FREE FORM
TECHNOLOGY

SABO
SYSTEMS

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ABOUT SABO

Considerable experience of the engineering team gained throughthe years of work allows providing each client with quality service and supervision at any stage of the design , manufacture andmending.

The company implements a complex approach for building facades using the mostadvanced technologies, including the use of spatial-rodstructures. The company hasbeen manufacturing the glazing systems for the last five years, applying a “free form” technology. Special attention is paid to the choice of materials, the quality of products and the services offered, staff efficiency andprofessionalism. All these are the aspects that make the companyreliable and preferable for anyclient.

SABO COMPANY IS ONE OF THE LEADING IN THE SECTOR OF COMPLEX FACADES DESIGN IN RUSSIA

Innovative projects

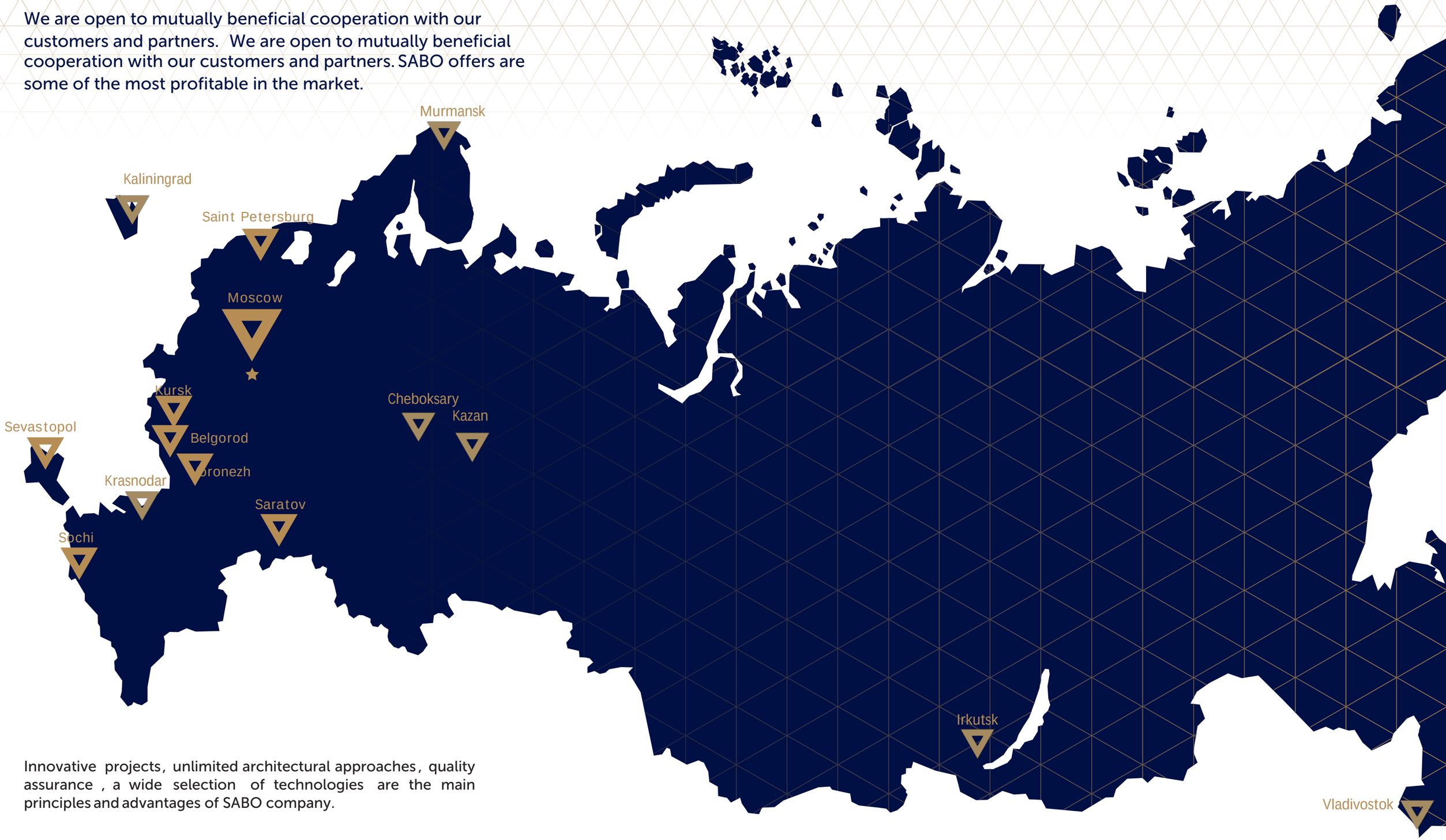
Quality assurance

Wide range of architecturalscope

Wide rangeof technologies

SABO GEOGRAPHY OF WORKS

We are open to mutually beneficial cooperation with our customers and partners. We are open to mutually beneficial cooperation with our customers and partners. SABO offers are some of the most profitable in the market.



Innovative projects, unlimited architectural approaches, quality assurance , a wide selection of technologies are the main principles and advantages of SABO company.

