



EcoProm

CATALOG

**High-Quality Sandwich
Panels**



“Inter Agro Zo’r panel” EcoProm. Manufacturing Plant, Samarkand-Uzbekistan



Customer
Care



CE Certified
Range



Technical
Expertise



12+ Years
Legacy



State-of-the-art
manufacturing
facility

About Us

Ecoprom is a modern manufacturing company specializing in the production of sandwich panels since **2014**. Over the years, the company has built a strong reputation for quality, reliability, and long-lasting products.

The company manufactures **wall, roof, and cold storage sandwich panels**, as well as **cold room doors** and **refrigeration units**. Advanced technologies and high-quality raw materials are used in the production process to ensure durability and consistent product quality.

Ecoprom operates on a **1-hectare production site**, enabling the company to handle both medium- and large-scale projects efficiently. All products undergo strict quality control and comply with industry standards.

Under the leadership of Director **Mirfarrukh Farhodov**, Ecoprom prioritizes customer trust and a responsible approach to every project.

Ecoprom — **reliable solutions, strong constructions, and consistent quality.**

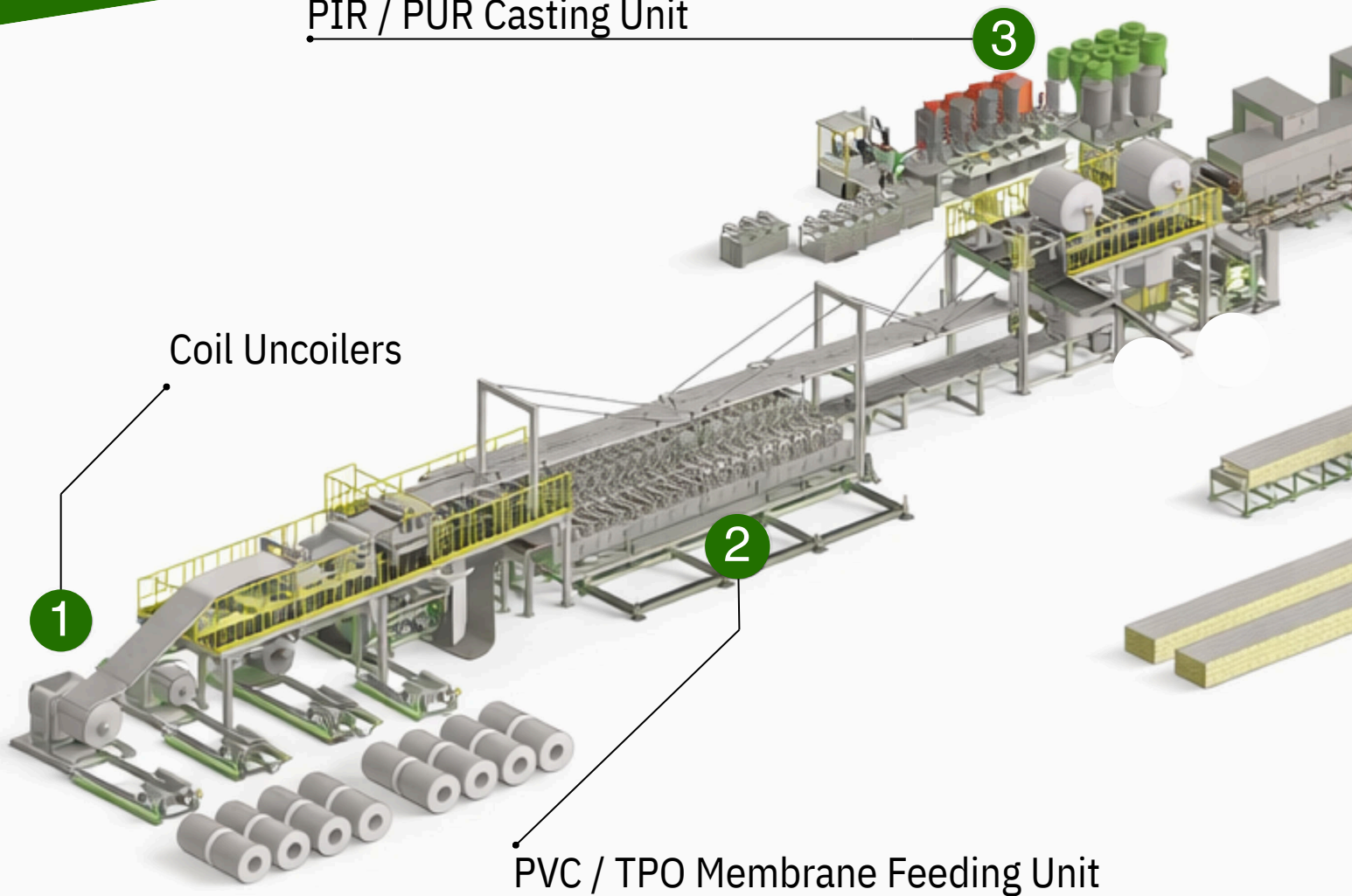


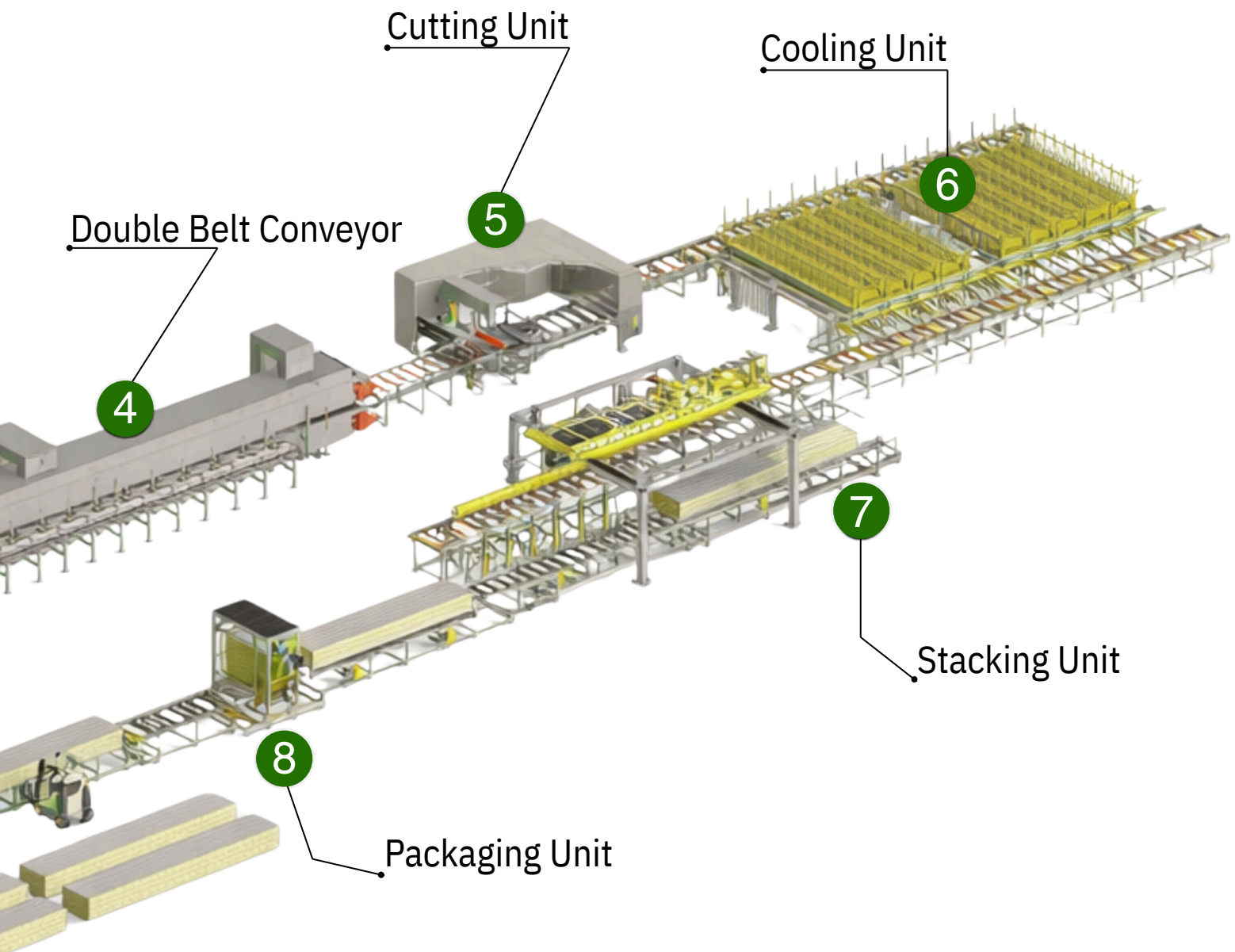


PIR & PUR Continuous Sandwich Panel Line



PIR / PUR Casting Unit





EcoProm operates a modern sandwich panel production facility focused on the manufacturing of roof panels, secret-fix wall panels, and refrigeration (cold storage) panels. Our production line is equipped with advanced machinery designed to ensure high performance, precision, and consistent product quality.

The production process starts with steel coil uncoilers and PVC/TPO membrane feeding units, followed by surface preparation and corona treatment systems that improve bonding strength and surface durability. Panel cores are produced using a **PIR/PUR** casting unit, providing excellent thermal insulation and energy efficiency. Panels are formed in a double belt conveyor press, which ensures accurate thickness and a uniform panel structure. After forming, the panels pass through a cooling unit to stabilize the material, then proceed to the cutting unit, where they are cut to custom lengths based on project requirements.

Finished panels are transferred to the packaging unit and organized in the stacking unit for safe storage and transportation. EcoProm follows strict quality control procedures at every stage of production and continuously improves its manufacturing processes in line with international standards.

By combining advanced technology, skilled personnel, and efficient production management, EcoProm delivers durable and reliable sandwich panel solutions for industrial buildings, warehouses, and cold storage facilities.



