

KAYAPARK PROJECT BASAL REINFORCEMENT

İSTANBUL - MARMARA - Turkey



PROJE TÜRÜ
Zayıf Zemin Üstü Yapılar

YAPIM YILI
2020

MÜŞTERİ
EMLAK KONUT

YÜKLENİCİ

TASARIMCI

İLGİLİ ÜRÜNLER
Tek Eksenli GeoGridler (682,600 M2)

Meydan Okuma

The Turkish Housing Authority wanted to convert an abandoned mining site into a 300,000 m2 housing complex comprising residential housing and park area with pedestrian walkways. Architects envisioned filling the mine's "open pit" area to support the project's general design plan requiring a solution for the management of differential settlement of the fill material that would occur.



Çözüm

To manage the differential settlement, Maccaferri offered Paralink™ as a basal reinforcement solution. Paralink™ geogrids are unique planar structures consisting of a monoaxial array of composite geosynthetics strips. Maccaferri TURKEY worked with the housing authority's chosen design company to create a customized solution utilizing Maccaferri's proprietary software to evaluate geotechnical parameters and meet design life requirements whilst being economically acceptable. The solution chosen was Paralink™ 200 installed in perpendicular and bidirectional planes providing 200kN in both x and y directions. Differential settlement was managed with a 2% material strain. A total of 682,600 m² of Paralink™ 200 was supplied, along with 102,000 m² clay liner.

