

The Construction and Finishing Materials Sector in Poland

Report 2024



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Editing:

Eryk Rutkowski, Polish Agency for Enterprise Development (pages 37-42)

Cooperation:

Michał Sękowski, Polish Agency for Enterprise Development



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Poland.
Business Forward

Table of contents

Foreword: Katarzyna Duber-Stachurska	4
Poland in figures (2023)	6
The construction sector in Poland: current state, development trends and challenges	7
Polish Building Materials: Innovation and Export Perspectives	13
Modular buildings, passive houses and smart building solutions on the Polish market	19
Modular buildings	20
Passive house	27
Digitalization of the investment process	29
Smart building	33
Wooden construction is the future	37
The Success story of the EKOINBUD Group	
Without mortar and three-times faster	39
The Success Story of IZODOM	
Straight from the printer! 3DCP enters the construction site	41
The success story of REbuild	
The Construction and Finishing Materials Sector in Poland – catalog	43

Katarzyna Duber-Stachurska

President of the Polish Agency for Enterprise Development



Poland has experienced a profound and positive economic and social transformation in the past thirty years, which was partially possible thanks to infrastructure and housing improvements. Polish construction industry, along with producers of construction materials had to face this challenge and undergo a fast transformation. And they succeeded.

Today Polish construction industry generates approximately 10% of the country's GDP and is responsible for over a million jobs.

Our companies immediately began to compete on the global market of construction materials and services. First mainly by price, then also by quality and most recently by unique design. For example, in 2015, Poland became the largest exporter of joinery in Europe, and from 2022, it has been the world's leader in window and door exports. Poland is also the largest ceramic tile producer in the EU, and has most recently, become a leader in the manufacture and export of modular constructions.

In 2023, the Polish export of construction materials amounted to EUR 13.7 billion and increased by as much as 249% since 2010, growing on average by 8% annually. The export of construction services also grown rapidly. It amounted to EUR 2.4 billion in 2022 and increased by 140% since 2010, growing by an average annual rate of 4.5% over the last 5 years.

Most exports of Polish construction products are directed to the EU market (77.5%), the largest importers are Germany, Italy, France, the Czech Republic and the Netherlands. Non-EU markets include Great Britain, the USA, Norway and Ukraine. Polish construction services are also predominantly exported to the EU.

With the aim of supporting Polish companies operating in the construction sector, the Polish Ministry of Economic Development and Technology has launched in 2024 the Internationalization of the SME's - Brand Hub program co-financed by the European Union. Our agency was entrusted with the role of the operator of the Construction and Finishing Materials promotion program within this project. Our publication along with an extensive catalogue of companies is one of the deliverables of the program. I hope that this booklet helps you get to know the Polish construction and finishing materials sector better and find valuable business partners. ●

Poland in figures (2023)

The construction sector in Poland: current state, development trends and challenges

Marta Mackiewicz (Warsaw School of Economics)

Marek Mieńkowski (Polish Construction Cluster)

The construction industry in Poland has historically been a barometer for the country's economic health, reflecting broader trends in investment, infrastructure development, and urban planning. Despite facing immediate challenges such as subdued investor confidence, high interest rates, and escalating construction costs, the sector is forecasted to rebound with vigor in the medium to long term. This report delves into the multifaceted aspects of the Polish construction industry, examining current trends, future prospects, and the impact of government initiatives. It draws on a comprehensive analysis of data from 2023 through to projections for 2027, providing a holistic view of the sector's trajectory.

Current State and Recent Developments

In 2023, the Polish construction industry experienced a modest real-term growth of 1.3%, primarily fueled by the government's focus on enhancing transport and energy infrastructure.¹ This growth was supported by significant funding from the European Union's Connecting Europe Facility, which injected PLN 4.4 billion (USD 906.8 million) into various projects, including rail, maritime, and cross-border initiatives.² Despite these positive developments, the industry faced headwinds due to subdued investor and consumer confidence, high interest rates, and escalating construction costs.

¹ <https://finance.yahoo.com/news/polands-construction-market-size-trends-151800256.html>

² <https://www.globenewswire.com/news-release/2024/01/22/2813198/28124/en/Poland-s-Construction-Market-Size-Trends-and-Forecasts-Across-Commercial-Industrial-Infrastructure-Energy-and-Utilities-Institutional-and-Residential-Sectors-2023-2027.html>

In 2022, revenues of the 15 largest construction companies reached nearly PLN 44.5 billion, an increase of 22.5% compared with the previous year.³ This revenue growth reflects the scale of the market and results from macroeconomic factors, such as high inflation.⁴

The demand for residential properties, driven by both individual and institutional investors, continues to shape the landscape of the construction market in Poland. The modular construction market and the ready-mix concrete market are notable segments within the residential sector, with forecasts extending from 2024 to 2029.⁵ The residential sector has faced challenges, notably a sharp deceleration in early 2024, attributed to the conclusion of EU-backed projects and a weaker housing market. The end of the "2% Safe Credit"⁶ program and the cap on housing prices qualifying for public subsidies have also impacted the sector, leading to a slowdown in mortgage credit demand and a decrease in the number of apartments under construction.⁷

The commercial and industrial sectors of the Polish construction market are poised for growth, with various reports highlighting the development prospects of hotels, office buildings, retail buildings, and production plants. Notably, the construction of the Nobu Hotel in Warsaw exemplifies the ongoing investments in high-end commercial properties, reflecting confidence in the market's growth potential.⁸ Infrastructure projects, particularly in transportation and energy, have received significant attention and investment. The government's efforts to increase energy self-sufficiency, highlighted by substantial investments in renewable energy capacity, are set to drive growth in the construction industry over the medium to long term. Initiatives such as the European Investment Bank (EIB) Group's PLN 29.1 billion (USD 6 billion) plan and the Kolej Plus program, which allocates PLN 6.6 billion (USD 1.7 billion) for railway infrastructure development, underscore the strategic focus on sustainable development and energy independence. Yet, the anticipated 1.1% decline in 2024

³ <https://www2.deloitte.com/ce/en/pages/real-estate/articles/Polish-Construction-Companies-2023-Major-Players-Key-Growth-Drivers-and-Development-Prospects.html>

⁴ <https://www2.deloitte.com/ce/en/pages/real-estate/articles/Polish-Construction-Companies-2023-Major-Players-Key-Growth-Drivers-and-Development-Prospects.html>

⁵ <https://www.spectis.pl/en/services/construction-market-in-poland-2018-2025>

⁶ <https://www.gov.pl/web/primeminister/2-safe-mortgage-and-home-savings-account-now-available-to-poles>

⁷ <https://think.ing.com/snaps/sharp-deceleration-in-polish-construction-in-early-2024/>

⁸ <https://focus.gleeds.com/europe-construction-market-report-1q-2024/poland>

highlights the immediate impact of economic pressures on construction activities.⁹

The main trends

Technological advancements play a crucial role in shaping the construction market in Poland. The adoption of digital tools and technologies, such as Building Information Modeling (BIM), has improved project efficiency, reducing costs, and enhancing the quality of construction projects. The adoption of advanced technologies, digitalization, and sustainable practices will shape the industry's future.¹⁰

The integration of Building Information Modeling (BIM) and digital twins represents a leap forward in construction project management and execution. BIM's mature application in the industry is evolving towards more data-driven practices, including the use of building dashboards and AI for managing project data. This shift is expected to drive efficiency and transparency, enabling better project outcomes. Digital twins, as virtual replicas of physical assets, offer unprecedented capabilities in monitoring, analyzing, and optimizing the performance of buildings

throughout their lifecycle. This technology facilitates an asset-first approach in design, construction, handover, and operations, promising more sustainable and efficient construction practices.¹¹

The advent of Industry 4.0 (I4.0) technologies revolutionizes the sector by enhancing efficiency, productivity, safety, and sustainability. The IoT connects construction machinery, equipment, materials, and structures to a central data platform, facilitating real-time monitoring and management. This connectivity, combined with advanced analytics, enables predictive maintenance, improves resource allocation, and enhances safety by monitoring worker health and environmental conditions.¹² Another technology gaining popularity is additive manufacturing, or 3D printing. It enables on-site fabrication of building components. This technology reduces waste, lowers transportation costs, and allows for more complex architectural designs.¹³

A trend that is gaining in popularity is prefabrication. It refers to the use of prefabricated structural elements, which speeds up the construction process and reduces production

⁹ <https://finance.yahoo.com/news/polands-construction-market-size-trends-151800256.html>

¹⁰ <https://markwideresearch.com/poland-construction-market/>

¹¹ <https://www.autodesk.com/blogs/construction/2024-construction-trends-30-experts-share-in-sight/>

¹² <https://www.emerald.com/insight/content/doi/10.1108/CI-07-2021-0135/full/html>

¹³ <https://link.springer.com/article/10.1007/s40996-022-00989-5>

costs. In 2024, we can expect to see an increase in the use of prefabricated timber for the construction of single-family homes. This solution allows for shorter construction times and less waste, as well as helping to cope with the labor shortage in the construction industry.¹⁴

Sustainability has become a key priority for the real estate sector, with buildings responsible for 40% of energy consumption and 36% of greenhouse gas emissions.¹⁵ Another trend is the shift towards zero-emission buildings, with the lowest possible carbon footprint. It involves, among other things, the use of low-carbon concrete and recycling of construction waste. This is important to make buildings more environmentally friendly and meet the highest standards.¹⁶

Challenges and Risks

The industry faced challenges such as supply chain disruptions, rising material prices, high interest rates and inflation, which impacted profitability, especially for long-term contracts.¹⁷ These factors, coupled with fluctuating investor and consumer confidence, pose risks

to the industry's growth trajectory. Moreover, the Polish construction sector is still highly fragmented, with consolidation processes progressing slowly.¹⁸ However, the sector's resilience is evident in its ability to adapt and innovate, particularly through the adoption of modular construction techniques and a focus on sustainability are expected to pose significant hurdles. Additionally, the sector must navigate the complexities of labor shortages and the need for skilled workers to keep pace with technological advancements and sustainable construction practices.

In 2024, Poland is undergoing significant regulatory transformations that extend the legal stay period for Ukrainian citizens and introduce changes in employment regulations for foreigners.¹⁹ These adjustments reflect Poland's evolving regulatory landscape and its commitment to economic resilience and global collaboration. However, they also present challenges for the construction industry, particularly in terms of compliance and the integration of foreign workers into the labor market.

¹⁴ <https://nieruchomosci.infor.pl/budowa/6437420,polski-rynek-budowlany-w-2024-roku-najwazniejsze-trendy.html>

¹⁵ https://www.ey.com/en_pl/real-estate-hospitality-construction/the-polish-real-estate-guide-2024

¹⁶ <https://nieruchomosci.infor.pl/budowa/6437420,polski-rynek-budowlany-w-2024-roku-najwazniejsze-trendy.html>

¹⁷ https://www.euroconstruct.org/news/2024_01_pl/

¹⁸ <https://www.paih.gov.pl/wp-content/uploads/2024/02/The-Construction-Sector-2023.pdf>

¹⁹ <https://gurcanpartners.com/poland-regulative-changes-2024/>

The Polish construction industry calls for urgent regulatory changes to accelerate thermal modernization efforts.

The establishment of a committee to coordinate changes in regulations is deemed necessary to quickly achieve goals related to climate neutrality, sustainable buildings, and their environmental impact.²⁰ These regulatory adjustments are crucial for the industry to adapt to evolving standards and consumer expectations.

The cautious approach to adopting Generative AI (GenAI) and other technological advancements poses a challenge to the industry. While technology offers the potential to enhance efficiency and productivity, the slow pace of adoption may hinder the industry's ability to compete on a global scale. The real estate sector will need to catch up technologically in the coming years, with a focus on AI-driven solutions and addressing concerns about data confidentiality and reliability of PropTech.²²

However, the industry also presents substantial opportunities

for stakeholders. With a strong economy, supportive government policies, and increasing investments in infrastructure and real estate, the market offers avenues for growth and revenue generation.²³

Future Prospects

The 'Construction market in Poland 2024-2031' report provides seven-year forecasts for the three main segments of the construction market – residential, non-residential, and civil engineering. It also presents a comprehensive set of over 800 major projects that will drive growth in individual sub-segments of the construction market in the coming years.²⁴

Despite the challenges faced in 2023 and 2024, the Polish construction industry is poised for a rebound, with an expected average annual growth rate of 3.4% from 2025 to 2027.

The government's commitment to reducing greenhouse gas emissions and achieving net-zero status by 2050 further supports the growth forecast for the construction sector.²⁵

The market size is estimated at USD 116.22 billion in 2024 and is expected

²⁰ <https://polandinsight.com/polish-construction-industry-calls-for-urgent-regulatory-changes-to-accelerate-thermal-modernization-efforts-93773/>

²¹ <https://polandinsight.com/polish-construction-industry-calls-for-urgent-regulatory-changes-to-accelerate-thermal-modernization-efforts-93773/>

²² <https://polandweekly.com/2024/01/11/polish-commercial-real-estate-to-rebound-in-2024/>

²³ <https://markwiderresearch.com/poland-construction-market/>

²⁴ <https://www.spectis.pl/en/services/construction-market-in-poland-2018-2025>

²⁵ <https://www.globenewswire.com/news-release/2024/01/22/2813198/28124/en/Poland-s-Construction-Market-Size-Trends-and-Forecasts-Across-Commercial-Industrial-Infrastructure-Energy-and-Utilities-Institutional-and-Residential-Sectors-2023-2027.html>

to reach USD 145.66 billion by 2029, growing at a CAGR of 4.62% during the forecast period.²⁶

The growing regulatory pressure related to Environmental, Social, and Governance (ESG) standards will significantly impact the Polish property market. Investors will need to place an increasing emphasis on implementing sustainable solutions for their property portfolios, aligning with EU reporting standards and the revised Energy Performance of Buildings Directive (EPBD).²⁷

The construction industry faces potential shortages in specialist skills, particularly as demand increases due to the energy transition. The combination of skill shortages and rising prices for traditionally used carbon-intensive materials presents a long-term challenge for the industry.²⁸

In conclusion, the Polish construction sector has a positive outlook in the medium and long term.²⁹ However, these trends are subject to change based on various factors such as

economic conditions, governmental policies, and market demand.

Conclusion

The Polish construction sector is on a trajectory of growth and transformation, buoyed by strategic investments in infrastructure and renewable energy. Despite facing immediate challenges, the sector's outlook from 2025 to 2027 is markedly positive, reflecting the broader economic resilience and the proactive stance of the Polish government and international investors. As Poland continues to navigate the complexities of the global economy, the construction industry remains a cornerstone of its developmental ambitions.

The Polish construction sector has demonstrated resilience and adaptability in the face of global economic fluctuations and local challenges. With a strategic focus on infrastructure development, urbanization, and sustainability, Poland's construction industry is poised for significant growth. ●

²⁶ <https://www.mordorintelligence.com/industry-reports/poland-construction-market/market-trends>

²⁷ <https://www.property-forum.eu/news/esg-to-shape-the-polish-property-market-in-2024/17829>

²⁸ <https://www.arcadis.com/-/media/project/arcadiscom/com/perspectives/europe/poland/2021/poland-construction-market-view-autumn-2021/arcadis-poland-construction-costs-2021-1.pdf>

²⁹ <https://www.paih.gov.pl/wp-content/uploads/2024/02/The-Construction-Sector-2023.pdf>

Polish Building Materials: Innovation and Export Perspectives

dr inż. Robert Grygo – Białystok University of Technology

Abstract

The building materials industry plays a significant role in the Polish economy, constituting one of the key industrial sectors. It encompasses a range of companies involved in the production, distribution, and sale of materials used in construction, infrastructure, and building modernization.

The importance of this industry to the Polish economy stems from several important factors. One of them is its high contribution to the GDP. The building materials sector generates approximately 6% of Poland's GDP, making it a significant driver of the economy. It is also important to note high level of employment, as the industry directly and indirectly employs over 400,000 people, making it one of the largest employers in Poland. The rapidly developing road, rail, and energy infrastructure stimulates the demand for building materials, driving industry growth. Rising incomes and favorable credit conditions support residential construction growth, generating significant demand for building materials. Polish building materials are increasingly popular in foreign markets, where Polish products are becoming synonymous with good quality. Economic

growth, infrastructure expansion, and growing social environmental awareness stimulate the demand for modern and sustainable solutions. This article presents an in-depth analysis of Polish building materials, focusing on their competitiveness, innovation, and export development prospects.

1. Polish building materials export in the 20th century

The Polish building materials industry features a rich and comprehensive range of products to meet the needs of various segments of the construction market. With natural resources and a well-developed building materials industry, Poland played a significant role in exporting these goods in the 20th century. The history of Polish building materials export is complex, reflecting the political, economic, and social changes that occurred in the country during this period.

Even before World War II, Poland was a significant exporter of building materials such as cement, bricks, lime, and gypsum [1], [2]. The main recipients of Polish construction materials were Western European countries, including Germany, France, and the United Kingdom.

Poland had a developed cement industry with modern production facilities in the Krakow and Katowice regions.

In the aftermath of WW II, the newly established Polish People's Republic, the export of building materials became an important part of the economy. The state controlled foreign trade, and the main goal of exports was to acquire foreign currency needed for importing raw materials and technologies. Poland became one of the largest exporters of cement in Europe [3], [4], selling it to Eastern Bloc countries as well as developing markets in Africa and Asia. Poland was also the producer and exporter of insulation materials such as mineral wool and polystyrene foam.

Following the political transformation in 1989, the Polish building materials industry underwent significant changes. The privatization of state-owned enterprises led to increased competition and investments [5]. Companies began to export their goods to new markets, including the EU countries. With Poland's accession to the European Union in 2004, the export of Polish building materials to the EU countries significantly increased. The European Union became the main recipient of Polish building materials, and Poland became one of the major suppliers of these goods in the region. The last decade has seen a significant growth in

Polish building materials exports. There have been changes in the commodity structure and export destinations, while Polish companies have become more competitive. In 2013, the value of Polish building materials exports was around EUR 5.5 billion. By 2022, it increased to around EUR 10 billion, almost doubling over the decade.

Poland is one of the largest cement producers in Europe, and it's the most important export commodity. However, the percentage share of exports has slightly decreased, from around 60% in 2013 to around 50% in 2022. The export of aggregates has increased, from around 15% in 2013 to around 20% in 2022. The European Union remains the main recipient of Polish building materials, with a share of around 70%. Exports to African countries increased from around 5% in 2013 to around 10% in 2022. Exports to Asian countries also increased, from around 2% in 2013 to around 5% in 2022.

2. Innovations in Polish building materials

Innovations in Polish building materials bring new perspectives and development opportunities for the construction industry. Poland has a rich tradition of construction that has evolved with technological advancements and changing market demands. With the involvement of Polish companies and scientists, we are witnessing dynamic development and

the introduction of innovative materials and structural solutions in both the domestic and international construction market.

One of the key areas of innovation in Polish construction is the development of sustainable materials, such as fly ash for concrete, light aggregates, hempcrete, and recycled plastic lumber. Increasing social environmental awareness is prompting manufacturers to seek new, environmentally friendly substances. In addition, innovations in thermal insulation, such as polyurethane foams or materials utilizing solar energy, help improve the energy efficiency of buildings.

Polish construction companies are also experimenting with innovative construction technologies. Modern construction methods, such as prefabrication or 3D printing techniques, are introducing revolutionary changes to the construction process. Furthermore, smart construction solutions are being developed, providing automation and monitoring of building parameters. The implementation of the Building Information Modeling (BIM) technology has also been a breakthrough in innovation, enabling comprehensive project management.

In addition to materials and technologies, Polish manufacturers focus on improving the functionality and aesthetics of products. Building

materials with increased durability, resistance to weather conditions, or fire resistance are becoming increasingly popular. Moreover, the growing demand for materials with unique designs has led Polish designers and manufacturers to place a strong emphasis on aesthetics and the ability to customize products to diverse customer needs.