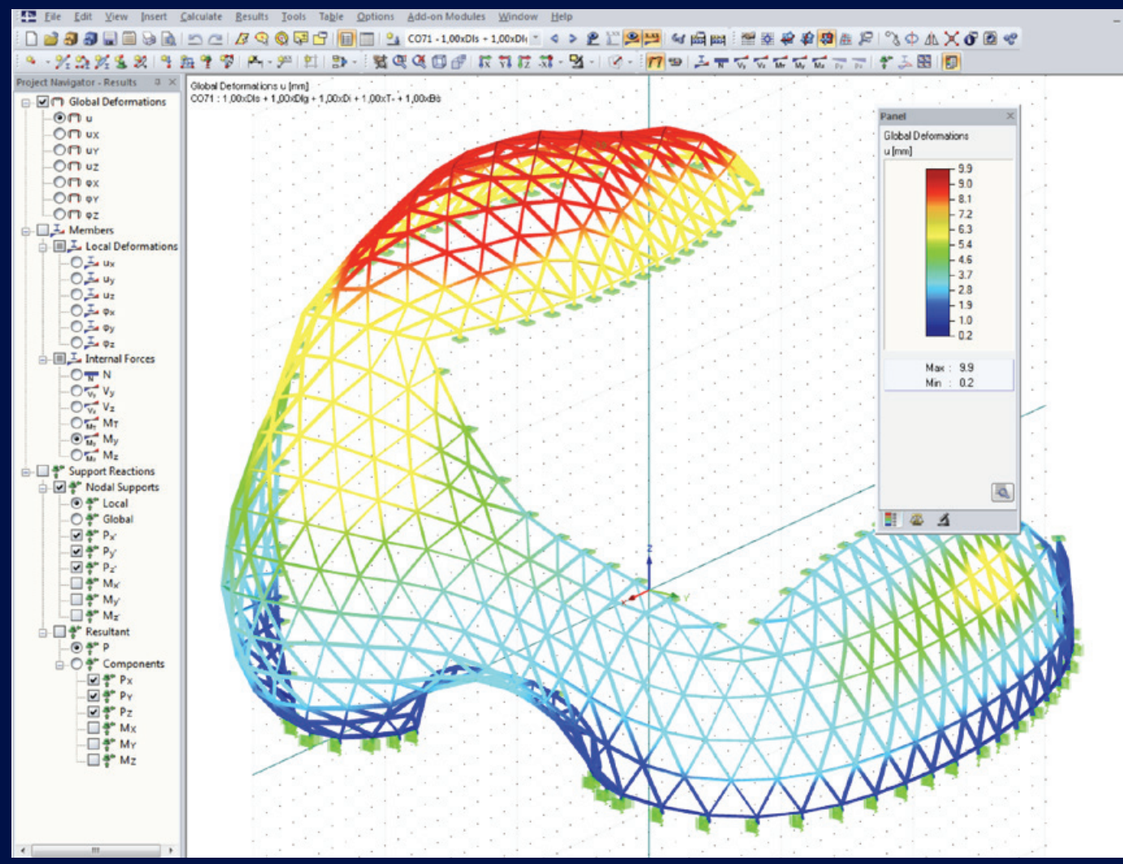
DESIGN AND ENGENEERING

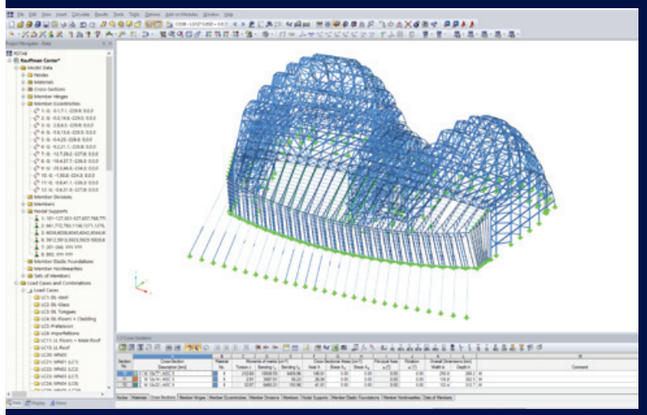
Professional technical advice and project preparation of any complexity are the main advantages of our design department. Using the most modern computer equipment and the latest software, we give the customers an opportunity to choose the perfect design and performance

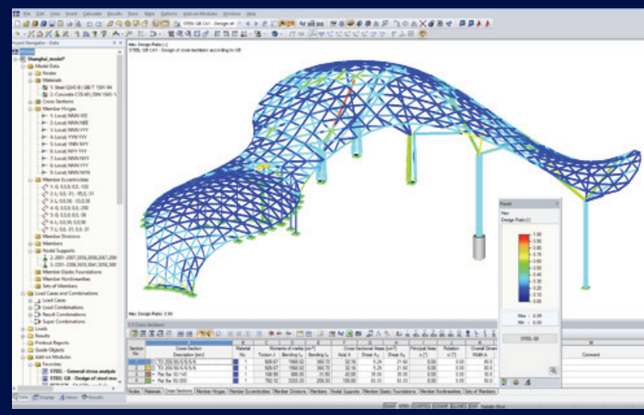
Based on innovative methods of designing and manufacturing high-quality building systems, we offer one of the most optimal architectural and structural solutions - the SABO system.

Our design department is a close-knit and experienced team united by professionalism. During five years, we developed more than eighty projects. We provide design in various ways and ideas, degrees of complexity and functionality:

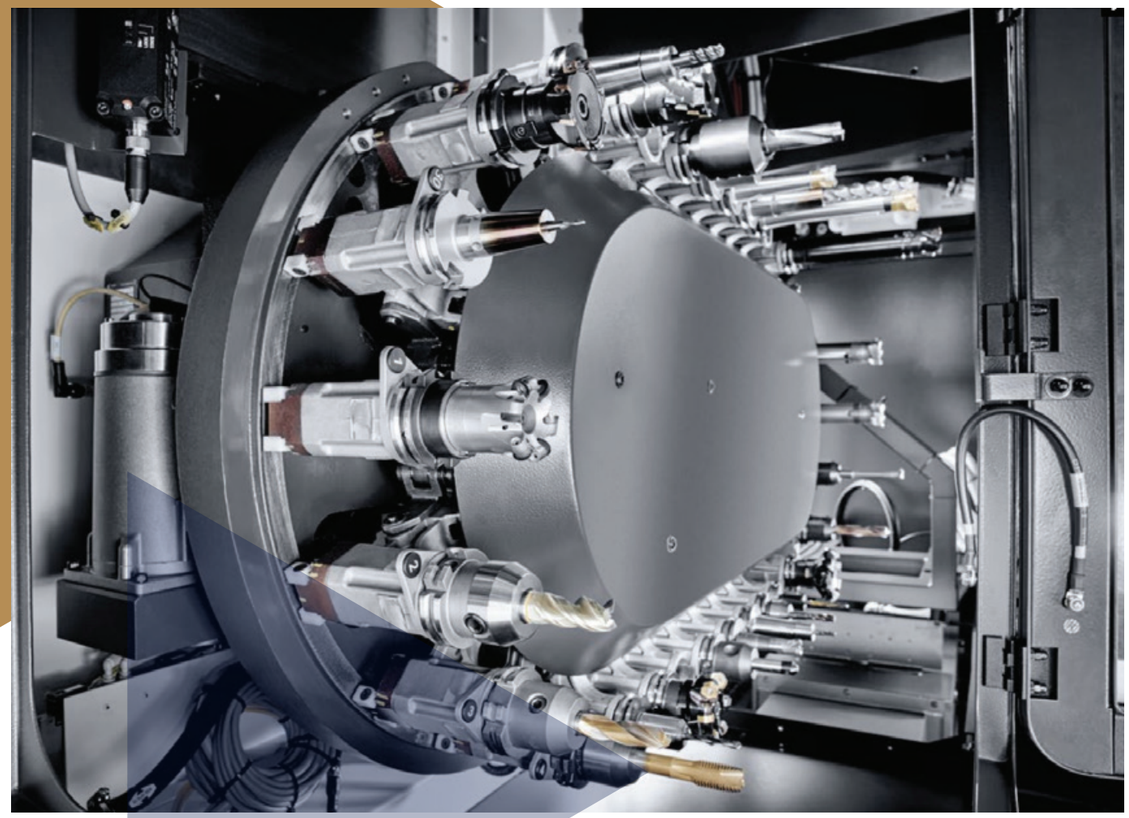
- The development of the architectural concept of the construction site
- The preparation of the technical certificate
- The technical specifications of the design preparation
- An outline and detailedengineerin g term
- State examination process
- The preparation of executive documentation aimed for the delivery facility and the use of the construction site
- The warranty and after the warranty service







All components undergo careful selection and quality control at all production stages.



The strength of each and every component and assemblies is verified by a variety of comprehensive tests.

