



Stabilization of a slope with a steep inclination due to the enlargement of a peripheral road



About GeoGlobe® Europe

Being aware of the geological, ecological, economic and human challenges of our century, GeoGlobe® Europe company designs and manufactures geosynthetic systems for soil stabilization and erosion control and puts its know-how and its experience in service of the Earth Stabilization.

Being dynamic, GeoGlobe® Europe consists of a team of specialists with a permanent and consistent participation in the world's geosynthetic committees. GeoGlobe® Europe continuously invests in research and development of technologies whose effectiveness is proven in long terms.

Based on many years of experience in studying and realization of geosynthetic solutions applied in the infrastructure projects and terrain stabilization, we focus on the feasibility and durability of the solutions.

GeoGlobe® Europe takes care to offer today's customized solutions harmoniously combining the technical performance at the level of civil engineering with the human pledge including the socio-economic development and the ecological engineering in respect to the environment for a more stable future.

Stabilization of a slope with a steep inclination due to the enlargement of a peripheral road

The challenge

- The enlargement of the road needs to dig the mountain that leads to the formation of very steep slopes.
- The terrain consists of Marl and unstable materials and because of its exposure to humidity, has endured frequent landslides.

Slope with a steep inclination



Slope with a steep inclination and Landslide



The Solution

To stabilize the upper layer of the slope with GeoGlobe® in contact with the soil according the inclination of the slope, while enabling lateral drainage, as full protection system, in harmony with the surrounding landscape.

The alternative methods

The construction of retaining walls is expensive and they can collapse. If that happens, the sliding rocks can fall on the road due to the steep inclination of the slope, blocking a part of the road and preventing further establishment and development of the vegetation.

GeoGlobe® method and its advantages

To present a durable solution for stabilization of the slope, confronting the topographic, geological, hydraulic, ecological and economic requirements, knowing that the threat from the fallen rocks is terminated and the vehicles can pass safely.

GeoGlobe® technology – simple, durable, aesthetic and reliable

In order to limit the landslides, a layer of GeoGlobe® filled with seeded topsoil can be installed above the stones to ensure the drainage and to enable the establishment of the vegetation.



The result

The solution has been proven from both ecological and economic point of view for the implementation, effectiveness for stabilization of the slope, drainage of rain-water and for the base preparation for construction of low retaining walls ensuring the terrain retention. It has a positive effect for the safety of the vehicles and the passengers, due to the fact that using GeoGlobe® the falling of the rocks is prevented. All the above, harmoniously integrates with the landscape.