Discontinuous PUR Sandwich Panel Manufacturing Line





Characteristics of Sandwich Panels with Polyurethane (PUR) Insulation

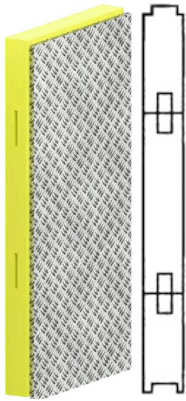
Thickness (mm)	Thermal conductivity ($\lambda = \text{W/m}\cdot\text{K}$)	Sound insulation n (dB)	Density (kg/m^3)	Thermal resistance ($R_t = \text{m}^2\cdot^\circ\text{C/W}$)
50	0,042	25	45	1,28
80	0,042	28	45	2,05
100	0,042	29	45	2,56

Color Palette for Sandwich Panels



Sandwich panels are multilayer construction materials consisting of an internal thermal insulation layer (PUR) and external steel sheets. These panels offer excellent thermal insulation, sound insulation, and mechanical strength, making them an ideal choice for the construction of various facilities, from cold storage chambers to prefabricated buildings.





Sandwich Panels with Corrugated Stainless Steel Coating

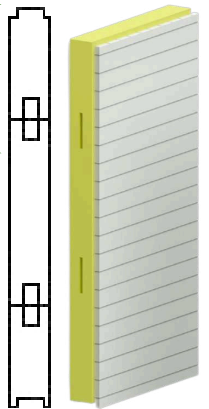


Hygienic: Stainless steel is easy to clean and disinfect, which is especially important for medical facilities, the food industry, and public areas requiring a high level of hygiene.



Improved Grip: The corrugated surface texture enhances traction with footwear or trolley wheels, reducing the risk of slipping even on wet or dirty surfaces, which is particularly important in high-humidity environments.

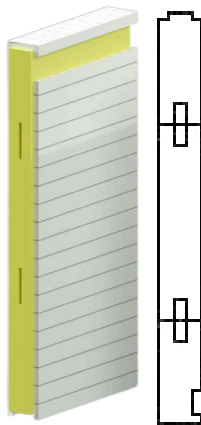
Sandwich Panels with Polymer- Coated Stainless Steel



Aesthetic Appearance: Polymer coatings are available in various colors and shades, allowing for aesthetically appealing interior or building designs.



Minimal Surface Preparation: The surface on which the panels are installed requires minimal pre-treatment due to the flexibility and adaptability of stainless steel material



Ceiling Sandwich Panels with Polymer-Coated Stainless Steel



Quick Replacement Capability: If needed, stainless steel ceiling panels can be easily dismantled and replaced without significant time or resource expenditure.



Mounting Features: Ceiling panels typically have special mounting mechanisms adapted for installation on ceilings.

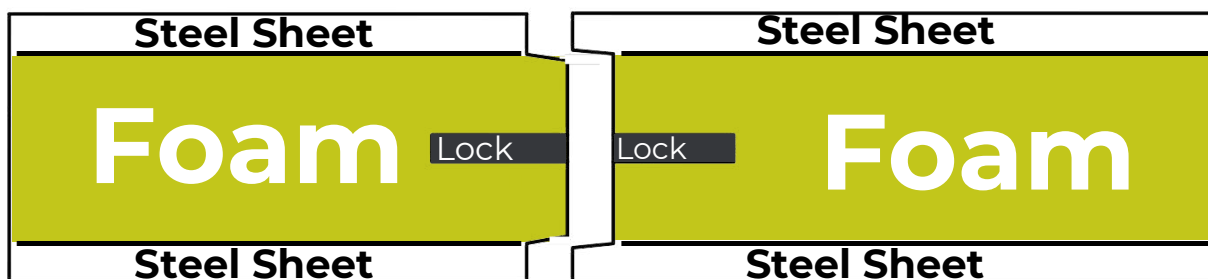
Corner Sandwich Panels with Polymer-Coated Stainless Steel



Economical: Stainless steel corner panels are manufactured as a single, seamless piece, reducing the consumption of materials such as locks and metal connections, which increases the panel's cost-effectiveness.



Durability: The stainless steel corner panel is made as a single, seamless piece, ensuring strength and reliability.



Our company specializes in the production of sandwich panels in **Uzbekistan**. Our distinctive feature is the ability to manufacture panels of various sizes according to individual customer requests. We offer high-quality polyurethane (PUR) panels coated with steel sheets with polymer and zinc coatings. Thanks to the unique “male-female” fastening technology, our panels are easy and quick to install, providing a reliable and long-lasting connection.



Thermal Insulation



Sound Insulation



Moisture Protection



Environmental Friendliness



Lightweight



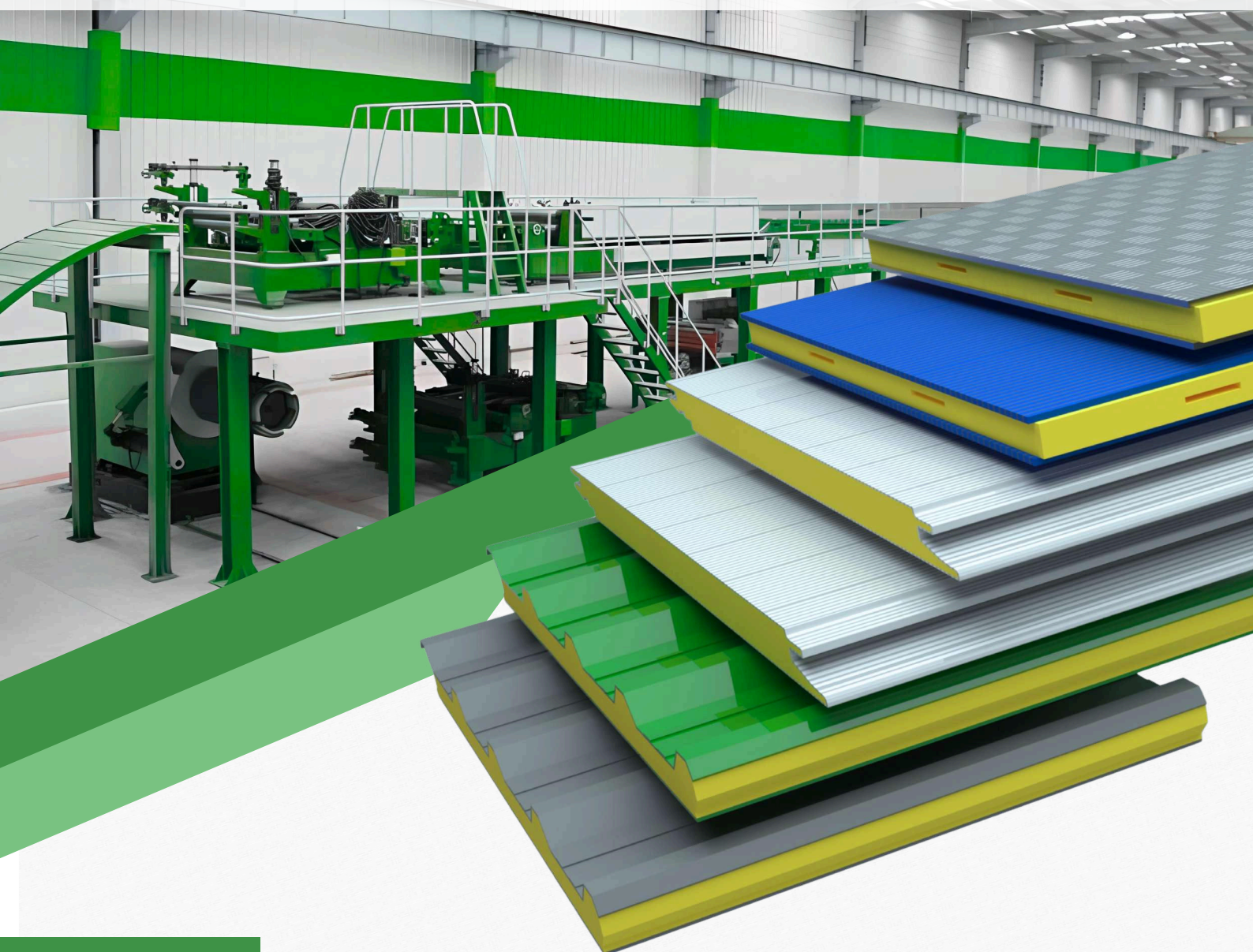
Polyurethane Foam (PUR)

With a density of **45 kg/m³**, PUR is a key component of sandwich panels due to its unique properties. PUR is made from polyol and isocyanate, which form a cellular structure when mixed.



EcoProm
HIGH-QUALITY SANDWICH
PANELS

www.ecoprom.uz - info@ecoprom.uz



**PIR
PUR**

СЭНДВИЧ ПАНЕЛЬ
sandwich panel





PIR SANDWICH PANEL

1

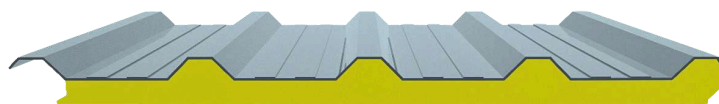
PIR Panels for Roofing (Roof Sandwich Panels)

PIR panels for roofing are modern thermal insulation construction materials consisting of three layers:

Top layer – usually made of galvanized steel with a polymer coating (e.g., polyester, pural, plastisol).

Middle layer (core) – rigid polyisocyanurate (PIR), offering high thermal insulation and fire resistance.

Bottom layer – can be made of galvanized steel, aluminum, or aluminum-zinc coating.



2

PIR Panels for Walls (Wall Sandwich Panels)

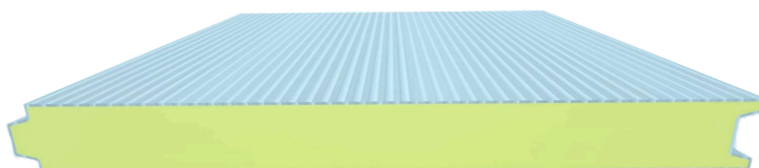
PIR panels for walls are multilayer construction materials designed for constructing external and internal walls of buildings. They consist of:

1. **External layer** – galvanized steel with a polymer coating (polyester, pural, plastisol).
2. **Core** – rigid polyisocyanurate (PIR), providing thermal and sound insulation.
3. **Internal layer** – similar to the external layer, made of metal or aluminum.

