



Pietrucha

Established 1960

Proudly Polish,
Truly International

www.pietrucha.pl

SOLUTIONS FOR CIVIL AND HYDROTECHNICAL ENGINEERING



The Pietrucha Group is a Polish family company with 60 years' history. We specialize in the manufacturing and distribution of top-class geotechnical profiles and complete solutions for civil and hydrotechnical engineering.

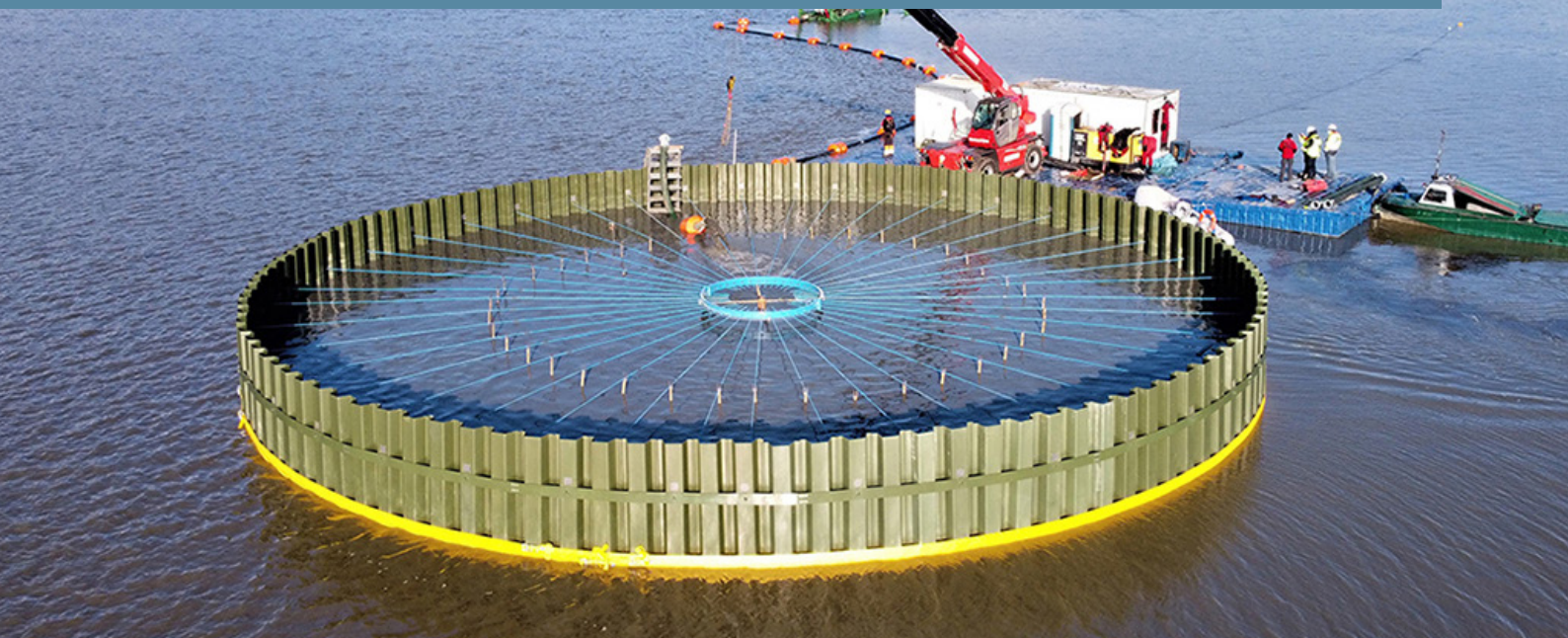
- 30 years' track record in plastics processing
- Global reach: 40 states on 5 continents
- Advanced machine park and continuous quality control
- Own R&D division, cooperation with Poland's leading research institutes
- ISO 9001:2015 certification in terms of manufacturing and distribution



**ENVIRONMENTALLY FRIENDLY SOLUTIONS, HIGHEST
QUALITY AND SYSTEMIZED OPERATIONAL PROCESSES**



VINYL AND HYBRID SHEET PILES



The EcoLock Vinyl Sheet Piles

Environmentally friendly, lightweight and economic alternative to the traditional materials such as steel, wood or concrete.

