



ENGINEERING SOLUTIONS  
IN FOREST AREAS





**Close cooperation  
with research  
institutes in mostly  
whole Europe, Canada  
and United States  
of America.**

ViaCon was established in Sweden and Norway in 1986. At present ViaCon Group operates in a dozen or so European countries and belongs to SAFEROAD Group.

ViaCon is the European manufacturer leader of steel structures; steel & polymer pipes made of HDPE & PP. Furthermore, ViaCon Group boasts a broad range of geosynthetics products, widely known and used through all the world.

A comprehensive range of products for civil engineering purpose that ViaCon offers as well as the common experience shared

among ViaCon Group gives the opportunity to offer a wealth of expertise in developing road construction infrastructure. Our technicals and designers provide customer a professional technical consulting with the use of highly developed products.

ViaCon has also a large contribution in the development of new technologies. It has performed more than twenty research of engineering structures to continuously modernize its products in the capacity, cost optimization, improving quality, new shapes and technological solutions. Taking care of our customers and the environment we have implemented an integrated

quality assurance system consistent with ISO 9001:2000 and ISO 14001: 2004. The MultiPlate MP 200, HelCor®, HelCor PA, and SuperCor® products as well as the geosynthetics products offered by ViaCon have the CE marking.

PECOR OPTIMA® system is produced according to the standard PN-EN 13476-3 and Pecor Quattro PN-EN 13476-3.

**The solutions offered by our company can be used in remote locations and installed under all weather conditions, irrespective of the season.**



## Pipes and Steel structures

For the construction of culverts, bridges and animals crossings are used:

- PECOR OPTIMA® pipes made of HDPE, Pecor Quattro made of PP
- HelCor® steel pipes & HelCor PA steel pipe-arches
- MultiPlate MP200 and SuperCor® structures

Offer contains also:

- sedimentary and cascade wells
- retention system



The use of pipes and flexible structures do not affect the surrounding landscape values through:

- elimination of heavy equipment due to low weight of elements
- possibility of composing them with natural materials, such as stones, wood, fascines. This creates considerable possibilities in the scope of shaping the inlets and outlets of the structures from environmentally friendly materials

- material shapes adapted to the surrounding landscape allowing a free migration of living organisms
- quick and easy installation

All structures made with the use of products indicated above, are durable and can withstand without large financial outlays on the maintenance for many years.

**Pipes and flexible structures are also characterized by:**

- optimum hydraulic and strength properties

- simplicity in design due to the small number of parts and easy access to ready drawings (dwg)

- easy and quick assembly helps in limiting time for construction of culvert in stages without stopping the traffic as well as during winter time

Considering the specific character of the products, it is possible to carry out works almost at any time of the year.



Culverts and underpasses for animals made of high density polyethylene PECOR OPTIMA® pipes and polypropylene Pecor Quattro pipes



Helically corrugated steel pipes HelCor® and pipe-arches HelCor PA used as culverts and animal underpasses



Flexible steel structures MultiPlate MP200 and SuperCor® used as culverts, bridges and animal under and overpasses

## Non woven ■ Woven ■ Geogrids ■ Geocells Drainage mats ■ Erosion control mats

A wide range of geosynthetic products the optimal selection of the appropriate solution according to individual needs, depending on the required function performed by the geosynthetics.

### Applications:

- construction of forest, dirt roads and recreational areas
- separation and reinforcement of soil with low bearing capacity
- separation layer between soils with different aggregate size
- vertical and horizontal geosynthetic drains
- drainage systems protection against silting up with finegrain soil
- geomembranes protection against damage caused by the construction of ponds
- soil stabilization does not require the use of heavy equipment, as in the case of stabilization with cement, lime, etc.
- stabilization, repair and preservation of landslides
- erosion control (geocells, geomats)

### Advantages:

- high flexibility and ease of adaptation to the subsoil shape
- light, weight, quick and easy installation that do not require mechanical equipment or highly skilled assemblers
- possibility of using local material for backfilling
- increase the stability of the embankment and the acceleration of the consolidation of poor quality
- high resistance to tear and puncture, and damage during installation
- high resistance to mechanical damage, UV radiation, chemical and biological corrosion
- very good horizontal and vertical water permeability at a high load
- increase the durability of earth structures
- reduction of more than 50% of the exchange of soil and reduce the amount of aggregate base course layer, which lead to reduction of investment costs
- create a stable platform for the implementation of projects even in difficult soil-water conditions
- high modulus of elasticity, junction strength, resistance to installation damage and durability for over 120 years
- harmless to the environment



Woven and non woven for reinforcement and separation of low-bearing soils



Geogrids for soil stabilization and reinforcement



Non woven geotextiles and geomembranes used for sealing of water reservoirs

### Gabion baskets & Gabion Mattresses are used for:

- erosion control of shores and river beds, streams, canals, reservoirs
- protection of existing & built slopes
- retaining walls

### Advantages:

- permeability – water easily penetrates through the gabions, cause no water accumulation behind the structure
- flexibility – high tolerance to non-uniform settlement
- high resistance to corrosion and fire
- possibility of using local material for backfilling
- gabion structure blends easily and harmonously in natural surroundings
- quick assembly



Creating  
in harmony  
with nature

### Comprehensive investment service

- designing
- technical advisory
- production
- sale
- assembly



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