



PREFA KADUL

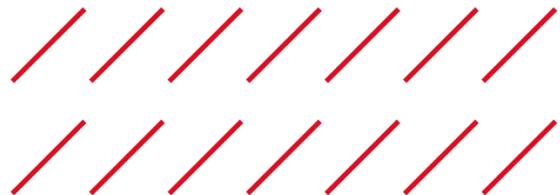
We build on healthy foundation

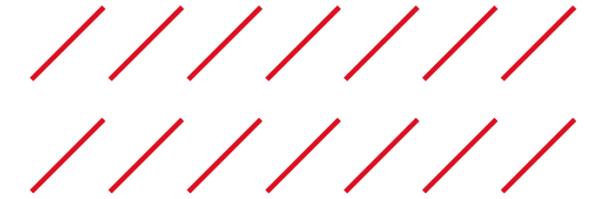
About us

We are a stable and experienced company focused on the production of concrete prefabricates. For over 15 years, we have been supplying high-quality and certified concrete elements for construction projects not only in the Czech Republic but also in Poland, Sweden, and the Netherlands. Our products are part of dozens of successfully completed projects across Europe.

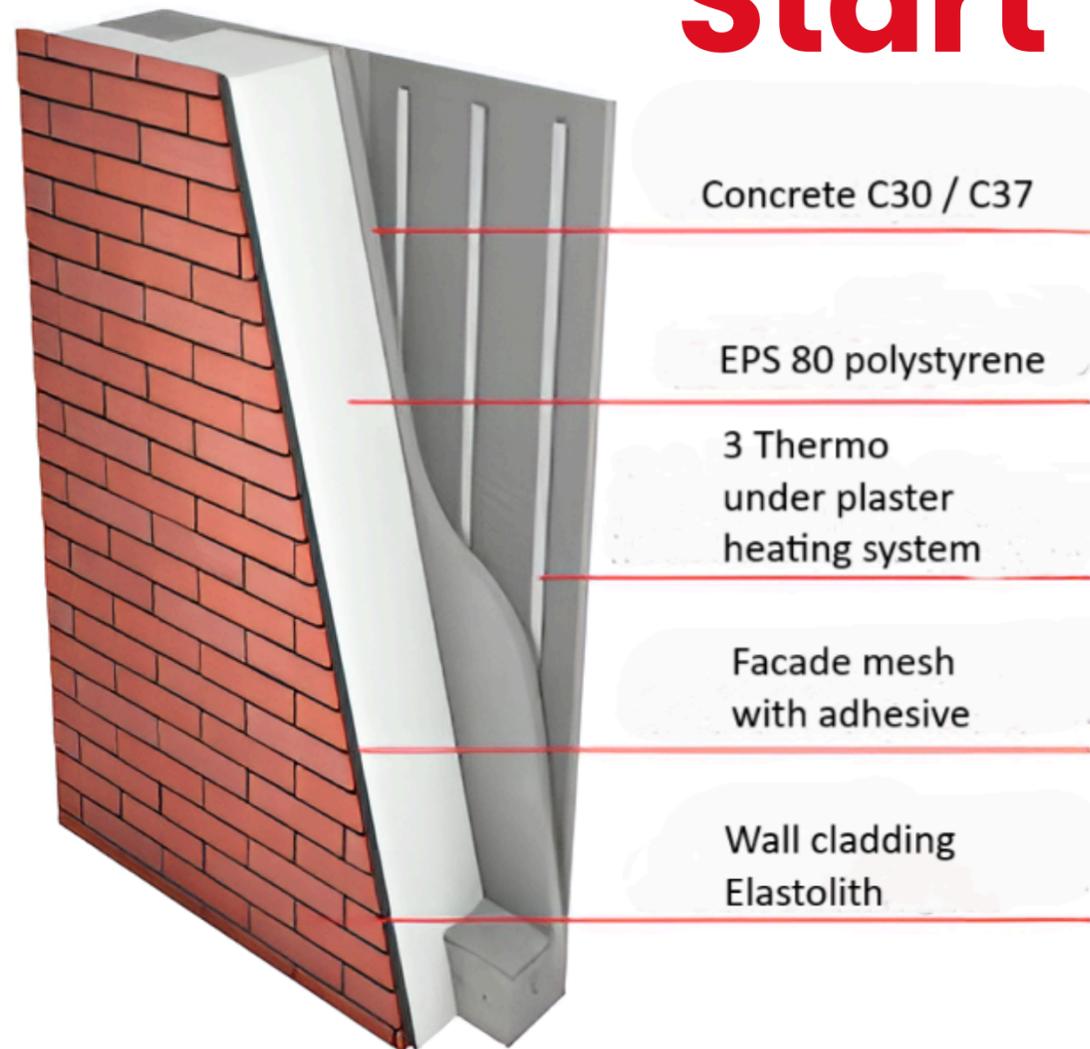
Our name is backed by years of experience, modern manufacturing technologies, and strict adherence to technical and safety standards. We approach each project individually, emphasizing quality, precision, and reliability. Our priority is always long-term cooperation and the trust of our customers, who regularly return to us.