3. Prefabrication - an opportunity for the Polish export?

Prefab construction methods are increasingly entering the domestic market, offering solutions meeting high aesthetic and technical standards. Industry leaders see great opportunities and prospects in prefabrication, highlighting cost and time optimization, just-in-time delivery, and more efficient project management. Prefabrication can respond to the needs of the construction market, characterized by increasing demand for quick, economical, and efficient solutions. Aside from the mentality and mocking attitude towards residential construction in the 1970s, prefab construction is now flourishing, becoming one of our main export goods. The Polish construction sector has witnessed a notable rise in the adoption of prefabrication techniques. This trend extends beyond traditional residential structures, encompassing the prefabrication of multi-unit apartment buildings (blocks of flats), spacious halls, industrial

warehouses, and even meticulously-designed bathrooms. Consequently, Polish prefabricated structures are finding increasing demand from international buyers, expanding their market reach beyond domestic borders. Polish precast manufacturers are becoming more visible players in the international market, combining aesthetics with top quality. Available data indicates that the export of Polish ready-made houses has been growing in recent years. It is estimated that in 2022, between 5,000 and 7,000 Polish ready-made houses were sold abroad [6]. The main export markets include Germany, the United Kingdom, France, Scandinavia, and the Benelux countries.

The COVID-19 pandemic contributed to the growth of ready-made homes sales. It brought about changes in consumer preferences and behaviors, including increased interest in holiday homes. This phenomenon can be explained by several key factors, including the growing popularity of remote work. The pandemic forced many people to work from home, increasing the need for space for professional and leisure activities away from crowded cities. Holiday homes became an attractive option, providing peace, fresh air, and an opportunity to combine work with leisure. Travel restrictions and limitations on spending time in public places prompted many people to seek alternative forms of recreation. Holiday homes became

a refuge where one could spend time with family and friends in a safe and comfortable environment. The pandemic induced stress and anxiety in many individuals while prefabricated holiday homes became a place to escape daily problems, relax, and restore mental balance. Restrictions on travel and entertainment expenses led many people to save money. These funds were then invested in real estate, including holiday homes. Low interest rates facilitated access to mortgages, encouraging many people to purchase vacation property.

4. Perspectives of Polish building materials export

The prospects for further export development are promising.

The growth of infrastructure and construction investments in developing countries and increasing environmental awareness worldwide create new opportunities for Polish companies. Additionally, Poland's membership in the European Union facilitates trade with member countries. One of Polish building materials experts also sees opportunities in the reconstruction of Ukraine.

However, despite positive forecasts, the Polish building materials sector faces several challenges.

- High competition in the global market: Polish companies compete with global corporations and manufacturers from countries with lower production costs.

- Rising cost of raw materials and energy: an increase in raw material and energy prices could negatively impact the competitiveness of Polish products.
- The need to meet increasingly rigorous standards and norms: tightening standards and norms may pose a challenge for Polish companies, requiring continuous investments in production modernization.
- To meet these challenges, Polish companies should invest in innovation and new technologies. Introducing modern and innovative solutions to the market will help Polish products maintain their competitiveness. They should also optimize production and logistic processes which will reduce costs and increase efficiency. Effective promotion of Polish brands and products in foreign markets is crucial for increasing recognition and sales. Polish building materials should become a symbol of reliability and durability.

5. Summary and conclusions

Polish building materials are renowned for their exceptional quality, competitive pricing, and forward-thinking approach in the industry. These key characteristics have established Polish building materials as sought-after products both domestically and internationally. The commitment to high standards of quality control and production processes has solidified the reputation of Polish building

materials as reliable and durable, meeting the stringent requirements of modern construction projects.

In addition to quality, the competitive pricing of Polish building materials has been a significant factor driving their market success. By offering cost-effective solutions without compromising on quality, Polish firms have been able to cater to a wide range of construction projects, from large-scale infrastructure developments to residential buildings. This competitive pricing strategy has enabled Polish building materials to remain attractive in both domestic and international markets, contributing to their growing popularity among consumers and businesses alike.

Furthermore, innovation lies at the core of the Polish building materials industry, shaping the way for future advancements and sustainable practices. Through constant research and development efforts, Polish firms have been at the forefront of introducing groundbreaking technologies and materials that not only meet industry standards but also exceed expectations. From eco-friendly materials to energy-efficient solutions, innovation has been instrumental in setting Polish building materials apart from the competition and positioning them as industry leaders.

Looking towards export prospects, the future appears promising for Polish building materials, but it

necessitates a continuous drive for improvement and adaptability to evolving market dynamics. To capitalize on the potential growth opportunities, Polish firms must focus on improving their competitiveness through strategic initiatives that enhance product offerings, streamline production processes, and optimize supply chains. By investing in innovation, such as new sustainable materials and cutting-edge technologies, Polish companies can stay ahead of the curve and meet the evolving demands of the global market.

Moreover, establishing a strong Polish building materials brand on the international stage is crucial for expanding market reach and gaining a competitive edge. Through targeted marketing strategies, participation in industry events and exhibitions, and

collaboration with international partners, Polish firms can elevate their visibility and credibility in the global market. Establishing a reputable Polish brand synonymous with quality, reliability, and innovation will not only attract new customers but will also strengthen existing relationships and foster long-term growth opportunities.

In conclusion, the excellence of Polish building materials, coupled with competitive pricing, innovative practices, and a concerted effort to enhance export prospects, holds the potential to yield significant benefits for the Polish economy. By upholding high standards, embracing innovation, and promoting the Polish brand on a global scale, Polish building materials can continue to thrive and make a lasting impact in the construction industry worldwide. ●

7. Literature

- [1] J.Adamus, History of the Building Materials Industry in Poland, Warsaw 1974
- [2] J.Rutkowski, Export of Polish Cement in the Years 1918–1939, 'Quarterly Journal of the History of Science and Technology', no.1, 1975
- [3] W.Kwieciński, Export of Building Materials from Poland in the Years 1945–1989, Warsaw 1995
- [4] A.Jeziarski, Building Materials Market in Poland in the 20th Century, Katowice 2002
- [5] M.Noga, Polish Building Materials Industry in the European Union, Kraków 2008
- [6] Polish Economic Institute, 'Report on the Polish Export of Building Materials', 2023

Modular buildings, passive houses and smart building solutions on the Polish market

dr Arkadiusz Leśko

Modular buildings

Modular buildings are a rapidly growing segment of the Polish construction industry, addressing challenges faced by the market.

Advanced modular technologies and solutions enable increasing architectural flexibility, naturally enhancing interest among private consumers without the need for dedicated support programs or financial incentives. This is evidenced by the dynamic growth in financing agreements for single-family wooden houses, which saw an increase of 80% in 2021 compared to the previous year.¹ Such significant growth creates opportunities for companies with supply chains embedded in today's geopolitical realities, facilitating the management of manufacturing processes and margin creation.

TECHNOLOGIES

The engineering of modular buildings is inseparably linked with prefabrication. Regardless of the technology used, the investment process based on modular solutions follows a similar scheme (FIG 1). One of the most significant advantages of using prefabricated technology is the reduction in time between

the decision to allocate capital and the commercialization of the project (for example, in wooden construction, the investment process can be shortened over several times²). Notably, prefabrication process significantly decreases the technological losses (production in factory conditions) and due to the required modern methodology of the design increases investor awareness of the costs of decisions at an advanced stage of the investment process (FIG 2). The most used types of modular prefabricates are:

- **Wooden Frame Modules** – one of the most widely used solutions on the market, utilizing eco-friendly construction materials characterized by high acoustic insulation, fire resistance, and low energy demand (both in production and maintenance);
- **Steel Frame Modules** – solutions characterized by high adaptability to changes in usage and expansion possibilities, while maintaining extensive automation capabilities in production (particularly useful

¹ Monitoring Branżowy, Analizy Sektorowe, 6 lipca 2022, Departament Analiz Ekonomicznych PKO BP

² Budownictwo drewniane stymulatorem rozwoju mieszkalnictwa w Polsce, Raport, Bidzińska G., Leszczyńska E., Augustyniak D., Instytut Technologii Drewna Łukasiewicz

for transoceanic transport of modules);

- **Reinforced Concrete Modules** - based on monolithic construction, typically using high-quality concrete with steel-composite reinforcement, allowing prefabrication with the use of a mobile portable factory (an excellent solution for very hard-to-

reach locations or places where module transportation is limited);

- **Mixed Technology Modules** - innovative solutions that are the subject of many studies and analyses, combining the advantages of individual solutions (e.g., where insulation also serves as formwork for monolithic structures casted in-situ).

FIG 1. Schematic comparison of the modular and traditional investment process

FIG 2. Decision-making costs comparison schema³

³ How Facility Management can use BIM to improve the decision making process, Giulia Carbonari, S. Ashworth, S. Stravoravdis, October 2015, Engineering, Environmental Science

Why it is worth to invest in modules in Poland

Poland is one of the fastest-growing economies in the EU, with a high growth rate in residential construction, increasing economic potential in terms of local consumption, and an unrestrained manufacturing capacity. As the third-largest exporter of prefabricated wooden houses in the EU⁴, Poland has the potential to leverage the synergy of economic and geographical conditions, creating unlimited export potential. These resources and conditions can be effectively utilized in the investment process using modular technologies.

Design

Modular construction requires more effort, time, and resources at the project preparation stage (unless the project is standardized), as illustrated in (FIG 2⁵). To accurately visualize the design and preparatory (production) work, it is necessary to use innovative technologies such as BIM (Building Information Modeling). Research shows⁵ that over 90% of Polish designers are familiar with BIM, and 43% use this methodology daily (regardless of the type of objects designed). Polish designers indicate that the technologies they use in their daily work reduce the risk of design and execution errors (FIG 3).

FIG 3. Benefits of BIM according to Polish designers⁵

⁴ Monitoring Branżowy, Analizy Sektorowe, 6 lipca 2022, Departament Analiz Ekonomicznych PKO BP

⁵ European Architectural Barometer Q2 2021, Building Information Modeling – BIM, July 2021

Production

According to McKinsey Global Institute studies,⁶ the productivity of all economic sectors in the world has increased by nearly 100% (approximately 70% in industrial sector) since 1995, whereas during the same period, construction has recorded only a 21% increase in productivity. Modular construction and broader prefabrication technologies are considered among the solutions that can lead to a significant leap in productivity and efficiency in civil engineering. What is also important is that the production of prefabricates is carried out in comfortable conditions (compared to traditional construction methods), which significantly enhances the attractiveness of the construction sector in the eyes of workers. However, skilled specialists

are needed for this work, and their number in Poland is and will grow – according to statistics from the Ministry of National Education, 55% of pupils choose education in technical colleges and vocational schools.⁷

Transportation

Produced modules must be transported to the installation site – this is another crucial stage in the investment process. Due to Poland's geographical location, the availability of specialized transport companies, and the extensive road infrastructure, shipping possibilities are practically unlimited. An additional advantage for the industry is the access to ports, which are recording increases in transshipments,⁸ where their further development is ensured by adopted long-term strategies.⁹

⁶ <https://www.mckinsey.com/~/media/mckinsey/business%20functions/operations/our%20insights/reinventing%20construction%20through%20a%20productivity%20revolution/mgi-reinventing-construction-a-route-to-higher-productivity-full-report.pdf>

⁷ <https://www.gov.pl/web/edukacja/ilu-uczniow-wybiera-obecnie-nauke-w-liceum-technikum-lub-branzowej-szkole>

⁸ <https://www.linkedin.com/pulse/polskie-porty-morskie-w-2023-roku-podsumowanie-i-perspektywy-xrpdf/?originalSubdomain=pl>

⁹ <https://www.gov.pl/web/gospodarkamorska/program-rozwoju-polskich-portow-morskich-do-2030-roku>

FIG. 4. Geographical location favors the development of modular construction exports

Assembly

One of the biggest challenges in the execution sector of the construction market is to manage and retain engineering and technical staff, particularly those with experience and necessary qualifications.

Industry statistics¹⁰ show that 66% of employees are not open to long-term assignments. The technology of modular construction reduces

the time needed to erect structures (and consequently the time that staff spend away from home) to a minimum, significantly improving work efficiency, employee loyalty, work-life balance, and overall wellbeing.

Managing the Building's Life Cycle

The planned sustainable development of cities¹¹ includes

¹⁰ Oczekiwania inżynierów z uprawnieniami budowlanymi względem pracodawców, Budownictwo 2024, HRK

fundamental public interest needs, developing technical infrastructure (e.g., nurseries, kindergartens, medical facilities, or nursing homes) while simultaneously meeting high environmental protection standards. Modular buildings align with these goals through one of their greatest advantages, namely the mobility of constructed buildings. An object, once erected, where the activity has been successfully completed, can be relocated to a different site to provide a fully functional space with a similar or entirely different purpose.

Demolition

Buildings are designed with consideration of the estimated

usage time, which implies the durability of their individual components. In the case of demolition, for example, of reinforced concrete structures, the tools and processes used typically have low recovery efficiency and significantly pollute the environment (e.g., with dust or noise).

The nature of modular buildings allows for their defragmentation and subsequent transportation to specialized recycling facilities, which greatly speeds up the process of reclaiming occupied land, increases the efficiency and safety of the demolition process, and ensures the maximum possible recovery of building materials. ●

¹¹ <https://samorzad.pap.pl/kategoria/materialy-partnerskie-i-promocyjne/zrownowa-zony-rozwoj-miast-dzialania-adaptacyjne-w>

Passive house

Modular structures also allow for unprecedented precision in execution due to the controlled production environment.

This fact makes it possible to widely apply design, material, and technologies that reduce energy demand during operation, striving to achieve efficiency suitable for passive buildings. The scale effect is also significant in terms of costs. It is estimated that in Poland the cost of constructing a passive building is approximately 8% to even 35% higher than that of a traditional one, which results chiefly from the need for appropriate design - individual approach is necessary for heat gain and loss analyses, which depend on factors such as the location of the building (terrain, topography, and immediate surroundings). Expenses related to the construction of a passive house can be reduced through funding from European Union sources, as well as governmental and local programs. Grants and tax incentives primarily concern modern solutions such as photovoltaic installations, heat pumps, or recuperation systems, but also initiatives related to building thermal modernization or heating system replacement.

A properly constructed passive house is characterized by excellent thermal insulation (limiting uncontrolled heat

exchange). Implemented functional, structural, and material solutions should aim to exclude the formation of thermal bridges as much as possible. The construction phase is also significant - execution control and adherence to processes and procedures specified by designers of the building and manufacturers of the materials should be subject to detailed verification. Passive house is distinguished by such characteristic properties (FIG 5) as:

- Optimized shape, the orientation of which may be non-obvious, for example, considering the maximization of sunlight utilization;
- The lack of elements difficult to insulate, such as attics, bay windows, dormers;
- Glazing (or lack thereof) and functional layout adapted to the movement of the sun and the intensity of available daylight;
- Room layout minimizing the need for additional lighting and heating;
- Optimized energy efficiency through technologies such as mechanical ventilation with heat recovery (recuperation);
- Use of renewable, eco-friendly energy sources like photovoltaic installations or heat pumps.

FIG 5. Passive buildings goals¹²

The future of the passive buildings industry in Poland is bright. Poles are open to cost-effective innovations, as evidenced by the growing number of service companies, including designers and contractors, as well as manufacturers and distributors of materials supporting passive buildings. There are also numerous

local, private initiatives that facilitate access to qualified personnel.¹³ Altogether, this constitutes a cohesive educational package ensuring access to qualified graduates and experienced engineers, fostering the development of the passive (and/or energy-efficient) building construction industry.

¹² <https://akademiazdrowegobudownictwa.pl/blog/budownictwo-pasywne/jak-jest-naprawde-z-budownictwem-pasywnym/>

¹³ https://akademiazdrowegobudownictwa.pl/znajdz-mistrza/?utm_source=www&utm_medium=-podsumowanie2023&utm_campaign=mbpie8

Digitalization of the investment process

Modular, prefabricated, passive, innovative, or traditional constructions share a fundamental common feature - they require and generate a vast amount of information that needs continuous processing, analysis and updating. (FIG 6.)

Building maintenance companies have to contend not only with a large amount of poorly organized data but also with requirements imposed by building regulations and an increasingly demanding service market. Therefore, it becomes crucial to design and manage the

investment process in a way that enables seamless information transfer¹⁴. Importantly, the awareness and control of process correctness by the investor is essential, as it is the only stakeholder actively involved at every stage of the investment process.

FIG 6. Graph showing a schematic comparison of lossless information aggregation (orange area) and lossy data aggregation (gray area)¹⁴

¹⁴ BIM for Facility Managers, Paul Teicholz, 2013

Investment preparation phase
Investment preparation stage has the greatest influence on shaping the investment process (FIG 2). One of the often-overlooked aspects is designing the way the investment is managed, not from a formal perspective but from a technical one: how to communicate, where to archive information, and which standards, conventions, or rules

to apply in daily work. These are just a few aspects which may be regulated by numerous documents specified, among others, in the ISO 19650-1 standard (FIG 7). Awareness of the necessity of implementing standards and procedures in Poland is growing, as evidenced by the popularity of postgraduate BIM studies, of which there are currently dozens available.¹⁵

FIG 7. Dependence of organizational requirements according to ISO 19650¹⁶

¹⁵ <https://www.studiapodyplomowe.info/s/3613/75024-Studia-podyplomowe.htm?szukaj=BIM>

¹⁶ [PN-EN ISO 19650-1](#)

Execution phase

Tasks carried out during the execution process are complex, multifaceted, and conducted simultaneously in many different locations. One of the challenges of the construction market is to manage information that often requires coordination and updates (almost in real-time). According to surveys¹⁷ (as of 2020), about 48% of respondents indicate that the organizations they work for have tools for structured information exchange. The Polish construction market is undergoing a transformation and is gradually increasing the share of projects that utilize various platforms (EDMS, MMS, or CDE) to improve, among others:

- Work planning (based on current documentation and available resources);
- Ordering materials (using data from BIM models, among other sources);
- Work supervision (based on current documentation using digital tools);
- Work acceptance (with the required participants of the investment process);
- Implementing design changes (without the need to print documentation);
- Creating as-built documentation (based on structured information aggregated throughout the whole execution phase of the investment).

Facility Management

FM (Facility Management) is an area of activity focused on managing buildings, spaces, equipment, and infrastructure, encompassing a range of activities such as maintenance, waste management, energy management, security management (access control), as well as ensuring cleanliness and many other tasks. The main goals of Facility Management are to ensure that the physical environment of a building or facility is well-maintained, safe, and optimally functioning for the benefit of the people using the space.

Asset Management

According to industry organizations such as the Institute of Asset Management (IAM), asset management involves balancing costs, opportunities, and risks against the desired performance of assets to achieve organizational objectives.¹⁸ In relation to facilities, this means tracking, maintaining, and maximizing the value of an organization's physical assets. For complex systems, management strategies often include frequent assessments of asset performance using data and analysis to determine the quality of asset utilization throughout its lifecycle. These include:

- Preventive (Proactive) Maintenance – it involves regularly scheduled

¹⁷ Cyfryzacja procesu budowlanego w Polsce, Lipiec 2020

¹⁸ <https://theiam.org/what-is-asset-management>

checks to ensure proper functioning, aiming to reduce equipment repair costs, minimize downtime, and extend the lifespan by detecting potential issues before they arise.

- Predictive Maintenance - similar in its nature to preventive maintenance but based on different principles: it uses equipment condition monitoring systems to collect data and estimate the likelihood of future operational problems. When functions (parameter values)

deviate from expected ranges, automatic notifications inform asset managers of the need to address potential issues before repairs are necessary.

- Cost-Benefit Analysis - based on the collected information, a continuous evaluation is made to determine whether the remaining useful life of an asset justifies the necessary costs. In cases where the anticipated repair or maintenance cost exceeds a certain value of the maintained asset, a decision is usually made to replace it. ●

Smart building

Smart Building is a category of technical and IT solutions that provide comprehensive service for building devices and subsystems, based on the integration and processing of data to present it for analysis, allowing for objective decisions aimed at efficient and comfortable use of resources.

Smart Building principles broadly employ IoT sensors. According to McKinsey reports,¹⁹ the global IoT market is expected to reach an estimated value of USD 5.5 to USD 12.5 billion by 2030, partly due to the growing Smart Building sector. This is influenced by increasing maintenance costs, including energy costs (according to various reports,²⁰ estimated energy consumption accounts for about 36% of total final energy consumption in Europe). Consumers indicate²¹ that 'smart devices and buildings' should allow for reducing maintenance costs and saving time, which perfectly aligns with opportunities created by Smart Building solutions.

