
WW INVEST
GENERAL CONTRACTOR
OF CONSTRUCTION PROJECTS
MANUFACTURER
OF WOODEN STRUCTURES

wpwinvest.pl

GENERAL CONTRACTOR

OF CONSTRUCTION PROJECTS

WW INVEST

We are a general contractor of many facilities in Poland. Our projects employ all modern technologies and innovative solutions. We are flexible and open to new possibilities.We offer a wide range of services. We have an extensive machine park and a qualified team of employees. We have all the necessary certificates and permissions.

Our goal is to meet the expectations of the Project Owner at every stage of the project. We adapt not only the construction process, but also the stages of the start-up and operation of the facility – often under conditions of active production – to the individual requirements of our customers. We specialize in building medium-sized and large commercial and retail centres on turn-key basis, adapting existing buildings and major renovation. We prepare designs for a client and build based on designs provided by clients. WPW Invest operates all over the country.

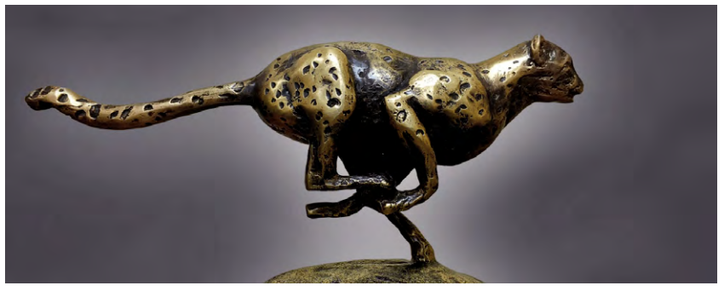
Investments in innovative process technology for manufacturing products allow WPW Invest to develop continuously and extend the range of the services offered. We have won numerous competitions, including the Business Cheetah. WPW Invest's mission is to build lasting partnership relations with clients based on mutual respect and trust. Our business model involves the provision of high quality general building services, construction of wooden structures and provision of comprehensive, professional solutions in accordance with the agreed budget and schedule. WPW Invest continues to invest in its development to be able to offer reliable quality products and services, being up-to-date with global trends in the construction business.

■ Scope of work:
new facilities – our company specializes in construction of retail facilities, shopping malls, apartment buildings, etc.
conversion – our company changes and adapts the character of an existing facility to meet the needs of the client
major renovation – our company carries out renovations and extensions of retail facilities

■ Reference projects:
shopping malls
hypermarkets
office buildings
apartment buildings

■ Co-operation:
large chains
self-builders
contracting authorities
house builders

■ Our company provides:
highest quality service
timeliness
safety
guarantee of the highest
standards of project support



■ Municipal sewage treatment plant and lift pump station in Chojnice, ul. Igielska
Client: Chojnice City Office
area: 3,680 m2
range of services: Design, prefabrication and erection of wooden roof framework of prefabricated trusses connected with nail plates.

■ Municipal sewage treatment plant and lift pump station in Chojnice, ul. Igielska