We offer a wide range of concrete prefabricates – from standard structural elements to custom solutions tailored to the client's specifications. Whether you are building a family house, an industrial building, or an infrastructure project, we are ready to be your reliable partner – both at home and abroad.





Start



- Kadul is a modern way of construction that allows people to save time, money, and achieve better quality.
- Our model is based on passive houses, adhering to higher standards.
- The modular building system is popular in most countries, and we are among those who apply it as a standard.
- We use a ribbed reinforced concrete system, which enables us to achieve more insulation while using less monolithic material, all while maintaining the same or even better technical properties.
- For example, Wall SK/36 – rib = 16cm x 16cm, wall = 6cm, insulation = the rest.
- Building Implementation
- Construction work related to investment
- Assembly of prefabricates
- Concrete and carpentry work
- Electrical installations, water and sewage (supervision by the investor)
- Authorized implementations in the field of renewable energy systems (heat recovery, heat pumps, photovoltaic installations)

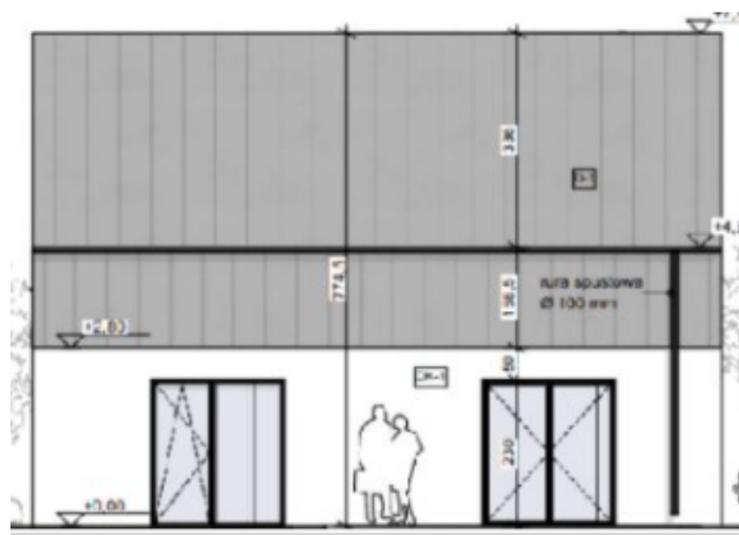
Walls type SK

Profit with the SKxx system:

- Lower transport costs (120m²/TIR)
- Lower assembly costs (walls are at least 35% lighter than other prefabricates)
- Gained usable area with thinner walls (approx. 4-6% for each surface of the planned investment)
- Cost optimization during implementation
- Short construction time
- Better wall properties (see comparison on slide 3)
- Low heat loss with the SKxx system

Comparison

	Kadul	Traditional buildings
Heat loss U (W/m ² K)	0,126 - 0,137	0,168
Weight of external walls kg/m ²	195 - 210	267
Linear compressive strength MPa*m	6,5 - 7,5 (beton 32 - 37 MPa)	2,5 - 4,5 (beton 4 - 6 MPa)



We offer

Scandinavian/Swedish foundation slab

The Scandinavian-type foundation slab is a modern construction method that is popular in Nordic countries, especially due to its advantages in insulation and stability. This type of slab is used for the construction of family homes and smaller buildings.

