



OLT VALLEY, KM 239+500 - 246+500, ROUMANIE

Stabilisation des pentes

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Projet	Olt Valley, km 239+500 - 246+500
Ville	DN7
Pays	Roumanie
Année d'installation	2015
Client	Compania Națională de Administrare a Infrastructurii Rutiere (C.N.A.I.R.) – Directia Regionala de Drumuri si Poduri Craiova (D.R.D.P.)
Ingénierie	S.C. IRIMAT Cons S.R.L. - Bucharest
Entrepreneur	S.C. VECTRA SERVICE S.R.L.
Autres sociétés participantes	Sächsische Bau GmbH Dresden Germany, Sibiu Branch
Situation de départ	<p>National road no. 7 (DN7) is one of the most important routes through the Carpathian Mountains, with heavy traffic. The Olt River runs parallel to the DN7 with high mountains, directly next to the road. In winter and spring rockfalls occur regularly. Also with unstable slopes, torrents and avalanches the risk of accidents was high.</p> <p>This project was originally developed with five concrete canopies for rockfall protection. Due to costs and other restrictions, a modern solution using high tensile steel wire was chosen. After further investigation, 23 dangerous areas were found and had to be protected using two types of protection systems: active and passive.</p>

Description

4200 m² of TECCO® System and 560 m² of SPIDER® System were installed together with nailing as an active protection measure on the following sectors:

1. km 240+421 - 240+441

TECCO® G65/3

- stabilized area: 260 m²
- slope height: 15 m
- nail pattern: 2.20 x 2.20 m
- nail type: GEWI 28
- nail length: 3 m

2. km 240+441 - 240+467

SPIDER® S3-130

- stabilized area: 540 m²
- slope height: 18 m
- nail distance: 2.50 m
- nail type: GEWI 32
- nail length: 3 m

3. km 240+510 - 240+555

TECCO® G65/3

- stabilized area: 585 m²
- slope height: 13 m
- nail pattern: 2.50 x 2.50 m
- nail type: GEWI 32
- nail length: 3 m

4. km 242+457 - 240+610

TECCO® G65/3

- stabilized area: 1377 m²
- slope height: 10 m
- nail pattern: 2.10 x 2.10 m
- nail type: GEWI 32
- nail length: 3 m

5. km 242+859 - 242+940

TECCO® G65/3

- stabilized area: 640 m²
- slope height: 13 m
- nail pattern: 2.20 x 2.20 m
- nail type: GEWI 32
- nail length: 3 m

6. km 243+099 - 243+179

TECCO® G65/3

- stabilized area: 1260 m²
- slope height: 14 m
- nail pattern: 2.20 x 2.20 m
- nail type: GEWI 32
- nail length: 3 m

See also the other projects of Olt Valley.

Site protégé

Route/Rue

Autres applications installées	Protection contre les chutes de pierres, Laves torrentielles et coulées de boue
Protection anticorrosion	GEOBRUGG SUPERCOATING
Géologie	<p>Along the whole section, mica and para gneiss appear in outcrops belonging to the series of the tail (the upper Proterozoic ante) and the local packet sandstone, covered at the top by diluvium deposit (dust, sand and gravel powder blocks).</p> <p>Slopes (for the most part covered with forest) show inclinations of up to 60 - 80° and are strongly tectonized (kneading such, micro cracks) and continuous processes of disintegration. The angle of the rock packages varies between 30 - 55° (lower to higher sandstone and mica).</p>
Zone stabilisée	4700 m ²
Hauteur de la pente	38 m
Inclinaison de la pente	48 ° - 87 °
Exposition	Nord-est

Pour toute question, contactez votre spécialiste Geobrugg le plus proche

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