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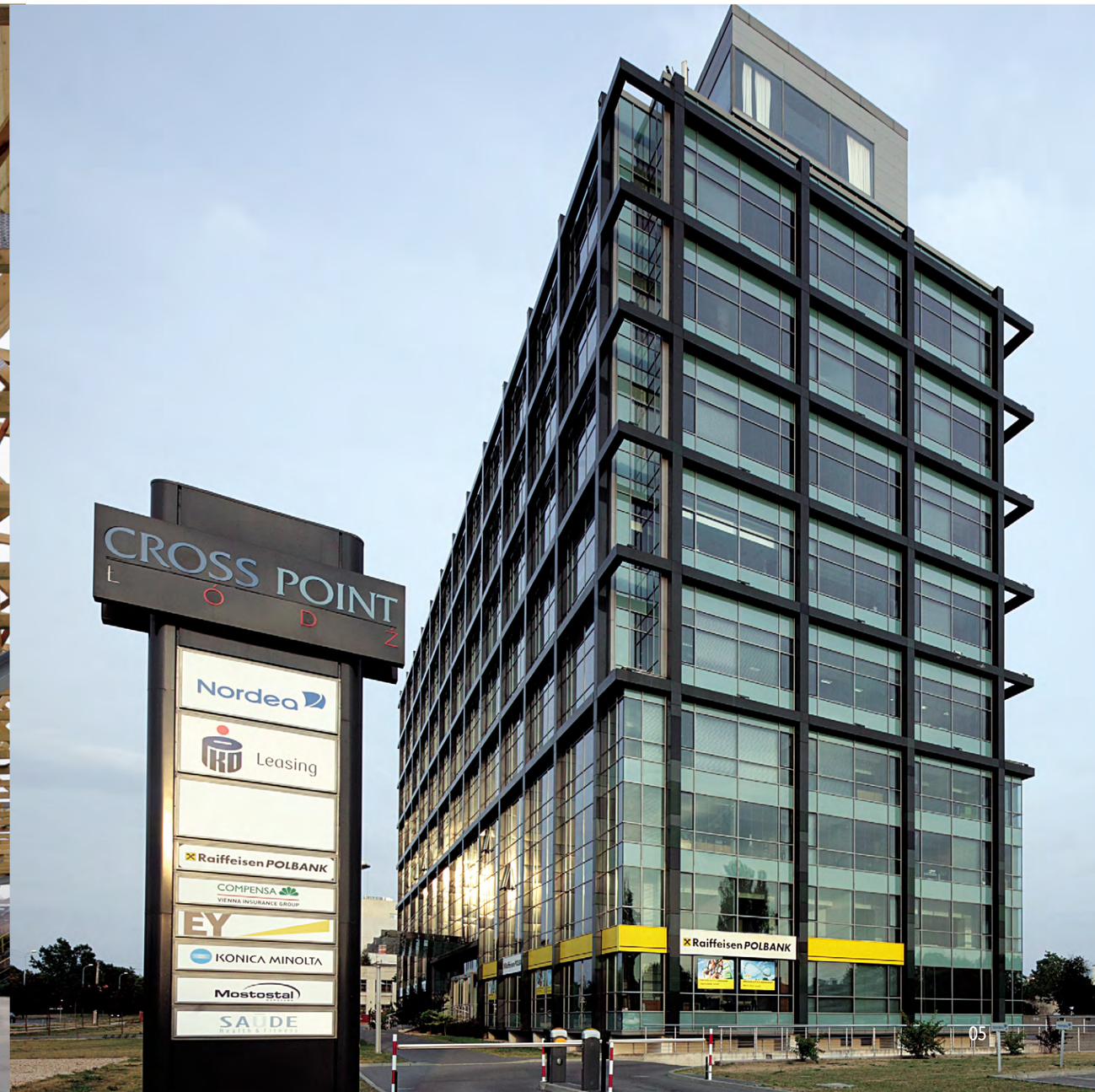
■ TVN seat in Cross Point building, Łódź, ul. Rydza Śmigłego



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Squer Retail Park in Łódź, ul. Kilińskiego

■ Netto Supermarket, ul. Pomorska, Łódź

■ Aldik, Warszawa, ul. Skarbka z Gór

MANUFACTURERES OF WOODEN STRUCTURES

WW INVEST

We are an authorized manufacturer of wooden roof frameworks of prefabricated trusses connected with nail plates. We have our own design office which uses specialized software, allowing us to design structures of facilities in a very short time. Structures are produced in our prefabrication plant.

COMPREHENSIVE WORK – FROM DESIGN TO IMPLEMENTATION

TECHNOLOGY

- We have our own design engineering studio which works closely with designers of facilities.
- Our design engineers use specialized licensed software – RoofCon/TrussCon.
- On the basis of data obtained from an architect, future project owner or contractor we prepare the cost estimate of prefabrication and erection of a roof framework.
- We provide the design engineer of a facility with free documentation of the roof framework and support reactions for further building design work.
- Our company bears the cost of preparation of the calculation documentation, regardless of the value of the contract for execution of the order.

DESCRIPTION OF TECHNOLOGY

Based on the provided documentation, we design a roof framework using specialized software. After designing and calculating the parameters, rotary saws automatically cut out the elements at a right angle according to the documentation. The next step is to combine the elements with nail plates by means of presses. Nail plates are pressed into places precisely specified in the documentation. Press templates ensure accuracy and reproducibility of manufactured trusses. We use only strength graded, kiln-dried and impregnated timber for the production of truss. Material prepared in this manner is much more resistant to insects, fungi and mildew. We use plates that are certified by the Polish Building Research Institute. The system allows us to construct a structure of virtually any shape and large span.