Author's project S50 or S100

Based on frequent requests from our clients and partners, we have developed an original building system that reduces the construction time to a minimum.

The foundation slab, external walls, and roof are modular, allowing great flexibility in arrangement according to the recipients' needs. Thanks to our modular, repeatable structure, buildings can be reconfigured later. Modular elements will be produced in bulk, which will shorten the construction time of the building to a minimum.

Technology

We are able to supply heat pumps, ventilation systems, air conditioning, and photovoltaic systems.



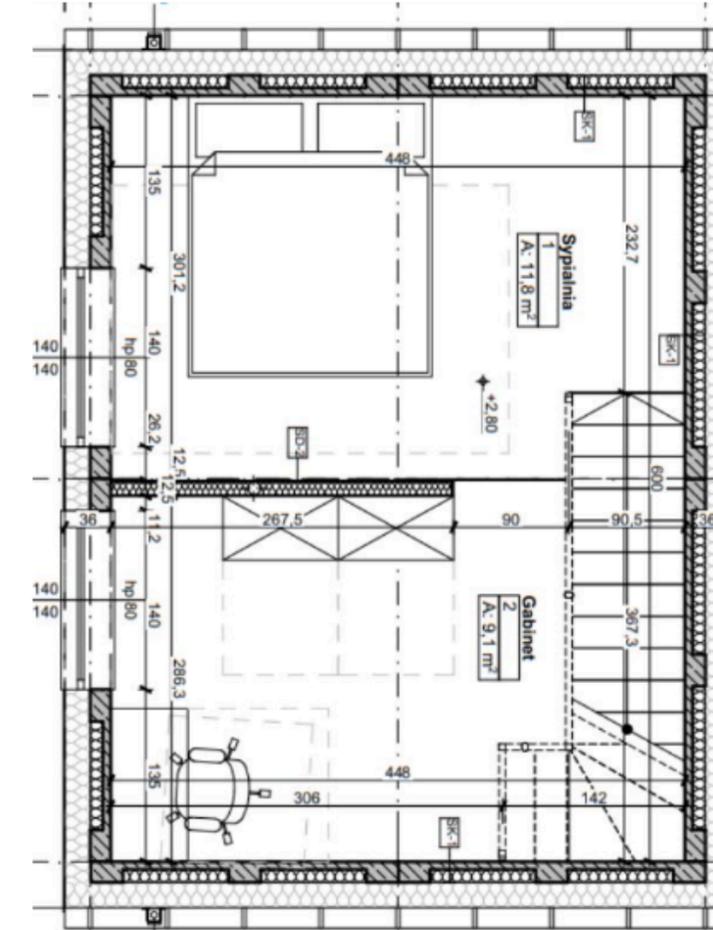
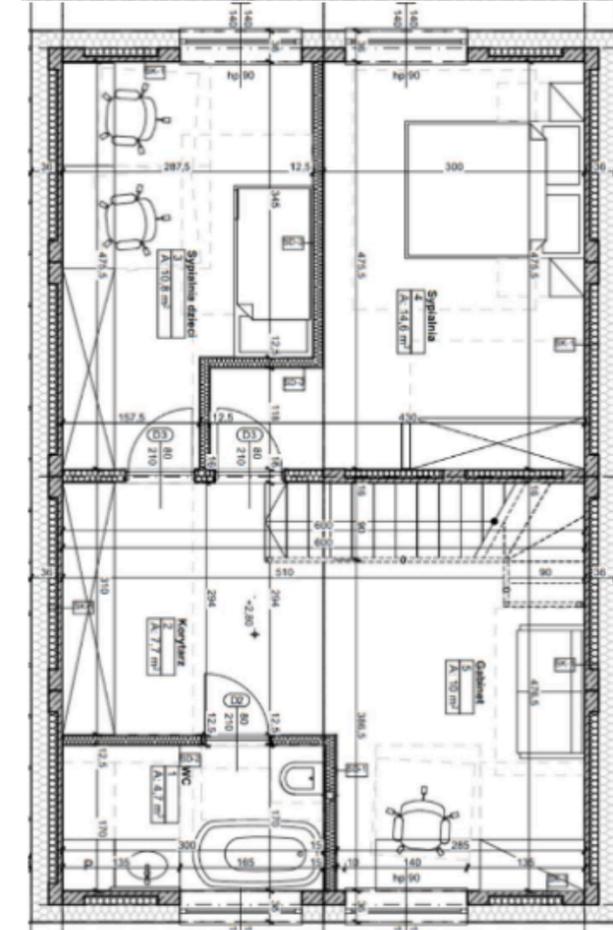
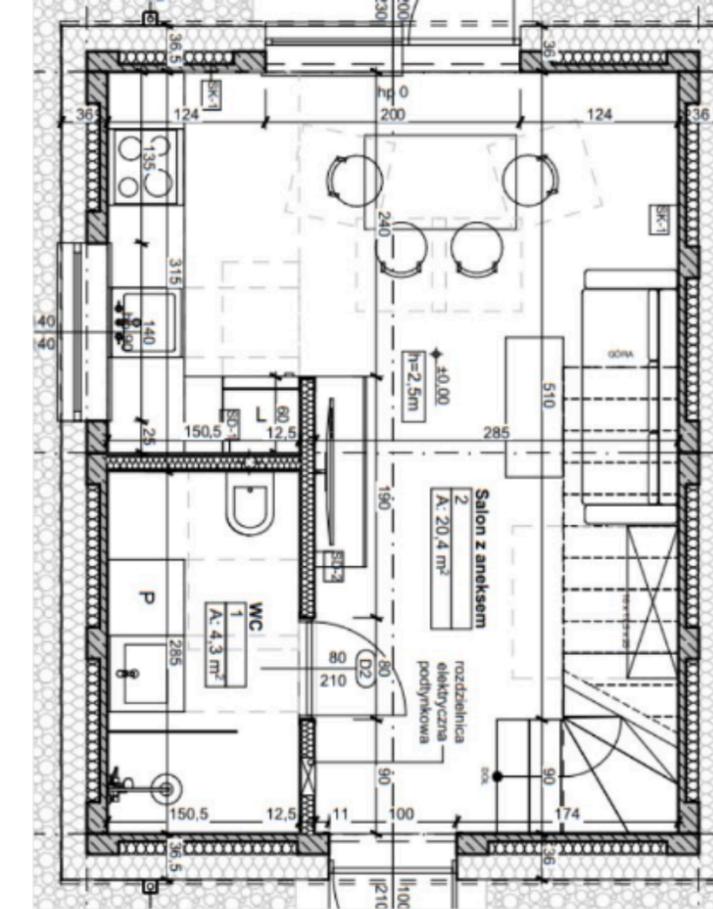
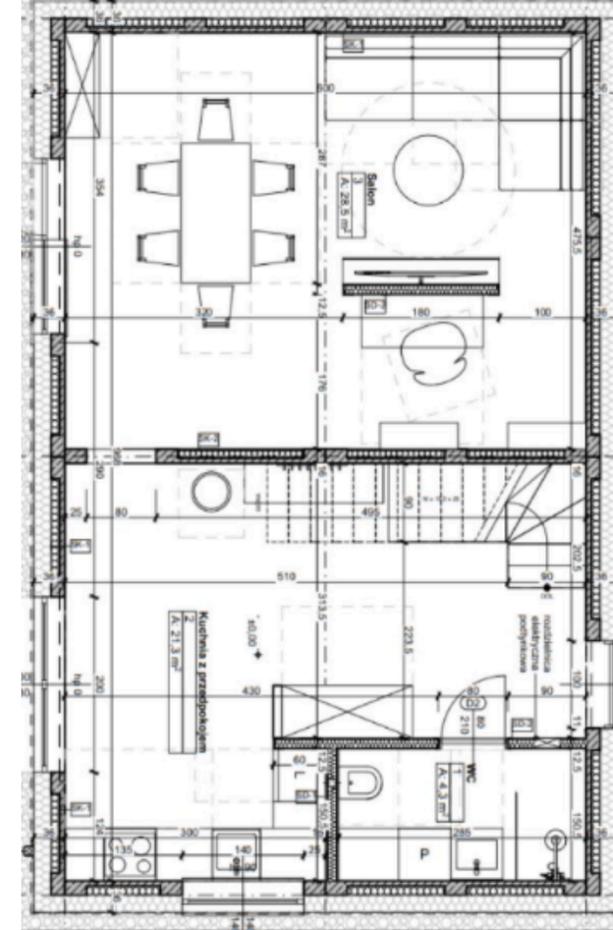
S50 / S105

