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**Slope Stabilisation for Railroads  
Connection between Heidenau and Altenberg, Germany**

Due to the dramatic and devastating floods in 2002 approximately 80% of the infrastructure around Dresden, Germany was destroyed. The rail tracks of the Mueglitztalbahn (Mueglitz Valley Train) near Weesenstein was one of the destroyed connections. The floods had simply washed away the existing railway embankment and the connecting slopes.

To be able to economically redesign this connection the designer suggested reinforcing the new soil embankment with geosynthetic reinforcements. The selected geogrid was Secugrid<sup>®</sup> 120/40 R6. They were installed according to the design calculations, fixed to the front facing, and the fill material was compacted after covering of each layer. Secugrid<sup>®</sup> 120/40 R6 uniaxial geogrids are made of polyester (PET) flat extruded monolithic bars which are welded together at their junctions. The main advantages are:

- the extreme low creep behaviour of PET
- an immediate strength transfer due to the low product elongation due to laid, welded bars
- and the high tensile strength of the product at low elongation.

These advantages ensure that settlements are minimised which ensures stable conditions for the railroad.

The simple, fast and economical solution ensured that the project was finalised within several weeks and could be opened to the public shortly afterwards.

Interested in more information?

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