The European Union has taken up a series of initiatives aimed at transitioning to a 'Smart' state, intending to introduce the concept

of building intelligence. 'Smartness' is defined as the ability of a building or its systems to detect, interpret, communicate, and efficiently respond to changing conditions or requirements of the building's users via its operational systems.²² One of the initiatives is the introduction of the SRI (Smart Readiness Indicator), which involves analyzing a range of factors (FIG 8) to simplify a complex system of measures and parameters into a single indicator that illustrates "smart readiness"²³ of buildings (or a set of buildings) to achieve three key objectives:

- Optimization of energy efficiency and overall operational performance;
- Operational flexibility in response to residents' needs;
- Ability to respond to signals from an external network (e.g., energy flexibility).

¹⁹ <https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/iot-value-set-to-accelerate-through-2030-where-and-how-to-capture-it>

²⁰ <https://www.seforall.org/energy-efficiency-for-sustainable-development/energy-efficiency-in-buildings>

²¹ <https://hbr.org/2015/10/how-people-are-actually-using-the-internet-of-things>

²² https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12364-Inteligentne-budynki-wskaznik-gotowosci-budynkow-do-obs%C5%82ugi-inteligentnych-sieci-definicja-i-obliczanie-_pl

²³ https://energy.ec.europa.eu/topics/energy-efficiency/energy-efficient-buildings/smart-readiness-indicator_en

FIG 8. Proposed structure of domains and impacts criteria²⁴

To meet constantly increasing standards and consumer expectations (in the Smart Building context), a comprehensive approach is necessary, both in terms of data preparation and IT system design, which should include:

- Aggregation of data from the investment preparation stage (including documentation such as BIM models);
- Aggregation of data from the executional stage (based on platforms such as CDE);
- Integration of sensors (such as IoT, BMS systems, and others);
- Defining SMART goals within Facility Management and Asset Management;
- Control and maintenance of the ecosystem throughout the entire lifecycle of the building.

²⁴ [Final report on the technical support to the development of a Smart Readiness Indicator for Buildings, June 2020](#)

FIG 9. Illustrative diagram of an Advanced Smart Building Ecosystem (Author's own elaboration)

The schematically presented solution (FIG 9) illustrates the scale of system complexity. The number of components feeding the system (or a set of them) with data is, in principle, unlimited and may be subject to continuous expansion. The end result is the knowledge built on information subject to continuous analysis of messages using adaptive or self-learning networks. Polish companies develop highly comprehensive and flexible solutions

which are specifically designed for the newest technologies available in the construction industry. The most common solutions used by Polish customers are:

- **Local IoT Network** - local network aggregation tools at the household level, allowing for the management of simple processes such as: adjusting lighting intensity based on natural light (and/or time of day), regulating heating/cooling temperatures (depending on

internal and external conditions), planning the tasks of semi-autonomous robots (considering the usual presence times of household members), and more;

- **Access Systems** – used in multi-family residential buildings and office buildings, allowing for flexible access management (using cards

and/or mobile applications), simultaneously restricting entry in case of detected threats (such as smoke in the garage);

- **Air Quality Control Systems** – utilizing ventilation, air conditioning, and filtration controls based on air quality parameters, such as carbon dioxide content or humidity. ●

Wooden construction is the future

Success story of the EKOINBUD Group

EKOINBUD Group started with general construction services and general contracting to become one of the leaders in the production of wooden modular houses in Poland. Within a decade, the company increased employment from 26 to over 130 people and erected nearly 100 wooden buildings. Thanks to continuous investment in R&D work, not only the authorities of many Polish cities decided to trust their expertise but also the first orders from abroad began to come in, which opened new development opportunities for the company.

The history of the company dates back to the late 1990s, when Tomasz Balcerowski decided to continue the family craft traditions and to set up a company providing construction services. Over the years, the business began to gradually grow to eventually become a group of several brands operating in different segments of the construction market. One of the key decisions that provided completely new development opportunities for the company was to enter the modular wood construction of both large-size buildings and single-family houses – from the production of prefabricated elements to their on-site assembly.

Nearly a hundred wooden large-size and public utility buildings completed over the past decade by the EKOINBUD Group include nurseries, schools, kindergartens, offices, and even multi-storey apartment blocks!

‘One of such projects was a three storeys extension of an existing multi-unit building on the German island of Pellworm. Currently, we are in the final stages of completing a new wing of the hospital in Ostróda, which is the first investment of this type in Poland’, says Tomasz Balcerowski, President of the Management Board and founder of the EKOINBUD Group, which apart from above-mentioned projects has also completed similar ventures in Scandinavian countries.

The main mission of the company is to promote ecological and sustainable construction, which reduces the demand for thermal energy during the heating season, and relies on environmentally friendly materials – buildings are made of wood and wood-based materials, emitting up to 75% less CO₂ than brick buildings. Buildings created by the company are a response to EU requirements due to their low energy demand and a negative carbon footprint. All that without compromising on their functionality and users’ comfort.

'Structural building elements are manufactured in our Gdańsk factory, based on an advanced prefabrication process – with a computer accuracy of up to 1 millimeter. Then, finished prefabricated elements are transported to the construction site, where they are mounted on a prepared foundation slab, regardless of the season. Finally, we insulate them with eco-friendly materials', explains the President of the EKOINBUD Group.

The company can achieve high and market expected parameters thanks to its own Research and Development Centre, carrying out tests, in the field of tightness, acoustics and flammability of partitions, among others. The R&D Centre allows not only for the continuous development of EKOINBUD, but also of companies outside the group, affiliated in the Association of Energy-Efficient Ready-Made Houses. The EKOINBUD Group is also involved in educational activities, collaborating with the State Schools of Construction and the Gdańsk University of Technology, contributing to the popularization of sustainable construction. ●

Without mortar and three-times faster

The Success Story of IZODOM

'We are the only company that offers a complete technology for the construction of energy-efficient and passive houses, thanks to which houses can be built as simply as from blocks – from foundations to roof insulation', says Tomasz Wójcik, President of IZODOM. The company's solutions allow for shortening the construction time by three times, and reducing heating costs by up to 80 percent. The technology is highly recognized in more than 50 countries, where you can find buildings erected with Polish products.

This family company with over thirty years of experience has focused on innovation, investment in development and foreign expansion straight from the beginnings, gaining recognition as a pioneer of specialized building materials, both in Poland and abroad. It was the first European company to offer a complete system for connecting partly prefabricated elements without mortar – from foundations to roof insulation.

'Since appropriate elements are selected at the initial stage to enable the construction of insulated lintels, jambs, and bound beam, the technology allows for hiding the installation even before concreting, and significantly optimizing the construction process. It is also much easier to control expenses – you only need to add the costs of labour, concrete and steel to the price of the blocks. Moreover, as the construction can be completed three times faster, it is easier to avoid price increases', says President Wójcik.

The system consists of polystyrene blocks in the form of stay-in-place formwork, i.e., forms to be filled with concrete, which after pouring serves as thermal insulation. IZODOM is the only company that uses the IZOClick system to connect blocks without mortar, which eliminates the so-called thermal bridges, through which the heat could escape outside. It has been designed to facilitate easy and quick construction of any shape of a building, both energy-efficient and durable – the longevity of the structure is estimated at 150 years, and heating costs are up to 80 percent lower compared to traditional technologies.

'The solution attracts not only private investors, but more and more often developers who want to attract customers with the offer of houses with exceptionally low maintenance costs – lower than the rent in a studio flat, even without the use of solar panels!

A great example of that is an over two-thousand-square-metres passive apartment building in Lithuania, built from our materials, whose heating costs are comparable to heating costs of a 300-square-metre single-family house,' adds President Wójcik.

It is not surprising that IZODOM materials find buyers in more than 50 countries around the world. They are sold not only to majority of European markets, but also to such countries as the United States, New Zealand, the United Arab Emirates, or even Nigeria and Nepal. The company's products were used to build, among the others, the palace of the royal family in Morocco, an urban development in Abu Dhabi, as well as social housing estates in the UK and social terraced houses in France. Finally yet importantly, the quality of company's materials is confirmed by EOTA (European Organisation for Technical Approvals), Passive House Institute, and ISO certificates. ●

Straight from the printer! 3DCP enters the construction site

The success story of REbuild

‘Construction is one of the last areas of the economy that is still automated to a small extent only’, says Michał Kowalik, co-founder of REbuild, a start-up that develops and commercializes 3DCP technology, i.e., three-dimensional concrete printing. The start-up plans to create a 3D printing technology enabling concrete printing and eliminating the need for manual reinforcement, which, if successful, will be a technological revolution on a global scale.

Printing a house, a planter, or a bench? Why not. The Polish REbuild company is already doing this. As one of a few in the world and the only one in Poland, it can print a building directly on the construction site. Layer by layer, just like in a traditional 3D printer, the structure grows, takes shape and slowly turns into a building. A special concrete mix plays the role of the filament, which can be neither too thin nor too dense.

‘First of all, we are reducing the need for a human factor. There are not enough workers not only on construction sites, but also in factories producing building materials and prefabricated elements. Another advantage is the predictability of the construction time because the machine can work 24 hours a day. All you need is a printer operator and a team preparing the mixture, whose work can be replaced by the introduction of a dedicated silo and mixer’, explains Michał Kowalik.

Currently, the company has two variants of its proprietary printers used for different purposes. The first one, REbuild V3, is used to print structures directly on the construction site. The device is very easy to scale and allows for printing objects of any size by just adding more segments to extend the size of the device. REbuild V2, on the other hand, is designed for the production of smaller elements, e.g., small architecture, urban and garden furniture (such as benches and flowerpots) as well as prefabricated elements used in the construction of infrastructure facilities. For larger production, printers can be stacked next to each other and create a prefabrication farm to replace a factory.

REbuild has high ambitions, not resting on its laurels and wishing to take the 3DCP technology to a brand new level – complete automation of printing to eliminate manual assembly of reinforcement from the process.

‘So far, no company in the industry has been able to automatically combine the reinforcement of the structure with the printing process. We know how to do it and we have already started research and development work in this area’, reveals the REbuild CEO. ●

The Construction and Finishing Materials Sector in Poland - catalog

4Nature System



<https://4naturesystem.com/en>; greg@4naturesystem.com

Areas of activity

Vertical gardens, green walls

4Nature System is a PropTech company that has been developing the idea of biophilic design in offices. Our mission is to bring nature closer to a human and improve air quality with live plants supported by advanced IoT technology. The IoT platform with a mobile app is an array of sensors monitoring the office environment and plants condition, providing adaptive, autonomous control. Together with vertical plants in patented modules, it introduces more live greenery into offices with minimal maintenance costs. Our solutions are modular and compatible, thus providing unlimited arrangement possibilities. Teaser about our technology:

<https://www.youtube.com/watch?v=TSMwOfloh-s>

ABAKUS WINDOWS



<https://abakus-windows.eu>; abakus@abakus-okna.com.pl

Areas of activity

Windows and doors

Abakus Windows is a leading manufacturer of high-quality PVC and aluminum joinery. Brand solutions are synonymous with innovation and environmental friendliness. Based on almost 30 years of experience, the company has implemented its unique, integrated IRMC Production management system. It allows for optimizing production, guaranteeing the same parameters at all times and perfect production of even the boldest window and door designs. The brand's flagship products include modern bluSYNEGO and bluENERGY windows. The company's offer is complemented by a wide range of external and terrace doors, mosquito screens and roller blinds.

Agbud Albert Grzesik



<https://agbud-promna.my.canva.site>; agbud35@op.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Windows and doors, Facades and insulations, Gates, fences, stairs, railings, Building chemistry, Wooden constructions and building timber, Construction tools, Plasters, flooring

F.U.H. AGBUD Albert Grzesik is a family company with 70 years of tradition and 20 years of experience in the construction market. It specializes in comprehensive residential, industrial and public projects, as well as modernization, expansion and adaptation of existing buildings and the sales of construction materials. We provide top quality services, tailored to the individual needs of each customer, which is why 80% of them decide to use our services again. We are based in Kolonia Promna providing services locally and in the Warsaw metropolitan area. We have an ambition to become a development company providing a place to live and work for an increasing number of customers.

AJR Fabrications



<https://ajr-fabrications.pl>; biuro@ajr-fabrications.pl

Areas of activity

HVAC, building installations and automation

AJR-Fabrications.pl is a manufacturer and distributor of the highest quality steel ventilation rectangular and round (Spiro® type) ducts and fittings as well as ventilation equipment. Our wide range of ducts and fittings allows for adapting ventilation installations to various spatial conditions in all types of buildings. We offer products that meet the highest standards of safety, quality and durability. Our production department has knowledge and experience ensuring the highest class of manufactured elements. A team of specialists is always ready to provide technical support and any advice regarding our offer. We harness innovative and advanced production technologies.

ALBOmeble Furniture Manufacturer

<https://albomeble.com>; office@albo.com.pl

Areas of activity

Lighting, Display furniture

ALBOmeble specializes in designing and manufacturing display furniture, including glass showcases dedicated to museums, jewelry showrooms, art galleries, and private collectors. The display furniture from ALBOmeble is characterized by timeless design and exceptional attention to detail, making it a perfect setting for exhibits. ALBOmeble is a company with over 30 years of experience in design and manufacturing. We export our furniture to various countries worldwide, including Switzerland, Austria, France, Sweden, and Germany.

Amber-Glass



<https://amberglass.pl>; biuro@amberglass.pl

Areas of activity

Windows and doors, Gates, fences, stairs, railings, Interior glass, balustrades

We are a production company in the glass sector, producing glass for balustrades, walls, divisions, offices, shopping centers, hotels, shower cabins, balconies, glass floors, glass roofs, sport facilities as squash or padel courts, as well as (antireflective) glass for museums or the refrigeration industry. We deliver solutions i.ex. for hotels or public areas as airport terminals finishing, lift finishing. We offer tempered glass, ceramic printing, laminated glass, jumbo-sized mirrors.

AMW INVEST



AMW INVEST
WOJSKOWE BIURO PROJEKTÓW BUDOWLANYCH

<https://amwinvest.pl/>; sekretariat@amwinvest.pl

Areas of activity

Design-military, industrial

AMW INVEST Sp. z o. o. carries out design projects both on the commercial market and as a part of specialist services for the Ministry of National Defense. The scope of the company's design activities includes, among others, residential architecture (accommodation, public buildings), industrial architecture, infrastructure design services (airports, roads), urban design projects. We divide our professional services into clearly separated stages, which enables us to analyze the designing process on an ongoing basis and gives us an opportunity to approach each investment more holistically.

ANDREWEX CONSTRUCTION



<https://andrewexconstruction.com/>; info@andrewex.com

Areas of activity

**Passive, modular houses/smart houses,
Wooden constructions and building timber**

Andrewex Construction Sp. z o.o. is part of the Andrewex, group of companies, located in Cierpice near Toruń in the Kujawsko-Pomorskie Province. Since the nineteen seventies, the production plant has been successfully producing large glulam structures. In 2022, it was expanded and modernized, to include prefabricated modules for multi-story residential and public buildings in its portfolio. We have always supported sustainable, energy-efficient economy with low carbon footprint.

APA Group



<https://apagroup.pl>; info@apagroup.pl

Areas of activity

Passive, modular houses, smart houses, HVAC, building installations and automation, industrial automation

A leader on the market of intelligent industrial automation and building management systems. APA has over 20 years of experience and dozens of successful implementations for institutions, individual investors, municipalities and industrial plants around the world. APA has a comprehensive approach to your business. From management and building automation through industrial processes to efficient energy management. Our solutions are distinguished by intuitiveness, reliability and innovation. We transfer our experience and know-how gained in the industrial sector to the area of intelligent automation in business, everyday life, and cities, with people and their needs always at the center of our activities.

Appartme



<https://appartme.com>; support@appartme.pl

Areas of activity

Passive, modular houses, smart houses, Water supply and drainage, HVAC, building installations and automation, Lighting

Appartme is a home automation system designed for residential real estate developers. This easy-to-use solution manages four key areas of any apartment: electricity, lighting, water valves, and heating. All with the use of a built-in control panel or a mobile app. According to studies, it enables residents to reach even 50% savings on thermal energy, increasing their wellbeing and safety at the same time. Additionally, this eco-friendly and modern technological solution integrates with water leak detector sensors and other smart home IoT (Internet of Things) devices.



Aqua Seen

<https://aquaseen.pl>; aquaseen@aquaseen.pl

Areas of activity

Water supply and drainage, Water treatment

Aqua Seen is an engineering company that provides a comprehensive range of services in the field of water treatment. It includes consulting, design, delivery, and construction as well as servicing and maintenance of devices and systems for the treatment and chemical conditioning of water for municipal and industrial purposes. Our team of over 40 people with expertise in mechanical and technological design, on-site execution, and maintenance has been catering for customers in Poland and nearby countries for over 10 years. Our product range includes metering pumps and metering sets, filtration systems, agitators, UV lamps, chlorine dioxide generators, ozonators, and electrolyzers.

Aquilo Polska



<https://aquilo.pl/>; contact@aquilo.io

Areas of activity

Smart home, sensors, smart city

Introducing Aquilo, an expert in fluid monitoring technology for containers, tanks, cesspits, pipes and city sewage networks, and many more! In today's digital era, monitoring liquids is not just a convenience, but a necessity. It facilitates time savings, early detection of minor malfunctions in tanks, cesspits, pipes, city sewage systems, heating, and water supply networks, thereby averting major breakdowns. As a seasoned brand with extensive experience, Aquilo offers cutting-edge wireless liquid level sensing solutions. Our flagship products include Aquilo WIFI Liquid Level Sensor wireless, Aquilo LTE Liquid Level Sensor wireless.

Archime



<https://archime.pl>; biuro@archime.pl

Areas of activity

Design and build

Archime focuses mainly on implementations in the design-build system in service, industrial, and warehousing facilities, providing comprehensive services at the highest level. The company was founded in 2005 by Maciej Ejdyś as Archime Maciej Ejdyś, initially offering services in the field of architectural design and project supervision. In 2018, a branch providing construction services as a general contractor was established, contributing to further development of the enterprise, followed in 2020 by yet another company under the name of Archime Spółka z o. o., continuing our design and execution projects.

Arkitekto



<https://arkitekto.pl>; biuro@arkitekto.pl

Areas of activity

Construction design

We offer comprehensive services for construction investments, such as consulting and analysis; architectural concepts; maps for design purposes and geological soil research; water law reports and environmental impact reports; multi-sector construction designs of residential, single- and multi-family buildings, farm buildings, warehouses, industrial buildings, public utility buildings, commercial and service buildings and livestock buildings; adaptations of typical projects; multi-disciplinary executive design; construction inventories, expert opinions and technical opinions; structural optimization; construction supervision.

AtriumT



<https://atriumsystem.eu>; atrium@atriumsystem.eu

Areas of activity

Gates, fences, stairs, railings

Atrium is a company with 30 years of experience in manufacturing and vending staircases and balustrades. Atrium System products are manufactured in Europe and are appreciated around the world. Our team creates modern designs and implements the latest technologies in the production process. We strive for flexibility, fast delivery and easy installation of our products, which are used in numerous facilities around the world, both in private and in public buildings. We assure light and timeless appearance, top quality, comfort, and safety of use.

Awilux Polska



<https://awilux.pl>; info@awilux.pl

Areas of activity

Windows and doors

Awilux Poland is a company offering modern window and door systems for houses, apartment buildings, and public facilities. Our products undergo thorough tests, are characterized by perfect technical design, rich aesthetics, and extensive possibilities. Awilux offers premium products, always prioritizing safety and proper functioning of the offered goods. We promote energy-efficient solutions that make the most of natural light - for the safety and wellbeing of our customers, allowing them to live in harmony with nature.



Barwa System

<https://barwasystem.pl>; biuro@barwasystem.pl

Areas of activity

**Facades and insulations, Wallpaper, wall paneling, moldings,
Suspended ceilings**

Barwa System is a company with 30 years of experience in the production and construction sector. We specialize in the processing of metals such as steel, aluminum, SCC, and composite plates. In addition to standard solutions, we also offer modern and sustainable options, such as acoustic Pet and CEWOOD. Our vast experience allows us to offer a full package, from design development and technical advice, to delivery and assembly. Barwa System is an innovative company on every level. Our team is made of creative people full of passion and commitment. Our modern machine park gives us virtually unlimited possibilities to implement innovative solutions.

Bee Light Factory



<https://bee-light.pl>; biuro.blf@bee-light.pl

Areas of activity

Lighting

Bee Light Factory is a Polish producer of lighting solution. We produce every type of professional indoor and outdoor lighting.

Bee-light Solutions



<https://bee-light.pl>; orders@bee-light.pl

Areas of activity

Lighting

Production of professional LED lighting.