3

PIR Panels for Walls (Wall Sandwich Panels)

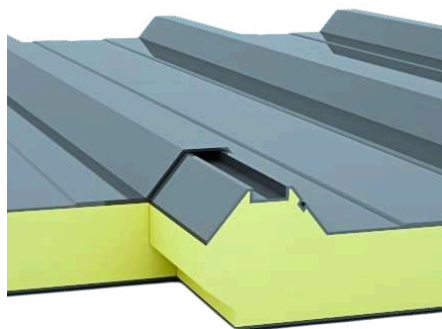
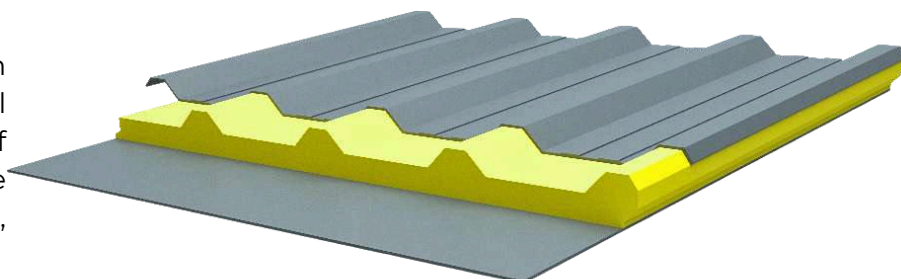
1. **External layer** – metal sheet (galvanized steel with polymer coating, aluminum, or stainless steel). This layer provides rigidity and protects against external impacts.
2. **Adhesive layer** – a special compound for securely bonding the metal to the insulation.
3. **Insulation (core)** – polyisocyanurate (PIR). It offers high fire resistance, low thermal conductivity, and moisture resistance.
4. **Internal layer** – similar to the external layer, but can have other coatings such as film or fiberglass depending on the panel's intended use.





Roof Sandwich Panels

Roof sandwich panels are modern construction materials with high thermal insulation, strength, and ease of installation. They are widely used in the construction of industrial, commercial, warehouse, and administrative buildings.



High thermal insulation – reduces heating and air-conditioning costs.

Strength and durability – resistant to mechanical damage and weather conditions.

Fast and easy installation – reduces construction time.

Fire resistance – a safe solution for any building.

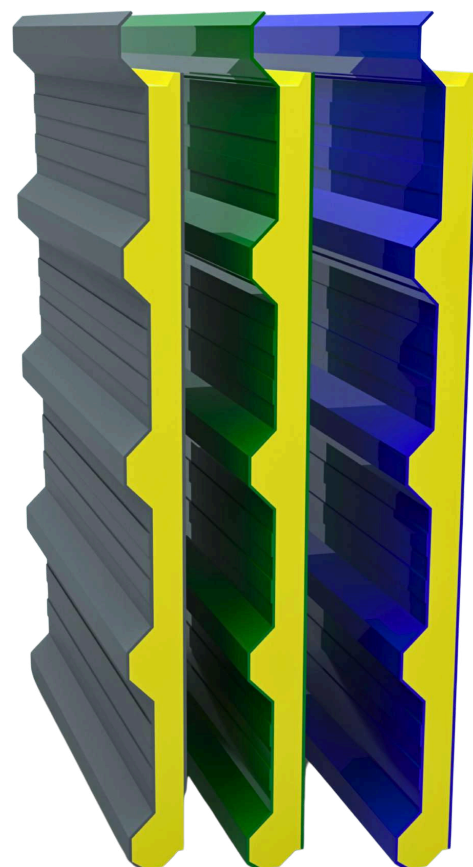
Environmental friendliness – contains no harmful substances.

PIR “ProfKholod” Roof Sandwich Panels are three-layer panels with a fire-resistant polyisocyanurate (PIR) insulation core, manufactured on a customized PIR system using the best foreign components.

Thanks to the low thermal conductivity of up to 0.022 W/m·K, PIR roof sandwich panels help save on heating and air-conditioning costs.

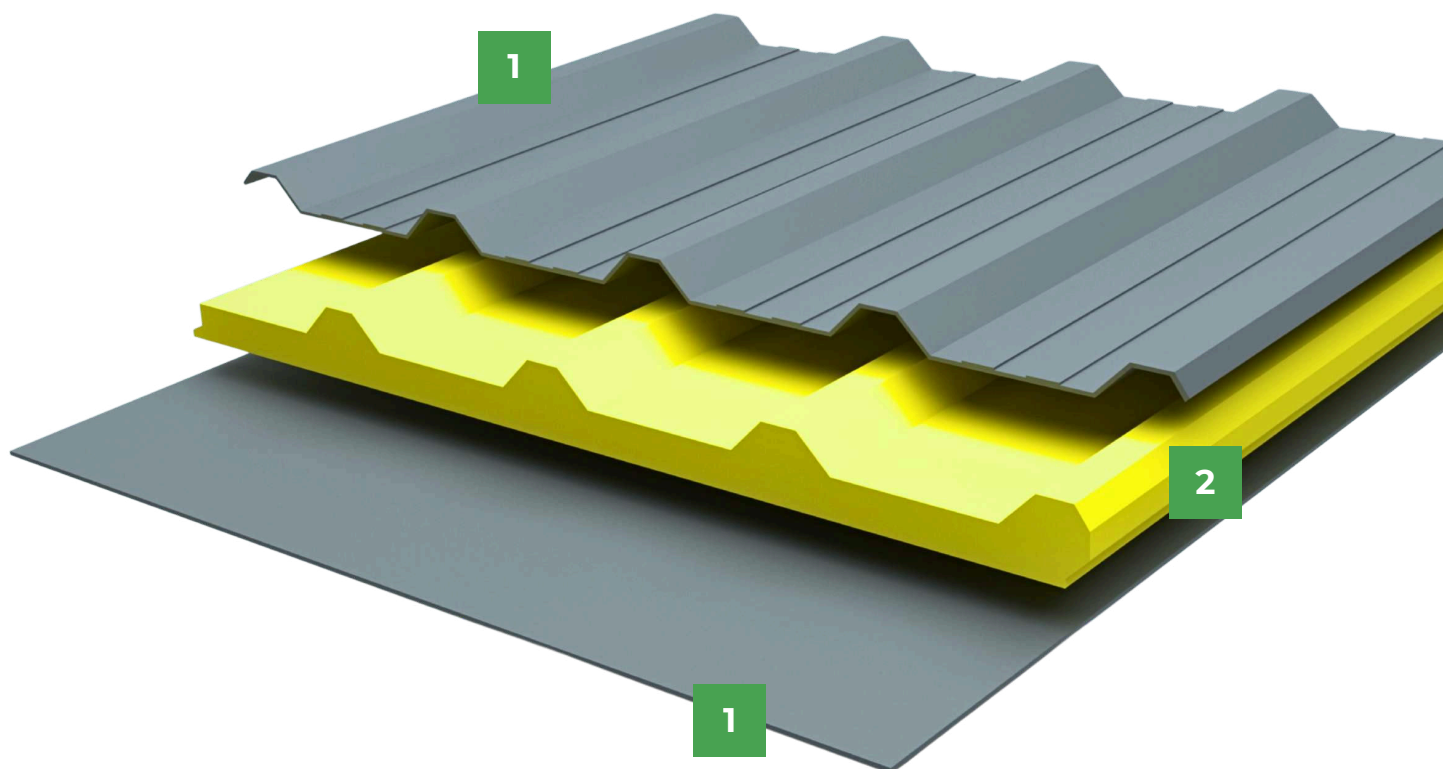
Sandwich panels are marked with the CE sign and manufactured in accordance with the European standard EN-14509 in any RAL colors.

Roof sandwich panels are used for covering the roofs of buildings and structures with a roof slope of more than 7 degrees. Panels can also be used at lower slopes when installed “down the hump” with subsequent membrane placement.

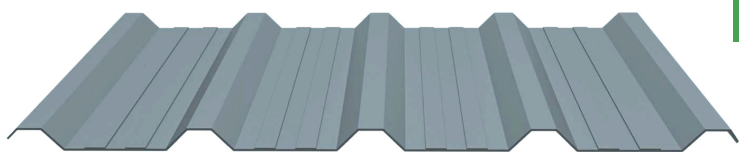




Specifications

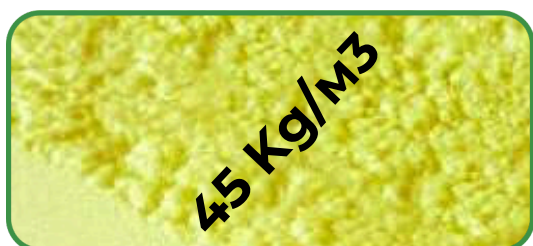


Composition of Sandwich Panels:



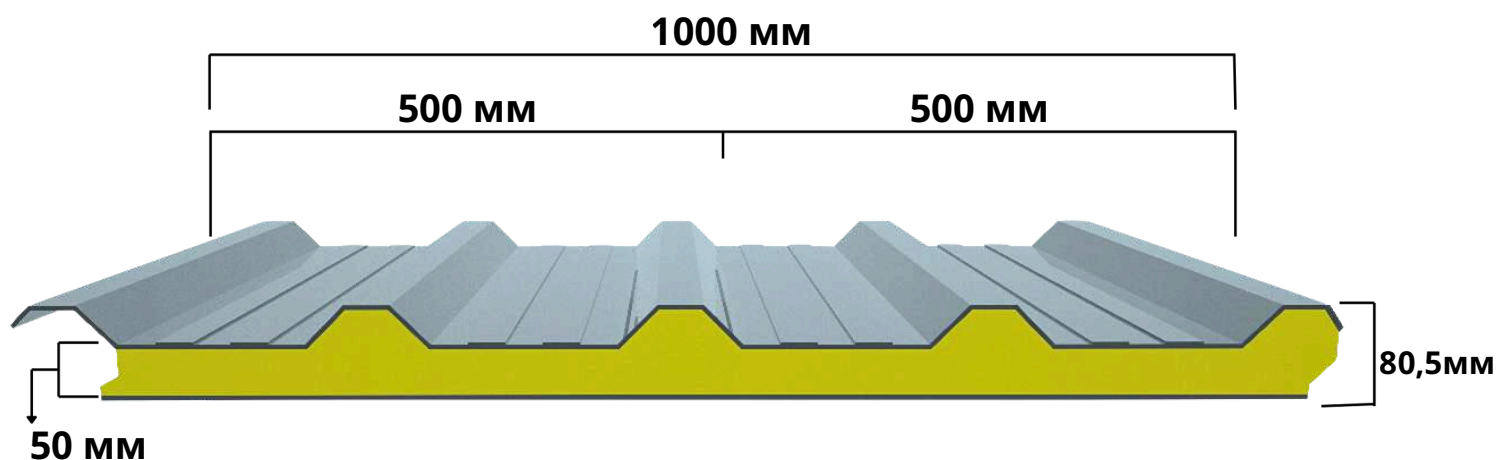
Sandwich panels are widely used in construction due to their ease of installation, high thermal insulation, and resistance to external influences.