THE PRODUCTION

Our company has

more 12 000 м²

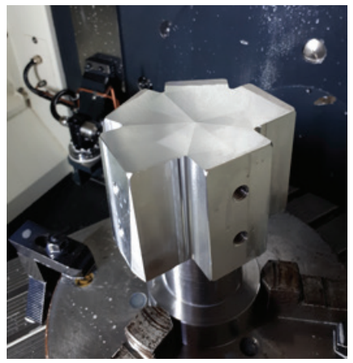
of production area

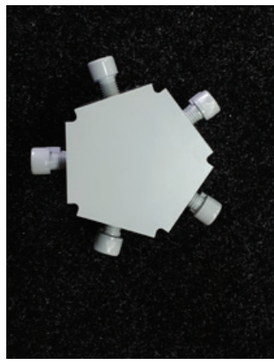
own five-axis machining centre, a set of metalworking equipment, a paint shop, a fleet of vehicles and lifting equipment

which allows to produce

up to 2 000 м²

of spatial-rod structures (of any complexity) per month





free form technology

Each component of SABO system is designed , developed and manufactured in strict compliance with technological requirements , which guarantees quick installation and long-term safe use.

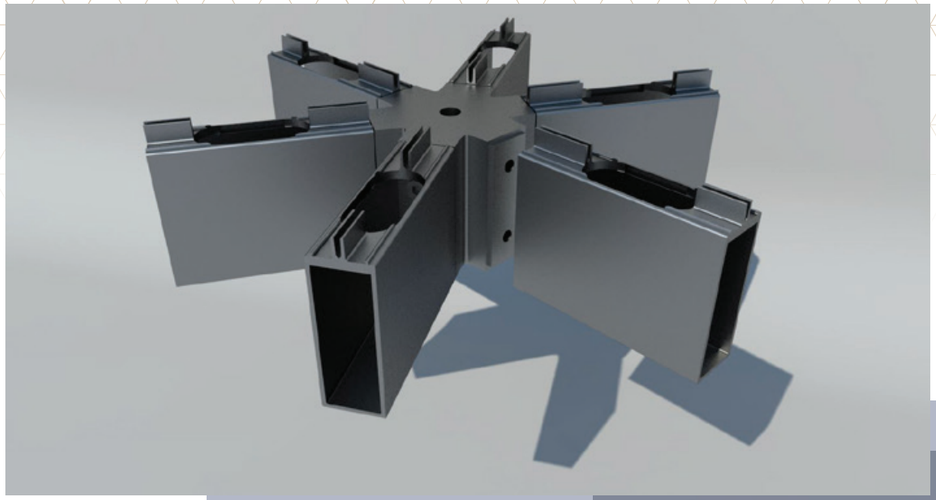
The tendencies of modern product development often require the complex of five-sided metal processing to be performed in just one installation of the part in the operating site. A high-quality, high-speed, fully automatic five-axis milling machine is the main tool for this purpose. The company employs experienced staff specialised in building and engineering.

They possess high qualifications and good practical knowledge and skills. Careful control at any stage of the design and strict adherence to process technology makes it possible to organise the production of complex spatial structures.

SABO SYSTEM

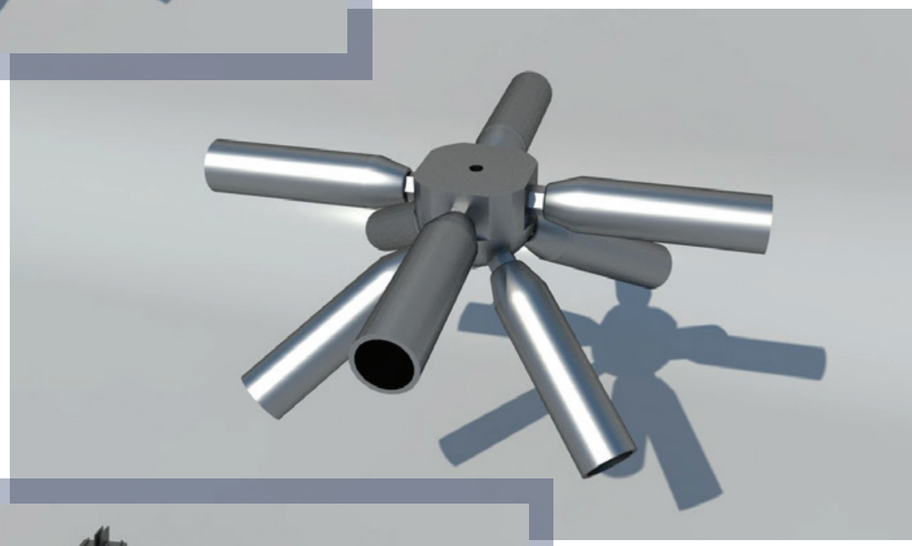
The basic advantages of the system:

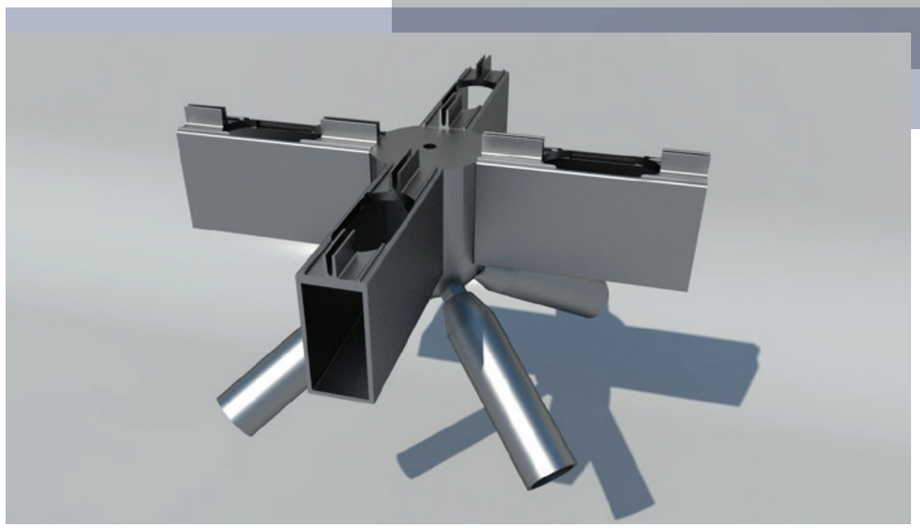
- High structural strength undermined by the equable load distribution
- Considerably low weight compared to similar metal and reinforced concrete structures
- Exterior and interior attractiveness
- Reliability (the use of durable, solid and environmentally friendly materials: corrosion-resistant galvanised steel or aluminium, processed by powder coating. There is an option to apply some extra application of fire coatings)
- High speed of installation work due to the absence of welding and the need to use heavy lifting equipment
- Reasonably convenient logistics (the construction consists of small elements, allowing you to significantly save on costs during transportation and installation)



System performance options:

- A one level or two-level construction
- The possibility to perform up to 18 onnections on one nodal element
- The manufacturing of the elements using high strength aluminium or steel





Mounting and installation

The single-layer mesh construction of triangular geometry is designed on the basis of cylindrical nodal elements and hollow rectangular steel pipes (rods) with embedded elements.

Node elements are made of tool steel and rods are connected without welding technologies using high-strength bolts with a strength class of at least 10.9. which provides not only structural strength but also an increase in the production and short installation period.

The platforms accepting the rods are milled at the nodal element.

A steel or aluminum profile of the outside press-on system is installed on the mesh structureusing specialfasteners system.

