



SAVABIEN

A window into the future



SAVABIEN DOO
Aluminium plant, Indjija

 **SAVABIEN** *A window into the future*



SAVABIEN DOO
Glass plant, Surcin

about us

SAVABIEN was founded in 2006, with its headquarters located in Vojvodjanska street number 394a in Belgrade. Ongoing investments in software solutions and the latest manufacturing technologies, as well as two modern factories covering 10.000 m², make SAVABIEN one of the leading companies in the region for the processing of glass and aluminum.

SAVABIEN adopted an integrated system management policy, which was based on achieving and maintaining a reputation in management, providing quicker, forehand and efficient services for the buyers with the goal of satisfying their demands, needs and expectations. Top quality products, establishment and maintenance of the environmental management system and continuous improvement of offers and services are top priorities in establishing long-term company business policy.

We operate professionally, responsibly and with consideration. We respect differences and are responsible for all our employees, develop a working environment and mutual trust. We are constantly investing in the working space and take constant care of protecting and improving the environment.



Our vision

Our main goal is to be the leader in the manufacturing of glass and aluminium, as well as in the manufacturing of aluminium windows, doors and facade elements. We aim to be a profitable, socially responsible and market-oriented company with an important role in the region and in Europe, Asia and Africa as well.

Our mission

To be a reliable supplier to the market with high-quality products, continuously improving what we offer and our services, as well as solidly cooperating with partners and buyers who represent the foundations of our operations.

aluminium plant

Technical characteristics of Indjija plant:

- Plant surface: 4300 m²
- Automated manufacturing line for aluminium structures by world famous German manufacturer *Elumatec*
- Manufacturing capacities are around 120 units per eight hour shift
- Processing of aluminium and PVC profiles (as well as wood-aluminium and aluminium-wood profiles)
- Unique CIM production concept
- The latest software tools (PrefSuite, Orgadata, Elusoft, etc.)

Capacities

The plant in Indjija is meant for the production of aluminium joinery of top quality, whether they are windows, doors, facade or interior elements. During the manufacturing process, the strictest European rules and regulations are applied, from supplying high-quality goods to quality control at the end of the process. Top technology and materials, along with dedicated experts ensure the quality, safety and sureness of every product.

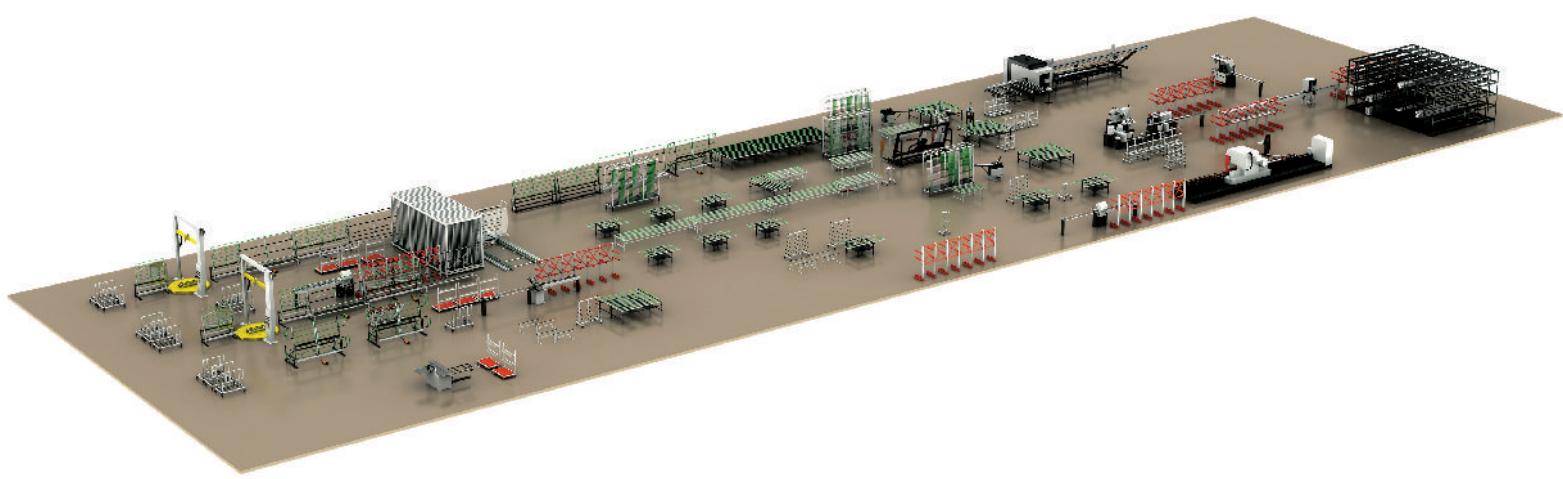
We are able to answer all the needs of modern architecture and manufacture all types of aluminium facades and joinery in our plant, in cooperation with reputable manufacturers of aluminium profiles.