Therefore, they are an excellent choice for industrial buildings, warehouses, shopping centers, and other facilities.



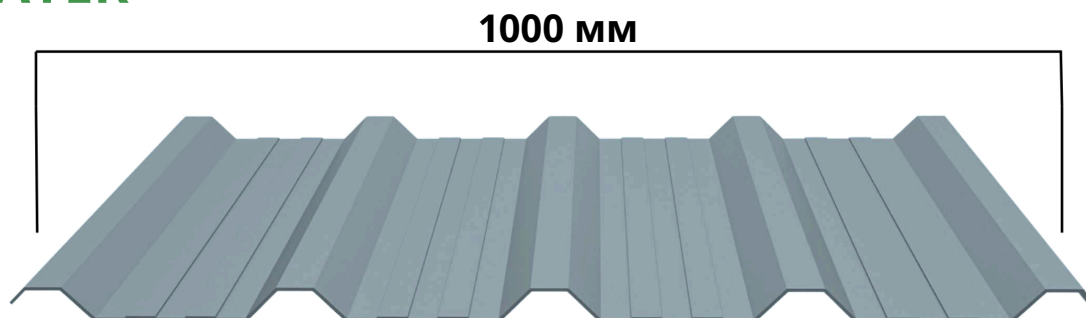
1 Top layer – galvanized metal sheet with anti-corrosion coating. This top layer provides strength and durability to the sandwich panels. The galvanized metal is corrosion-resistant, protecting the structure from environmental effects. This is especially important when used in roofing and wall constructions.

2 Insulation layer – made of polyurethane (PUR/PIR) or mineral wool, providing excellent thermal and sound insulation. This layer helps retain heat inside the building and reduces external noise. The density of the polyurethane layer is 45 kg/m^3 , ensuring high thermal insulation properties. Mineral wool, in turn, is fire-resistant and offers superior sound insulation.



Thickness (mm)	Thickness Sheet (mm)	Thermal conductivity ($\lambda = W/m \cdot K$)	Sound insulation (dB)	Density (kg/m^3)	Thermal resistance ($R_t = m^2 \cdot ^\circ C/W$)	Price
50	0,45	0,042	25	38-50	1,28	

SINGLE LAYER

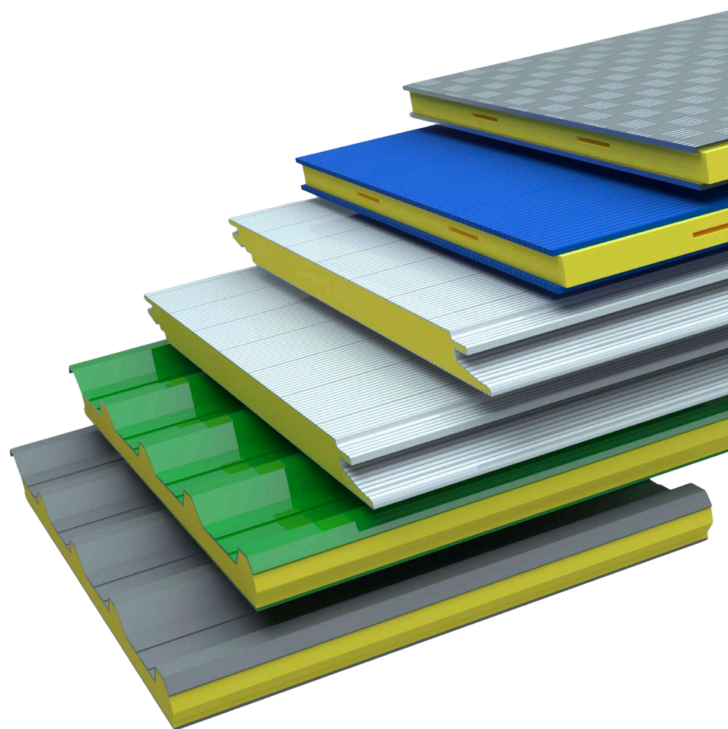
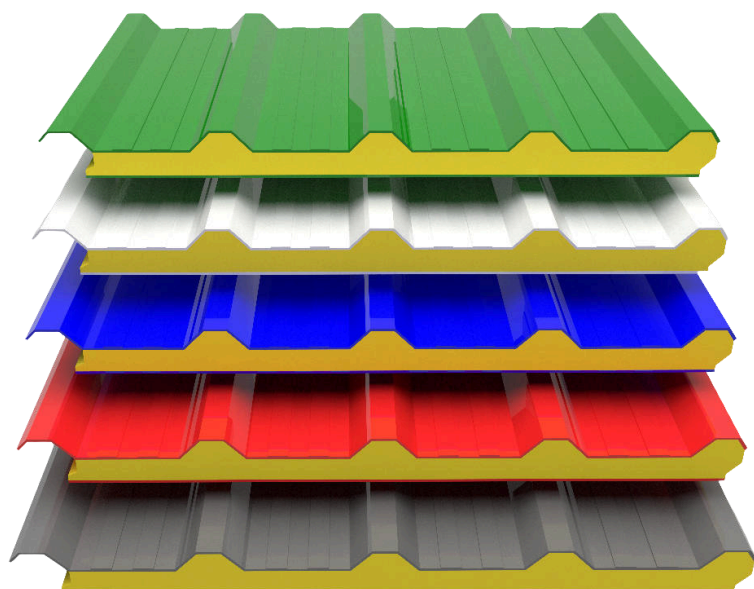
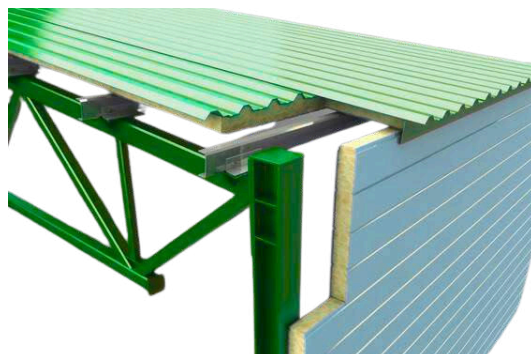


Width (mm)	Length	Application	Metal characteristics	Metal thickness
1000 mm	Length: 1 meter – maximum 12 meters	Roof	Manufactured by Assan Aluminum, AW 3000 series aluminum, galvanized steel sheet. • Pre-painted galvanized sheet (polyester coating applied over primer).	Minimum thickness: 0.45 mm – Maximum thickness: 0.80 mm. • Pre-painted galvanized sheet / galvanized sheet: minimum 0.40 mm – maximum 0.80 mm, aluminum.



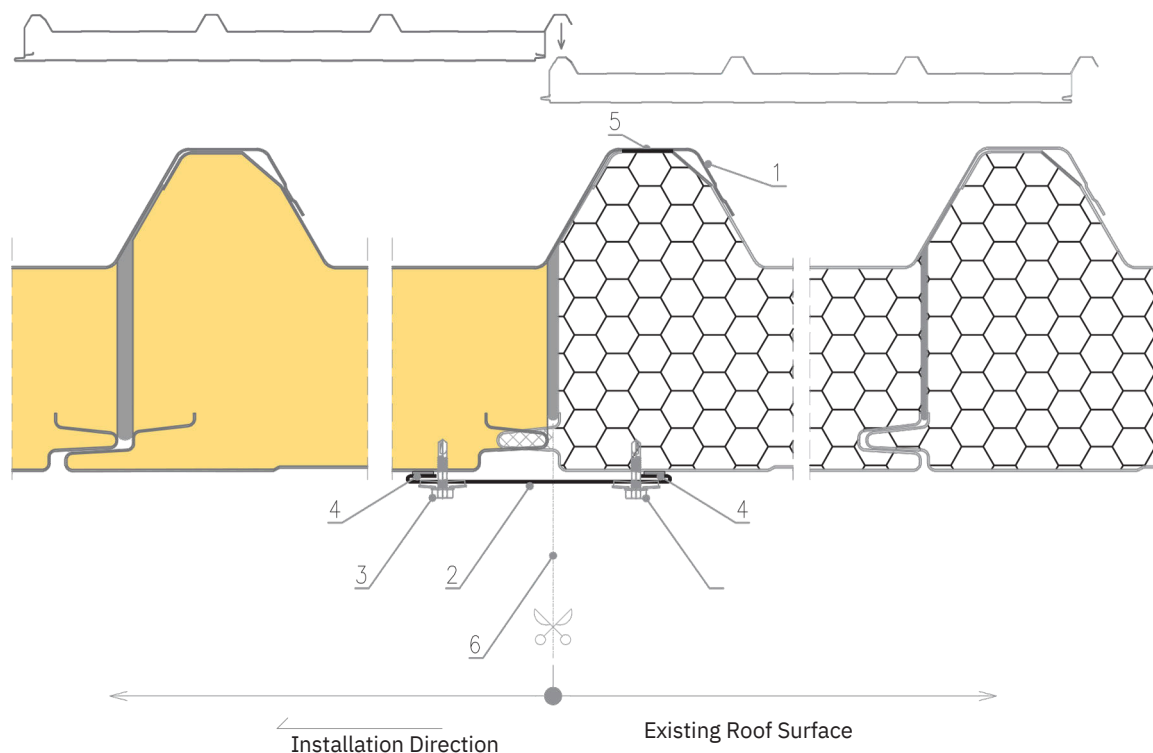
Standard Color Chart

PIR roof sandwich panels are a modern solution for the construction of industrial, commercial, and warehouse facilities. They combine lightweight structure, high strength, and excellent thermal insulation properties, making them an ideal choice for a reliable and energy-efficient roofing system.