By mounting three types of rubber gaskets a three-level condensate drain is achieved.

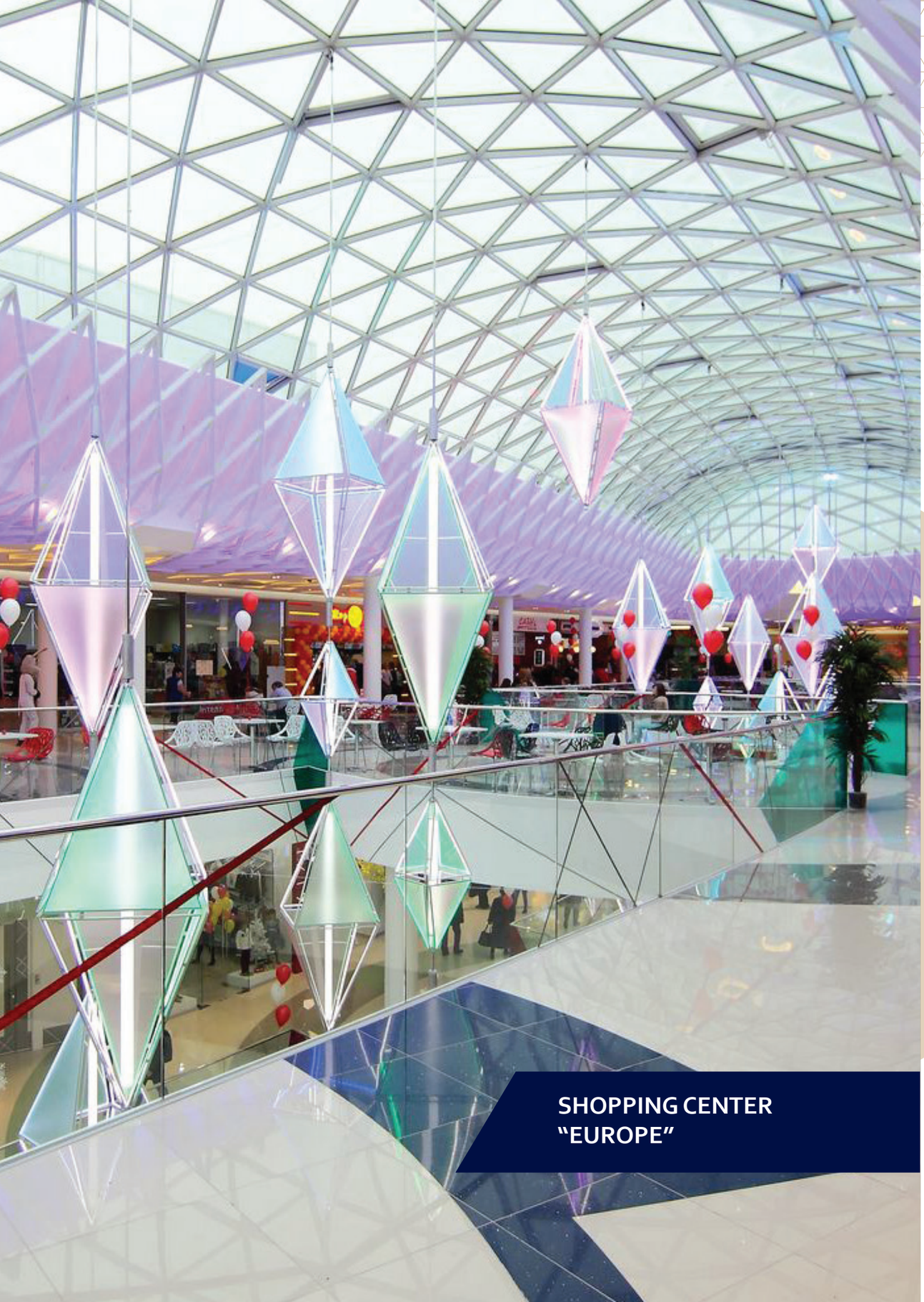
Double-glazed windows are installed on the rubber seals, followed by sealing the joints with DowCorning 791 weather-resistant silicone sealant.

Structural glazingtecnologyis a single glass surface. It does not hamper water and snow draining. It performs improved thermal insulation characteristics.

Double -glazed window parts are fastened by internal clamps , which areinstalledaccordingto the recommendations provided by themanufacturer of ofthe outside press-on systemor according to the terms and conditions of use referred to theemergency holders.

PORTFOLIO

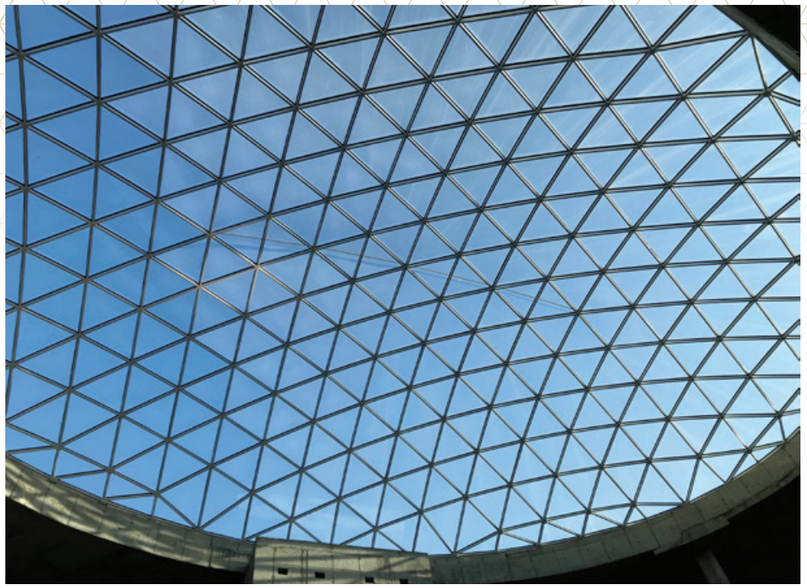
The key advantage of the mesh structure is the reduction of electric light in the interior and the expenses for the electricity by use of the translucent coatings for the construction shells.