In addition to classical, semi-structural and structural AL curtain walls, we also have experience in making ventilated facades - from composite AL panels (etalbond and alukobond for instance) and flat materials (trespa, fundermax, parklex), to lining of ceramic granite and ceramic tiles.

In all the phases of project performance we insist on precision and accuracy not only in functionality and quality of performance but also in respecting and meeting demanded deadlines as well.

The plant in Indjija has the newest equipment for processing of aluminium profiles. Integrated management of production and all the resources is done through PrefSuite software package (ERP system). Technical design of manufacturing orders and requests are processed by either Orgadata LogiKal® software (which provides the database for numerous well-known profile manufacturers)





Aluminium plant

Unique conception of production with integrated handling, machining centres and the latest machineries (saws, mills, pincers, etc.), with the newest systems for product quality and automated packaging control guarantees safe and secure product of top quality.

or *Elumatec EluSoft-EluCad* graphics program. Putting orders to work is done through direct line between the technical preparation and the machine park itself. Through *EluSoft* the machining centres SBZ151 (line for processing of special requirements in production) and SBZ630 (line for serial production of doors and windows) can be managed directly.

The production itself is based on the concept of computer integrated manufacturing (CIM), that is, the whole manufacturing process is controlled by the newest computer. The main goal of CIM technology is to increase the speed and efficiency of production. By using the availability of information on the monitors of every working position as well as following all the segments of production with the help of *PrefCIM* software, we are able to optimize production in every segment and by doing that respond to all the set tasks.

Energy efficient aluminium doors and windows

A large pallet of colours and anodising, combined with various types of glass enables us to fulfil all the aesthetic demands of modern architecture and to fulfil the strictest requirements while saving energy. First of all, quality and energy-efficient joinery is an excellent investment and long-term solution for every home and that is why it is our primary focus. Nowadays, an energy-efficient window represents a synergy of all of its components – profiles from which it was made of and low-emission glass. It is with pride that we offer a whole line of energy-smart options with significantly reduced adverse impacts on the environment. A team of *SAVABIEN* experts is always dedicated to research and development of rational and efficient solutions that will increase the overall energy-efficiency of the object.

glass plant

Technical characteristics of Surcin plant:

- Plant surface: 5,500 m²
- Automated manufacturing line for insulating glass units, by world famous Austrian manufacturer LISEC
- Manufacturing capacities are around 800 units (~800 m²) per eight hour shifts
- All types of glass processing (grinding, drilling, sandblasting, laminating, tempering, etc.)

SAVABIEN processes all types of one-sided glass and produces all types of thermo insulated glass units (double-layered, triple-layered). We use and apply all types of mouldings which are processed on an automated flexing table (aluminium, PVC mouldings with improved thermals, called *warm edge*...). Also, we manufacture all types of facade glass with and without overhang and own the Dow Corning certificate for structural "sealing" of glass panel.

On the automated line for thermal-insulated glass we can produce thermal glass panel in dimensions ranging from 185x350mm to 4500x2700mm. Through the process of lamination we produce multilayer laminated glass of various composition and thickness, with the maximum size of 1900x2800mm.

We manufacture all kinds of multilayered armoured glass as well as glass sheeted with anti-foil (for shop windows eg.). The level of 100 micron anti-vandal foil covered glass is P7B or BS EN356 P8B, which is more than 70 hits of an axe before the total penetration of foil and glass.

The description of thermo package

Thermal insulation glass unit (IGU) also called thermo package or thermal, is a package made of two or three one- sided glass of various thickness and characteristics, which are divided by mouldings





Production technology and the whole production process are such that no one of workers does not have any impact on the quality of the final product. A high degree of automation is a big advantage when it comes to specific glass and coatings, because the surface of the glass is extremely sensitive to touch and can easily be damaged during manual processing.

from each other. The space between them is filled with air or some other gas, due to the reduction of passage of heat.