Technical specifications S50:

- Built-up area: 35 m² | Usable area: 50 m²
- Foundation slab: insulated, $U = 0.14 \text{ W/m}^2\text{K}$, heating cables
- External walls: $U = 0.15 \text{ W/m}^2\text{K}$
- Roof: sandwich panel + Zetki, PIR insulation 160 mm, $U = 0.15 \text{ W/m}^2\text{K}$
- Ceiling: Steico system + OSB
- Staircase: wooden, standard design
- Media distribution: supplied and ready for connection
- Construction time:
- Prefabrication (slab + walls): 2–5 days
- Roof + gutters: 1–2 days
- Ceiling + stairs: 2–5 days

Technical specifications S105:

- Built-up area: 69.99 m² | Usable area: 105 m²
- Foundation slab: insulated, $U = 0.14 \text{ W/m}^2\text{K}$, heating cables
- External walls: $U = 0.15 \text{ W/m}^2\text{K}$
- Roof: sandwich panel + Zetki, PIR insulation 160 mm, $U = 0.15 \text{ W/m}^2\text{K}$
- Ceiling: Steico system + OSB
- Staircase: wooden
- Media: supplied and ready for distribution
- Construction time:
- Prefabrication: 2–5 days
- Roof: 1–2 days
- Ceiling + stairs: 2–5 days
- Element production: 1–2 months (future stock availability)



