ENAMELLED ARCHITECTURAL PANELS

For more than 20 years our company has been specialized in production of enamelled products for informational, architectural and other purposes. Our company is equipped with machinery and modern production lines manufactured in Europe. Qualified personnel and European technologies allow us to solve complex problems for the development of new, non-standard products in a short time and with high quality. We have following production facilities:
- injection moulding and procurement workshop;
- enamelling workshop;
- boilers workshop;
- silk-screen printing workshop;
- appliqué area.

The main objective of our company is the maximum level customer satisfaction in our products.
Metal enamelling technology has been known and widely used for a long time and has established itself at its best: it is used in the food industry, pharmaceutical industry, chemical industry, electrical engineering, architecture, information products, energy.
Metal enamelling technology used at our factory is organized with all the advances in science and technology and allows applying a special protective layer to the surface of steel products, which has excellent aesthetic characteristics and durability.

Wide range of colours, size and shape of the panels allow to embody ideas of architects
Industrial enamelling of metals is a complex and time-consuming process, which implies the presence of a modern high-precision equipment and high-quality materials to create durable coatings. When melting, enamel is actually welded to metallic surfaces, forming a stable and durable protective layer.
Our company operates an enamelling laboratory which ensures compliance with the technology of preparing materials for application and quality of their application.
Firing enamel is carried out at high temperatures. For this purpose, our company has 3 kilns of various capacity and purpose.
Kilns can provide firing for small parts and manufacture products up to 1800 mm x 3600 mm inclusive.

Subway station with enamelled architectural panels
The technology of enamelling different kinds of metals has its own peculiarities. Since the sustainability of the coating depends not only on the compliance with the technical process, but also on the degree of preparation of the metal surface to this type of treatment, our company uses high-performance line for preparation of metal surfaces for the subsequent application of enamel manufactured in Europe.

Coating facades with enamelled architectural panels gives an excellent appearance to any building
ENAMELED FACADE PANELS AND THERMAL PANELS

In order to modernize and increase the energy efficiency of the objects, we have developed a system of exterior thermal insulation of building walls and other objects using unique technologies. Our company applies advanced technologies manufacturing steel architectural panels and enamelling using silicate enamel (vitreous). In order to solve the problem of acoustic protection of buildings (noise and vibration protection), as well as to increase the thermal resistance of buildings and structures of protections we apply fillers which are installed into architectural panels using a special technology and have appropriate thermal insulation and sound insulation properties.

Advantages of our product:
- resistance to any weather conditions and a number of aggressive environments;
- long-term service of coating (over 30 years);
- fire resistance;
- no fading effect and resistance to UV radiation;
- vandal-resistant (easy removal of graffiti with the help of solvents without damaging the enamel layer and deterioration in appearance). Mohs hardness is 6.
- by agreement, panels can be manufactured in a variety of sizes and shapes, allowing architects to implement modern solutions in facade design;
- it is possible to produce architectural panels of wide palette of colours and shades;
- it is possible to apply graphics, signs and images to the panels, including simulating the texture of stone and wood, by applying ceramic paints and decals. The resulting image has all the properties of the substrate material;
- optimal compliance with the energy efficiency requirements of modernization, quick installation and manufacturability;
- can be used as a part of facade design together with enamel facade thermo panels (EFT), or without heat-insulating filler (as a high-quality facing layer in ventilated curtain facades (VCF)).

Application of architectural panels with sound-absorbing filler in the subway and tunnels allows not only to get an excellent finish, but also significantly reduces the noise level.

Enamelled facade thermal panels (EFT) are steel enamelled panels with built-in thermal insulation structure. EFT are used for reconstruction, insulation and facade cladding. We use fire-resistant panel core and we use non-combustible filler as a heater. After carrying out calculations on the project with panel layout, EFT panels are produced, packed and shipped to the customer. Ready EFT are attached to the facade of the building being insulated, using the selected subsystem (frame or mounting kits). Attachment subsystems for EFT allow to eliminate irregularities of the walls and align the corners of the building. Installation of EFT can be carried out on any surface (tile, concrete, wood, old brick, slag, etc.), but at the stage of design there should be determined the bearing capacity of the building’s envelope and foundations, as installing additional structures on the building envelope increases the load that requires verification calculations.

EFT installation is quick and simple, and is as follows:
1. Marking the wall, mounting the subsystem (fastening elements);
2. Installing EFT panels;
3. Sealing of joints between EFT panels.
ENAMELED FACADE PANELS AND THERMAL PANELS

Joints between EFT panels are filled with a thermo sealant when the facade works are finished. As a result there is no circulation of air gap between the envelope surface and thermal panels (no effect of ventilated facade, in this case the air acts as an insulator).

Thermal panels offer several advantages over traditional methods of thermal insulation and facade cladding:
- a wide choice of colours and forms;
- the possibility of warming up in all seasons;
- quick installation ("dry" method);
- frost-resistance;
- high stability and durability;
- good sound insulation and anti-vibration properties;
- non-combustible materials;
- water resistant, repel moisture.

Guaranteed lifetime of the coating is more than 30 years

Using thermal panels allows to perform a "turnkey" insulation of buildings and give it a modern and aesthetic appearance, to carry out works in a short time and at the same time reduce laboriousness and cost of installation.

The products are manufactured on a modern production line with the use of high quality raw materials for enamelling and special types of steel, according to the requirements of the standards and directives for the production of this type.

Technologically it is possible to produce enamelled architectural panels of any colour and design with maximum dimensions of 1.8 m x 3.6 m.

Warranty period of the panel coating is more than 30 years.

With the absence of corrosion processes, UV resistance and resistance to other aggressive influences, lifetime/price ratio makes our products the best choice for use in building construction and also solves the problems of reducing heat loss through the building envelope, noise protection and increases the energy efficiency of the buildings.

There are different types of subsystems for mounting architectural panels.

EFT calculations help to determine the required thickness of the insulating structure

By installing our architectural panels you get:

- BUILDING COATING OF HIGH QUALITY
- SOLVE THE PROBLEMS WITH THE HEAT INSULATION AND ACOUSTIC PROTECTION
- REDUCE INSTALLATION COST AND TIME

WE HOPE FOR MUTUALLY BENEFICIAL COOPERATION!