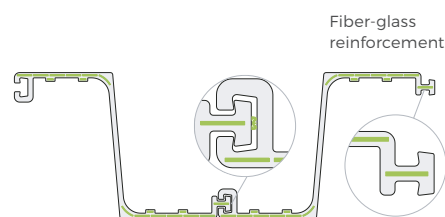
- Do not corrode and are resistant to the impact of atmospheric and biological factors including UV radiation, sea water.
- Resistant to mechanical damage such as scratches, cracking and abrasions.
- Costs efficient in transport due to their low weight.
- Simple installation using standard equipment.
- Environmentally friendly solution with low carbon footprint.
- As certified by the National Institute of Hygiene, the material of the profiles is neutral to drinking water.

The SuperLock Hybrid Sheet piles

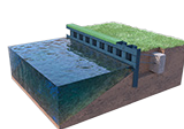
The new generation of sheet piles made of hybrid material consisting of PVC reinforced with fiber-glass. Hybrid sheet piles were designed to be applied in more advanced constructions which require higher mechanical parameters than those achievable by vinyl sheet piles the available on the market.

- All advantages of vinyl sheet piles combined with much higher technical parameters.
- Broader scope of application, reserved until now for light steel sheet piles and reinforced concrete structures, for which a standard PVC sheet pile would be unsuitable due to its inadequate stiffness.

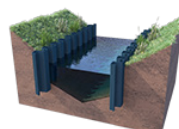
Locks in the EcoLock and SuperLock sheet piles may be additionally equipped with integrated gaskets made of soft PVC.



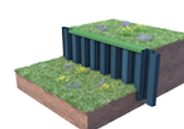
Application:



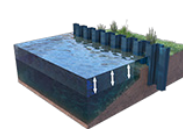
Sheet piling and cut-off walls with anchoring systems



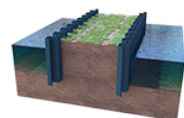
River bank protection and regulation



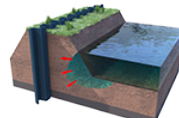
Retaining systems protecting slopes, landslides and various excavation sites



Protection of banks with variable water levels



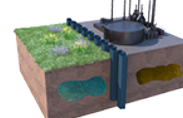
Construction of causeways on water reservoirs



Reinforcement of floodbanks



Cut-off walls used to protect places with variable or raised groundwater level



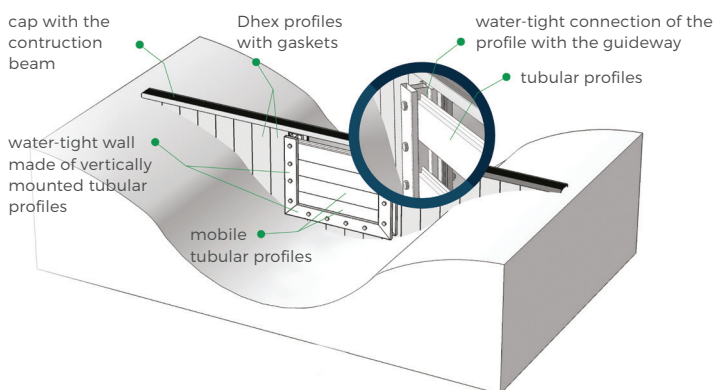
Cut-off walls in ecologically threatened areas

WATER RETENTION SOLUTIONS

Small Retention Sluices

Durable, environmentally friendly solution used to increase water retention capabilities of ecosystems, and to mitigate the risk of flood and draught. Small retention sluices help raise the ground water level, slow-down water runoff and retain the water-flow balance during dry seasons for better micro-climate and biodiversity.

- User-friendly solution with light-weight mobile system elements.
- Do not require any maintenance.
- Resistant to mechanical, atmospheric and biological damage.
- Natural, aesthetic look in harmony with the surroundings



Water Barrages

A durable and resistant to environmental factors, complete solution made of vinyl sheet piles. Such water barrages are maintenance-free and do not require any service work. They are resistant to corrosion and UV radiation.

As certified by the National Institute of Hygiene, the material of the profiles is neutral to drinking water.

Open-top Road Culverts

A lightweight, economical and maintenance free drainage solution preventing water run-off from road surface.



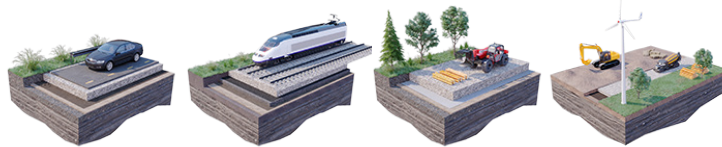
GEOSYNTHETICS

The PolGrid Geogrids

Biaxial geogrids with stiff, integrated nodes. Used for the immediate stabilization and separation of the subgrade layers, geogrids enhance the durability of road surface and reduce the risk of the occurrence of wheel-ruts, cracks and deformation. Owing to stiff nodes and very high grid strength, they are resistant to mechanical damage during transport and assembly.