Bewi Poland



<https://bewi.com/>; Jerzy.Tereszczuk@bewi.com

Areas of activity

**Passive, modular houses, smart houses, HVAC,
building installations and automation**

We produce EPP parts for insulation systems HVAC 2 and the ICF system for passive and energy saving buildings.

BIAFORM



<https://biaform.com.pl>; biaform@biaform.com.pl

Areas of activity

Birch plywood, formwork

BIAFORM S.A. is a manufacturing and trading company offering birch plywood. Superior quality of our products is ensured by highly qualified and experienced team as well as our suppliers of wood and other components who we have been collaborating with for a long time. Our offer includes plywood for shuttering and scaffolding systems, transportation, furniture, laser cutting, flooring, packaging and many others sectors. Our standard sizes include 1250, 1500x1500, 2250, 2500, 2700, 3000, 3300 mm in thicknesses from 4 mm up to 50 mm, but our flexibility allows us to adapt the offer to our customers' specific requirements.

BinderLess



<https://binderless.com>; biuro@binderless.com

Areas of activity

Construction tools, Software

BinderLess is a web platform that digitizes and streamlines the management of investment and construction documents. It serves as a centralized hub, facilitating efficient collaboration between decision-makers on the investor side and external firms. With BinderLess, accessing up-to-date information becomes effortless, promoting transparency and accountability throughout the project lifecycle. By creating a real-life database of documents, we enhance collaboration, reduce mistakes and store all information about the process in one place. By digitizing the existing infrastructure archives, we aim to enhance facility management and improve fit-outs by providing online access to important documents.

BIOCENT



<https://biocent.com.pl>; biuro@biocent.pl

Areas of activity

Water supply and drainage

BIOCENT S.A. is one of Poland's leading manufacturers of advanced technological products used in engineering construction. The company provides comprehensive solutions and equipment for purifying and pumping technological sewage and rainwater. Our offer includes grease separators, hydrocarbon separators, retention tanks, sewage pumping stations, flow regulators, inspection hatches, return flaps, wall and duct penstocks, and storm gate valves. Biocent focus on the development of new technologies allows us to deliver top-notch tailor-made products.

Bioeco Oil (formerly WKM-Energia)



<https://wkm-energia.pl>; mikolaj.kubicz@wkm-energia.pl

Areas of activity

Bricks, blocks, prefabs, decorative stone, pavers, Building chemistry

WKM-Energia Sp. z o.o. (soon to be transformed into Bioeco Oil SA) is a Polish company established in 2011. It has a manufacturing plant headquarters and an R&D center with its own laboratory near Lublin, and a sales and marketing branch in Warsaw. The company works with top industry scientists and is dedicated to implementing new sustainable technologies for everyday life, and to manufacturing environmentally friendly products. Our esterified products made from natural plant raw ingredients are completely biodegradable and safe for the planet.

BK Bud



<https://bkbud.com.pl>; biuro@bkbud.pl

Areas of activity

General Contractor

We focus on providing comprehensive construction investment services, acting as a general contractor for investments. We have participated in large construction projects, erection of office buildings, industrial facilities, public utility buildings, as well as fitting-out of office and commercial spaces in shopping malls. Our vast experience has allowed us to create our own company and provide fully professional services to investors. The area of our activity covers the entire territory of Poland. Cooperation with large clients from the retail segment helps us develop in a stable and planned fashion.

Bolix



<https://bolix.pl>; export@bolix.pl

Areas of activity

Facades and insulations, Building chemistry

Bolix is a leading company in the building materials industry that has been successful in the national and international markets for years. Our company specializes in the production of high-quality thermal insulation materials and innovative solutions. Our products are characterized by high quality and durability. All our thermal insulation materials are environmentally and health friendly. We are recognized for our wide range of insulation systems, plasters, adhesives, decorative panels and paints, as well as tiles, adhesives, mortars etc.

BP Techem



<https://techem-wycieraczki.com.pl/en/>; maty@techem.com.pl

Areas of activity

Flooring and flooring accessories, Entrance mats, doormats

We have been manufacturing and distributing system mats for over 10 years. Clearly defined objectives, quality products and customer loyalty have helped us achieve the position of the sector leader. Currently, we are the largest manufacturer of aluminum mats on the Polish market. We sell directly (e-shop), through distributors and store chains (e.g. Komfort). In 2012, we started to export our entrance mats, and are present with our featured mats in 33 countries, still looking for new business partners. For the last 10 years, our aluminum mats have been installed in over modern buildings in Poland and abroad, including the biggest shopping centers or offices.

Bramy – Serwis Dariusz Kaszkowiak



<https://szybkarolka.pl>; biuro@bramy-serwis.pl

Areas of activity

Gates, fences, stairs, railings

The company specializes in the sales and repair of high-speed gates, supporting over 120 gate service centers across Europe. As one of a few companies worldwide, it undertakes comprehensive refurbishments of high-speed gates, conducting complete overhauls of electronic controller systems and the refurbishment of expensive drives. The company also repairs and manufactures PVC curtains. By combining all these specialized services, we can sell refurbished high-speed gates at an average of half the price of a new device, with a full manufacturer's warranty.

Brunatech



<https://facebook.com/profile.php?id=61557686505072>
pphubrunatech@gmail.com

Areas of activity

Construction cost estimates.

We specialize in all types of construction investment cost estimates in all sectors, for corporate investors, enterprises, developers, private investors and companies submitting tenders.

CAL real doors, ZSB CAL Z. Cywiński i wspólnicy



<https://calrealdoors.com/en>; office@drzwi-cal.pl

Areas of activity

Passive, modular houses, smart houses, Windows and doors

For almost 40 years CAL has been specializing in doors tailored to customers' need and can fulfill virtually any wish, so you can have the door that you dream of. We provide our customers not only with catalogues, color and corner samples, but also with an exceptional Virtual Fitting Room (by Augmented Reality). With each pair of doors you receive security with the RC2 anti-burglary certificate and the P4 anti-burglary glass, real savings and comfort with thermal performance and tightness confirmed by certificates, including climate chamber tests and the Passive House Certificate (Darmstadt), and beauty with wooden or hybrid doors (with quartzite slates, quartz sinter or aluminum cladding).

Ceramika Netto



<https://netto.net.pl>; gabriela.stepaniuk@netto.net.pl

Areas of activity

Flooring and flooring accessories, Wall and floor tiles

Ceramika Netto is a pioneer of Indian tiles in Europe, the first European tile factory in India. We are also the main supplier of tiles from this region according to the EU statistics. We belong to the Cortina Int. Group, the largest privately owned tile distributor in Europe. Our company specializes in the production of European-quality tiles, which are recognized both in Poland and abroad. We primarily provide outsourced tile production services to Polish and foreign factories, supplying them with high quality products in their original packaging.

Cerrad



<https://cerrad.com>; cerrad@cerrad.com

Areas of activity

**Bricks, blocks, prefabs, decorative stone, pavers, Facades and insulations,
Wall and floor tiles**

Our longstanding presence on the domestic and foreign markets has earned us a leading position among most dynamically developing European production companies and one of the largest manufacturers of ceramic tiles. The company's success lies in the efficient management and the constant development of new and innovative production technologies. Our extensive tile portfolio includes clinker, porcelain stoneware tiles, 2.0 terrace tiles, V-shape treads, all with unique designs, various types of surface finishes (mat, polished, lappato, satin) and formats (including 162x324, 120x280, 20x240 cm).



CERTIA CONSULTING

<https://kot.edu.pl>; kontakt@kot.edu.pl

Areas of activity

Certification, declaration, CE

We support companies in the certification, testing and attestation of construction materials and products. We cooperate with institutes and organizations, provide support in laboratory testing, assessments of conformity, European Technical Assessment, National Technical Assessments, Reaction to Fire, etc. We partner with Ogólnopolski Portal Edukacyjno Doradczy and Krajowa Ocena Techniczna.

Chudziński Stairs



<https://stairs-chudzinski.com>; info@stairs-chudzinski.com

Areas of activity

Wooden constructions and building timber, Stairs

Chudziński Stairs Company specializes in comprehensive staircase projects, from consulting and design through production to installation. We also offer stairs for self-assembly. We boast a modern carpentry shop, a paint shop and a drying room, while the use of CNC machines powered by the Compass software helps us provide superb services with attractive lead times.

Climatic



<https://climatic.pl>; climatic@climatic.pl

Areas of activity

Passive, modular houses, smart houses, HVAC, building installations and automation, Metallurgy and steel constructions, Modular construction system

Climatic Sp. z o.o. Sp. k., is a Polish modular construction company founded in 1997, operating both nationally and internationally. It offers custom modular solutions using the Design and Build method, focusing on institutional buildings, especially healthcare facilities. With many years of experience in modular construction, wishing to address increasing time and quality requirements, we have introduced the 'CLIMATIC Modular System' – a modern solution based on fully prefabricated modules.

COSTKA Natural Construction

COSTKA | we build.
naturally.

<https://costka.com>; biuro@costka.com

Areas of activity

Clay, lime plasters and paints

By using raw earth in architecture, COSTKA restores the human connection with nature. In the wild Suwałki region, we produce healthy, organic, natural products able to adapt to any shape in skillful hands of a craftsman. What we produce is associated with raw and unique beauty that has been in a constant creation process for millennia. Clay lives, changes, and transforms, but it is still naturally clean, hypoallergenic, and malleable. Plasters and paints from the Colors of Earth collection are inspired by our journey around Poland in search of colorful clay deposits. Clay offers a wealth of colors, and provides indescribable properties, when combined with various aggregates.

<https://daasgroup.pl/en>; office@daasgroup.pl

Areas of activity

**Facades and insulations,
Metallurgy and steel constructions, Anticorrosion rope access work**

We are a company with 20 years of tradition, and a team of nearly 130 employees. Combining vast experience and high quality of cooperation, we offer a wide array of services such as corrosion and fire protection, rope access work, facade installation, final cleaning of industrial plants, inspection and repair of wind turbine blades, and much more. We provide our customers with a complete offer, including a wide range of design services, implementation, and supply of materials. We work in accordance with the best available standards, based on the latest technologies.

Dachpol2 Damian Gruszka



<https://dachpol2.com>; biuro@dachpol2.com

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Windows and doors, Facades and insulations, Gates, fences, stairs, railings, Flooring and flooring accessories, Wooden constructions and building timber, Metallurgy and steel constructions, Construction tools

We have been specializing in providing highest quality roofs for homes and companies for years. Our assortment includes a variety of roofing solutions, tailored to various needs and aesthetics. Regardless of whether you need traditional roofing or an innovative energy-saving solution, we are there to meet your demands. Our products are made of first-class materials, which guarantees not only durability, but also safety and comfort for years. We supply our roofs along with comprehensive advice and support at every stage of the project.

DAKO



<https://dakowindows.com>; alicja.biedunkiewicz@dako.eu

Areas of activity

Windows and doors

We are a manufacturer of windows, doors, garage doors and roller shutters with 30-year experience on the domestic and foreign markets. We are constantly developing our product offer and working on small details to come up to the expectations of our customers from different regions of the world. Our main goal now is to find business partners in America, Africa and other distant markets to provide them with a premium quality product in PVC, wood or aluminum. Our HarmonyLine is made of matching windows, door, garage doors, and windows shutters in the same color, design, and pattern. DAKO is a company that has built its success on thorough experience.

Datacomp IT



<https://datacomp.com.pl>; datacomp@datacomp.com.pl

Areas of activity

Construction tools

Datacomp IT Sp. z o. o. has been offering modern and specialized IT solutions for Polish and international clients for 35 years, having vast experience in the construction, mechanical, manufacturing, and public procurement sector. Datacomp also offers IT support services for businesses. We offer our proprietary IFC tool platform with an open BIMvision API capable of visualizing BIM models created in the 2x3 and 4.0 (and higher) IFC formats but also, for example, of developing quantity reports or managing changes. It is the first solution of this type to have a user interface enabling plugin creation.

<https://decoroom.eu>; warszawa@decoroom.eu

Areas of activity

Interior design, carpentry

Decoroom interior design studio has been on the market since 2009 and specializes in turnkey apartment and house fit-outs and made-to-measure furniture. Decoroom operates in Warsaw and Wrocław, which is also where its two flagship showrooms combined with an office are located. The Decoroom boasts a team of seasoned architects, trusted fit-out crews, delivery departments, joiners, and the Decoroom Kitchens division specializing in comprehensive fitted kitchen and furniture projects. The key competitive advantages of Decoroom include its experience confirmed by over 3,500 completed projects and comprehensiveness of services it offers.

Deige



<https://deige.pl>; marketing@deige.pl

Areas of activity

HVAC, building installations and automation, Wallpaper, wall paneling, moldings, Flooring and flooring accessories, Wall and floor tiles, Sanitary ceramics and fittings, Lighting

We specialize in arranging, constructing and fit-out of commercial spaces and interiors. The quality of services we provide, knowledge of the real estate market, and solutions that we use all allow us to achieve results that meet the expectations of our most demanding clients. We care about our clients, their projects, and the environment which we all live in.

DMR Constructions



<https://dmrconstructions.pl>; kontakt@dmrconstructions.pl

Areas of activity

Gates, fences, stairs, railings, Metallurgy and steel constructions, PV carports

Our company specializes in steel constructions, focusing on designing and manufacturing high-quality stairs, railings, and photovoltaic carports. With passion and precision, we create solutions that combine functionality, aesthetics, and durability. Thanks to advanced technology and our specialists' experience, we offer comprehensive services from project conception to final installation. Our constructions are not only sturdy and safe but also modern and tailored to the individual needs of each customer.

Domczar



<https://domczar.pl>; biuro@domczar.pl

Areas of activity

Prefabricated bathrooms

Reliable solutions: We come forward to meet changes and constant challenges in the use of traditional construction technologies because we believe that our solutions and prefabrication are the answer to rising problems of the industry. Domczar is one of the leading European producers of prefabricated modules. We have achieved our position through years of experience in design, production and delivery of bathroom modules tailored to customers' needs. Individual approach of the Domczar team to each and every project ensures complete customer satisfaction - both on the architectural and economic level.

DronoX



<https://dronox.pl>; dronox@dronox.pl

Areas of activity

Progress monitoring

Our company provides drone services for monitoring construction progress. Our photogrammetric products, such as orthophoto maps, digital terrain models, or 3D models, can be applied at every stage of a construction project, namely the assessment of the future construction site, earthworks measurement, earthworks progress monitoring, construction progress monitoring, resource monitoring. With precise aerial data, construction companies can effectively monitor the progress of work against the schedule and ensure compliance with architectural plans. Our team consists of experienced pilots and geospatial data analysts who ensure professionalism and high quality of services provided.

DS Energy Solar



<https://dsenergy.pl>; info@dsenergy.pl

Areas of activity

HVAC, building installations and automation

Our company improves the efficiency of heating and refrigerated installations in commercial buildings. We implement solutions for investor to reduce expenditure on electricity and heating. We offer reliable advice and innovative renewable energy and HVAC solutions. We guarantee high-quality services and reliable consulting in cooperation. We offer first-class products from reputable brands. We guarantee competitive prices and favorable financing conditions. Our comprehensive offer ensures seamless operation of the installation for years.

EasyFootings



<https://easyfootings.info>; easyfootings@gmail.com

Areas of activity

Construction tools

EasyFootings is an innovative company specializing in foundation systems based on micro-piles that provide structural stability even in challenging soil conditions. Its distinctive foundation footing design, made from high-strength steel, ensures long-term reliability. The system combines the benefits of shallow and deep foundations, delivering an optimal solution regardless of ground conditions. EasyFootings stands out in the market through direct product sales, ensuring superb quality. The company is a leader in promoting sustainable construction and ecological innovations.

ecoABM



<https://ecoabm.com>; b2b@ecoabm.com

Areas of activity

**HVAC, building installations and automation,
Metallurgy and steel constructions, Photovoltaic**

We are the official distributor of Growatt, KSTAR, Dyness, Foxess, Jinko, Schalter, Noark, Rotenso, Haier, Heiko. We supply components of the highest quality, such as photovoltaic modules, photovoltaic inverters, energy storage systems, construction systems, electric car chargers, carports, heat pumps, air conditioners, smart home solutions. All components in our wholesale store come from the world's top manufacturers.

Eco-house Ostrowski



<https://eco-house.eu>; biuro@eco-house.eu

Areas of activity

**Passive, modular houses, smart houses, Roofs and canopies,
Wooden constructions and building timber**

Eco-House Ostrowski offers prefabricated timber frame houses, according to its own and customers' individual designs. We make every effort to ensure that our buildings meet the highest energy efficiency standards. This is possible thanks to technologies used, cooperation with experienced designers and installation contractors, and the employment of qualified production and assembly staff, guaranteeing energy-efficient, environmentally friendly, and functional single-family houses that can serve many generations. High quality and reliability are confirmed by RAL and KIWA European certificates granted by independent entities.

Ecorson



<https://ecorson.com/>; info@ecorson.com

Areas of activity

Building chemistry

We are a manufacturer of paints and decorative plasters with 30 years of experience in the industry. We exclusively use raw materials that are friendly to humans and the environment. We are an innovative company, providing professional training in wall decoration techniques. We are looking forward to cooperating with customers from abroad.

Elmont Grupa



<https://elmontgrupa.pl>; biuro@elmontgrupa.pl

Areas of activity

Renewable energy

A team of engineers distinguished by expert knowledge and experience in the energy industry. We have completed dozens of investments in the field of renewable energy sources with a total capacity of over 1100 MW. As a general constructor, we have built both entire wind farms and substations, HV and MV cable lines or transformer stations. We have designed and built photovoltaic farms with a full supply of equipment and farms with investor supplies. We have also completed several dozen industrial energy infrastructure projects for numerous factories.

ELPLAST+



<https://elplastplus.pl/en/main-page>; elplast@elplastplus.pl

Areas of activity

Water supply and drainage, HDPE pipes and HDPE components

ELPLAST + Sp. z o.o. is a Polish production company. Its production plant and headquarters are located in Jastrzębie-Zdrój in the south of Poland. The company has been operating on the market since 1999, selling its products both on the Polish and foreign markets. It processes and produces plastic products, mainly polyethylene, boasts a machine park consisting of 12 extrusion and rotoforming production lines. We serve a wide range of industries, with special focus on water and sewage, telecommunications and energy pipes, geothermics, mining, leisure and sports components (docks, ski jet slips, ports).

Emibig Lighting



<https://emibig-lighting.com>; export@emibig.com.pl

Areas of activity

Lighting

Emibig Lighting is a leading Polish manufacturer of decorative lighting. With years of experience, our commitment to excellence shines bright. Our diverse range of products caters to every style and need, from contemporary to classic. Each fixture is meticulously designed and crafted, ensuring superior quality and attention to detail. Innovation is at our core, driving us to deliver cutting-edge solutions, including energy-efficient LEDs. Sustainability is paramount, and we prioritize eco-friendly materials and practices. Beyond products, we offer exceptional service to ensure a seamless experience.

ERKADO Doors



<https://erkado.pl>; r.bartochowski@erkado.pl

Areas of activity

Windows and doors

Erkado is one of major door producers in Poland, producing complex solutions for interior and exterior doors along with door accessories for 48 years. We have production facilities and warehouses in 3 locations in Poland, with the capacity of approximately 80 000 door sets per month, employing over 850 people. ERKADO products are available not only in Poland, but in 40 other countries, too.

EuroDREW



<https://wiazary-eurodrew.pl>; biuro@wiazary-eurodrew.pl

Areas of activity

Roofs and canopies, Wooden constructions and building timber

EuroDREW specializes in prefabricated roof trusses and timber frame houses, offering end-to-end services from design to assembly. With a focus on residential, industrial, and agricultural buildings, we ensure high-quality materials and craftsmanship. Our experienced team handles demanding projects, ensuring timely and quality completion. Rooted in family values with decades of industry experience, we provide bespoke solutions tailored to individual needs, emphasizing functionality, aesthetics, and durability. We stand out for our customer-centric approach and the use of top-tier materials, aiming to be your reliable partner in construction.

Europanel



<https://europanel.pl>; export@europanel.pl

Areas of activity

Windows and doors, Facades and insulations, Gates, fences, stairs, railings

Europanel is a company located in Poland and a supplier of wall and roof sandwich panels (PU, EPS and MW core), insulation boards for thermal modernization, trapezoidal sheets, assembly accessories, screws and sealants, metal flashings, gutters, PCV, ALU windows, gates, and steel for the construction sector. Our goal is to offer a reliable sandwich panel technology exceeding the needs of today's investors and professionals.