By using carefully-selected materials it is possible to reduce the passage of heat for 0.1-0.3 W/m²K in the final element, such as window for instance, if "warm edge" mouldings are used instead of classical aluminium mouldings.

SAVABIEN thermo package is filled with argon or krypton during the process of merging in a press, so that no visible "cap" appears on strip. This is ensured by using of the latest technology that provides better retention of gas in thermo package.

We use and apply a wide spectrum of glass by world famous manufacturers. The Company owns an *IFT* Rosenheim certificate on fulfilling DIN EN 1279-2 and DIN EN 1279-3 norms in manufacturing of thermo package. We have begun the strictest process of receiving a certificate on *CEKAL* norms,

which would additionally ensure and confirm the production of thermal insulating package for even the most demanding world markets. This would be done with the help of the best quality materials that are on their approved for use lists.

SAVABIEN standard thermo package

Our standard product is a combination of 4mm standard FLOAT glass + 16mm aluminium batten Argon 90% + 4mm low emission glass. Such a thermo package has heat conductivity of $U_g=1.1\text{ W/m}^2\text{K}$.

SAVABIEN three-layer package

Three-layer standard package: 4mm low emission glass (film on position 2) + 15mm aluminium batten Argon 90% + 4mm standard Float glass + 15mm aluminium batten Argon 90% + 4mm low emission glass (film on position 5). This thermo package has heat conductivity of $U_g=0.6\text{ W/m}^2\text{K}$.

services

By the turnkey system

DESIGNING • PRODUCTION • TRANSPORT • INSTALLATION

- Independent and autonomous provider of products, works and services
- We offer installation and execution of construction works
- Realization of the special requirements for glass, aluminum and PVC processing

It is our goal to make a product that will be a benchmark of quality by using the latest production line for processing of aluminium profiles, quality profile systems and professional staff with several years of experience.

SAVABIEŃ offers a complete service by the turnkey system, from designing to production and installation of constructions made of aluminium profiles.

We perform projects in cooperation with our licensed partners in the field of structural design of steel structures and geodetic recordings, with constant quality control.

Tell us your ideas and we will find a solution

SAVABIEŃ manufacturing line is unique in Europe, because it is based on and performed in accordance to the ELUMATEC's instructions, the renowned manufacturer for processing of aluminium profiles.

Automated production process, renowned partners and suppliers, expertise and quality staff are a guarantee for our successful and long-term business cooperation.

Services in production

We offer top quality products, on time and for every budget. With advanced technology and top service and kindness we fulfil even the boldest needs and requests.



references



"SAVABIEN" – headquarters of Aluminium plant

Location: Indjia

Scope of work: designing, production and installation of flat aluminium facade and narrow fudemax facade with steel floor under-construction.

"House of football"

Location: Nova Pazova

Scope of work: Production of thermal insulated glass and transport.

"Zvezdana prašina" kindergarten

Location: Bezanijska kosa III, Belgrade

Scope of work: Production of thermal insulated glass and transport.

"Dragan Lukic" primary school

Location: Bezanijska kosa III, Belgrade

Scope of work: Production of glass and transport.

"Milena Pavlović Barili" primary school

Location: Visnjicka banja, Belgrade

Scope of work: Production of thermal insulated glass and transport.

"Amacerto" Ship

Location: Netherland

Scope of work: Designing, production and installation of aluminium movable and fixed systems with glass fillings, glass with overhang and every other glass, barrier and glass tread.

"Amaprima" Ship

Location: Netherland

Scope of work: Designing, production and installa-

tion of aluminium movable and fixed systems with glass fillings, glass with overhang and every other glass, barrier and glass tread.

"Antonio Belluci" Ship

Location: Netherland

Scope of work: Designing, production and installation of aluminium movable and fixed systems with glass fillings, glass with overhang and every other glass, barrier and glass tread.

"Edelwise" Ship

Location: Netherland

Scope of work: Designing, production and installation of aluminium movable and fixed systems with glass fillings, glass with overhang and every other glass, barrier and glass tread.

"Park" hotel

Location: Belgrade

Scope of work: Replacement of single-layer glass with triple-layer glass in already existing compartments on two levels of the hotel.

Kindergarten located in Blok 67

Location: Blok 67 New Belgrade

Scope of work: Shipment, production and installation of aluminium made interior and exterior on construction of KDU object in University settlement in Blok 67, New Belgrade.

