

General Overview

Slope stabilization
with a steep inclination



Steep slopes of landfills



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 geosynthetic committees.

GeoGlobe® Europe continuously invests in research and development of technologies, the effectiveness of which has been proven throughout time.

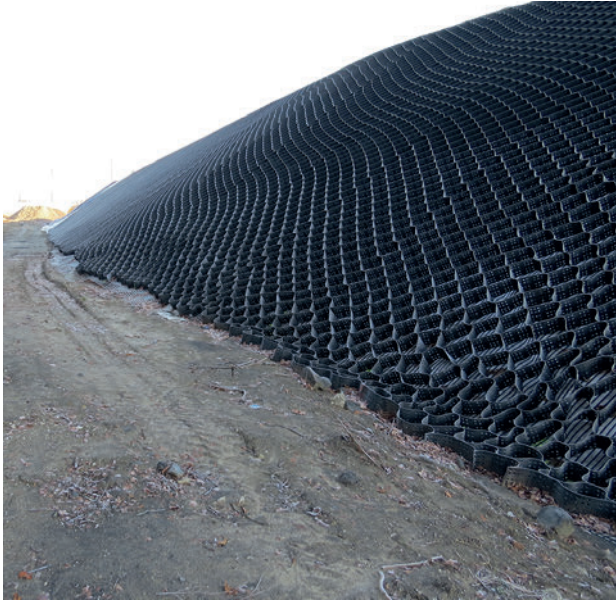
Based on many years of experience in studying and realization of geosynthetic solutions applied in the infrastructure projects and terrain stabilization, we focus on the feasibility and durability of the solutions.

GeoGlobe® Europe takes care to offer today 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 embankments of a landfill, covered with Geomembranes

The challenge

- Construction of a cover of a landfill with geomembranes, in order to avoid possible penetration of water, was very complicated.
- The plan was to install geomembranes all around the area. Above the geomembranes a cover of local vegetated soil should be installed.
- The problem was that no material could be located on the wet membranes without sliding down.



The Solution

The solution was to install above the geomembranes, a layer of geocells, and to achieve a stable solution for confinement of the soil, and by that to enable establishment of vegetation.

The installation process

The geocells were anchored on the crest by two ways:

1. By long pins, inserted into the soil on the crest.
2. By installing a layer of geogrid, to which the geocells were fixed by plastic ties

Then the geocells were fixed on top and expanded downwards.

In order to keep the cells open properly, lot of plastic ties were fixed to the geogrid below and to the geocells above

At the bottom of the slope, the geocells were fixed with pins.

After all the geocells were expanded, anchored or tied, the cells had been filled with the local soil.

The results

The slopes were perfectly protected against the sliding of the soil. The membranes were protected against puncturing. The installation was very fast.