NAIL PLATES

Nail plates are made of steel plate with spikes cut and pressed on one side. The spikes are pressed under high pressure into timber elements, connecting them permanently. It is done on special press stations.

ERECTION

Erection is performed based on erection and detail design in accordance with the construction program. Depending on the weight of the trusses, height of the building, vehicle access way, etc., the structure is erected manually or with the use of a crane. Dimensions of individual elements of the structure may require specialist means of transport, which we can provide.

APPLICATION

Technologies of structures with nail plates are used:

- in housebuilding industry (houses with habitable or non-habitable attics)
- for addition of storeys on flat roofs,
- in department stores, shopping malls, shopping arcades,
- in sports facilities (gyms and canopies of tennis courts, spectators' seats, gyms and shooting ranges),
- in agricultural buildings (poultry farms, stables, barns, canopies, riding arenas, sheepfolds), in industrial facilities (production halls, warehouses, ramps).

BENEFITS

OF TECHNOLOGY

1. Price.

The main advantage of the system is its competitive price compared to traditional solutions. We achieve it by:

- cooperation at the stage of the facility designing, which reduces the cost of the entire project,
- industrial nature of manufacturing,
- reduced consumption of timber,
- substitution of more expensive materials (steel, reinforced concrete, glued-laminated timber) with wood trusses
- computer optimization of construction solutions, which in turn ensures the most advantageous selection of the cross-section of wood elements and wood saving of up to 40% in comparison with conventional nailed trusses.

2. Quality.

The main advantage of nail plates is their ability to connect pieces of timber into one plane, while ensuring high-strength connections of constant and predictable strength. Plates transfer load from one element to adjacent elements in a uniform manner. The use of the plates allows avoidance of stress concentration that often occurs if nails and glue are used to join elements. Connections are less sensitive to local defects in the wood. We use only kiln-dried timber for the production of truss. Such preparation of the material ensures high quality of manufactured components.

3. Speed and timeliness.

The system provides fast and easy erection of a prefabricated roof framework. It usually takes 1 to 3 days to erect a typical single-family house roof framework.

4. Large span.

In this system it is possible to design a wooden roof load-bearing framework with a span of up to 30 m without support in case of flat roofs and 40 m in case of shell roofs.

5. Possibility of eliminating a concrete slab floor.

Timber frame floors are cheaper and lighter.

6. Possibility of erection of the roof framework by the client.

We provide the erection documentation and necessary materials.

7. Quick erection of prefabricated roof framework shortens the process of the facility construction and does not disorganize the work at the construction site.

8. It is possible to carry out the construction of the roof in winter, which extends the length of the construction season.

9. Safety.

The design and structure are based on precise engineering calculations developed in line with Polish standards and good building practice. Our engineering staff have the appropriate static engineering and building licenses.

10. Numerous shape options.

The technology used allows development of diverse shapes of the roof.

11. Space efficiency.

By the elimination of pillars supporting the roof framework, the technology allows maximization of the floor space.

ERECTION OF STRUCTURE

To erect the structure we use PALFINGER, a specialist mobile crane on an armoured SCANIA chassis. There is only one such crane in POLAND – ours – and a few in EUROPE. It is large enough to allow access to areas that are hard to reach and when it is impossible to drive up to a building. This is important when the truck is used for unloading and erection, e.g. in dense urban areas. A crane with a reach of 32 meters and a lifting capacity of 5,000 kg is mounted on a truck. The crane can be remotely controlled if high precision is required during erection in places that are hard to reach, e.g. through a window. The crane has a unique feature of simultaneous lifting and extension. It needs less space to operate than a typical crane.