Fire And Gas



<https://fgsystems.pl>; biuro@fgsystems.pl

Areas of activity

Fire protection systems

FIRE AND GAS is an innovative and dynamically growing company that provides services in the field of fire protection systems. Our greatest strength is an experienced team continuously working on providing top quality of services and ensuring their timely completion, making us a trustworthy partner for even most demanding customers. Our work is our passion. All we do – we do it with dedication, commitment and enthusiasm. It is passion that motivates us to continuously develop, discover new possibilities and undertake even the most advanced projects.

Florian Centrum



<https://floriancentrum.com.pl>; florian@floriancentrum.com.pl

Areas of activity

Roofs and canopies, Gates, fences, stairs, railings, Metallurgy and steel constructions

Florian Centrum is a producer and distributor of steel roofing, cold-formed profiles, and gutter systems. The company started its activity in Kutno in 1996. After 22 years it became a part of the Pruszyński Group, thus becoming a family company – entirely with Polish capital. Combining experience, tradition and values with a modern vision of development, Florian successively expands its machine park, invests in new technologies, focusing on the highest quality of a wide range of products and services.

FORM AT WOOD

FORM[®]
AT WOOD

<https://formatwood.com>; info@formatwood.com

Areas of activity

Wallpaper, wall paneling, moldings, Wall and floor tiles

The FORM AT WOOD team creates exclusive, three-dimensional wooden wall panels. As enthusiasts of various methods of processing this warm and timeless material, we decided that a gust of fresh air was needed in the wall arrangement business. The production is based on the processing of selected wood species, which makes each element unique. Due to modularity, panels can create various arrangements and any patterns on the wall, both entire surfaces. We believe that our wooden FORM AT WOOD wall decor will help you create a stylish and impressive space, introducing good energy and a great mood to your house or business.

Formes



<https://ecopaint.eu>; info@ecopaint.eu

Areas of activity

Passive, modular houses, smart houses, microclimatic clay plasters

Microclimate Plaster is a natural alternative for anyone who values a healthy space with unique visual qualities that only clay can guarantee. We are the only company offering plasters contain from 60 to 100% of clay, ensuring the highest rate of moisture absorption from the environment and its accumulation. This ensures 64% higher water vapor absorption compared to other well-known clay mortars available on the market. Such high rate is crucial in optimizing climatic conditions during the circadian rhythm, significantly affecting human health and development.

Garda Metal Works Polska



<https://www.gardametalworks.com>; biuro@gardametalworks.pl

Areas of activity

Roofs and canopies, Facades and insulations

Garda Metal Works delivers leading building envelope solutions to the construction industry. It specializes in roofing, cladding, facades and skylights as a specialist contactor and supplier while catering to its clients' complete design requirements. We provide long-lasting, high performance and low maintenance building solutions using quality profiled sheets and innovative metal finishes resulting in high-quality designs, leading to the completion of unique and compelling construction projects. We collaborate with the leading manufacturers in the market, sharing the same passion for quality and innovation.

Garden Spot Int.



<https://gardenspot.pl>; biuro@gardenspot.pl

Areas of activity

Wall and floor tiles, vertical gardens, green walls

Garden Spot is a manufacturer of Pixel Garden, which is a modular and innovative system for creating living vertical gardens. The company has been operating in the green walls industry for over a dozen years, and its products being well received and appreciated on both the domestic and international markets. Garden Spot products based on the Pixel Garden system set new standards in space design and introduce freshness and green colors into interiors, including both ready-made products intended for commercial spaces, such as mobile or standing vertical gardens, and made-to-measure green walls.

<https://gaztech.com.pl>; sekretariat@gaztech.com.pl

Areas of activity

Metallurgy and steel constructions, technical gases

Gaztech is a family-owned company from central Poland, operating in the welding market for 30 years. We have a team of 60 welders with qualifications in 111, 121, 135, 136, 138, and 141 welding methods. We specialize in circumferential welding of large tanks (refinery raw material bases, fuel bases, sugar factories - raw material tanks). We have completed more than 40 projects over the last 3 years. We offer welding services combined with the supply of technical gases (shielding gases, i.e. argon, argon mixtures). We also provide welding machines (sale, rental), as well as welding materials and supplies.

Gdańska Fabryka Okien



<https://gfo.com.pl>; biuro@gfo.com.pl

Areas of activity

Windows and doors

Gdańska Fabryka Okien is a manufacturer of PVC and aluminum windows and doors with over 20 years of experience and production facilities in Trąbki Wielkie and Okole near Starogard Gdański. Our production is based on the Veka, Salamander, Aluron and GFO Tristar systems. Our products are equipped with WinkHaus fittings and glazed with a wide range of glass packages. PVC windows are manufactured on the latest generation of Graf machines equipped with the V-perfect technology. We offer a wide range of solutions for sliding patio doors. In addition to PVC and aluminum windows and doors, our portfolio includes wooden and steel doors, garage gates, blinds and external roller shutters. We have developed a retail chain throughout the country and sell our windows all over Europe and above. Our extensive fleet enables us to make deliveries in Poland and Germany directly to customers. We are equipped with vehicles with lifts, forklifts and knuckle boom trucks. Order completion time depends on the season, usually ranging between 3 and 6 weeks. We support our partners with service both in Poland and Germany. We are known for our individual approach. We prepare price offers within 24 to 48 hours, and we also provide the WH Okna - software for self-pricing.

George



<https://george.pl>; biuro@george.pl

Areas of activity

Passive, modular houses, smart houses, Windows and doors, Facades and insulations, Wooden constructions and building timber

George is a manufacturer of prefabricated and modular buildings as well as windows and doors made of eco-friendly materials, chiefly Scandinavian whitewood and pine. Our goal is to manufacture high-quality and durable products. Our windows and doors are contrary product to popular but not ecological in any form PVC windows. We believe although the price difference - wood is still the main material to manufacture those. Our modular and prefabricated cabins are designed for residential purposes but also for glamping. We are one of the best manufacturers of quality log cabins in Europe and the biggest designer and producer of glamping lodges and pods.

Geowap



<https://geowap.pl>; biuro@geowap.pl

Areas of activity

Land surveying, geodesy

Geowap is a land surveying company specializing in geodetic, photogrammetric measurements, and 3D object scanning. Our services are essential for planning and executing construction investments, for legalization processes and for obtaining building permits. Our company also offers surveying services related to boundary marker reinstatements, and land severance.

Globplast



<http://irisglass.pl>; biuro@globplast.pl

Areas of activity

Windows and doors, Facades and insulations

Globplast was established in 2011. We specialize in the production and distribution of construction profiles made of aluminum, steel and PVC (Poli Vinyl Chloride) as well as construction mesh, foil and membrane materials for thermal insulation. Our engineers' extensive experience in production and trade, gained both domestically and abroad, guarantees comprehensive investment services from precise production of technologically advanced elements to the certainty of stable cooperation.

Glulam Pro



<https://glulam.pl>; jakub@glulam.pl

Areas of activity

Wooden constructions and building timber

Glulam Pro - 16 years of experience on the wood market! Since 2006 we have designed hundreds of wooden structures in Poland and abroad. Since 2015, we have also been acting as a representative of wooden structure manufacturers. We supply KVH, BSH, HBE and CLT wood directly from the manufacturer to trading and construction companies. Our company is among the top professionals in the industry, both domestically and internationally. We focus on long-term relationships and the highest standard of services.

<https://architected-sound.com/en>; info@architected-sound.com

Areas of activity

Interior acoustic solutions

As the general distributor of Architected Sound, Gorycki&Sznyterman has been providing comprehensive sound and acoustic services for over 23 years. As acoustic consultants, interior designers, and architects, we are driven to design and implement unique acoustical solutions that are perfectly tailored to the character of the space being treated. Consequently, homes and offices can transform into sanctuaries of rest, respite, and productivity. Our creations are functional, balanced, and unobtrusive – they simply work.

Grenton

Grenton

Smart Home

<https://grenton.com>; grenton@grenton.com

Areas of activity

Passive, modular houses, smart houses, HVAC, building installations and automation

Grenton is a Polish manufacturer of a comprehensive Grenton Smart Home System which is a combination of wired and wireless modules, flexible programming, control panels with a modern design and an intuitive, personalized myGrenton mobile app that allows you to remotely manage your home. The company's mission is to popularize and provide innovative smart home technologies in a way that guarantees support for system distribution and constant care about end-users' satisfaction. Grenton sells its products through distributors, dealers, and professional installers in more than 30 countries.

Hemp World



<https://hempworld.com.pl>; biuro@hempworld.com.pl

Areas of activity

Passive, modular houses, smart houses, Facades and insulations

HempWorld pioneers in eco-friendly construction, offering innovative homes made with CLT wood and hemp insulation. We merge modernity with nature, ensuring durability, energy efficiency, and a healthy indoor climate. Our mission is to advocate for sustainable living through eco-design and advanced technology.

Hempfy Block

HEMPFY BLOCK

<https://hempfyblock.com>; w.wiechnik@gmail.com

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers

Architects around the world are increasingly relying on hemp as a cleaner, more efficient replacement for traditional home building materials, while developers are increasingly concerned about ecology. Hempcrete is a carbon negative material made from hemp that is more and more often replacing concrete. HempfyBlock is a modern, ecological building material used in construction to create a carbon neutral product that is also resistant to fire, mold, and weather conditions. At HempfyBlock, we have created a range of products for the future, and have patented one of them. We are open to talks with investors.

Huck Polska



<https://huck.pl>; biuro@huck.pl

Areas of activity

Roofs and canopies, Gates, fences, stairs, railings, all type of PP nets

Huck is a specialist in rope access and nets, and is a competent partner for innovative solutions in this field. Combining outstanding net and rope quality with modern manufacturing methods, we can fulfill the highest quality standards. We ensure quality, security and persistence in all our areas of our expertise: rope play equipment for kindergartens and playgrounds, sports nets for various disciplines, industrial nets and ropes as well as safety nets.

Instytut Techniki Budowlanej (Building Research Institute)



<https://itb.pl>; ci@itb.pl

Areas of activity

Construction research

Instytut Techniki Budowlanej (ITB) is the largest research institute operating in the field of construction in Poland, widely recognized in Europe and around the world. The ITB has been conducting research on a wide range of technical topics, including structural safety and durability, fire safety, comfort of use, energy efficiency, and environmental sustainability. Our activities include research, national and international projects, structural surveys, testing construction products and structures in an accredited group of test laboratories, innovation and knowledge dissemination, European and national technical assessments, technical recommendations, and worldwide certification.

Izoblok



<https://izoblok.pl>; info@izoblok.pl

Areas of activity

**Passive, modular houses, smart houses, HVAC,
building installations and automation**

We produce EPP parts for HVAC insulation systems and the ICF system by BEWI for passive and energy efficient buildings.

Izodom 2000 Polska



<https://izodom.com>; izodom@izodom.pl

Areas of activity

Passive, modular houses, smart houses

Izodom 2000 Polska is the only complete technology for the construction of energy-efficient and passive houses. Izodom is a family company, present on the market since 1991, with production located in Poland and several European countries. The Izodom technology has been certified by the German Passive House Institute in Darmstadt. Izodom is the only firm to use the IZOClick system for joining blocks without mortar, which eliminates thermal bridges. Our products are available in over 50 countries, and our technology has been used to build, among others, a royal palace in Morocco.

Izoterm Mariusz Wałek



<https://izoterm.co>; izoterm@izoterm.co

Areas of activity

Facades and insulations

The company was established in 1993. Many years of experience in processing various types of polystyrenes used to produce polystyrene thermal insulation panels have resulted in technical knowledge in this field. The company has developed its proprietary polystyrene board production technology and its own method of manufacturing machines and equipment for the production of polystyrene. In recent years, Izoterm has mastered the technology of producing flame-retardant thermal STOP FIRE insulation panels.

James Windows



<https://james-windows.pl>; info@james-windows.pl

Areas of activity

Windows and doors

James Windows Sp. z o.o. is a dynamically developing and modern producer of PVC and aluminum windows and doors as well as outdoor shutters and pleated mosquito nets for the Benelux countries.

Jawor-Parkiet

JAWOR-PARKIET.PL[®]
PRODUCENT PODŁÓG DREWNIANYCH

<https://jawor-parkiet.com/>; media@jawor-parkiet.pl

Areas of activity

Flooring and flooring accessories

The Jawor-Parkiet offer includes a wide range of parquets and floorboards suitable for installation on floor heating. Jawor-Parkiet wooden floors are available in different colors and finishes, including traditional floorboards and parquets, chevron herringbone floors available in several formats, DesignExperience short equal-length floorboards, allowing for numerous arrangement options and dedicated to architects, and FertigDeska Luxury, a long floorboard, with elements measuring up to 2.5 m in length. The offer is complemented by antiquated and originally stylized floors.

JF Technologie



<https://jftechnologie.pl/>; biuro@jftechnologie.pl

Areas of activity

Passive, modular houses, smart houses, Windows and doors, Facades and insulations

Our goal is to promote energy-efficient constructions. JF Technologie was established in 2017 as an engineers' project. We are a manufacturer focusing on simple yet effective solutions ensuring best results. We specialize in thermal window and door profiles in many shapes, suitable for most systems available on the market as well as tailormade solutions. JF Technologie supplies its products to window and door producers, dealers, assemblers, and individual investors. Our solutions guarantee tight installation of window joinery to reduce thermal bridges. Our thermal insulation sills are a big step towards building energy efficiency in accordance with the latest passive standards.

<https://kaizen.pl>; biuro@kaizen.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Water supply and drainage, Windows and doors, Facades and insulations, Building chemistry, Construction tools

We know that without professional support it is easy to feel lost in the vast expanse of products available on the market, which is why we have built a competent team ready for comprehensive cooperation. We are driven by the Kaizen ideology, we constantly enrich our knowledge, develop our professional and personal skills and keep up to date with latest technological solutions. We dedicate our offer to both bigger and smaller investors, aiming to meet the highest expectations. Therefore, in addition to a wide range of materials, we offer professional assistance of proven contractors, modular building producers, and architects who we cooperate with.

Kaja Alfred Olszewski



<https://kaja.com.pl>; biuro@kaja.com.pl

Areas of activity

Lighting

Kaja Alfred Olszewski is a Polish lighting company with 30 years of experience, offering its products on the domestic and international market. We have a very wide range of lighting fixtures in various styles, from classic to modern. We keep track of changing interior design trends to meet the expectations of all customers. We have our own production facility, so we can complete individual projects, too. Our products are characterized by high quality and precision of workmanship, ensuring highly comfortable user experience.

KAN



<https://kan-therm.com>; kan@kan-therm.com

Areas of activity

Water supply and drainage, HVAC, building installations and automation

KAN Group is an experienced and well-known manufacturer and supplier of modern and complete systems for water distribution, heating and cooling installations and for industrial applications. Since its initiation in 1990, KAN has been building its position on strong pillars: professionalism, innovativeness, quality and development. Products bearing the KAN-therm logo are exported to 68 countries on different continents. The distribution chain covers Europe and most of Asia, Africa and America. We are present in the UAE, Germany, Hungary, India, China, CIS, and Poland.

KDM Dariusz Mazur



<https://kdm.net.pl>; kdm@kdm.net.pl

Areas of activity

Geotechnics, hydrotechnics

KDM Dariusz Mazur has over 25 years of experience in geotechnics, hydrotechnics and deep foundations. We are the exclusive dealer of European and world manufacturers of high-quality machines and equipment applicable in a wide variety of foundation jobs such as driving and extracting elements, noise- and vibration-free pressing machines, and ground improvement works. Our offer includes vibratory hammers, vibroflots for soil stabilization, vertical drainage devices, hydraulic pressing machines, pile drivers and hydraulic hammers, multi-purpose drilling rigs, drilling equipment, special solution for offshore foundation, suction excavators, truck mounted and knuckle boom cranes.

<https://klimas.com>; marketing@wkret-met.com

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Windows and doors, Facades and insulations, Wooden constructions and building timber, Construction tools, Fasteners

Klimas Wkręt-Met is a leading Polish company renowned for its high-quality fastening technology solutions. Founded in 1990, it has established itself as a prominent manufacturer and distributor in the construction industry, particularly in Europe. The company's product range includes a wide variety of fasteners, screws, anchors, and other fixing products designed for various applications in construction. Klimas Wkręt-Met is committed to innovation, consistently investing in research and development to enhance its product offerings and meet the evolving needs of its customers. Its dedication to quality manifests itself in its adherence to stringent European standards.

Klima-Therm



<https://klima-therm.com>; sekretariat@klima-therm.com

Areas of activity

HVAC, building installations and automation

Klima-Therm has been active on the market since 1996. The company provides its customers with air conditioning, ventilation and heating systems from an extensive range of devices manufactured by recognized brands with KAISAI at the forefront. Klima-Therm targets its products and services to both institutional investors and individual consumers, supporting companies and individual customers in creating comfortable conditions for work and leisure. It also helps entrepreneurs maintain the right flow of technological processes. Klima-Therm Group successfully runs its business both in Poland and abroad.

Klimor

The logo for Klimor, featuring the word "Klimor" in a blue, sans-serif font. The letter "i" has a small blue square above it, and the letter "o" has a small blue square above it.

<https://klimor.com/en>; klimor@klimor.com

Areas of activity

HVAC, building installations and automation

Klimor is a leading manufacturer and supplier of both standard and highly specialized air conditioning, ventilation and cooling systems designed for both land and offshore markets. We are a production company founded in 1967 in Gdynia, Poland. A longstanding tradition supported with specialist knowledge and comprehensive experience gained on both the Polish and European markets enable the company to develop its offer continuously with state-of-the-art technological solutions reflecting all latest trends in the trade, maintaining rigorous quality standards at the same time. Since 2010, Klimor has been successfully developing its business activity as a part of the Klima-Therm Group.

Komandor



<https://komandorwalls.com/en>; jkotela@komandor.pl

Areas of activity

Windows and doors, Acoustic movable partitions

Komandor Walls was created as a result of the development of Komandor SA in 2015. Komandor Walls launched acoustic partition walls, which enable easy division for internal spaces and are a perfect example of combining a great idea with a high-quality product. The Komandor Walls offer includes mobile MAW walls moving along tracks installed in the ceiling, and adjustable TAW walls mounted as panels to the floor and to the ceiling. Both systems are distinguished by a durable and stable construction in a virtually unlimited number of variants.

KP-Project Krzysztof Pogan



<https://kp-project.eu>; k.pogan@kp-project.eu

Areas of activity

Building chemistry, engineering expertise

Krzysztof Pogan, PhD Eng specializes in technical opinions, civil engineering expertise, technical consultancy, construction chemicals, building materials, concrete technology, concrete repair, strengthening and protection, waterproofing, flooring, management of specialized construction work; supervision of construction work, lectures at technical universities, market launches of modern, innovative and environmentally friendly products, consulting and management of change, organization, sales, development and implementation of business and marketing strategies.

Kubala



<https://kubala.com/en>; kubala@kubala.com

Areas of activity

**Facades and insulations, Wall and floor tiles,
Sanitary ceramics and fittings, Construction tools**

We currently offer over 700 types of hand construction tools from main groups. We use only the best raw materials, including acid-resistant stainless steel marked with the "Rost Frei" symbol. Our goal is to provide the highest quality tools that will meet the expectations of even the most demanding customers. We make every effort to maintain high production efficiency, which is why we invest in modern machinery and product quality control systems.

<https://ledline.pl>; kontakt@ledline.pl

Areas of activity

Lighting

Every day, we create high-quality cooperation for the LED world. We are a link between technological advancements in the LED lighting sector and the market, namely distributors, investors, and installers. We offer an optimized and complementary offer, consisting exclusively of products tested in our laboratory. Our offer has been developed by an expert team whose mission is to assist clients in achieving their business goals. 15 years of experience and high level of collaboration efficiency have allowed us to expand the reach of our LED line to many countries all over the world.

Ledolux Poland



<https://ledolux.pl>; biuro@ledolux.com

Areas of activity

Lighting

Why choose Ledolux? With years of experience in the production of industrial, street, and stadium led lighting, Ledolux brings unparalleled expertise to every project prepared by our team of engineers. We adhere to the highest quality control standards to ensure reliability and performance of our products with a warranty of at least 5 years and highest light efficiency proved by ENEC and ENEC+ certificates.