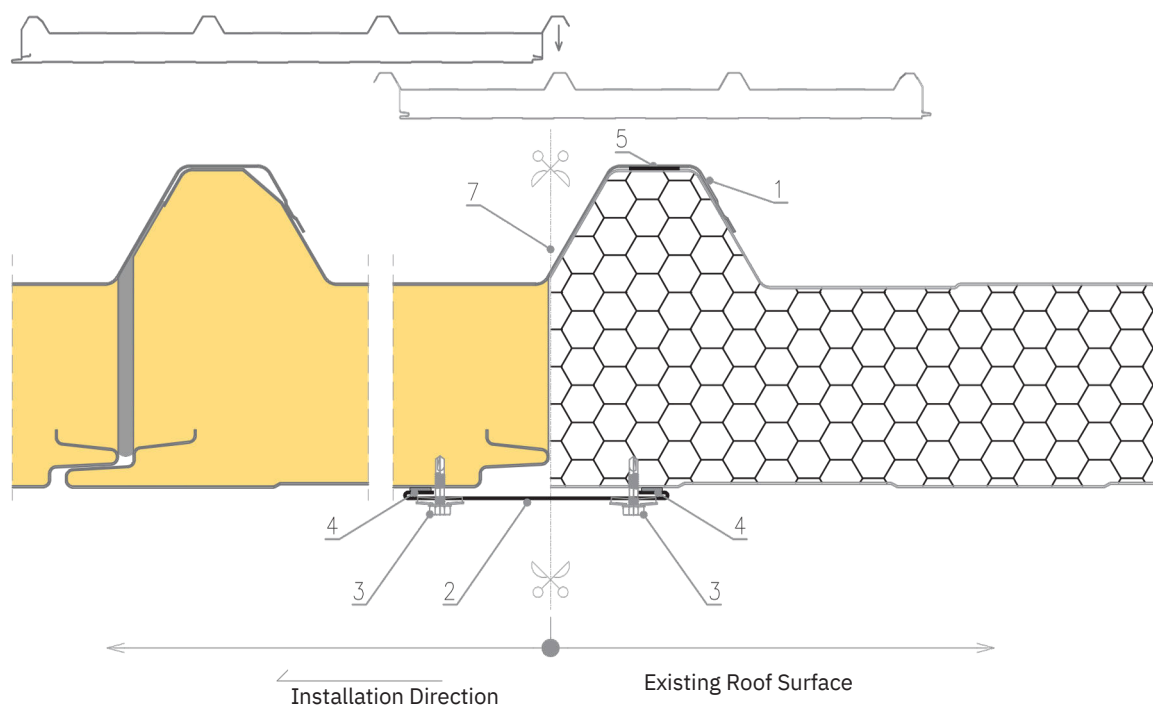
Color Palette for Sandwich
Panels





OPTION 2

The outer edge of the panel on the existing roof surface — female lock (hollow rib).

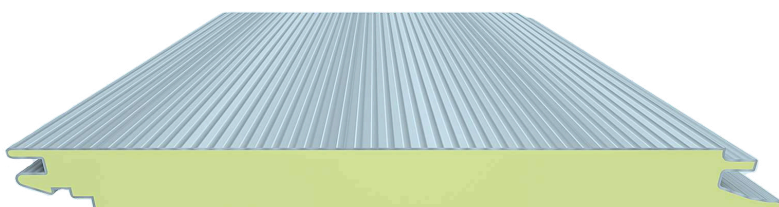


1. Hollow rib of the added panel (IzoRoof+)
2. Masking apron (flashing)
3. Self-tapping screw with EPDM washer
4. Sealant or butyl tape
5. Butyl tape applied on the panel rib on the existing roof surface
6. Cutting line for male lock (bottom) of existing panel — point of contact with the added panel
7. Cutting line of the existing panel — should be located along the edge of the full rib



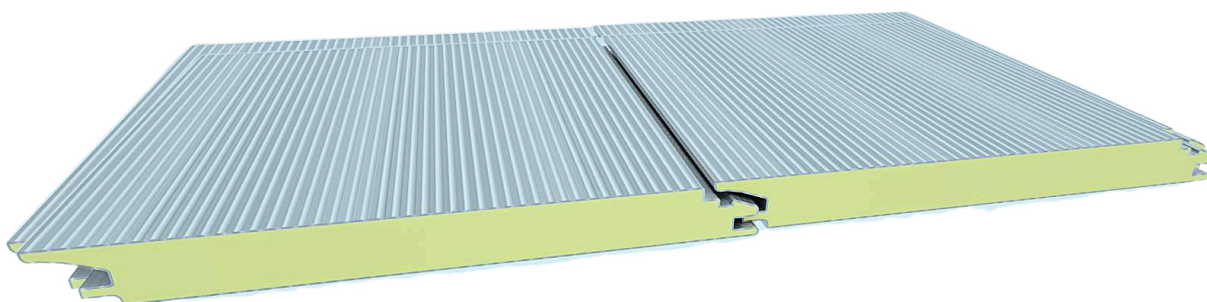
Wall Sandwich Panels

Wall sandwich panel is a modern and efficient construction material used for various structures. It consists of three layers and includes the following components:



Advantages:

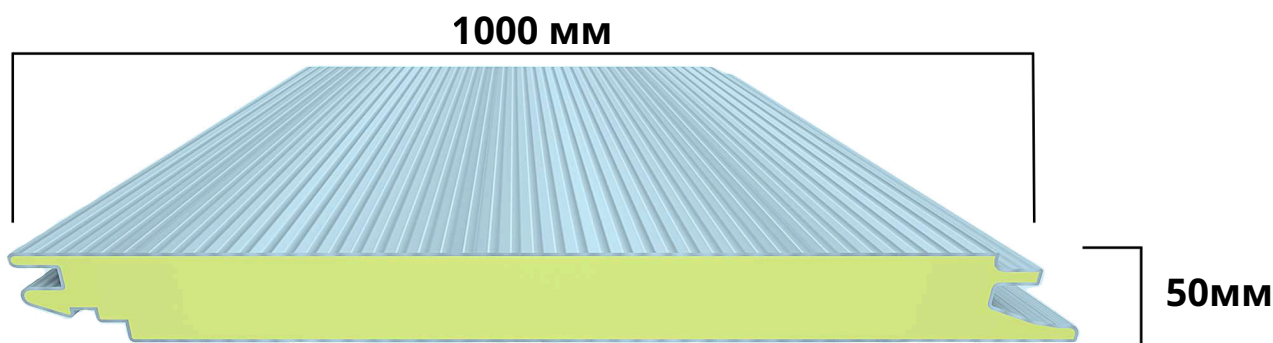
- Thermal insulation: Provides good thermal insulation properties.
- Fire resistance: Mineral wool panels have high fire resistance.
- Lightweight and strength: Allows fast and easy construction.
- Aesthetic appearance: Available in various colors and coatings.
- Quick installation: Significantly reduces construction time.



- **Thermal conductivity:** The thermal conductivity of sandwich panels depends on the core material. For example, panels with polyurethane insulation provide high thermal insulation, reducing heating and cooling costs of buildings.
- **Fire resistance:** Panels with mineral wool or fiberglass insulation have high fire resistance, making them suitable for use in areas with increased fire risk.
- **Sound insulation:** Mineral wool or fiberglass cores have excellent acoustic properties, effectively reducing noise. Such panels are ideal for industrial facilities or noisy areas.
- **Mechanical strength:** Metal coatings provide high mechanical strength to the panels, making them resistant to external influences.



SPECIFICATIONS



Thickness (mm)	Sheet Thickness (mm)	Thermal conductivity ($\lambda = \text{W/m}\cdot\text{K}$)	Sound insulation (dB)	Density (kg/m^3)	Thermal resistance ($R_t = \text{m}^2\cdot\text{C/W}$)	Price
50	0,45	0,042	25	38-50		27\$
80	0,45	0,042	28	38-50		29\$

Structure of Wall Sandwich Panels:

A sandwich panel is a multilayer construction consisting of three main components: two external facing layers and an internal insulation core.

1. External facing layers:

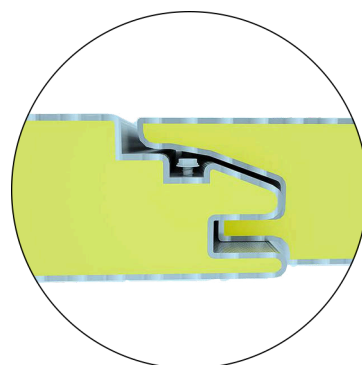
- Provide protection and decorative functions.
- Made from durable materials resistant to atmospheric effects.

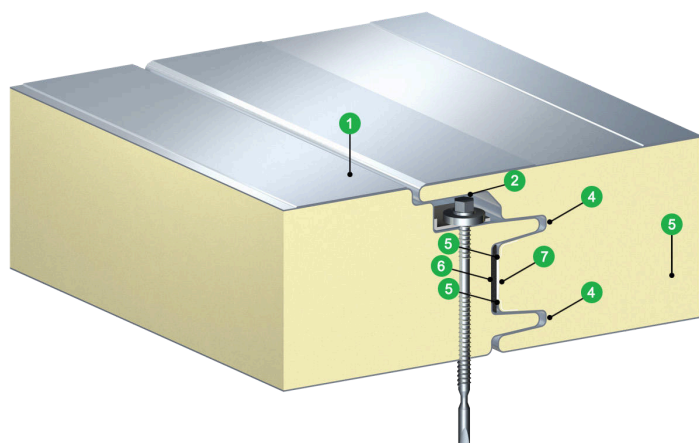
Main facing materials:

- Galvanized steel: coated with an anti-corrosion layer (zinc); often used with polymer coatings (polyester, PVDF, etc.).
- Aluminum: lightweight and corrosion-resistant material.
- Stainless steel: high strength and durability.