KONSTRUKCJE DREWNIANE I STALOWE
WPW INVEST


PALFINGER CRANE
WPW INVEST
SCANIA
KONSTRUKCJE DREWNIANE I STALOWE
EL 71SHP


WPW INVEST

THEY

TRUSTED US:

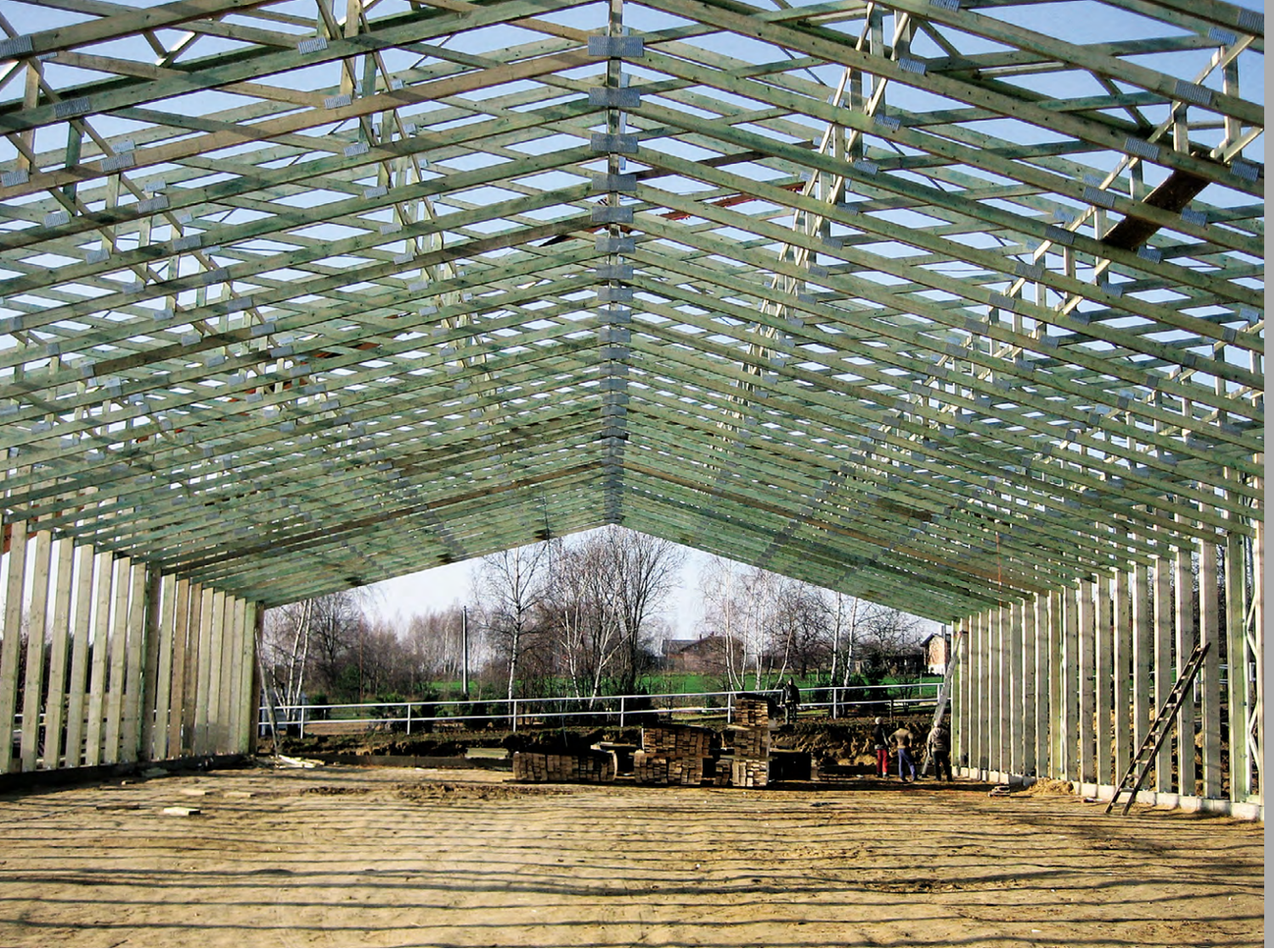
Netto
Biedronka
Tesco
Intermarché
Carrefour

INDIVIDUAL

CUSTOMERS

An individual customer is special for us. Each customer has different requirements and needs. We completed thousands of jobs for you. Our goal is to meet the expectations of the Project Owner at every stage of the project. Adaptation of the construction process to the unique requirements of our customers is our top priority.

- Roof structure of utility buildings



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Roof structure of the single-family house in Łódź

Roof structure of single-family house

◀ Roof structure of the riding-school in Klęk

Single-family houses residential district near Poznań

Single-family houses residential district in Wroclaw

◀ Roof structure assembly

OUR MISSION

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