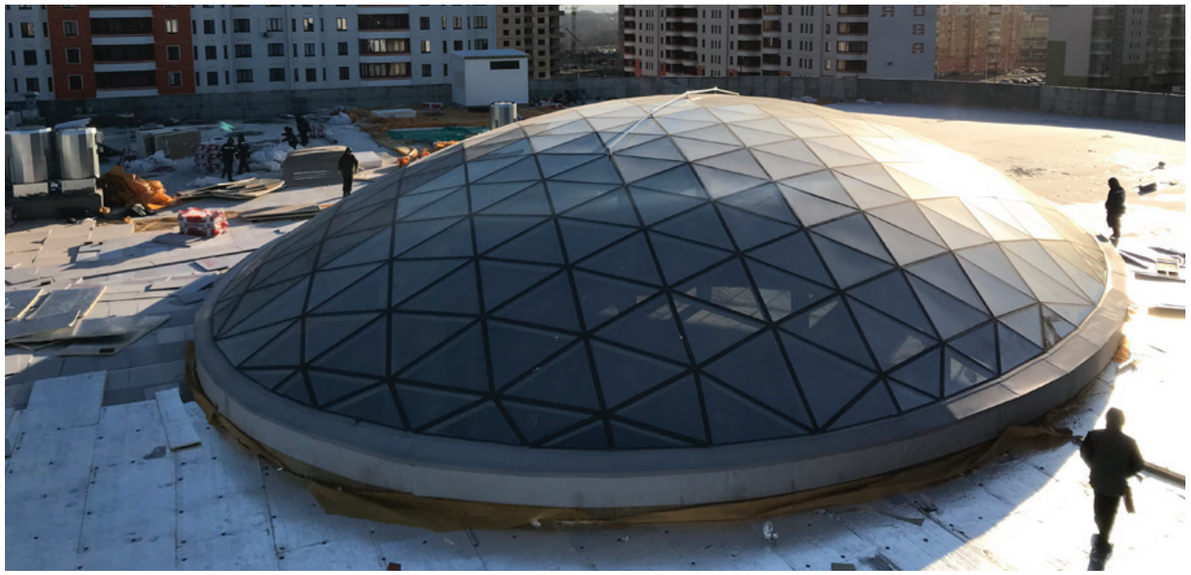
SHOPPING CENTER "EUROPE"

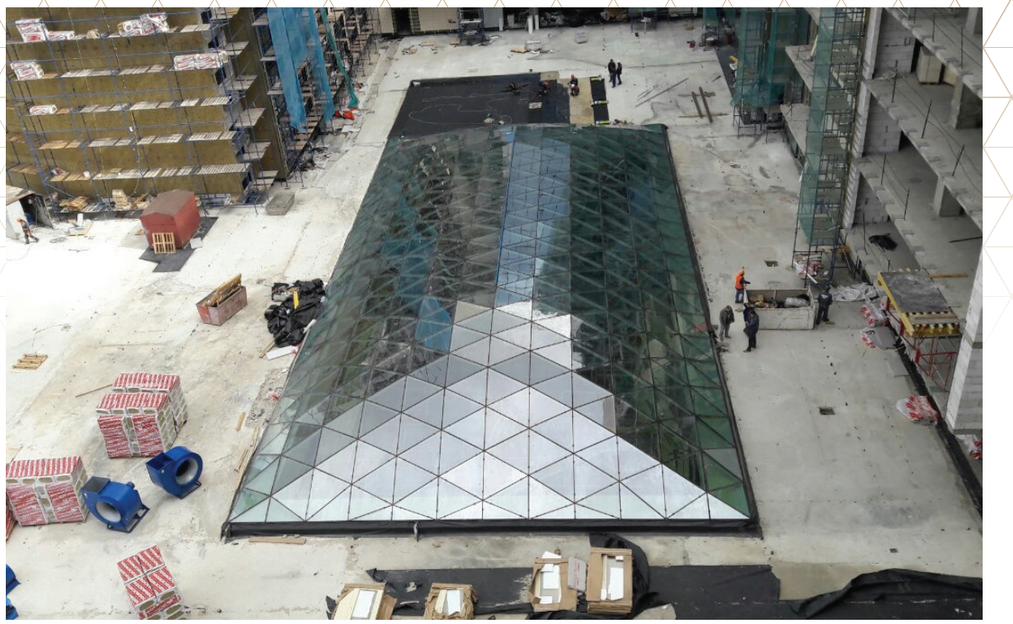
"CENTRAL PARK"

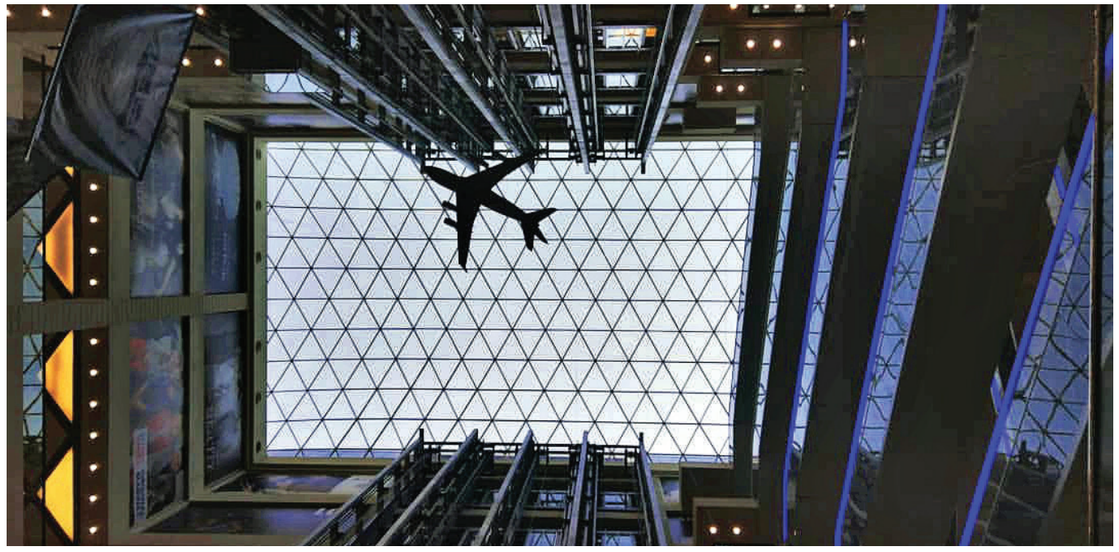

IMAX
СЕГОДНЯ НА ЭКРАНАХ
house



SHOPPING CENTER "DAF"