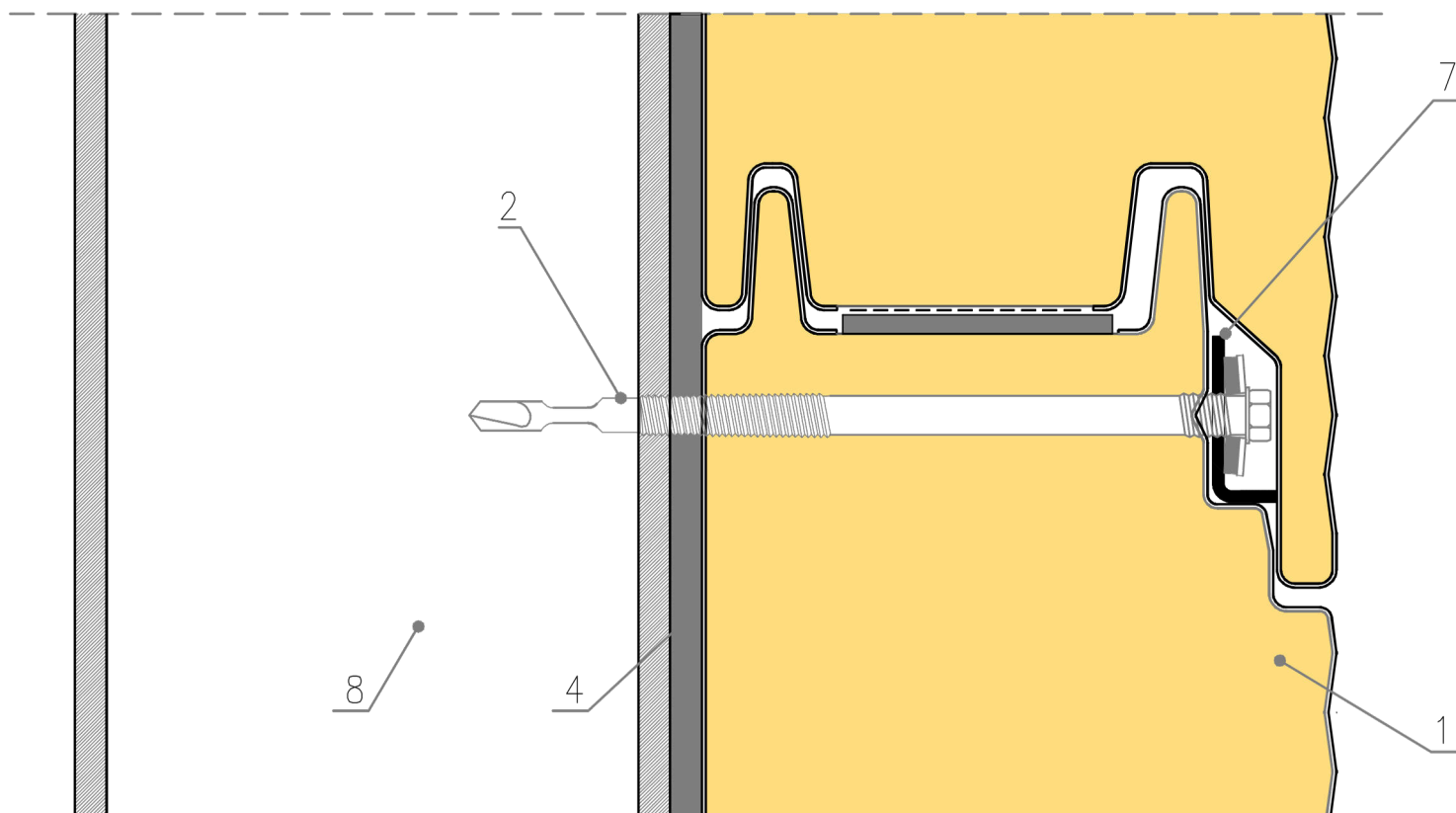
2. Insulation layer (core):

- Provides thermal and sound insulation.
- Polyurethane (PUR): lightweight, excellent thermal insulation.
- Polyisocyanurate (PIR): higher fire resistance compared to PUR.



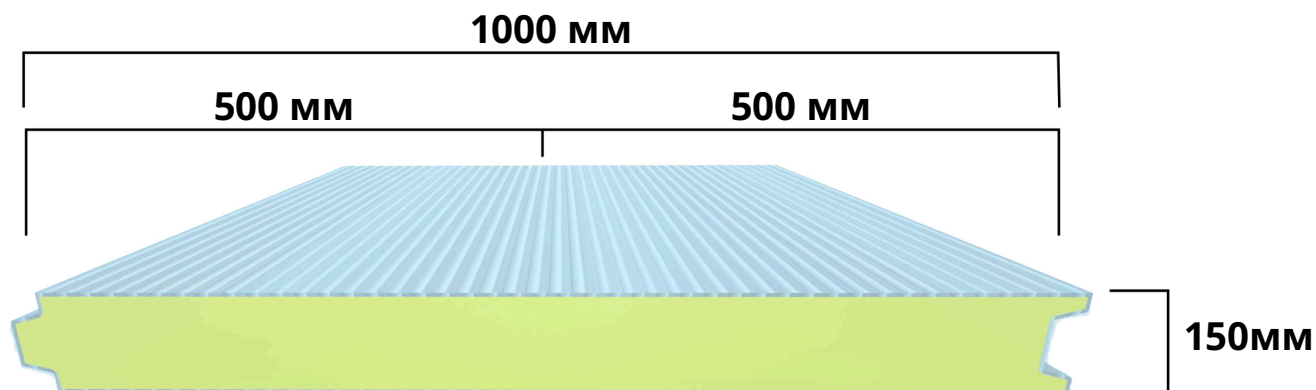


- Profiled cladding with a unique surface design.
- Hidden fastening provides a smooth and aesthetic facade appearance.
- Large bending radii ensure long-lasting protective coatings of the cladding.
- Double lock of the panel ensures the highest fire resistance.
- Profiled edges facilitate installation and provide high thermal insulation efficiency.
- Seamless polyurethane gasket, applied during production, preserves thermal insulation and joint tightness.
- Protective tape prevents diffusion, water and gas penetration, and vapor ingress into the insulation core.
- Core is made of rigid, freon-free, self-extinguishing PIR / PIR+ foam material with very high thermal insulation properties.



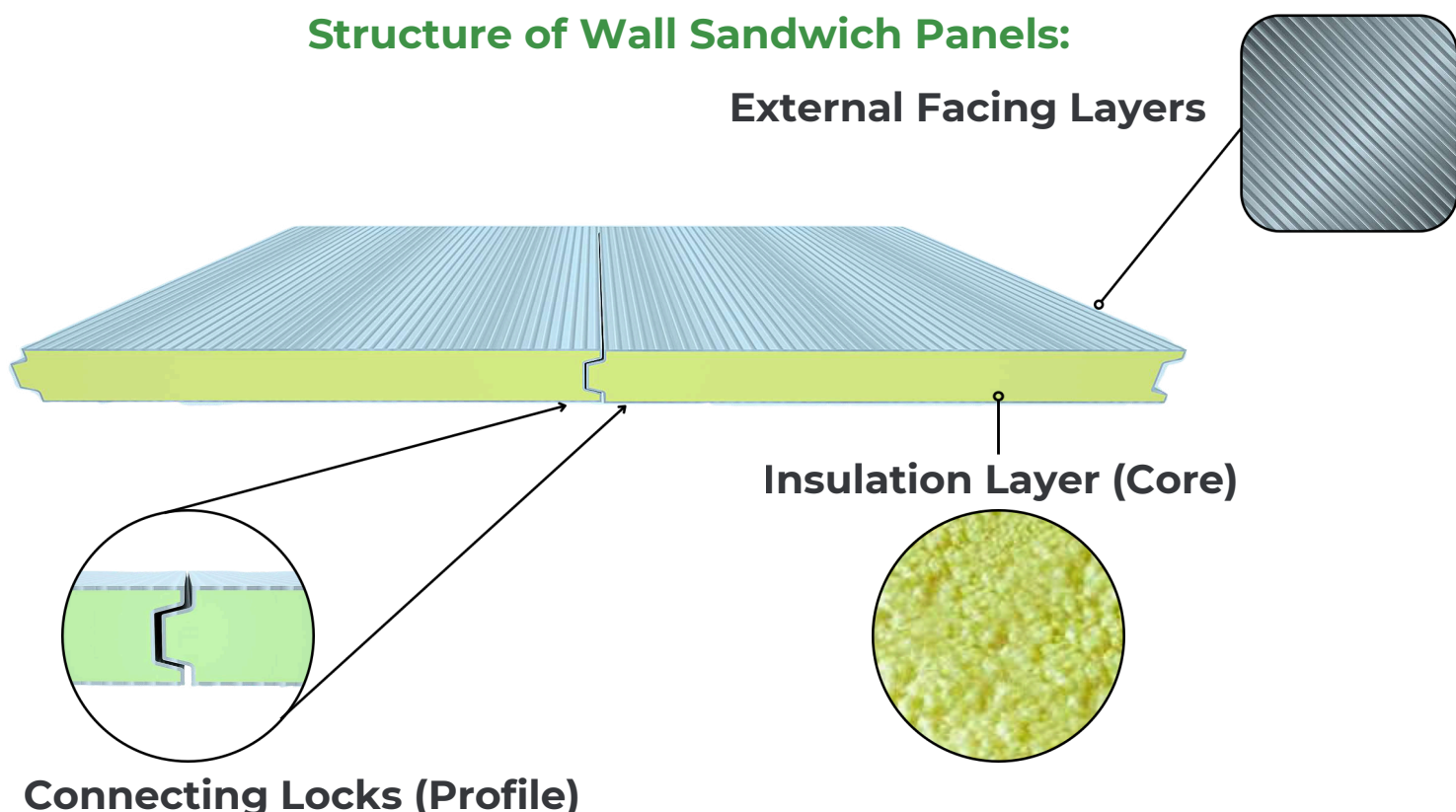


Wall Sandwich Panels



Thickness (mm)	Sheet Thickness (mm)	Thermal conductivity ($\lambda = W/m \cdot K$)	Sound insulation (dB)	Density (kg/m ³)	Thermal resistance (Rt = m ² ·°C/W)	Price
50	0,45	0,042	26	38-50	1,28	27\$
100	0,45	0,042	29	38-50	2,65	30\$
150	0,45	0,042	32	38-50	3,02	38\$

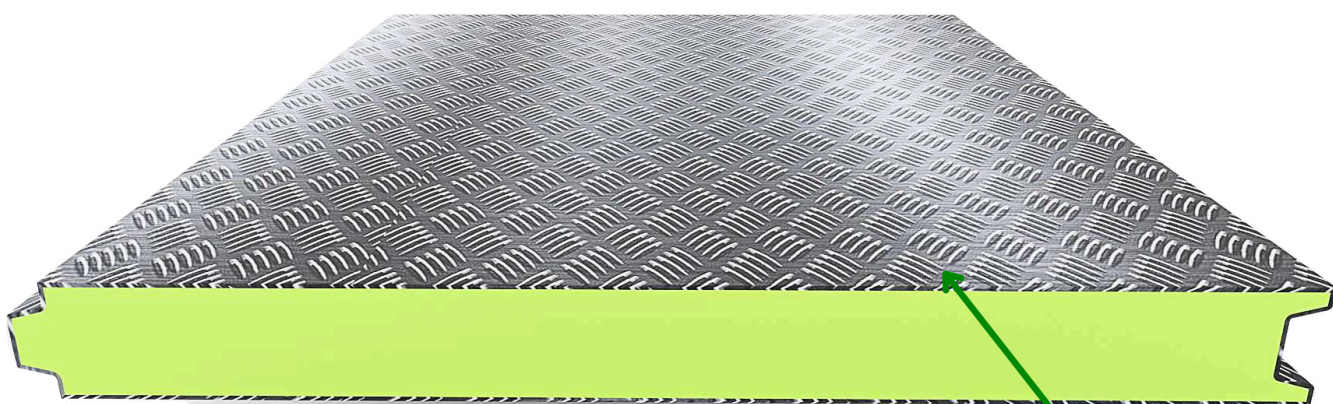
Structure of Wall Sandwich Panels:





PIR Sandwich Panels

Why is stainless steel the best choice for PIR panels and meat processing rooms?



