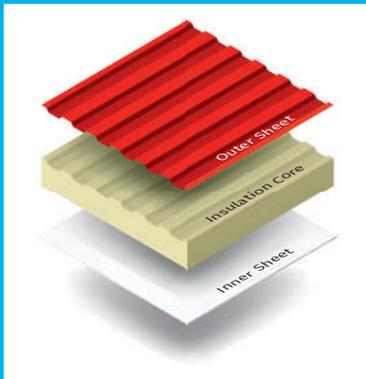
	PU	EPS	Mineral Wool	Cinder Blocks	Bricks
Thermal conductivity	0.022	0.038-0,052	0.041	0.160	0.370
Thickness, cm, to retain the needed temperature on the same level	10	16	26.4	73	168
Volume of materials needed for a 10 sq. m wall, in m <sup>3</sup>	1.0	1.6	2.6	7.3	16.8
10 sq. m wall weight, in kg	124	161	382	2 920	20 160

With sandwich panels metal thickness 0.04 cm, polyurethane density 42 kg/m<sup>3</sup>, mineral wool density 115 kg/m<sup>3</sup>, polystyrene foam density 20 kg/m<sup>3</sup>



# Technical Facts About Sandwich Panels

Sandwich panels consist of three layers. Both sides are covered with galvanized and painted coated metal sheets and a protective film for transportation. The space between the metal sheets is filled with an insulating layer, polyurethane foam.

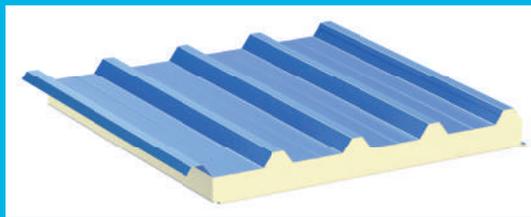


- **Top layer**  
Painted galvanized metal sheet
- **Insulation Core**  
Polyurethane
- **Bottom layer**  
Painted galvanized metal sheet
- **Metal thickness**  
Inner/Top – Standard – 0.04 cm (from 0.03 cm to 0.05 cm upon request)  
External/Top – Standard 0.04 cm (from 0.03 cm to 0.05 cm upon request)
- **Polyurethane density**  
38–40 ±2 kg/m<sup>3</sup>
- **Standard color**  
Light gray (RAL 9002). Other colors available on request
- **Steel compliant with ECCA**  
(European Roll Coating Association) standards

Thickness, cm	Length, cm	Width, cm	Roof panels' rib height, cm	Thermal conductivity	Fire resistance
4–15	Up to 1 700	100	4	0,022 W/(mK)	B2

## Roof panel

Metal Sheet Profiling:  
T50, T110, or smooth



## Wall panel

Metal Sheet Profiling:  
T50, T110, M25, or smooth



# Solar Panels



**Save the Planet**



**30% cost reduction**  
for heating  
or air conditioning



**Sturdy construction**  
**without cold bridges**  
with unique fastening system

Roof Mounted



Wall Mounted

# Accessories for Sandwich Panels

Steel by leading European manufacturers



Outer corner



Z p



mp



U pro

# Sliding and Hinged Isothermal Doors

for Refrigerating Chambers



## Door Technical Details

Height, cm	Length, cm	Width, cm	Insulation Core	Thermal Conductivity	Hardware	Door Types
Up to 600	Up to 600	8, 12	Polyurethane	0,022 W/(mK)	By top European companies	Sliding, Hinged

## Silicone Curtains

WIDTH – 20 cm  
THICKNESS – 0.2 , 0.3, or 0.4 cm





**Coca-Cola  
Natakhtari**



The image shows a modern building facade with a large glass window. The word "BREADFIELD" is written in large, white, 3D block letters across the window. Above the text is a white logo consisting of a stylized, multi-lobed shape resembling a loaf of bread or a field. The building has a yellow upper section and a grey lower section. The window reflects the sky and surrounding environment.

**BREADFIELD**

**BreadField  
Tbilisi**



2

3



ANIGOZI  
ՆՆՈՁՄՈՆ

**Anigozi  
Martkopi**





**Askaneli  
Kakheti**





# PM Motors Wine Factory Tbilisi





Eco-friendly



Faster Build Speed



Light Weight



Energy saving

Tbilisi



Tbilisi  
International  
Airport

PANEX 

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