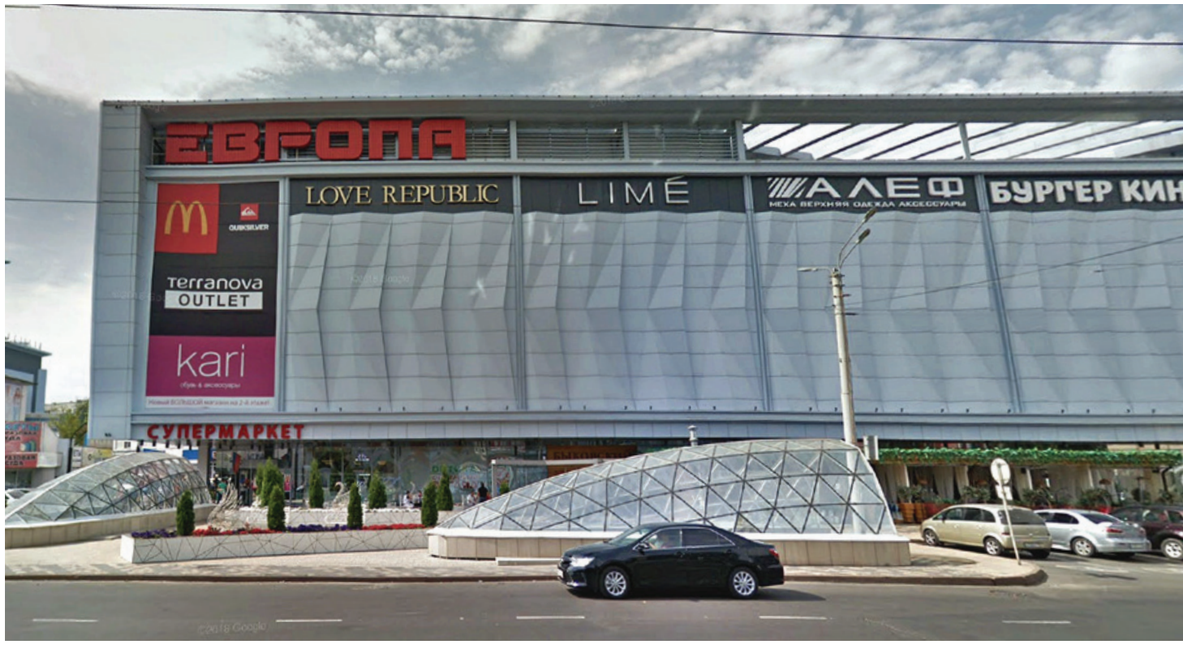


GALLERY CHIZHOV

CROSSWALK

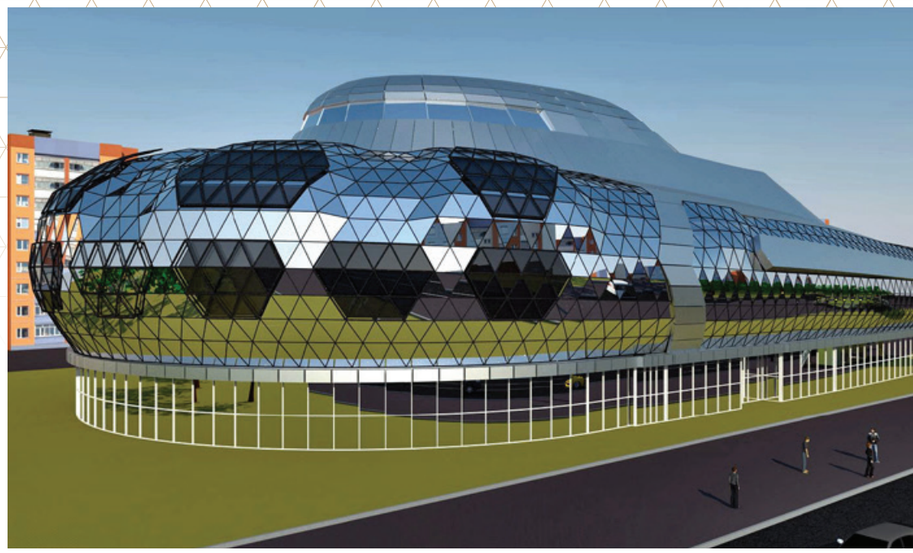

МЕБЕЛЬ
ТОВАРЫ
-1
ЭТАЖ
ЕВРОПА
СУПЕРМАРКЕТ

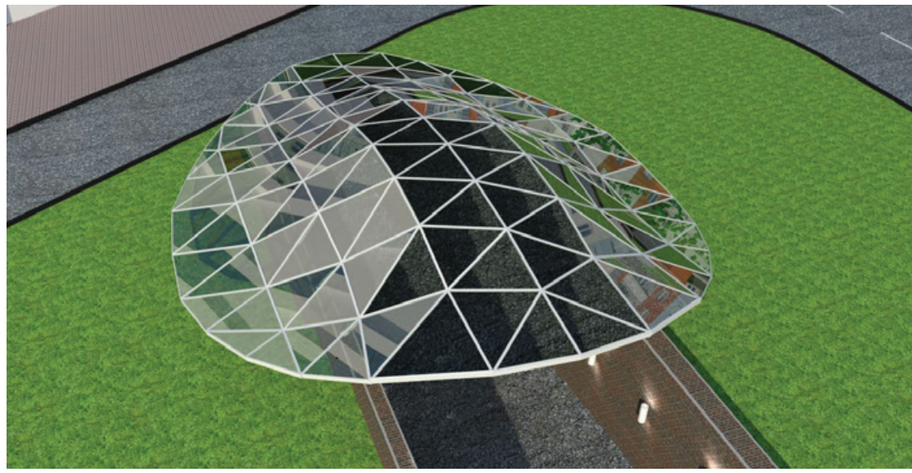

-1
ЭТАЖ

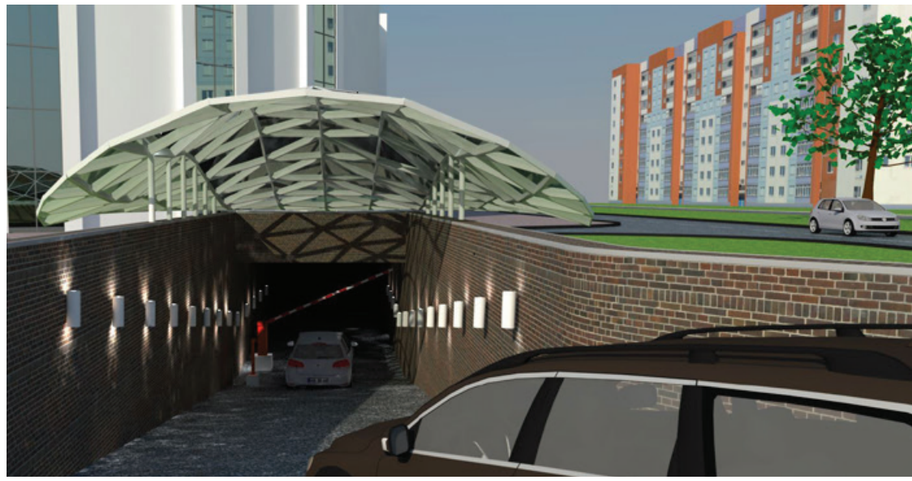

ЕВРОПА
LOVE REPUBLIC
LIMÉ
АЛЕФ