- Up to 40% reduction of the thickness of the aggregate layer.
- Higher life-span of the surface.
- Resistance to assembly damage.
- Lower investment costs and shorter construction time.
- The weaker the ground conditions, the greater the savings.

Application:

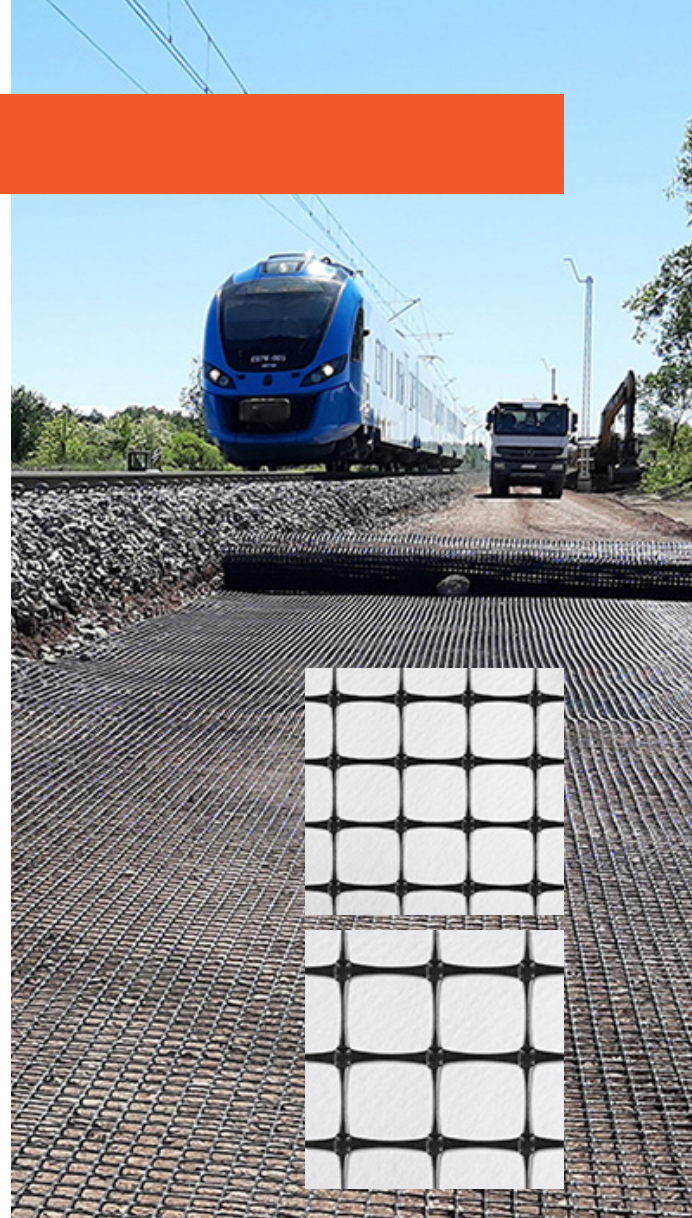


Asphalt and concrete roads, runways and other airport infrastructure

Railways

Forest and technological roads

Temporary roads and working platforms



Biogeocomposites PolGrid Bio

The PolGrid Bio biogeocomposite is a combination of a geogrid with stiff nodes and a biotextile with grass seeds. It is practical and convenient method of turfing, greening, but also for securing slopes near roads and highways, railway embankments, flood embankments and industrial areas. It allows to quickly cover and protect the soil surface of the slope, protecting it against erosion and near-surface landslides.

- Durable solution, standard maintenance
- Protection against water and wind erosion and near-surface landslide
- Allows for even growth which is particularly important on sloping areas
- Prevents washing away of the seeds by rainwater
- Efficient protection against moles and plucking the seeds by animals



TECHNICAL AND DESIGN SUPPORT

We offer technical and design support in cooperation with a specialized design office. For civil engineering specialists, we created Designer 3.0, our online calculation platform which comprises three calculation tools dedicated to the products from the Group portfolio to facilitate civil engineering calculations of cut-off and retaining walls parameters, required soil stabilization and flood prevention solutions.

Designer 3.0
by Pietrucha

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