LEXiCON Przemysław Bogusz



<https://pbogusz.wixsite.com/lexicon/kancelaria> ;

<https://boguszkancelaria.pl> ; Office@boguszkancelaria.pl

Areas of activity

Consultancy and legal services

LEXiCON is a premier consultancy at the confluence of law and civil engineering, acknowledged for its court expert status at the District Court in Wrocław. The foundation rests on dual expertise in law by employed solicitors, and in civil engineering as LEXiCON employs engineers, too. This unique combination enables LEXiCON to deliver unparalleled legal and technical advice in construction law and real estate. Specializing in comprehensive solutions to intricate challenges, LEXiCON serves a diverse clientele, ranging from individuals and SMEs to architects and engineers.

LPW Engineering



<https://lpw-grupa.pl>; biuro@lpw-grupa.pl

Areas of activity

Engineering Design Office

The LPW Engineering team has years-long experience in designing buildings, halls, roads, parking lots, railways, electrical installations, sanitary installations, HVAC installations, and telecommunication installations.

Lutum Vernum



<https://naturalnetynkowanie.pl>; sklep@naturalnetynkowanie.pl

Areas of activity

Facades and insulations

We offer natural solutions for construction, including clay and lime plasters, sold throughout Europe. We also organize clay and lime plastering workshops for enthusiasts and professionals.

Łukasiewicz Research Network - Institute of Ceramics and Building Materials



<https://icimb.lukasiewicz.gov.pl>; info@icimb.lukasiewicz.gov.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Windows and doors, Facades and insulations, Building chemistry, Wall and floor tiles, Sanitary ceramics and fittings, environmental protection

A proven innovation and a development partner! Our activities focus on building materials, ceramics with a wide range of applications and on environmental protection. An interdisciplinary team of researchers pursues the objectives of Sustainable Europe, the Closed Circle Economy and the European Green Deal. The Institute develops innovative technologies to find industrial applications for them. Our current priorities include low-carbon and energy-saving technologies and research into the use of hydrogen as a fuel in energy-intensive industries.

M3 System



<https://m3system.pl>; biuro@m3system.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers

We offer a unique, patented and energy-efficient building technology to investors, developers and construction companies looking for a high return on investment. Our solution allows for achieving the passive, zero or plus energy building standard (70% lower costs of heating and cooling in comparison with traditional construction technologies) at a similar cost to that of a traditional building. An average construction time ranges from 4 to 8 weeks, buildings can be erected on soils with very poor bearing capacity, without the need for heavy equipment or highly qualified workforce.

MAAN Andrzej Matoga



<https://maan.net.pl>; info@maan.net.pl

Areas of activity

Construction tools

MAAN is a manufacturing and trading company, offering a wide range of painting, building and gardening tools. It is one of the largest Polish manufacturers of hand tools for home and garden since 1991. We hire more than 140 employees and are a 100% Polish-owned firm that continues to develop its activities. We are present in the domestic and world markets. It allows us to continuously improve our products, which are increasingly popular with customers. Cooperation with us is a guarantee of a wide range of products, the highest quality, competitive prices, professional service, short lead times, and environmental friendliness.

Makor Robert Makowski



<https://makor-tech.pl>; <https://emakor.pl>; biuro@emakor.pl

Areas of activity

Facades and insulations, System cabins, pool cabinets

Makor has been providing comprehensive equipment for offices, laboratories, cloakrooms, workshops and public utility facilities since 2015. We have our own machinery park and produce HPL cabinets and toilet cabins as well as semi-products made of chipboard, plywood, MDF and HPL. We are also a distributor of chipboard and metal furniture.

Marax R.RAJ



<https://marax.pl>; biuro@marax.pl

Areas of activity

HVAC, building installations and automation, Sanitary ceramics and fittings

Marax is a manufacturer, wholesaler and retailer of heating, sanitary and ventilation equipment. We produce oil and electric stoves and heaters, gas stoves and umbrellas, solar collectors, solar and electronic multi-functional washing toilets with bidets. Our production facilities are located in Poland, South Korea, and China.

Mardom

M A R D O M
D E C O R

<https://mardomdecor.com>; mardomdecor@mardom-sp.pl

Areas of activity

Wallpaper, wall paneling, moldings, Flooring and flooring accessories, Lighting

Mardom is a distinguished Polish manufacturer exceling in the production of premium-quality wall panels and interior moldings under its renowned brand names of Mardom Decor, Lamelli, Duna, Lumio, and Vivid. Our commitment to excellence helps us surpass other leading European brands in this sector. Alongside its esteemed wall panel and molding lines, Mardom offers the Premium Floor brand boasting a diverse array of laminate and vinyl flooring solutions. With an unwavering focus on quality and contemporary design, Mardom caters to discerning customers seeking both style and durability in their interior enhancements.

La Mare

LA  MARE

<https://lamare.pl>; biuro@lamare.pl

Areas of activity

Passive, modular houses, smart houses, Houseboats manufacturer

We are a manufacturer of houseboats, present on the market since 2010. More than 500 La Mare houseboats are already floating in many European countries. Over that time, we have gained not only vast experience but also the ability to listen to customers and follow their needs and growing expectations. It has also been a period of many investments, new solutions, and original ideas launched onto the market. Our activity in such a specific industry as houses on water is not limited only to the production of houseboats. Our mission is to provide customers with top-class solutions, which are tailor-made to individual needs, ensuring full safety, and the highest comfort.

Marten Pindel



<https://marten.pl>; biuro@marten.pl

Areas of activity

Flooring and flooring accessories, Tile leveling system, fixings

We are a Polish company that has been developing and taking up new challenges for 24 years. We specialize in processing of plastics, producing injection molds, and plastic elements. We are a leader in the market of construction fixings, building accessories and tile leveling systems. We have a machine park with a wide range of applications, equipped with peripheral devices, CNC injection mold production centers, and an automated packaging process line. We are a harmonious, innovative team that is constantly improving to implement more and more exciting and demanding projects.

Mat-Tar Sp. J. Władysław & Dorota Matuszkiewicz



<https://mat-tar.pl>; biuro@mat-tar.pl

Areas of activity

Flooring and flooring accessories

Mat-Tar is family company with over 60 years of tradition in processing oak wood. Our production is based on longstanding experience, modern technology and respect for the natural environment. We focus on the production of solid high-quality 2-layer floors. Our oak flooring is characterized by a beautiful structure and colors, as well as perfect geometry guaranteeing simple installation and use. Moreover, Mat-Tar 2-layer flooring has been examined by the Wood Technology Institute in Poznań for its suitability for underfloor heating, which guarantees additional advantages. Mat-Tar oak flooring is finished with high quality oils and lacquer.



Maxim-Art Stuccowork

<https://maximart.pl>; maximart@maximart.pl

Areas of activity

Stuccowork, sculpture, reconstruction

Our company is open to cooperation in a wide range of stucco services, from decoration through design and production to installation. We reconstruct and renovate stucco decorations in various materials in interiors and on facades. We also have a very wide range of our own stucco patterns and prepare custom-made drawings of all types of decorations, columns, vases, flowerpots, sculptures and bas-reliefs for palace stucco. Our portfolio also includes such decorative wall coatings as stucco, imitations, and 3D bas-reliefs.

Max-Stone



<https://maxstone.pl>; biuro@maxstone.pl

Areas of activity

Bricks, blocks, prefabs, decorative stone, pavers, Facades and insulations, Wallpaper, wall paneling, moldings

Founded in 2004, Max-Stone is a leader in the DIY industry, specializing in the production and supply of innovative products to the largest DIY store chains in Poland and around the world. Our company's mission is to explore the possibilities of space arrangement in which we live, by constantly striving to make it more beautiful, comfortable, and practical. Our range includes decorative and facade tiles, slats on felt, upholstered panels, milled panels, felt panels, SPC decorative wall panels, as well as innovative facade materials such as WPC panels.

Mazanek



<https://mazanek.pl/>; info@mazanek.pl

Areas of activity

Construction tools, Metalworking machines

We are a Polish manufacturer, operating on the domestic and international market. We produce machines for sheet metal forming, bending machines, guillotines, and scissors for sheet metal processing.

mech.build



<https://mech.build>; jan@mech.build

Areas of activity

Biomaterials

mech.build architectural studio was established in 2012 by experienced designers aware of the impact that architecture has on the environment. With our designs we implement passive, regenerative, circular, and inclusive solutions based on a large spectrum of healthy, local, reused or natural materials, such as straw, clay, hemp, cellulose, rammed earth. The company was founded by Jan Dowgiałło and Anna Zawadzka-Sobieraj – architects and members of the Polish Natural Materials Association and the Sustainable Architecture Circle of OW SARP (the Warsaw Branch of the Polish Association of Architects).

<https://megaplot.com>; info@megaplot.com

Areas of activity

**Passive, modular houses, smart houses, Roofs and canopies,
Facades and insulations**

MegaPlot was founded over thirty years ago. In the past three decades, we have amassed substantial expertise in designing, producing, selling, and maintaining CNC machinery. Our exceptional pre- and post-sales technical support is highly valued by our global clientele. Our hot wire CNC EPS and XPS foam cutting machines, along with XTR fast wire cutters are recognized for their reliability, innovation, and user-friendliness. This is due to our practice of designing and building our equipment from scratch, including all mechanical parts, design and production of electronic elements, and software development. Our machines are well-suited for cutting flat roof panels, SIP insulations, pipe insulations, and more.

Meister Bau



<http://meisterbau.pl>; biuro@meisterbau.pl

Areas of activity

Roofs and canopies, Wooden constructions and building timber

Meister Bau is a cutting-edge manufacturer of wooden structures for the construction industry, known for its high-quality products. Leveraging innovative technologies, including the latest production machines and wooden structure design systems, the company prides itself on its Hundegger brand carpentry line which guarantees versatility and top-notch production quality.

With a focus on professional craftsmanship and an expanding product portfolio built upon extensive experience, Meister Bau team of skilled professionals continuously advances their expertise. They keep abreast of market trends, constantly enhancing service and product quality.

<https://mestil.com.pl>; administracja@mestil.com.pl

Areas of activity

Structural design

We are a professional team of structural engineers. We naturally broaden our horizons in the field of designing structures by approaching our work with passion. We constantly improve our skills which translates into effective cooperation with our clients, both domestically and abroad, as we tailor our projects to their needs. Our approach to achieving optimal solutions, transparency in operation and substantive support helps us build both solid structures and healthy relationships.

Mobile Construction Technology Laboratory (Mobilne Laboratorium Techniki Budowlanej)



<https://badaniaokien.pl>; biuro@badaniaokien.pl

Areas of activity

Window, door certification

Our institution founded in 2007 constantly strives to expand competencies and improve its test methods. Starting from basic production control, we have been progressively introducing such services as thermal conductivity, anti-burglary properties, acoustic properties, and field testing. In 2023, we were first in Poland and second in Europe to introduce a comprehensive offer allowing for further certification of windows and doors for North American markets, which was a significant step, listing us among laboratories recognized by Keystone.

Modesta



<https://modesta.pl>; info@modesta.pl

Areas of activity

Windows and doors

Modesta is a company specialized in supplying construction investments with high-class construction joinery. We select, supply and install steel doors, interior doors and walls, garage and industrial doors. We are a manufacturer of aluminum and glass structures for the construction industry. Our product range includes doors, windows, facades and atypical products, such as doors for installation shafts, X-ray windows and bulletproof partitions. We use the latest technological solutions, keep up with technical innovations and efficiently respond to upcoming changes. We analyze the construction market, projects, and customer needs to stay up to date.

Monza Baseny



<https://monzabaseny.pl>; biuro@monzabaseny.pl

Areas of activity

Pools and spas

We specialize in private and hotel pools and spa zones. Starting from scratch, we can design, build and provide maintenance for your pool, sauna, or a spa zone. We also deliver our own prefabricated spa modules, such as saunas, relax rooms or hot tube modules which can also be combined together. Our team can run projects located up to 1500 km from Kraków, worth up to PLN 2 million.

Mostostal Warszawa



<https://mostostal.waw.pl/en>; info@mostostal.waw.pl

Areas of activity

General Contractor

Mostostal Warszawa SA is one of the largest construction companies in Poland; it carries out investments in all key sectors of the construction market in Poland and abroad, acting as a general contractor. The company has been operating in Poland for 79 years and has been involved in all types of construction projects: general, industrial, environmental, energy, infrastructural and road, as well as steel structures and technological installations for the petrochemical and chemical industries.

Nueva Terrain Polska



<https://nuevaterrain.pl/>; biuro@nuevaterrain.pl

Areas of activity

HVAC, building installations and automation

Since 2007, we have been the Polish representative of Nueva Terrain S.L., which is a Spanish manufacturer of the innovative Terrain SDP system acknowledged by users, installers, and designers worldwide and perceived as an ideal system for water, heating, and industrial installations. It fits into the trend of new, sustainable construction and surpasses its competitors in this respect. Among many advantages of the system, special attention should be paid to unparalleled speed and quality of installation, as well as durability and confirmed warranty, resulting from insurance coverage of EUR 2 million for each construction worldwide.

Polish Nationwide Association of Natural Building (Ogólnopolskie Stowarzyszenie Budownictwa Naturalnego – OSBN)

<https://osbn.pl>; info@osbn.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Water supply and drainage, Facades and insulations, Construction chemicals, Wallpaper, wall paneling, moldings, Flooring and flooring accessories, Wall and floor tiles, Wooden constructions and building timber, natural materials and design

We educate, support training, ecological solutions, research and implementation of other sustainable engineering technologies, including renewable energy sources, rational water management, etc. We want to increase the number of good and durable houses in Poland that do not harm people and the environment. We strive to use renewable materials requiring a simple production process, such as wood, straw, hemp, clay and lime. We conduct research in cooperation with scientific centers and draw on solutions used around the world. We belong to ESBA – the European Straw Building Association.

Olan



<https://olan.pl>; info@olan.pl

Areas of activity

**Roofs and canopies, Facades and insulations,
Metallurgy and steel constructions, Scaffolding**

Ollan Sp. z o.o. is one of the fastest growing SMEs in the field of the scaffolding and formwork. It was founded in late 2006 by the merger of Lithuanian, Polish and Norwegian capital with years of experience in the production of steel and aluminum and their applications in the construction sector. Olan started its operations in January 2007. We specialize in manufacturing aluminum and steel structures to meet huge demand of the dynamically developing Polish and European economy. Olan offers a wide range of high-quality products, specialized services, and technical know-how necessary to introduce the smartest solutions to the wider construction industry. Our key priorities include openness to customers' needs and high quality of products. Knowing the market and the needs of the modern construction sector, we have compiled an offer tailored to individual clients' needs, addressing any challenges that construction sites might face. Olan also offers a wide range of services, from consultancy through individual designs to production of special structures and help in their implementation.

Olbud Straszyn



<https://olbud.com.pl>; biuro@olbud.info

Areas of activity

Gates, fences, stairs, railings

With over 10 years of experience, we have been delivering modern fencing systems that ensure security and aesthetics. As the largest distributor of the Wiśniowski brand in the Pomeranian Province, we offer a rich array of both steel and aluminum fences, which come in a wide variety of horizontal and vertical designs, providing elegance and durability with a 10-year warranty. Additionally, we provide Joniec fencing blocks for sturdy and reliable fencing solutions. Visit our website, where you will find a full range of our products along with prices.

Pagen



<https://pagen.pl>; kontakt@pagen.pl

Areas of activity

Windows and doors, Facades and insulations

Pagen is one of the leading Polish producers of window, doors, garage doors and shutters. Our PVC and aluminum products are valued in Poland, Germany, Austria, Italy, the Netherlands, Belgium, France, Great Britain, Canada, the USA and Australia. The expansion of our own retail network and the activity on foreign markets contribute to strengthening the position of the Polish door and window joinery sector, which is the exports leader in Europe.

Palisander



<https://palisander.com.pl>; biuro@palisander.com.pl

Areas of activity

Reinforced concrete structures

Palisander Sp. z o. o. rents framework systems to both Polish and foreign construction contractors. Our comprehensive offer allows for full management of reinforced concrete structures of all types. We also provide Health&Safety systems ensuring secure construction site works from A to Z.

Polimex Budownictwo



<https://polimex-mostostal.pl>; grupa-kapitalowa, polimex-budownictwo;
kontakt@polimex-budownictwo.pl

Areas of activity

General Contracting services

Polimex Budownictwo offers comprehensive services in the energy, industrial and general construction sectors, and specializes in RES investments. We are a market-leading general contractor implementing demanding EPC (Design and Build) projects, but we are open to any other form of cooperation preferred by the investor. The company has completed numerous projects both in Poland and abroad. It boasts references and a highly specialized technical staff. Currently, its activities are focused on the Polish market, developing all sectors of the construction industry, adapting the scope and manner of operations to our clients' needs.

Polish Construction Cluster



<https://polskiklaster.pl>; biuro@polskiklaster.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, HVAC, building installations and automation, Windows and doors, Facades and insulations, Gates, fences, stairs, railings, Construction chemicals, Wallpaper, wall paneling, moldings, Flooring and flooring accessories, Wall and floor tiles, Wooden structures and structural timber, Lighting, Metallurgy and steel structures, Construction tools

The Polish Construction Cluster – the National Key Cluster is an association of over 460 construction companies, located throughout the country. Our R&D activities are supported by universities and business organizations to help companies develop their innovative potential and achieve competitive advantage on the local and international market. Over the years, we have created a highly successful model of cooperation, based on mutual trust, openness to face challenges and make positive changes.

PORR



<https://porr.pl>; centrala@porr.pl

Areas of activity

Construction tools

PORR S.A. is one of the leading construction companies in Poland with 2022 revenue of PLN 3.9 billion (a 12% increase compared to 2021). The company draws on the knowledge and over 150 years of experience of the international PORR concern, offering comprehensive services and solutions on the Polish market for over 30 years. Its main areas of competence include infrastructure, construction, railway, engineering, industrial and hydrotechnical construction.

PRACOWNIA ŚWIATŁA MARIUSZ PACHOLSKI

UMMO

<https://ummo-lighting.pl/>; info@ummo.pl

Areas of activity

Lighting

UMMO is a Polish brand specializing in lighting. The brand is highly committed to creating lamps, paying attention to the smallest detail. We carefully select local materials to ensure top quality. UMMO lamps are hand-assembled at our Gdynia studio, so that we can monitor every stage of their production and ensure perfect lighting solutions. Whatever your aesthetic preferences are, UMMO has something to suit everyone. The brand's philosophy is to combine simplicity of form with elegance, creating lighting matching different types of interiors.

Pretende



<https://pretende.pl>; kontakt@pretende.pl

Areas of activity

Building signage

We offer a diverse range of services, including the design and production of all types of letters. We make spatial logos, outdoor and indoor light ads. The company employs experienced specialist from graphic designers and ad fitters. We have an extensive machine park at our disposal, enabling us to produce nearly any type of advertisement. The company's offer is selected by corporate and individual clients as well as small businesses. Thanks to our reliable and professional approach to clients, the use of modern technologies, and top-quality materials, we have earned trust on the advertising market in Poland and Europe.

PWW Group



<https://pwwgroup.pl>; bok@pwwgroup.pl

Areas of activity

Passive, modular houses, smart houses, Roofs and canopies, Water supply and drainage, HVAC, building installations and automation, Facades and insulations, Gates, fences, stairs, railings, Wallpaper, wall paneling, moldings, Flooring and flooring accessories, Wooden structures and structural timber

We specialize in the construction and fit-out of commercial premises, apartments and houses in Olsztyn and the entire Warmińsko-Mazurskie Province, with particular focus on timber frame buildings. We promote this type of architecture in Poland as more energy-efficient, sustainable, and perfectly suited to climatic conditions. Our services also include the complete replacement of electrical, water and sewage systems. Working in close collaboration with numerous companies from the industry, we can undertake various projects even for the most demanding clients.