- **Rust-resistant:** Perfect for high-humidity rooms — not affected by moisture or corrosion.
- **Easy to clean:** Smooth surface does not accumulate dirt or bacteria, easy to clean, and meets sanitary standards.
- **Temperature-resistant:** Ideal for refrigeration and freezing chambers.
- **Strong and durable:** Scratch-resistant, withstands impacts, and lasts for many years.
- **Modern appearance:** Glossy surface gives the room a clean and neat look.

Sheet Thickness (mm): 1.20

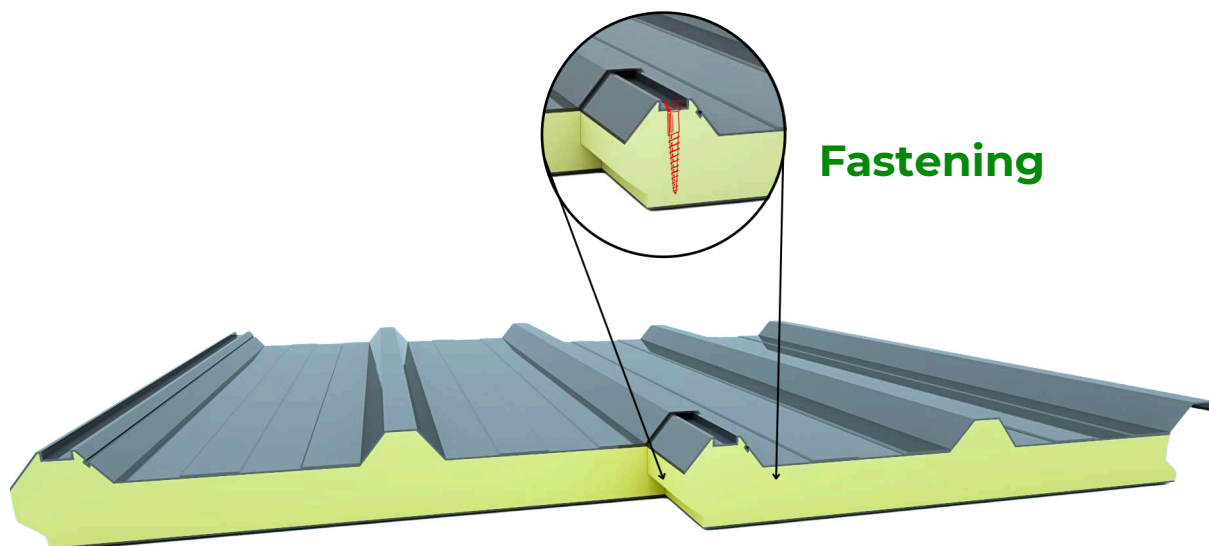
Application: Used in meat processing rooms, refrigeration and freezing chambers, and food production facilities. Fire and heat resistance: Withstands high temperatures, making it safe even in conditions with fire risk.

Stainless steel provides not only reliability and durability but also a modern, clean, and stylish appearance to your space. Using it ensures maximum hygiene and safety in the work process, improving both production conditions and the overall look of the facility.

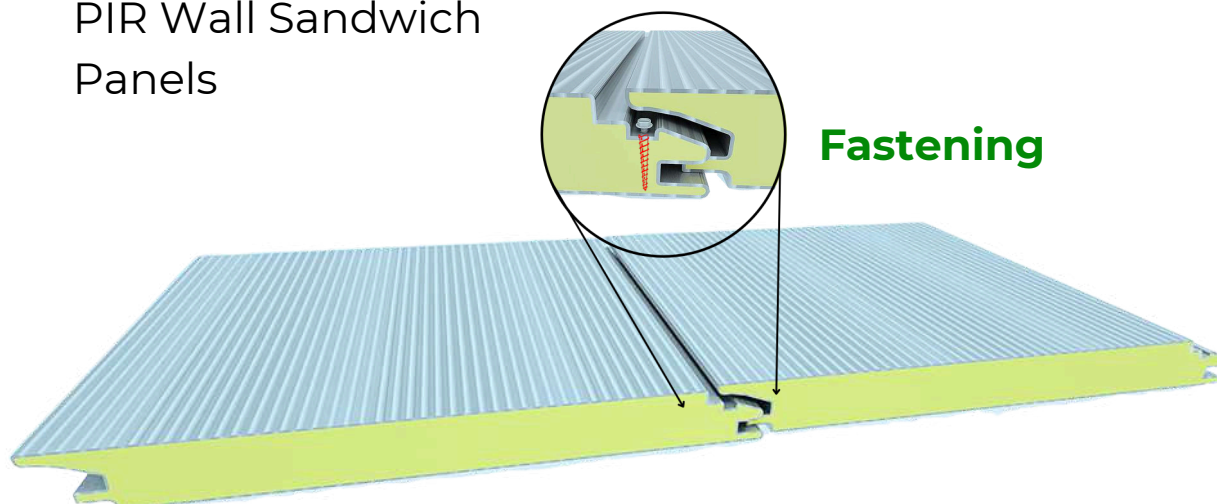


Sandwich Panels

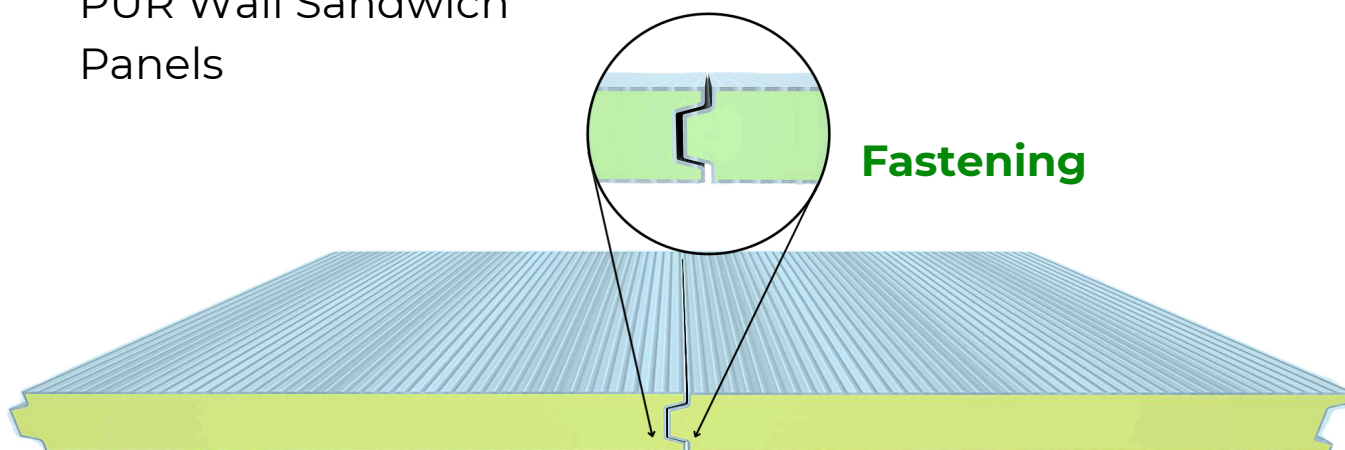
Roof Sandwich Panels



PIR Wall Sandwich Panels



PUR Wall Sandwich Panels





Цветовые группы Color Groups	RAL коды / RAL Codes
Очень светлые цвета Group1 - VeryLightColors	1015 - 1016 - 1018 - 6019 - 7035 - 9001 - 9002 - 9003 - 9010- 9016
Группа 2 – Светлые цвета Group2 - LightColors	1000 - 1002 - 1003 - 1004 - 1013 - 1014 - 1015 - 1016 - 1017 - 1019 - 1021 - 1023 - 1028 - 1033 - 1035 2000 - 2003 - 2004 - 2008 - 2011 - 2012 - 5012 - 5015 - 5018 - 5024 - 6018 - 6019 - 6021 - 6027 - 6033 6034 - 7000 - 7035 - 7037 - 7038 - 7040 - 9018 - 9022
Тёмные цвета Group3 - DarkColors	3000 - 3002 - 3003 - 3005 - 3011 - 3013 - 5002 - 5005 - 5009 - 5010 - 5011 - 5022 - 6000 - 6003 6005 - 6011 - 6020 - 6029 - 7015 - 7016 - 7022 - 7024 - 7026 - 7031 - 7038 - 7043 - 8011 - 8012 8014 - 8016 - 8017 - 8019 - 8022 - 8023 - 9004 - 9005 - 9006 - 9007 - 9017

RAL 1002	RAL 1003	RAL 1004	RAL 1014	RAL 1015	RAL 1016	RAL 1017
RAL 1018	RAL 1019	RAL 1021	RAL 1023	RAL 1035	RAL 2000	RAL 2003
RAL 2004	RAL 2008	RAL 3000	RAL 3002	RAL 3003	RAL 3005	RAL 3011
RAL 3013	RAL 5002	RAL 5005	RAL 5009	RAL 5010	RAL 5011	RAL 5012
RAL 5018	RAL 5022	RAL 5024	RAL 6000	RAL 6003	RAL 6005	RAL 6011
RAL 6018	RAL 6019	RAL 6020	RAL 6021	RAL 6029	RAL 6033	RAL 7000
RAL 7015	RAL 7016	RAL 7022	RAL 7024	RAL 7026	RAL 7031	RAL 7035
RAL 7037	RAL 7038	RAL 7040	RAL 7043	RAL 8011	RAL 8012	RAL 8014
RAL 8016	RAL 8017	RAL 8019	RAL 8022	RAL 8023	RAL 9001	RAL 9002
RAL 9004	RAL 9005	RAL 9006	RAL 9007	RAL 9010	RAL 9017	RAL 9022



Protective films are intended only as a precaution to prevent scratches and discoloration that may occur during transportation and installation.