"Univerexport" D1

Location: Novi Sad

Scope of work: Shipment, production and installation of aluminium facade and interior hardware on the object.

certificates

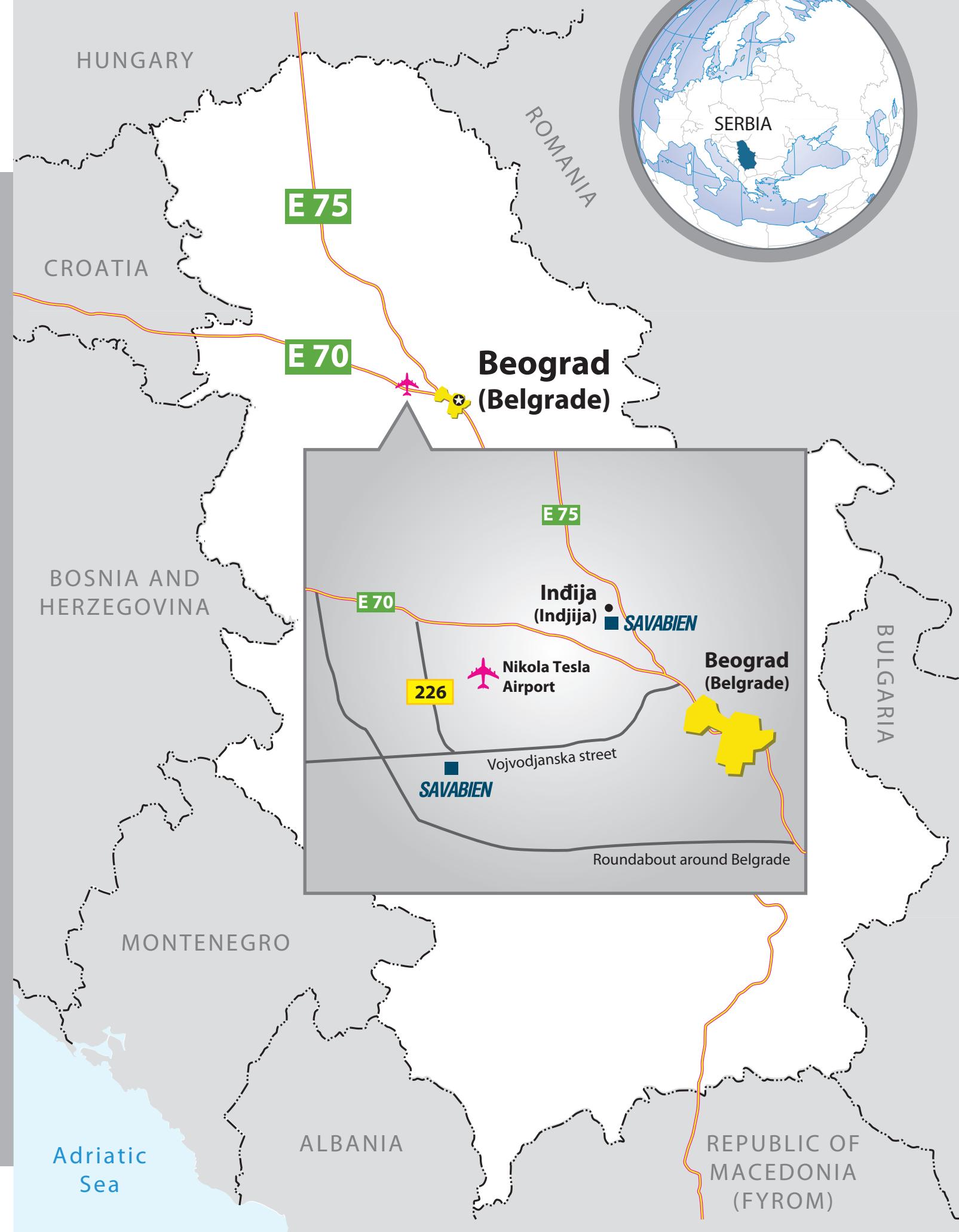
Quality system management and environmental protection ISO 9001:2008, ISO 14001:2005

Health system management and safety at work OHSAS 18001:2008

Certificate on fulfilment of Rosenheim institute's DIN EN 1279-2 and DIN EN 1279-3 norms.

Process of standardization according to CEKAL norms.







Contact information

www.savabien.rs/contact/

More information on "Glass" plant

www.savabien.rs/glassplant/

More information on "Aluminium" plant

www.savabien.rs/aluminiumplant/

More information on services

www.savabien.rs/service/

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