<https://qmodular.com>; office@qmodular.com

Areas of activity

Passive, modular houses, smart houses

Qmodular is a company that produces modular houses, hotels, dormitories, office buildings, apartment buildings and much more. Our focus is on high quality, modern design and energy-efficiency. We boast references from many countries in Europe and America. Our goal is to complete buildings 70% faster compared to the traditional construction process, which is possible as we deliver turnkey solutions from our factory, which means there is only 5% of work left on site. A quick look at our portfolio is enough to see that we do not work on templates and that our projects are no different in design from traditional buildings.

r2eko Artur Owczarek



r²EKO

<https://r2eko.com>; artur.owczarek@r2eko.com

Areas of activity

Environmental impact reports

r2eko Artur Owczarek is a small yet rapidly growing firm offering a wide range of environmental services, particularly focusing on comprehensive environmental protection solutions. The company comprises a team of qualified experts with extensive professional background in applicable environmental regulations and the preparation of comprehensive environmental documentation. r2eko serves clients in Polish, English, French, Russian and Arabic, maintaining industry contacts worldwide. This enables r2eko to remain abreast of the latest trends and regulations in environmental protection, facilitating the direct transfer of global pro-environmental solutions to every company.

Rembud



<https://rembud.pl>; rembud@rembud.pl

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Water supply and drainage, HVAC, building installations and automation, Windows and doors, Facades and insulations, Gates, fences, stairs, railings, Construction chemicals, Wallpaper, wall paneling, moldings, Flooring and flooring accessories, Wall and floor tiles, Wooden structures and structural timber, Sanitary ceramics and fittings, Lighting, Metallurgy and steel structures, Construction tools, general contracting

Rembud is a construction company operating on the market since 1996. The company's headquarters is located in Przasnysz, and its area of operation covers the whole country. We specialize in general contracting of residential, public, industrial, and sports facilities, renovation and construction services, sale of construction materials, tools and equipment. We boast highly qualified staff, modern equipment, and longstanding experience. We offer a wide range of services, including design-and-build projects. We are ISO 9001:2016 and AQAP 2110:2016 certified.

SADDAR



<https://saddar.eu/>; orders@saddar.eu

Areas of activity

**Passive, modular houses, smart houses, Gates, fences, stairs, railings,
Construction chemicals, Wooden structures and structural timber**

We are a family company that has been successfully operating on the Polish and international markets for over 30 years. We have developed and marketed innovative and unique ecological anchors on a global scale. We produce Saddle Eco-Anchors from a proprietary PET composite material, which is chemically modified and glass-fiber reinforced, guaranteeing high impact resistance, stiffness and tensile strength. The Saddle Eco-Anchor system is widely used in construction, installation of photovoltaic farms and garden architecture. Our products are fully sustainable and meet the requirements of a closed-loop economy.

SEBO



<https://frontymeblowe.eu/>; biuro@frontymeblowe.eu

Areas of activity

Wallpaper, wall paneling, moldings, furniture doors

We offer stylish kitchen solutions. Sebo is a manufacturer of furniture doors designed for customers seeking high quality and aesthetics. Our portfolio includes various milled, handleless and other products in different styles and finishes, to suit any interior, both classic and modern. Apart from kitchen doors, we offer wall panels, while our newest Sebo Panel Design is widely used in the construction and fit-out sector. Due to its low weight and flexibility, it can be easily used in a variety of projects, including both flat and oval surfaces, as well as corners.

Seedia



<https://seedia.city/>; artur@seedia.city

Areas of activity

Smart Urban Furniture Solution

Seedia provides smart city solutions like managing services, public transport optimization, urban scooter management, and urban information. Our offerings include solar benches, information kiosks, solar bus shelters, and disinfectant dispensers. Our benches equipped with solar panels and a Wi-Fi offer optional features like smog sensors and LED lighting. We ensure remote cloud management while the infrastructure is energy-autonomous, being powered by photovoltaic panels. Our displays use electronic paper for readability and energy efficiency. Information kiosks feature modern e-paper screens providing owners with access to device statistics.

Seen Technologie



<https://seentechnologie.pl/>; seen@seen.pl

Areas of activity

Water supply and drainage, environmental construction

Seen Technologie is an innovative tech company, running complex environmental protection projects both in Poland and abroad. Since 1990, it has been specializing in water treatment technologies, wastewater treatment and sludge management for municipal and energy companies as well as the industry. So far, the company has provided equipment for approximately 800 customers and has manufactured and commissioned over 160 specialized installations in Poland and in several countries in Europe, Asia and North Africa. Our core values include reliability, creativity, and professionalism.

<https://krzesla.com.pl>; biuro@krzesla.com.pl

Areas of activity

Seating attached to the ground

Sella S.C. is a Polish company from the furniture sector, based near Bydgoszcz. We started our operations in 1997. Currently, the company holds a strong position on the manufacturer's market and is recognizable among Polish furniture producers. Our product range includes cinema, auditorium and conference seats. We continue to build our experience implementing increasingly sophisticated projects, compliant with the ISO 9001 and environmental ISO 14001 quality systems. We supervise every stage of the chair's creation, from design to the end product. We are FSC and ISO 14006 certified.

Sępol Jan Kowal

<https://vivento.pl>; vivento@vivento.pl

Areas of activity

Windows and doors

For 40 years of our operation, we have been committed to sustainable and harmonious development. We follow trends, care for original design and the highest quality of each product. We listen to customers' expectations, tailoring our designs and products to individual preferences. Many years of experience and expert knowledge help us introduce innovative solutions, earn customers' trust and strengthen our market position. By investing in a modern, fully automated factory the spectrum of our capabilities has increased, our product catalog is expanding, and we are opening more doors leading to a promising future.

Sienkiewicz Mat-Bud



<https://sienkiewicz.com.pl>; zapytania@sienkiewicz.com.pl

Areas of activity

Facades and insulations, Gates, fences, stairs, railings, concrete prefabs

Sienkiewicz Mat-Bud specializes in the production of a wide range of prefabricated concrete elements, which find applications in various sectors of construction, such as residential, industrial, and engineering including sewage systems, road construction, and railways. Our offer includes reinforced concrete retention tanks, sewage wells, walls, columns, foundations, precast docks, balcony slabs, stairs, and architectural concrete fences. This Polish-capital company, with years of industry experience, prioritizes continuous development and investments in technological innovations.

Simba Group



<https://simba.pl>; biuro@simba.pl

Areas of activity

Wooden structures and structural timber, Metallurgy and steel structures

Since 2014, we have been manufacturing and designing playgrounds, outdoor gyms, fitness and street workout equipment. Over that time, we have been constantly bringing joy and smiles to children's and adults' faces. We prioritize quality and safety of our equipment and timely completion of commissioned projects. We wish to inspire children to develop and discover new skills through physical activity. We want parents and caregivers to be sure that their children benefit from durable and safe play equipment.

SL&S AG



<https://wood-home.eu>; biuro@wood-home.eu

Areas of activity

Passive, modular houses, smart houses

Wood-Home is a brand owned by SL&S AG Sp. z o. o., which has been present on the Polish market since 2013 and operates dynamically in both the construction and development sector. It specializes in prefabricated timber frame houses. Our plant is DIN (German Institute for Standardization) certified for prefabricated wooden structures, and holds the RAL GZ-421 quality mark for wall, ceiling and roof elements. In accordance with DIN guidelines, the certificate also confirms proper supervision and control of wooden prefab production at all stages.

Smay



<https://smay.pl>; info@smay.eu

Areas of activity

HVAC, building installations and automation

The Smay Group provides comprehensive household and fire ventilation support. We focus on two primary lines of business, namely airflow regulation and distribution for all types of facilities and fire ventilation, i.e., safety equipment for people and property in case of a fire, supporting rescue and firefighting teams and facilitating building evacuation during a fire.

La Soleil Monika Piecuch

F  R M Δ T

<https://foormat.pl>; monika.piecuch@foormat.pl

Areas of activity

Wallpaper, wall paneling, moldings

Foormat is a brand offering paintings, wallpapers, pillows, and curtains. What makes us unique is that we are the only company in the country that personalizes interior furnishing products that we produce. We can paint a picture or create a visual and then transfer it to a wallpaper, canvas prints, pillows and curtains and turn it into an individual pattern.

Sowapro Mateusz Rudnicki

SOWAPRO

<https://sowapro.com>; m.rudnicki@sowapro.com

Areas of activity

Windows and doors

Our company is synonymous with original design and traditional craftsmanship. For years, we have been crafting oak-finished doors that combine modernity and durability. Our flush doors are not just a piece of furniture, but a true work of art, showcasing our commitment to the highest quality. With pride, we continue the legacy of our family business, caring for every detail to provide our customers with a unique aesthetic and functional experience.

Spectra Lighting



<https://spectra-lighting.pl>; info@spectra-lighting.pl

Areas of activity

Lighting

Spectra Lighting has been at the forefront of the lighting industry for over two decades, constantly innovating and pushing boundaries. Our team of experts from around the world brings a wealth of knowledge and passion to each project, creating bespoke lighting solutions that are both unique and revolutionary. We believe in sustainability, and our designs are aimed at creating human-centered solutions that are as good for the planet as they are for your space. As a leader in innovative lighting solutions since 2000, we prioritize customer needs and work collaboratively to bring visions to life. Our focus on sustainability allows us to balance both human and environmental interests.

Stabiframe



STABIFRAME
LIGHT STRONG STEEL CONSTRUCTIONS

<https://stabiframe.pl>; info@stabiframe.pl

Areas of activity

**Passive, modular houses, smart houses, Facades and insulations,
Metallurgy and steel structures**

We specialize in the design, production and assembly of houses made in light steel frame technology. Prefabricated wall panels, floor beams and roof truss are delivered directly to the construction site, where workers assemble the body of the building from ready-made elements. Frame houses are made of galvanized, cold-formed steel profiles, mainly channel bars. Precise manufacturing with a punching machine and machine bending guarantees accurate element adhesion, ease of assembly, and repair of individual units. We also supply prefabricated curtain walls for large residential buildings.

Stalkos Stanisław Kosina



<https://stalkos.com>; biuro@stalkos.com

Areas of activity

Gates, fences, stairs, railings

Stalkos with its Fenel System brand specializes in designing and producing high-quality gates, fences, and balustrades. With a strong focus on both functionality and aesthetics, we strive to provide our customers with products that not only enhance the security and privacy of their properties but also add a touch of style and elegance. Our team of skilled craftsmen uses only the finest materials and cutting-edge techniques to create durable and visually appealing products that are built to last. Whether you are looking for a custom-made wrought iron gate, a modern aluminum fence, or a classic glass balustrade, we have a wide range of options to suit your needs and preferences.

Stalprodukt-Zamość



<https://futryna.com.pl>; sekretariat@futryna.com.pl

Areas of activity

Windows and doors, Facades and insulations, Gates, fences, stairs, railings

Stalprodukt-Zamość was established in 1997 taking over the assets of a bankrupt Metalplast-Zamość construction equipment factory. Initially, the newly established company engaged only in the wholesale of steel products and in the production of door frames. Having high technological potential, engaged employees and innovative solutions, the firm decided to open further manufacturing lines at the Zamość plant – in 2004 we initiated the production of steel doors, in 2010 we started making garage doors and in 2012 aluminum structures were added to the offer. Stalprodukt-Zamość is a part of the Stalprodukt S.A. Capital Group listed on the Warsaw Stock Exchange.

Stal-tech

Jacek Sieciechowicz

<https://stal-tech.pl>; Jacek@stal-tech.pl

Areas of activity

Metallurgy and steel structures

Stal-Tech, with over 20 years of experience on the European market, is the leader of high end steel halls, complying with strictest trade norms, including PN-EN 1090-2 or CE certification. Our steel halls are built upon our solid experience showcased by a host of certificates confirming their quality and adherence to norms, including the manufacturing production control certificate (2827-CPR-PW01-1-0612-0068.20.01) and welding certificate (TTP-PW01-1-0612-0068.20.01), compliant with the EN ISO 3834-3 standard.

Stegro

STEGRO

<https://stegro.pl>; biuro@stegro.pl

Areas of activity

**Bricks, blocks, prefabs, decorative stone, pavers,
Flooring and flooring accessories, Wall and floor tiles**

Stegro sp. z o. o. operates on the Polish and foreign markets, and offers all available granite products made to measure. Our offer includes straight and curved granite bridge road curbs, cut and raw-split granite edges, raw and split granite palisades, granite cubes (gray, Kośmin, colored, raw-split, row, cut, flamed), granite tactile paving for the visually impaired, gray and colored granite paving tiles, granite floor and facade tiles, as well as street furniture. We respond to all inquiries with a comprehensive and competitive offer.

<https://steico.com>; infocee@steico.pl

Areas of activity

Natural wood building material

Steico offers ecological construction products made from renewable raw materials and has been able to position itself in its thirty-five-year history as a system provider for ecological house building and innovation drivers. As the industry's only manufacturer, Steico offers an integrated construction system with innovative wooden structures and sustainable insulation materials complementing one another. Steico wood fiber insulation materials are true all-rounders. They protect against cold, heat, noise, and moisture. They are also permeable and help make living spaces healthy. In addition, they provide double climate protection – as they store CO2 and reduce its emissions by conserving heating energy.

S-T-P Strahltechnik Poland Mariusz Ludian



<https://s-t-p.pl/>; sales@s-t-p.pl

Areas of activity

Flooring and flooring accessories, surface treatment

We specialize in concrete processing using various methods from shot blasting and grinding through planetary milling to cold milling. We offer comprehensive construction services, including installation and construction works for single- and multi-family housing as well as commercial developments. We also perform floor and wall processing jobs in public buildings, construction, industrial and sport facilities.

Strumin Equipment



<https://strumin.pl>; marketing@strumin.pl

Areas of activity

Construction tools, Fall Protection Equipment

Strumin operates in the construction industry. We have created a wide portfolio of products that help to improve work safety on construction sites. In Poland, we cooperate with the leaders of the construction industry. Strumin boasts its own designing office and a factory as well as a group of professional constructors, designers, and welders. Strumin holds the TÜV Rheinland safety and quality certificate and adheres to strict welding norms. We operate in the most demanding area of Personal Protective Equipment, hence we comply with the highest legal EU standards, contained in the EU Regulation No 2016, 425.

STUDIO PUFF-BUFF DESIGN



<https://puff-buff.com>; info@puff-buff.com

Areas of activity

Lighting

We offer original lamps for private and public spaces, combining beauty with unique, bold forms. Innovative pneumatic technology used in our awarded products meticulously handcrafted in Warsaw, Poland is what makes them extremely lightweight and spectacular. For 20 years, we have been delivering our lamps to various corners of the world, co-creating unique interiors. We also design and manufacture special chandeliers on request, including large-size lighting structures for hotels, shopping malls and residences.

Suprema Eco Solutions



<https://supremaeco.com>; office@supremaeco.com

Areas of activity

Passive, modular houses, smart houses, Bricks, blocks, prefabs, decorative stone, pavers, Roofs and canopies, Flooring and flooring accessories, Wooden structures and structural timber

Suprema Eco Solutions offers innovative solutions for modular and construction frame buildings. Our portfolio comprises cement particle boards, fiber cement boards, fiberglass mat gypsum boards, XPS, floor heating accessories.

Supron 3



<https://supron.pl>; supron@supron.pl

Areas of activity

Fire protection

Supron 3 was founded in 1992. From the beginning, we have been focusing on providing the highest quality of products and customer service. We are a leading manufacturer of internal hydrants, fire hoses, metal protective cabinets, masking frames, and inspection doors. Constant work on the development allowed us to obtain many IP rights in the Patent Office of the Republic of Poland and the European Union. We are ISO 9001 and 14001 certified. For us doing business it is not only about increasing the value of the company itself, but also about ethical conduct, protecting the environment and supporting the local community. Hence the company's slogan "We create for your safety"!

<https://synco.pl>; k.jankowski@synco.pl

Areas of activity

**Water supply and drainage, HVAC, building installations and automation,
Sanitary ceramics and fittings**

Syncopex pre-insulated pipelines are PEX cross-linked polyethylene pipes with insulation and outer jacket, intended for central heating, hot and cold water. Syncopex is a comprehensive solution with high strength, flexibility and durability. Innovative design guarantees excellent thermal insulation conditions for pipelines and heat loss reduction by up to 50%.

Szar S.A.



<https://szar.pl>; szar@szar.pl

Areas of activity

Gates, fences, stairs, railings, Metallurgy and steel structures

For many years we have been manufacturing lightweight steel structures such as specialized racks, pallets and other structures for the storage and transport of various semi-finished and finished products. We also manufacture all types of light steel structures for the construction industry, such as railings, handrails and sheds. We produce short and long production runs according to customer requirements. Since 2017, we have also been ISO certified.

<https://szynaka.pl>; info@szynaka.pl

Areas of activity

Wooden constructions and building timber, Furniture RTA and FA

Szynaka Meble is a renowned Polish family-owned company with over 65 years of experience. We have 8 factories and a modern logistics center, enabling us to effectively manage the production and distribution of our high-quality furniture. Our products are characterized by innovative design, functionality, and durability. We strive for continuous development through investments in modern technologies and through the growth of our employees. We offer a wide range of furniture for living rooms, dining rooms, bedrooms, and offices, meeting diverse needs and preferences of our customers. Szynaka Meble is a brand you can rely on if you are looking for unique solutions to furnish your interior.

Technokabel



<https://technokabel.com.pl>; sprzedaz@technokabel.com.pl

Areas of activity

HVAC, building installations and automation

The company specializes in fire-resistant Technoflame NHXH FE180 PH90, E90 0.6, 1 kV power cables with insulation and sheath made of halogen-free materials, intended for use in installations where the safety of people and devices is paramount, with emphasis on fire protection installations. N2XH B2ca 0.6, 1 kV is designed to power devices and work in the energy, security, and control industries. Technoflame HTKSH and HTKSHekw are intended for connections between switching and transmission devices, for data transmission in industrial electronics and control applications, in facilities with high fire protection requirements, especially in fire alarm systems and fire automation.

Tergon



<https://tergon.pl>; office@tergon.pl

Areas of activity

Geotechnical services

We offer specialized solutions in the field of geotechnics. A wide range of technologies used, and a rich machine park allow us to meet even the highest requirements. We always apply an individual approach to investments, we employ an unconventional approach to all projects to always propose an optimal solution. We have been dealing with construction jobs for years, hence we can boast of extensive experience. This translates into high quality and timeliness of services provided. Our portfolio includes foundation and ground reinforcement, slope protection, excavation supports, walls and soil injections, tunneling works.

TERMA



<https://termagroup.pl/>; tomasz.ciborowski@termagroup.pl

Areas of activity

Sanitary ceramics and fittings, Heating products

We are a Polish manufacturer of bathroom and decorative radiators, heaters, construction machines, and rehabilitation equipment. Since 1990, we have been serving people not only in Poland, but also in over 40 countries around the world, on 4 continents. Striving to offer the highest quality products is an expression of our respect for our consumers, whose well-being is our top priority. Meeting expectations is not enough for us - we want to exceed them. We know that development is achieved only in cooperation with those who are better than ourselves, therefore cooperation with competent and creative specialists allows us to find innovative and functional solutions.

Terma



<https://kmt.com.pl>; terma@terma.pl

Areas of activity

Windows and doors

Terma, the owner of the KMT Stal brand, is known for producing high-quality PVC and aluminum joinery. Our products are characterized by innovative design, solid craftsmanship, and excellent thermal insulation. With advanced technology and years of experience, Terma delivers solutions that meet the highest aesthetic and functional expectations. Proudly partnering with Veka, Aluplast, Decco, and Aluprof, as well as Winkhaus and GU, we ensure premium solutions for our clients.

THALE



<https://niczuk.eu>; export@niczuk.pl

Areas of activity

HVAC, building installations and automation

THALE sp. z o.o. sp.k., owner of the Niczuk brand, is a Polish manufacturer of fastening systems and HVAC fastening systems for the construction industry, support structures for the heavy industry, structures for photovoltaic farms, and equipment for the grain and milling sector. We have the largest design office in Poland, cooperating with both domestic and foreign clients. Our branches are located in Bydgoszcz, Olsztyn, and Kraków, as well as in Hungary and Romania. THALE also has companies in Hungary, Slovakia, Romania, Greece, and the Baltic states of Lithuania, Latvia, and Estonia. The company's plans to develop dynamically in its export markets.

TIGA-CYNK



<https://tiga-cynk.pl>; biuro@tiga-cynk.pl

Areas of activity

Metallurgy and steel structures

TIGA-CYNK LLC. specializes in the production of deep galvanized wires and strips as well as provide services of deep hot galvanized coating of steel meant for clients. Recently, our company has launched a completely new department extending our portfolio dedicated to offer new product that is called Carport. Our plant is located in Malomice close to the German border. We deliver our products not only to Polish customers but also abroad, exporting them to several foreign countries. Our products find application mostly in branches like construction and energy market. Our aim is to provide to our customers with top quality goods and to broaden our cooperation.

