



**SLOPE & CHANNEL  
PROTECTION**

## PROJECT AT A GLANCE

### Application

Slope Protection – steep slopes

### Subgrade/Soil

Sand, compact soil and rock

### Region

Haifa, Israel, Middle East

### Installation

1999-2000

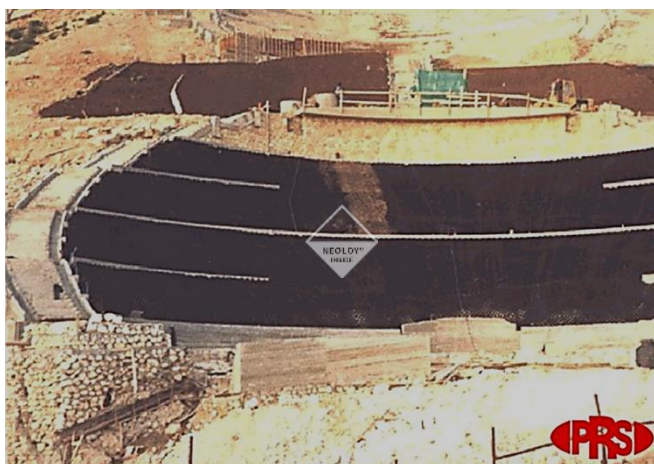
### Client

The Bahá'í World Centre is the spiritual and administrative centre of the Bahá'í Faith. The World Centre consists of the Shrine of Bahá'u'lláh near Acre, Israel, the Shrine of the Báb and its gardens on Mount Carmel in Haifa, Israel, and various other buildings in the area including the Arc building.

# Steep Slope Protection for Bahai Shrine & Gardens, Israel

**The UNESCO World Heritage site with magnificent formal gardens was built on mountainside with Neoloy® Tough Cell stabilization.**

The beautiful gardens of the Baha'i World Centre are at the 200,000 sqm religion's global headquarters on top of Carmel Mountain in Haifa, Israel with a panoramic view of the sea and city below. Baha'i religious officials erected a series of 19 formal terraced gardens on the mountainside that highlight the Shrine of the Báb at the apex. This is the final resting place of the founder of the Baha'i Faith in a project that took over a decade to complete. The extremely steep slope required the best available soil erosion control solution – and a green one as much as possible – to support the immaculately maintained grass on a steep incline – as well as the flower beds, ornamental trees and flowing fountains.



*Illustration of Neoloy Installation during construction in the Bahai World Center Garden Slopes*



## ABOUT PRS

PRS Geo-Technologies is the world's leading supplier of cost-effective soil stabilization solutions. Combining innovative technology with specialized engineering expertise, PRS delivers proven solutions for load support, slope and channel protection, earth retention and reservoir and landfill applications.

With a global network of subsidiaries and local distributors, PRS provides a full range of end-to-end support services. Since its establishment in 1996, PRS has implemented thousands of successful projects in over 80 countries worldwide.



## SLOPE & CHANNEL PROTECTION

# Steep Slope Protection for Bahai Shrine & Gardens, Israel



### CONVENTIONAL SOLUTION

No one conventional solution provided a feasible engineered and economic solution for the garden design, which included huge grass areas on very steep mountain slopes – that needed substantial ongoing gardening maintenance.

### NEOLOY® TOUGH CELL SOLUTION

PRS Neoloy Tough Cells provided a combined engineering and landscape solution that met the client's strict requirements for stability and aesthetics – particularly for long-term performance.

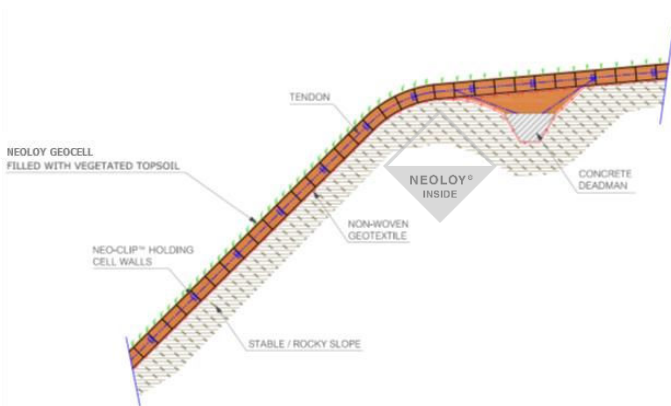
The Neoloy Tough Cells were installed on the compacted slope at each of the 19 terraced gardens, where they create a stable soil mass via soil-root interlock. The Tough Cells confine the soil and minimize the movement of soil particles as well as the impact of rain drops and runoff.

Neoloy Tough Cells also provide an excellent growth medium for vegetation and roots. Neoloy enables intensive gardening and maintenance of the grass lawns – as are all the landscape elements – on the steep slopes.

**Neoloy Tough Cells are at the 'foundation' of one of the most magnificent and impressive landmarks in Israel, and a UNESCO World Heritage Site, The Bahai Terraced Gardens. Their unique design and magnificent detailing, which replicates the gardens of old Persia, make for truly exquisite and peaceful surroundings.**

### CLIENT BENEFITS

- Simple logistics, fast and cost-effective installation.
- Improved slope stability and excellent protection from erosion even at steep inclines.
- Excellent growth medium for vegetation and roots
- Drainage and percolation are enhanced by perforated cells.
- Proven, reliable, high-quality solution for challenging landscapes



Section Drawing of Neoloy Slope Protection Solution for Bahai Gardens