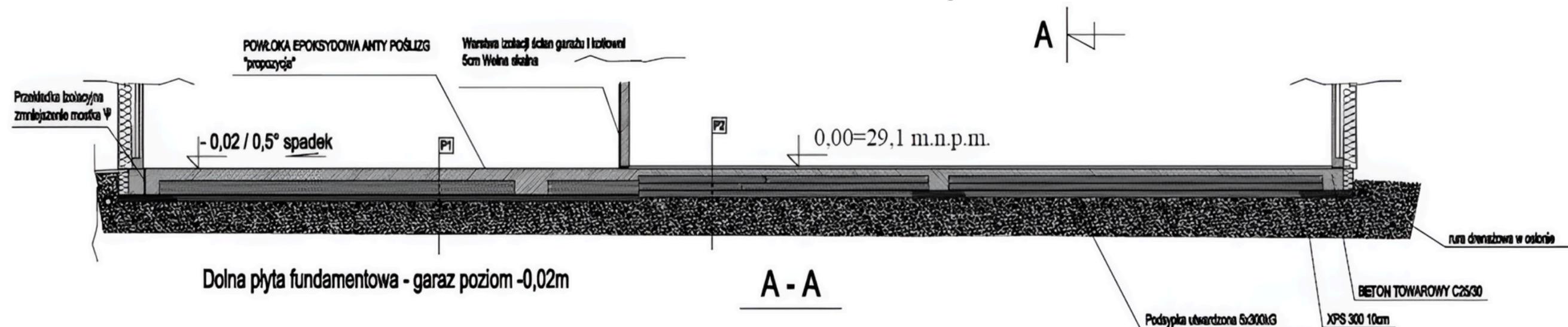
Scandinavian foundation slab

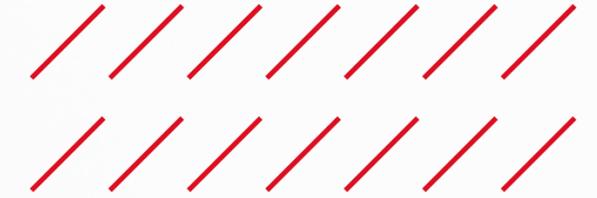
- 1.) Substrate preparation: First, the topsoil and non-bearing earth are removed to a depth of at least 1.0-1.2 m, which corresponds to the frost line depth. The excavation is then filled with non-bearing soil, which is thoroughly compacted for the stability of the substrate. This process ensures a level and stable base for the entire foundation slab.
- 2.) Laying geotextile and lean concrete: On the prepared substrate, geotextile (100-150 g/m²) is laid to protect against movement of the layers. On top of it, lean concrete (for buildings with more than 3 floors) is placed, which serves as a reinforcing base for the building and also includes utility networks (water, sewage, electricity, gas).
- 3.) Insulation and lost formwork: An insulation layer is placed under the foundation slab. In areas with planned ribbed reinforcements, XPS300 or EPS200 is used for higher pressure resistance. Outside of these areas, EPS100 is laid. The insulation serves not only to protect against heat loss but also as lost formwork for pouring concrete. In addition to the bottom insulation, side insulation is also laid on the sides of the slab to ensure stability and protection against moisture.

4.) Reinforcement and concreting: In the area under the slab floor, ribbed reinforcement and a reinforcement mesh are placed to ensure the strength of the structure. Once all installation elements (electricity, water, sewage) are installed, the foundation slab is poured with concrete. After the concreting, the surface of the slab is leveled with a screed, ensuring a smooth base for the final floor finish (e.g., wood or ceramic).

Properties of Scandinavian slabs in relation to traditional foundations

Scandinavian foundation slabs have a thermal transmittance of 0.12-0.17 W/m²K, which is better than traditional foundations, which must have a thermal transmittance ≤ 0.30 W/m²K. A passive house requires a transmittance of 0.14 W/m²K. Due to the ribbed slab structure, Scandinavian slabs have high stiffness and resistance to displacement, while being separated from the ground. The design ensures that the concrete is protected from frost and moisture, unlike traditional foundations that may be exposed to negative conditions. The prefabricated elements of Scandinavian slabs allow for quick assembly, taking only 2 days, which speeds up the construction of the building.





Our partners

GREETECH INNOVATIONS S.R.O.

Green Tech Innovations specializes in modern and eco-friendly solutions for heating, cooling, and energy self-sufficiency of buildings. It provides the supply and installation of heat pumps, ventilation systems, air conditioning, and photovoltaic systems. The company focuses on energy savings, sustainability, and maximum comfort for users. It offers complete service from the design of technical solutions to their custom implementation.

JBG - 2

JBG-2 focuses on the production and supply of professional cooling, freezing, and catering equipment. The company offers solutions for retail chains, supermarkets, and industrial operations, including display cabinets, cooling units, and complete refrigeration systems. JBG-2 products are designed with an emphasis on energy efficiency, modern design, and reliability. The company also provides technical support and service from design to project implementation.

KADUL SP.Z.O.O.

The company Kadul specializes in the construction of low-energy and passive family homes through custom-designed projects. It focuses on modern technologies, precise workmanship, and high-quality execution. Kadul offers complete construction services, from design to the handover of the finished home. The company emphasizes energy-efficient, eco-friendly, and long-term sustainable living.



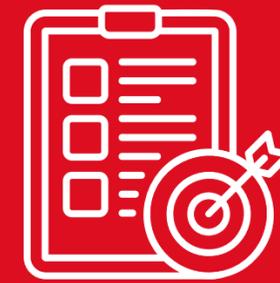
Additional Services



Based on the project, we will advise you on which technology to choose.



We have access to various technologies for the household.



We will help you with the building permit.

Our Team

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