БУРГЕР КИН
Terranova
OUTLET
kari
СУПЕРМАРКЕТ

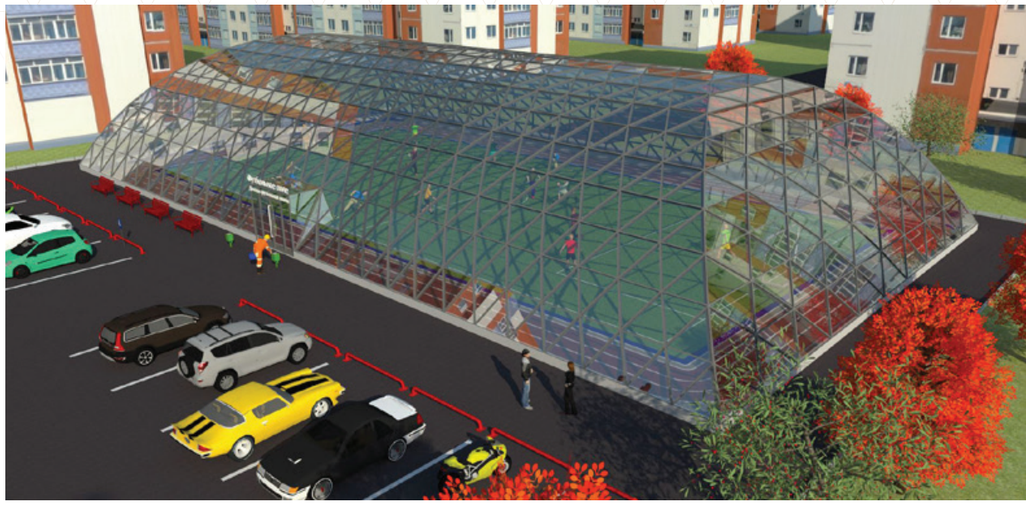
Projects

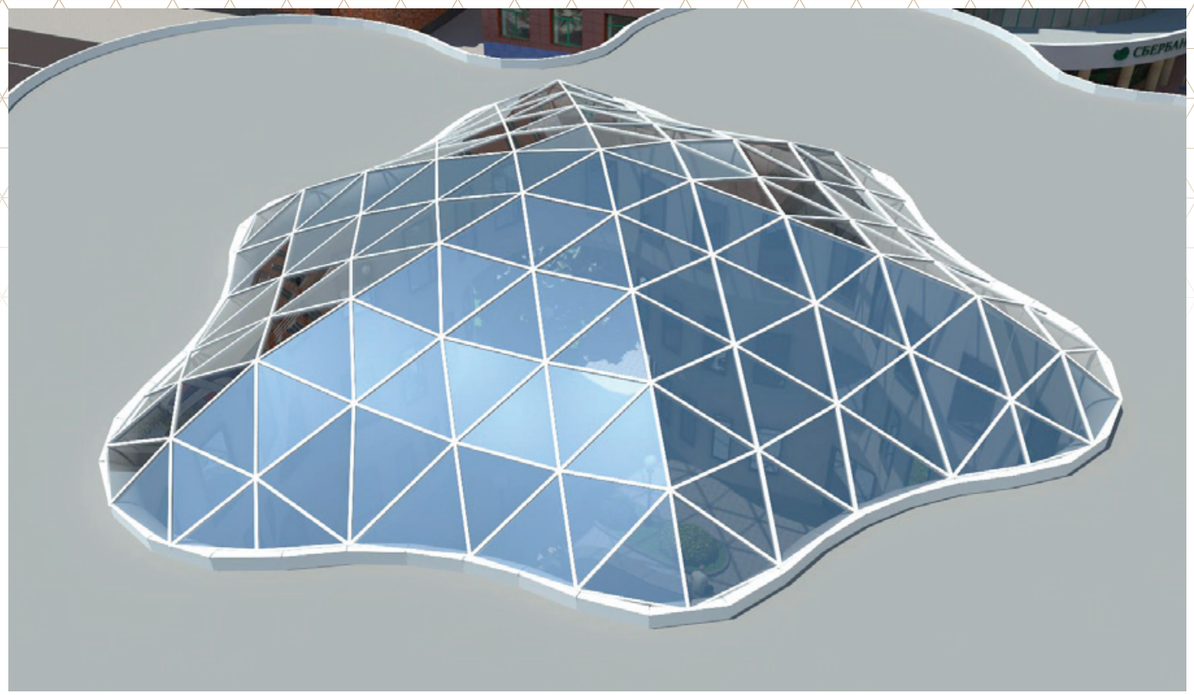
An integrated approach implemented for task solving allows customers to significantly reduce the time and financial costs of each project.