- The film should be removed from each panel immediately after installation, without delay.
- Otherwise, under heat and sunlight, the film may stick to the painted surface, making removal difficult and potentially damaging the coating.
- Ecoprom protective films must be removed within 3 months from the delivery date.
- Otherwise, claims related to protective films will not be accepted or considered under warranty.
- Opened panel packages at the end of the workday must be re-packed, packaging updated, and stored in a place protected from weather exposure.

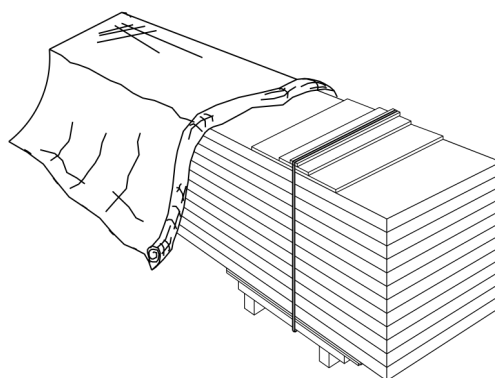
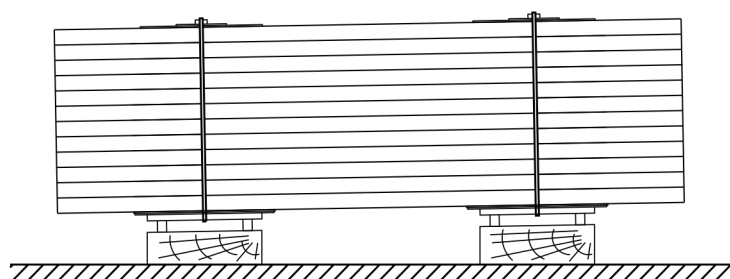
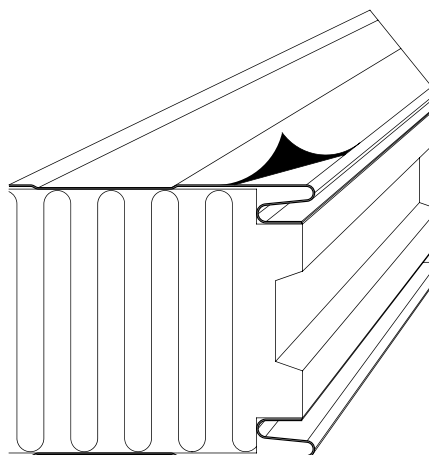
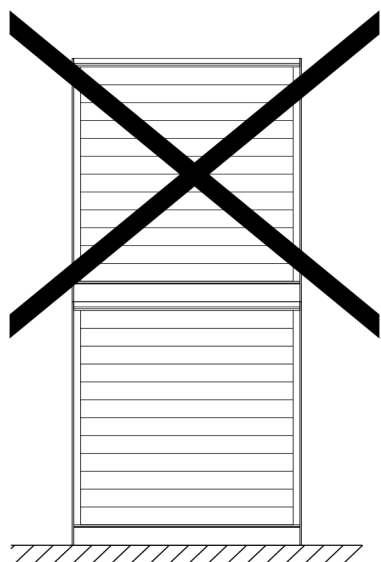


рис. 6

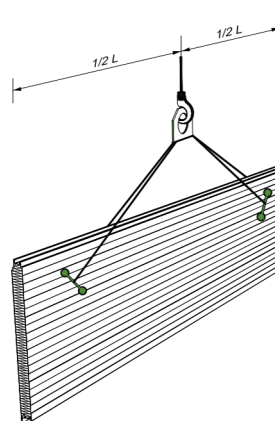
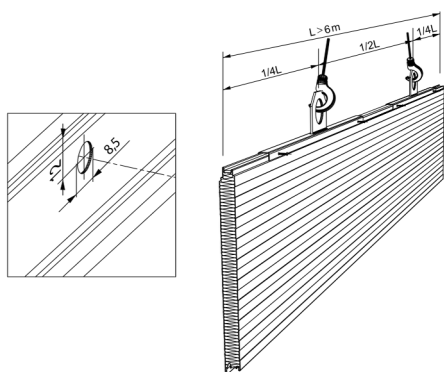
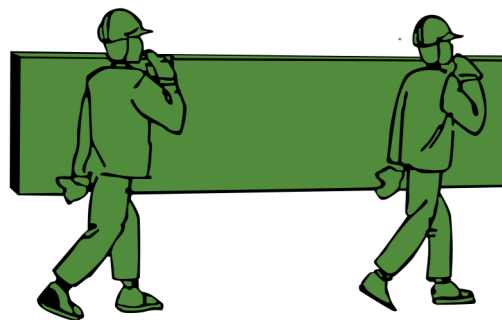
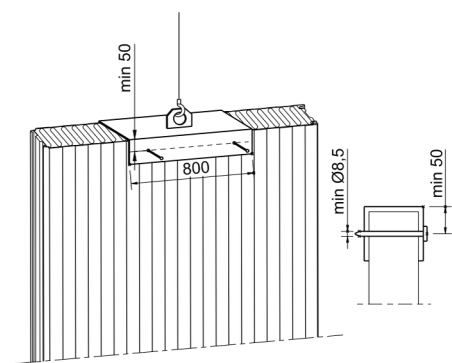
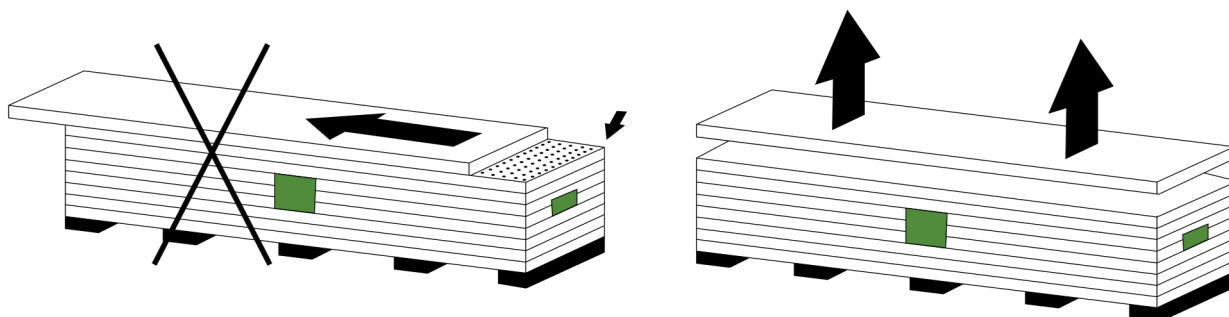


After opening panel packages, it is strictly forbidden to pull out the top panel. All panels should be removed one by one, lifting them without rubbing against the lower panel.

Loading and unloading operations must be carried out using vertical lifting devices (vacuum lifters, cable guides, special equipment) and a sufficient number of workers.

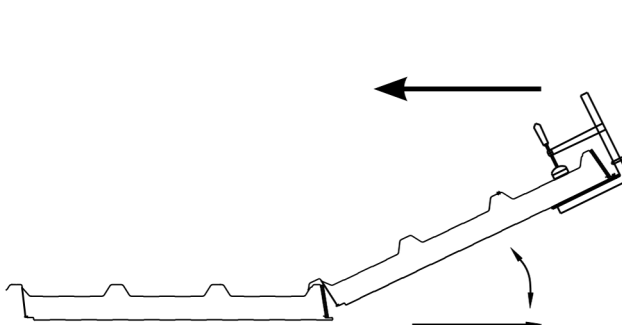


- When carrying panels, avoid holding them by connecting elements or sheet covering.
- Otherwise, the metal sheet may separate from the insulation material.



Panels are installed against the prevailing wind direction.

Installation is carried out according to the connection nodes of roof and wall panels, which can be mounted vertically or diagonally.



OUR CLIENTS AND PARTNERS

To date, our company successfully collaborates with numerous clients from various industries. For us, every client is a unique project, a special responsibility, and a relationship based on trust. The logos presented below are a visual confirmation of our clients' trust in our professional activities, product quality, and services provided.

In our work, we collaborate with companies in industry, agriculture, logistics, trade, and manufacturing. Each project is executed individually, taking into account the client's requirements, technical specifications, and site conditions. We don't just supply products — we provide comprehensive solutions.

Our clients choose us for high-quality materials, modern technologies, precise execution, and strict adherence to deadlines. All production processes comply with international standards and technical norms, ensuring the durability and reliability of our products.

The most important criterion for us is client trust. This trust motivates us to continuously develop, improve the quality of our products and services, and maintain a high professional level. Many of our clients have established long-term and stable partnerships with us, which is the highest recognition of our work.

The companies listed below have successfully implemented their projects in collaboration with us. Their choice reflects our experience, responsibility, and professional approach. In the future, we strive to remain a reliable partner and provide effective, high-quality solutions for every client.

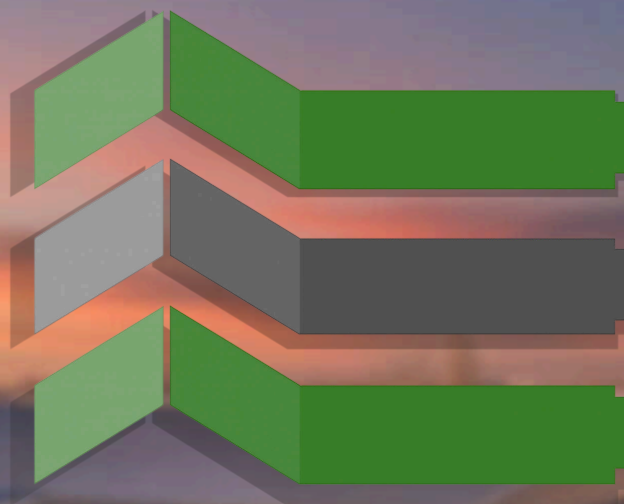




We strive for continuous improvement and development, meeting all legal and customer requirements in the field of environmental protection. In this direction, within our technical, economic, and technological capabilities, we have created the most environmentally friendly conditions.

We acted with care and diligence to preserve natural resources when using raw materials. In designing the plant and processes, we adopted the principle of raising awareness among our employees, neighbors, and subcontractors, taking environmental impacts into account.

To improve the environmental impact of our products, we have always maintained communication with solution partners and suppliers. Additionally, we recycled waste generated during production and brought our environmentally friendly quality level up to world standards.



EcoProm

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PANELS



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