TLC



<https://tlc.eu/>; info@tlc.eu

Areas of activity

Gates, fences, stairs, railings, Metallurgy and steel structures

We are a Polish-Swedish manufacturer of steel structures, specializing in stairs as well as technical and evacuation platforms for industry and construction. TLC is a sustainable development-oriented company with over a decade of experience and thousands of projects completed across Europe, both Americas, Africa, Asia, and Australia.

Treeven



<https://treeven.eu>; info@treeven.eu

Areas of activity

Flooring and flooring accessories

Treeven specializes in crafting high-quality wooden flooring from European oak, proudly made in Poland. Our range includes standard planks up to 300 mm wide, chevron and herringbone patterns, and the luxurious Palace Parquet Collection. With customization at our core, we tailor products to your exact needs, offering both cost-effective options and hand-finished elegance. Suitable for various projects, our floors are ideal for hotels, apartments, villas, and more. We prioritize eco-friendly solutions, using only natural materials and natural oil finishes. Welcome to the world of exceptional wooden floors. Welcome to Treeven!

TUBĄDZIN MANAGEMENT GROUP

TUBĄDZIN

<https://www.tubadzin.pl/en>; tubadzin@tubadzin.pl

Areas of activity

Facades and insulations, Wall and floor tiles

The Tubądzin Group is one of the most widely recognized ceramic tile manufacturers in Poland. It has been defining design trends and introducing innovative products and solutions for 40 years. In Poland, it is a ground breaker in the production of large-format tiles, up to 120 x 275 cm in size. Its products manufactured from the highest quality raw materials can be used in any space, not just in bathrooms. The Tubądzin Group is recognized for its top-quality tiles, which are deceptively similar to wood, marble or concrete and manufactured with the use of state-of-the-art global technologies.

Tüfe



<http://tufe.pl>; biuro@tufe.pl

Areas of activity

Windows and doors

We have been a PVC window manufacturer since 1996. Over that period, we have earned customers' trust, producing and installing tens of thousands of windows and doors all over Europe, from Sweden to Spain, from Lithuania to Netherland. Our products meet all standards and are of the superior quality.

Ulma Construction Polska



<https://ulmaconstruction.pl>; kontakt@ulmaconstruction.pl

Areas of activity

Formwork and scaffolding

Ulma is one of the biggest manufacturers and suppliers of formwork and scaffolding systems for all construction sectors. Since 1961, we have been doing business globally. In addition to technologically advanced solutions, we offer professional design and logistics services, as well as comprehensive advice on the assembly and operation of our systems on a construction site. We have 10 offices and 4 logistic centers in Poland. We are happy to offer technical and logistic support in the shortest possible lead time. Our innovate products and services are used in the most prestigious projects in the country.

Ultrapur



<https://ultrapur.pl>; biuro@ultrapur.pl

Areas of activity

Construction chemicals

Ultrapur foam is manufactured in a modern plant in Gniezno under the supervision of experienced technologists. We have over 10 years of experience in foam production. We cooperate with over 100 authorized contractors in Poland and Europe. Over 100,000 houses have already been insulated with Ultrapur foam, and over 40% of our sales is exported to countries such as Sweden, Germany, Ireland, Czech Republic, Hungary, Romania, Slovakia, Lithuania.

vBass Tomasz Gruda



<https://vbass.pl>; vbass@vbass.pl

Areas of activity

HVAC, building installations and automation

vBass is a company specializing in intelligent installations, network integration and implementation of tailor-made systems. We offer comprehensive services in the field of building automation. We install systems in private homes and commercial buildings. We are trusted by private clients, commercial investors, architectural studios, installation companies and controller manufacturers. We are constantly expanding our offer and trying to improve our competences, so that the solutions we propose are future-proof and characterized by great possibilities and innovation. Our skills and experience are proven by an extensive list of projects and references.

VELT Jeremi Nagrabecki



<https://velt.pl>; info@velt.pl

Areas of activity

Lighting

Velt, a renowned Polish lighting company, specializes in hand-formed glass lamps and bespoke chandeliers for high-ceiling interiors. Collaborating closely with local glassworks, Velt creates custom-made lighting solutions. Velt lamps are esteemed for their quality, crafted with locally sourced materials and expert craftsmanship. With options tailored for residential, commercial, and hospitality settings, Velt offers lighting solutions to suit diverse preferences and needs. Velt has successfully completed projects in prestigious locations such as New York, Dubai, Paris underscoring its international presence and expertise in lighting design.

Vemar



<https://vemar.pl>; export@vemar.pl

Areas of activity

Blinds, Curtains, Mosquito nets

We are a Polish company with over 20 years of experience in the production of window coverings. Our offer includes products for interiors and external shielding systems. This former group includes internal blinds, Roman roller blinds, traditional blinds, pleats, curtains, and curtain rods, while the latter comprises facade blinds, protective external roller blinds, pergolas, mosquito nets, awnings, and many other covering systems. Our advanced production line allows us to approach for each order individually. All products purchased from us are covered by a warranty.

Visual



<https://visualdesign.com.pl>; sales@grupavisual.pl

Areas of activity

Metallurgy and steel structures, Facilities visual branding

We are a company with many years of experience in manufacturing steel structures and visual advertising. Our mission is to provide our clients with full comfort and satisfaction in implementing even the most complex investment projects. A comprehensive approach to undertaken projects and passion for creation has been guiding us since the company was founded. Our ambition is for our products to be distinguished by uniqueness and high quality. We make every effort to ensure that our designs create trends in the visual identification industry.

Vito Polska



<https://vitopolska.com.pl>; i.michalak@vitopolska.com

Areas of activity

Windows and doors, Gates, fences, stairs, railings

Vito Polska specializes in trading joinery products, in particular windows, doors, garage doors and verandas. The company is also a manufacturer of aluminum systems. Our well-trained staff helps our customers personalize their window joinery. Our top priority is to deliver high-class products to the market and to optimally meet our customers' needs. Great variety of windows and doors produced by Vito Polska makes them a perfect solution for both private and public spaces.

<https://vitrintec.pl/en>; biuro@vitrintec.pl

Areas of activity

Windows and doors, Aluminum and glass systems

Vitrintec provides solutions for aluminum and glass systems. From design to production and distribution, we place great emphasis on the quality of products we offer. Vitrintec systems are first and foremost about an innovative approach to the design of glass architecture. We have an extensive machine park, including two production lines for aluminum prefabrication and complex glass processing. Our manufacturing facilities are powered by green energy from photovoltaic cells, and we also have modern, energy-efficient numerically controlled machines.

<https://vobri.com/en/home>; vobri@wp.pl

Areas of activity

Windows and doors

We have the largest warehouse of finished products in Poland. We specialize in rapid production of repeatable models offered at competitive prices.

White Dragon Iga Łastowska

BLACHARA.COM.PL

<https://blachara.com.pl>; sklep@blachara.com.pl

Areas of activity

Roofs and canopies

Our store is specializing in sheet metal roofing accessories. Our fittings are made of high-quality steel and aluminum, ensuring durability and an aesthetic appearance for every roof. Browse through our range of accessories, including angle bars, eaves straps, wind deflectors, and chimney caps, all made from Polish Pruszyński sheet metal. We prioritize domestic production and use high-Prod Masz precision machines. With our extensive range and high-quality products and services, we are confident that you will find the perfect solutions for your roof with us.

Wido-Profil



<https://wido.pl>; sprzedaz@wido.pl

Areas of activity

Roofs and canopies, Facades and insulations, Gates, fences, stairs, railings, Metallurgy and steel structures

Wido-Profil offers construction and installation services and products, such as aluminum substructures, railings and joinery, roofing solutions and partition walls suitable for any type of buildings. With our skilled team and modern equipment, we are ready to complete even most unusual custom projects. Our clever, complete ventilated facade systems are recognized by architects and investors and known for their superb qualities. They are aesthetic, lightweight, corrosion-resistant, durable and safe. We have built our portfolio upon expertise, experience, improvements and innovation.

Win2Trade



<https://win2trade.com> ; contact@win2trade.com

Areas of activity

Windows and doors

We manufacture wooden, wooden-aluminum, aluminum and PVC windows and doors in Poland. We export 95% of our production to France, Germany, Belgium, Italy, the Netherlands, Sweden, the UK and Norway. We fit our PVC joinery with Trocal, Koemmerling, Aluplast, and Veka profiles. Our glass units come from Saint Gobin and Pilkington, and fittings from Winkhaus, Maco, and GU. All our products hold relevant certificates. All our windows are made to measure, and we accept all orders, no matter how small. We also offer outward opening windows, as well as sliding windows and doors.

Winkelmann Foundation Screw



<https://www.winkelmann-construction.com/en>;
info@winkelmann-construction.com

Areas of activity

Passive, modular houses, smart houses, Roofs and canopies, Metallurgy and steel structures, Construction tools, pile screw foundation

Winkelmann Foundation Screw is a part of the Winkelmann group present in Poland for 100 years. It is a faster, more ecological and efficient foundation solution for multiple applications. Our know-how in metal processing has been refined for generations, it is a part of our DNA which you can build upon! Our screw pile foundations are shaping the technology and state-of-the-art building solutions. Since our product is not well known around the world yet, we would like to share our idea with other companies which we could collaborate with and sell and install our screws for. We believe that our screws can be a world changing solution!

Winplus



<https://winplus.pl>; aluminium@winplus.pl

Areas of activity

Windows and doors, Facades and insulations, winter gardens

We have been producing aluminum windows and doors featuring the Aliplast and Aluprof systems since 2015. We have been on the market as Winplus for 5 years, previously operating under the KM Okno brand, which continues to develop as a manufacturer of PVC joinery, while we produce aluminum structures as a separate department. Our offer includes windows, doors, fire protection structures, facades, sliding and lift-and-slide systems of the HS type. We also make non-rectangular structures in unusual shapes and winter gardens and are open to cooperation.

Wiper



<https://wiper.pl>; poczta@wiper.pl

Areas of activity

Sanitary ceramics and fittings

Wiper is a manufacturer of shower drains and industrial drains used in bathrooms in homes and hotels, swimming pools and in the spa&wellness industry. Wiper drains allow for a comfortable and customized arrangement of the shower area. Wiper supplies thousands of customers in Europe and beyond, appreciating unique design, elegance and comfort, practicality and safety. Wiper pays great attention to product quality and functionality, which is possible due to modern computer-aided production processes. Our products are designed with CAD and detailed 3D spatial modelling. Our drains are manufactured from highest quality certified stainless steel (AISI 304 and AISI 316).

Witraz



<https://witraz.eu>; info@witraz.eu

Areas of activity

Windows and doors

Witraz is a family-owned company present on the market since 1999. We are one of a few companies in Poland producing three types of materials, namely PVC, wood, and aluminum. We employ the latest technological solutions, have the most automated production line, allowing us to make 250,000 PVC windows per year. Nevertheless, we do not mass produce windows. We approach each order individually, we pay attention to every detail, at every stage of production from comprehensive advisory services through specialized production on the most advanced production line through meticulous control to safe preparation for transport.

Wood Core House



<https://woodcorehouse.pl/en>;

<https://woodcorehouse.pl/de>; export@woodcorehouse.pl

Areas of activity

Passive, modular houses, smart houses, Wooden structures and structural timber

We are a manufacturer of modular timber structures based on our proprietary prefabrication technology, which we are developing with funding provided by the National Center for Research and Development. The modular skeletal construction system we have developed is safe and universal - created for modern, sustainable timber construction. It allows for designing and building any type of structure from single-family, terraced or semi-detached houses to multi-family and public buildings. Our structures are ready to assemble and easy to transport which significantly reduces construction time and costs. We believe that they are the future of modern and nature-friendly construction solutions.

ZBUD



<https://zbud.com.pl>; zbud@zbud.com.pl

Areas of activity

Transport, material handling

ZBUD is a leading Polish manufacturer of lifting equipment, present on the market since 1990. The company specializes mainly in bridge cranes, but its portfolio includes a wide variety of lifting and handling equipment such as ratchet hoists, chain hoists, electric-driven wire-rope hoists, winches, pillar cranes, gantry cranes and a broad range of overhead cranes. The company has developed a new line of machines dedicated to the construction industry, including tower cranes, rough terrain cranes, truck cranes, telescopic articulated boom lifts, and scissor lifts. ZBUD is a 100% family-owned company.

Infographics Poland in figures (2023)

Source: Statistics Poland, World Bank, Eurostat

//Data from the infographics are presented in the tables.//

Population		37.6 million
Foreign trade turnover	Import EUR	340.5 bn USD (7.0% decrease, yoy)
	Export EUR	351.0 bn USD (1.4% increase, yoy)
Unemployment rate		2.8% (as of November 2023) The 3rd lowest in the EU
GDP	Total – USD	808.6 bn
	per capita USD	20 681

World Economy Rank by 21st (2022)	
The 6th largest economy in the EU	
2021	5.9%
2022	5.1%
2023	0.2%
2024 (predicted)	2.8%
2025 (predicted)	3.4%

Infographic FIG 1. Schematic comparison of the modular and traditional investment process

//Data from the infographic are presented in the text.//

Schematic comparison of the modular and traditional investment process are presented on a time axis.

Modular construction begins with Design, goes through Investment preparation and ends with Site preparation and Construction and finishing works at one time. Traditional construction begins with Design, goes through Investment preparation, Site preparation and ends with Construction and finishing works.

Infographic FIG 2. Decision-making costs comparison schema

Source: How Facility Management can use BIM to improve the decision making process, Giulia Carbonari, S. Ashworth, S. Stravoravdis, October 2015, Engineering, Environmental Science

//Data from the infographics are presented in the tables and the text.//
Traditional process is presented on a time axis on following boxes:

Investment preparation
Preliminary design
Architecture and building design
Detailed design
Bidding activities
Construction Execution

Integrated process (Design and Build) is presented on a time axis on following boxes:

Concept
Criteria analysis
Detailed project
Construction design
Coordination of documentation and tendering
Construction Execution

There is a chart above boxes which includes four lines presenting “Labor Intensity. Quality. Costs” in terms of passing time.

1. The first gray line presents “Possibility of implementing changes with optimization of cost impact and functional solutions” and shows that “Labor Intensity. Quality. Costs” factor is the most intense and extremely high at the beginning on an “Investment preparation” stage in a traditional process and “Concept” in an integrated process. With the passage of time, the line decreases in an inversely geometric manner.
2. The second gray line presents “Cost of implementing design changes (Increase the cost of project implementation)” and more or less is a mirror image of the first line extremely cumulating “Labor Intensity. Quality. Costs” factor at the end of the time axis on a “Construction Execution” stage.
3. The third black line presents “Traditional design process” and has its cumulation in the center of the axis “Labor Intensity. Quality. Costs” on a “Detailed design” stage in traditional process and “Coordination of documentation and tendering” stage in an integrated process.
4. The fourth red line presents “Intregrated design process” and has its cumulation in the center of the axis “Labor Intensity. Quality. Costs” on an “Architecture and building design” stage in traditional process and “Detailed project” stage in an integrated process.

Infographic FIG 3. Benefits of BIM according to Polish designers

//Data from the charts are presented in the tables.//

Source: European Architectural Barometer Q2 2021, Building Information Modeling – BIM, July 2021

Failure costs are less in projects designed in BIM than in projects that are not	
Strongly agree	19%
Agree	34%
Neutral	20%
Disagree	6%
Strongly disagree	4%
Don't know	17%

The Execution of the project meets initial planning better when designed in BIM	
Strongly agree	24%
Agree	23%
Neutral	25%
Disagree	7%
Strongly disagree	5%
Don't know	16%

Infographic FIG 4. Geographical location favors the development of modular construction exports

//Data from the infographics are presented in text.//

Infographic presents a map of Poland with the A1 motorway running through the centre of the country in the north-south axis and the A2 motorway running through the centre of the country in the east-west axis.

At the Northern end of the A1: Access by sea to Northern European and global markets.

At the Southern end of the A1: Access to Central and Southern European markets.

At the Western end of the A2: Access to Western European market.

At the Eastern end of the A2: Eastern markets as a resource base and potential sales market.

Infographic FIG 5. Passive buildings goals

Source: <https://akademiazdrowegobudownictwa.pl/blog/budownictwo-pasywne/jak-jest-naprawde-z-budownictwem-pasywnym/>

//Data from the infographic are presented in the table.//

Highest quality and durability of buildings for years to come
Constant temperature distribution, highest possible temperature comfort
Superior air quality attention to health and comfort
Construction in accordance with the physics laws free from thermal bridge
Reduction of CO2 emissions, highest environmental protection
Utilization of renewable energy, freedom in the choice of solutions
Sustainable, low demand for heating and cooling Energy
Low maintenance costs, increase of the investment value

Graph FIG 6. A schematic comparison of lossless information aggregation (red area) and lossy data aggregation (gray area)

Source: BIM for Facility Managers, Paul Teicholz, 2013

//Data from the graph are presented in the text.//

On the vertical axis is "the value of the object's documentation (shape of the curve informs about the effort put into creating information)".

The horizontal axis has been divided into two stages:

1. "DESIGN and MANUFACTURING" consisting of the segments: CONCEPTUAL PHASE, DESIGN PHASE and EXECUTION PHASE.
2. "EXPLOITATION" consisting of the following segments: COMMISSIONING, OPERATION, CHANGES, OPERATION.

In the CONCEPTUAL PHASE segment, there is a tag "The investment process based on BIM" and "Traditional investment process".

Between the DESIGN PHASE and EXECUTION PHASE segments is a "Loss of information (transmission process)" tag.

In the COMMISSIONING segment, there is a tag "Building a traditional FM base".

In the OPERATION segment, both in its initial stage and in the next two points, there is a tag "System changes and integrations".

In the CHANGES segment, there is a "Use of as-built documentation" tag.

Between the CHANGES and OPERATION segments there is a tag "Updating the database to FM".

The red area (lossless information aggregation) grows in the first part in a broken way, reaching about 3/4 of the height of the vertical axis. When it reaches the second part, it lowers slightly and from the OPERATION segment it is a flat area with a jagged bottom edge.

The gray area (lossy data aggregation) takes up about the bottom half of the "EXPLOITATION" part.

Infographic FIG 7. Dependence of organizational requirements according to ISO 19650

//Data from the infographic are presented in the text.//

Interested parties information requirements: **Organizational** Information Requirements (OIR) contributes to **Project** Information Requirements (PIR).

Appointment information requirements: **Asset** Information Requirements (AIR) contributes to **Exchange** Information Requirements (EIR).

Information deliverables: **Project** Information Model (PIM) contributes to **Asset** Information Model (AIM).

Organizational Information Requirements (OIR) encapsulates **Asset** Information Requirements (AIR) specifies **Asset** Information Model (AIM).

Project Information Requirements (PIR) contributes to **Exchange** Information Requirements (EIR) specifies **Project** Information Model (PIM).

Infographic FIG 8. Proposed structure of domains and impacts criteria

Source: Final report on the technical support to the development of a Smart Readiness Indicator for Buildings, June 2020

//Data from the infographic are presented in the text.//

ONE SINGLE SCORE CLASSIFIES THE BUILDING'S SMART READINESS. SRI indicator points 75% of its range.

Energy savings and operation consist of Energy savings and Maintenance & fault prediction.

Respond to user needs consists of Comfort, Convenience and Information to occupants.

Respond to needs of the grid consists of Energy flexibility & storage.

The are following indicators in each segments mentioned above:

- Heating
- Domestic hot water
- Cooling
- Ventilation
- Lightning
- Electricity
- Electric vehicles
- Dynamic Envelope
- Monitoring & Control

Infographic FIG 9. Illustrative diagram of an Advanced Smart Building Ecosystem
(Author's own elaboration)

//Data from the infographic are presented in the text.//

Data consist of:

- Telecommunications Networks
- Personalization Systems
- Internal & External lightning
- Audio-Visual Equipment & other everyday use devices
- Individual room heating control
- Ventilation, Air Conditioning and Filtration Control
- Presence Simulation & Weather System
- Management System for Renewable Energy production and storage from Own Micro-Sources
- Alarm & Monitoring system
- UPS Power Supply System
- Fire Alarm System & Access Control System

In the middle of the infographic there is a circle surrounded by the "Data" semi-circle in which:

- Data Analysis Models
- Space or set of spaces fulfilled with data from the design and execution phases

The circle is connected with:

- Local IoT Networks
- Information gathered manually

which can be also adjusted by control or improvement

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