

## TERRAMESH RETAINING WALL KORCA-ERSEKA-LOT2 PHASE1

### KORCA, ALBANIA, ALBANIA

#### Reinforced Soil Walls and Slope Reinforcement

##### Problem

The Korca - Erseka Road project is located in the southeast of Albania. The project construction started in March 2021 and finished the first part in January 2022.

Currently, the road axis Korca-Erseka has a length of 45 kilometers, while with the completion of the new segment the distance is reduced to 35 kilometers. Its construction will promote the further development of tourism in the southeast of the country by bringing closer two areas with great potential, such as Korca and Erseka.

With its completion, the distance between Korca and Erseka is reduced to 20 minutes.

Being an unique design with back to back earthen filled structures, the contractor company ANK asked Maccaferri for our support for these project.

After runing the profiles in Macstars 4.0 we found out that the geogrid reinforcement lengths weren't satisfying the stability checks.

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##### Solution

Firstly we redesigned the solution using Terramesh units with dimensions 3x3x1x1m. To ensure stability, Terramesh System was reinforced with Paralink 300 and Macgrid WG15,11,8 according to the software Macstars2000 calculations. This way we gave them the most cost effective solution.

The construction of the wall started in March 2021 and it was finished in January 2022.

In total 4 Terramesh back to back walls were build around 31'500m2 of facade.

Wall 1 L=325m ; Max height H=32m Wall 2 L=130m ; Max height H=20m Wall 3 L=50m ; Max height H=12m Wall 4 L=525m ; Max height H=16m

**Client:** ANK shpk

**Designer / Consultant:** A&E Engineering " Sh.p.k.

**Contractor:** ANK shpk

##### Products used (Qty.)

- Terramesh	10500 pc
- MacTex H	79'200 m <sup>2</sup>
- ParaLink	75'600 m <sup>2</sup>
- MacGrid WG	197,400 m <sup>2</sup>

**Date of construction:** 02/2021 - 01/2022



after construction



after construction



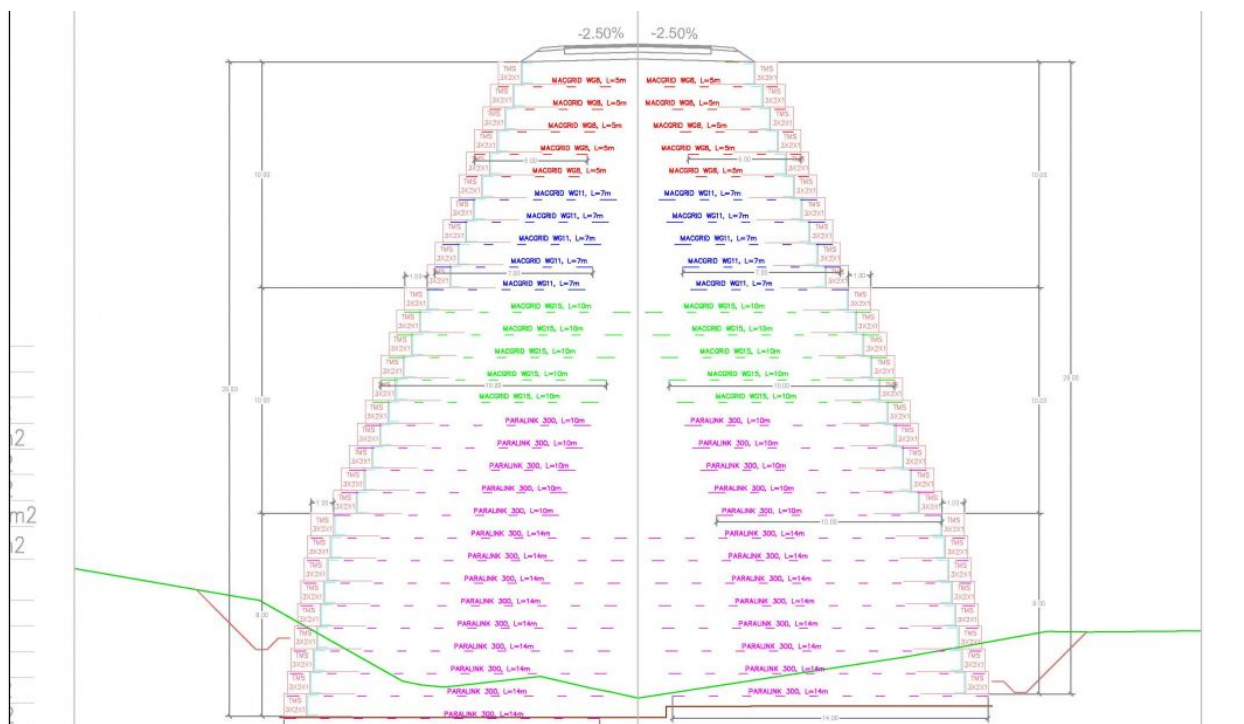
during construction



after construction



after construction



## Cross section

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