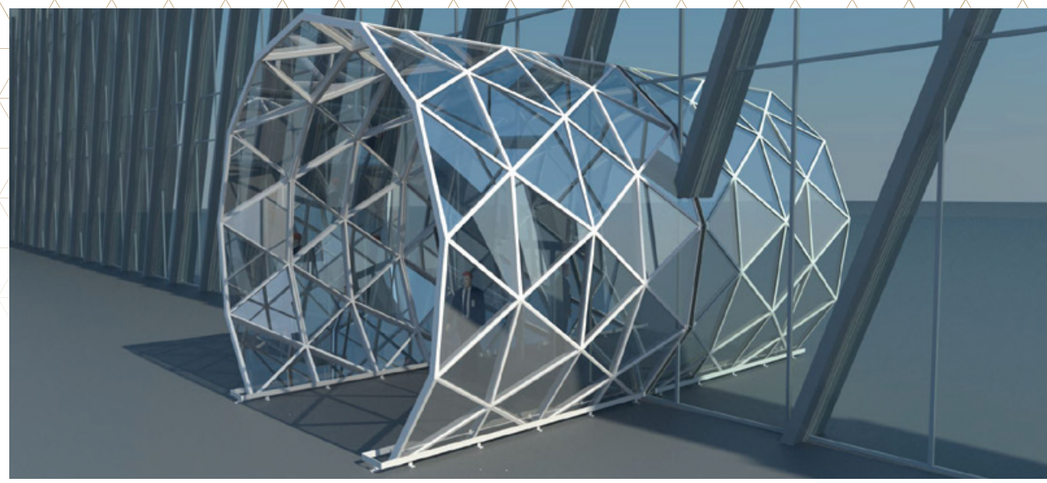


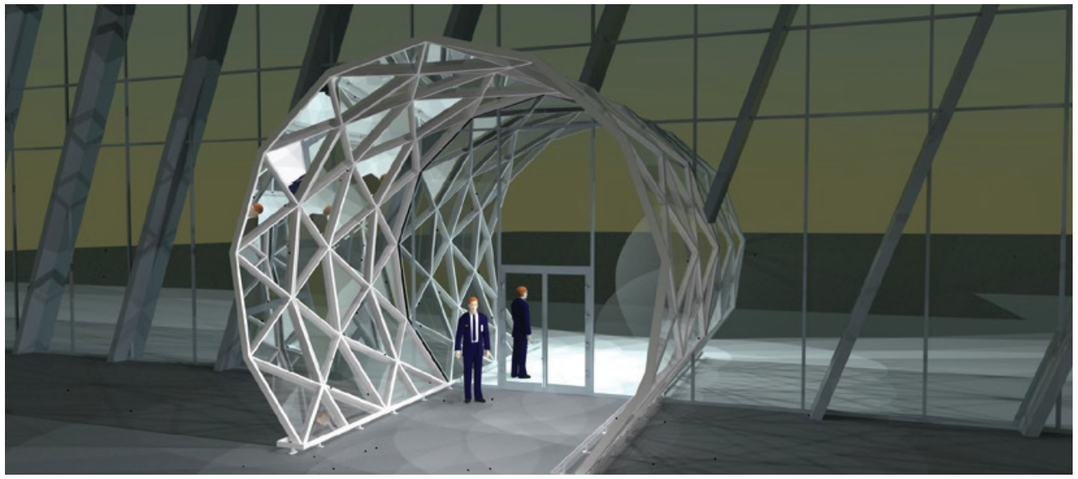


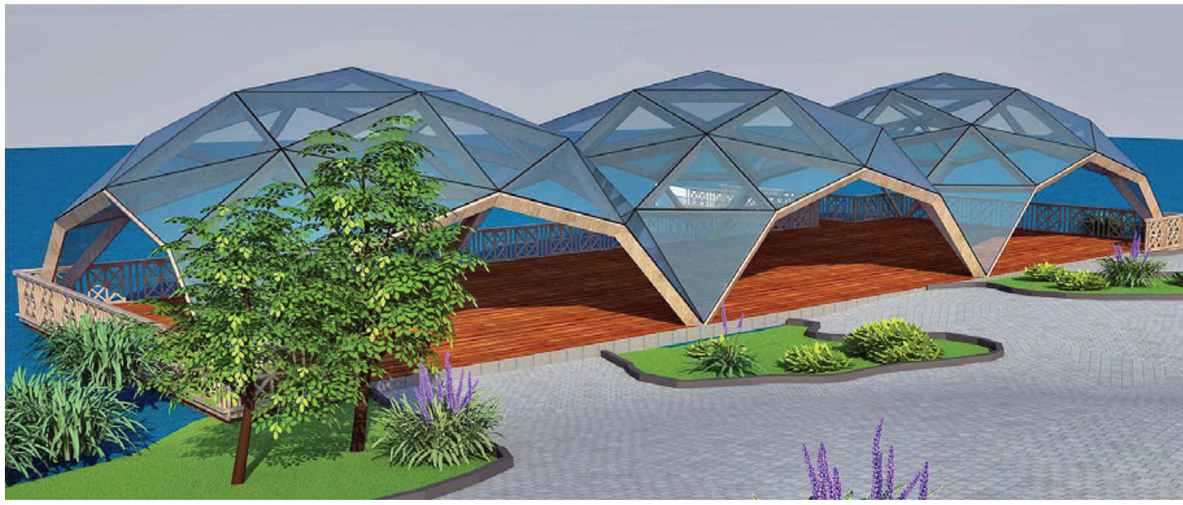


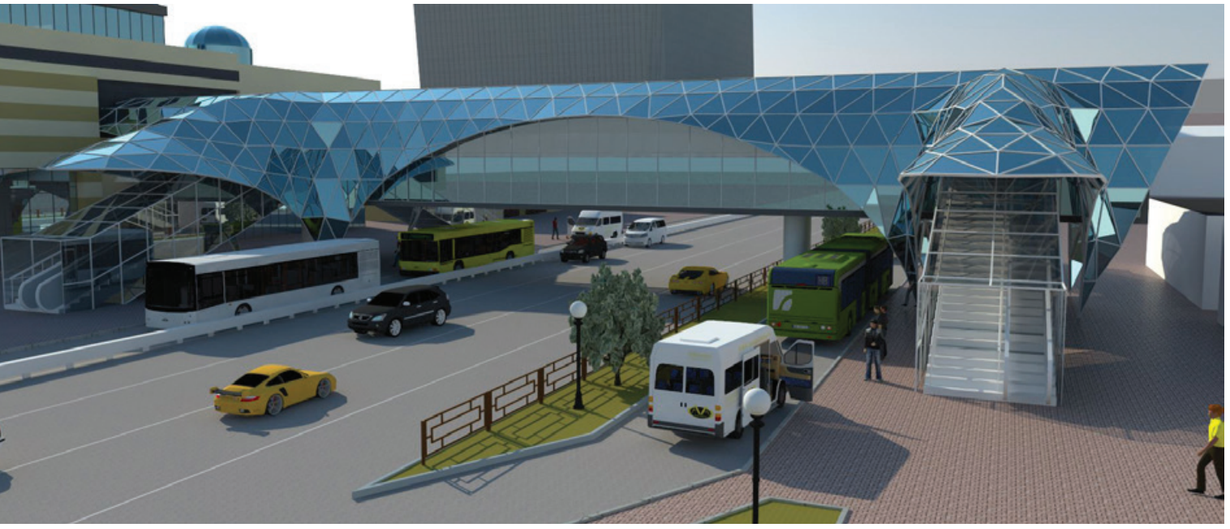


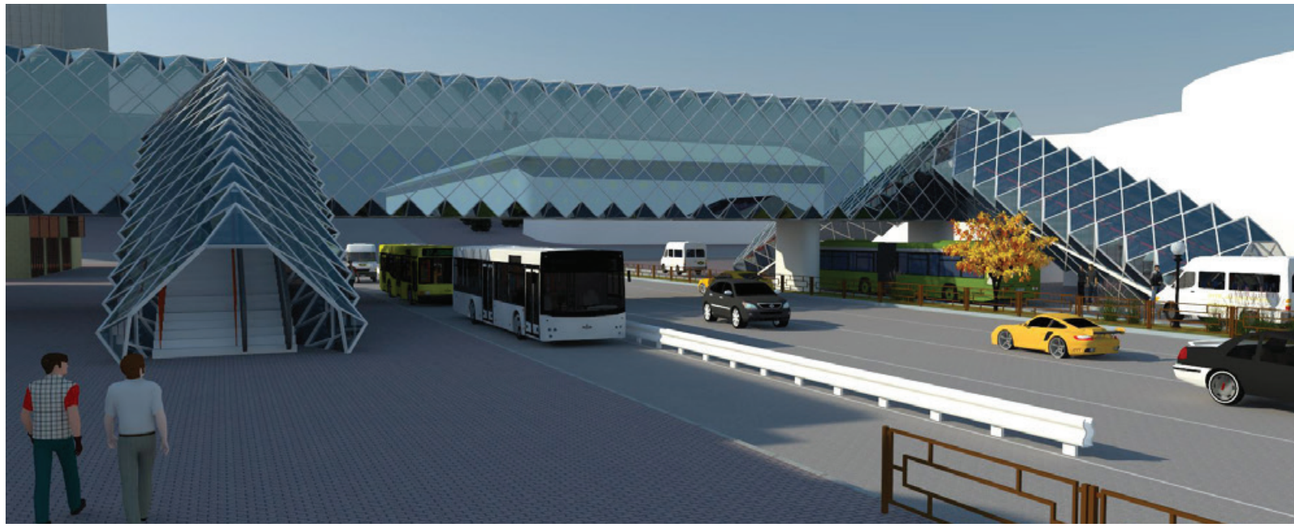












Documentation

Materials used in manufacturing:

- Aluminum girder made of alloys Ad31, Ad35 or similar in accordance with State standard GOST 22233-2001
- Protective and decorative coatings in accordance with State standard GOST 9. 303, GOST 9.410, GOST 9.305
- Steel girder in accordance with SP 16.13330.2011
- Glass in accordance with State standard GOST 111-2001
- Double-glazed windows in accordance with State standard GOST 24866-2014
- Thermal insulating elements and inserts in accordance with State standard OST 30673
- Connectors and fasteners (self-tapping screws, bolts, nuts, etc.) made of stainless steel according to State standard GOST 11738, GOST 5632, GOST 20072 or other applicable regulatory and technical documentation.
- The construction elements that ensure the fastening and the supporting of building structures according to the current regulatory and technical documentation

Types of work performing a protective coating:

- Mechanized cleaning in accordance with State standard GOST 9.402-2004
- Hot-dip galvanizing according to State standard GOST 9.307-89
- Powder coating according to State standard GOST 9.410-88.

The quality of work performed corresponds to State standard

- GOST 23118-2012
- SP 53-101-98

SABO SYSTEMS

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