

Case History

Landslide of the RD 959 L'HONOR DE COS (FRANCE)

Date

October 2020

Surface Area

6 000 m²

Product(s)

NOTEX GX 100-50

Company

COLAS MONTAUBAN

Project owner

Tarn & Garonne Department

Project management

Tarn & Garonne Department
Civil engineering department

Problematic(s)

Following the landslide of the RD 959 at HONOR DE COS (82) in 2020, a quick solution had to be found for the rehabilitation of the road. The study carried out by the department's civil engineering department led to the recommendation of an embankment reconstituted in Untreated Gravel (GNT) and reinforced by geosynthetic reinforcement.

Solution(s)

The backfill reconstituted in GNT 0/150 had to be reinforced with a geosynthetic reinforcement to ensure the rotational stability of the slope that was lacking. The study conducted by AFITEXINOV to ensure this stability defined a NOTEX GX 100-50 ASQUAL with return of the geosynthetic (in "coil"), with a cover of topsoil for aesthetics and UV facing.

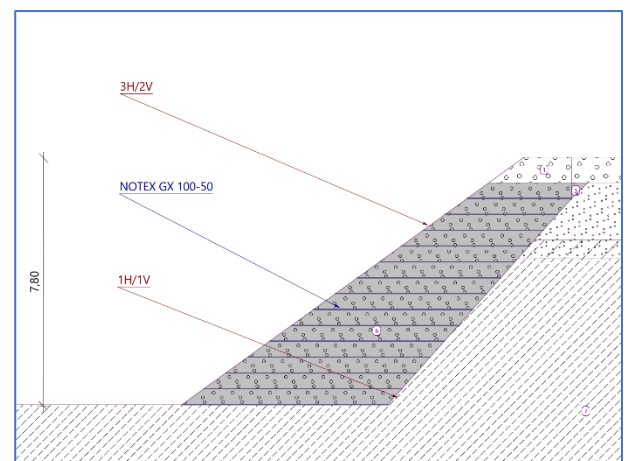
This solution has allowed :

- To quickly reabsorb the landslide thanks to an advance of 1m of height per day (i.e. two "boudins" per day) ;
- To durably reinforce the slope thanks to a controlled geotechnical dimensioning ;
- To have the quality assurance of an ASQUAL certified product ;

AFITEXINOV provided its technical expertise for the sizing of the solution, as well as for the installation of the geosynthetic on site.



Damaged slope



Typical section of the project

Description and purpose of the product

The structure of the NOTEX GX geocomposite, based on fine meshes, results from the assembly by weaving-knitting of high resistance polymer cables. It is packaged in rolls of 5.5 meters wide and 100 meters long. It is certified ASQUAL on several ranges of resistance.



Storage of the NOTEX GX 100-50

Work progress



Backfill on the geogrid, installation of the return and manual pre-tensioning



Finishing a curb and covering with topsoil

Advantages of the proposed solution

This solution allows :

- To guarantee the stability of the roadway thanks to a manufactured and easy-to-implement solution ;
- Avoid the use of heavier methods such as stabilizing piles or nailing ;
- To have a fast advancement on site, with a yield of 2 "rolls" per day;

