HIGHWAY D1 FRIČOVCE - SVINIA, SO 231-00 RETAINING WALL ON AN ACCESS ROAD
SLOVAKIA, HENDRICHOVCE

REINFORCED SOIL STRUCTURES
Product: Terramesh® System

Problem
The function of the retaining wall is to secure the stability of a right-side embankment of the 111-00 and the 112-00 access roads. The shape of the wall is in line with the direction of structures 111-00 and 112-00 on the southern and western side of the bridge abutment 7 of the 203-00 bridge.

Solution
The structure of the wall is made with a system of reinforced soil structure with gabion facing with integrated reinforcement Terramesh system. The face elements have the dimensions of 2.0 m (length) x 1.0 m (or 0.5 m) (height) x depth of the gabion 0.8 m. Integrated horizontal panels made of hexagonal double-twist plastic-covered steel net, type 8x10, firmly connected to the gabion. The panel forms a 3.0 m long reinforcement (anchoring) in the embankment slope. The diameter of the wire of the net is 2.7 (internal) / 3.7 (external) mm. The surface of Terramesh system blocks is made by Galmac + Plastic. The face of the gabion and horizontal reinforcement are connected already during the production process and form a single part of the system. External stability of the reinforced wall is provided for using monoaxial flexible geogrids. Geogrids are connected to the prefabricated face using over lap that must be at least 3.0 m long.

The length of the wall is 90 m and maximum height is 10.5 m.

Client:
NATIONAL MOTORWAY AUTHORITY

Main contractor name:
Združenie D1 Fričovce - Doprastav, a.s., Strabag, s.r.o.

Consultant:
Stráský, Hustý a partneři s.r.o.

Used product:
Terramesh® System - face area: 700 m²

Construction info:
Construction start date: August 2012
Construction end date: August 2014
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