

# Mechanical behavior of ballasted railway track stabilized with polyurethane: A finite element analysis

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**Abstract.** Analysis of mechanical behavior of ballast shoulder of railway track reinforced by polyurethane binding agent has been performed by the method of finite-element simulation. Limitation of the model of linear-elastic properties of geocomposite has been displayed. Dependence of elasticity modulus of geocomposite on deformation value has been suggested. Influence of penetration depth of polyurethane binding agent on behavior of railway track construction under different train loads has been studied.

## 1 Introduction

In the conditions of organizing the traffic of heavy freight and passenger high-speed trains, the level of force impact on the railway track inevitably increases. The frequency of applying this load also increases, which makes special requirements on the design and maintenance of the track [1]. With a continuous increase in dynamic loads on the ballasted track, associated with the growth of speeds and axle loads from modern rolling stock, additional measures are required to improve the stability of the structure in the longitudinal and transverse directions.

A possible solution to the problem of increasing the lateral resistance to the movement of sleepers under the impact of the train load is to strengthen the ballast shoulders. This, increases lateral resistance to shear of the track structure in an unloaded static state (from 10% [2] to 30% [3]). Various technical solutions are used to provide the required indicators of stability and reliability of the railway track. These include the optimization of the friction properties of the permanent way by changes in its geometric dimensions, such as thickness and width along the top, as well as the shape of the ballast shoulder itself [4, 5]. The type and shape of the ballast material has a noticeable effect on the lateral stability of the railway track. It was shown in [5] that steel slag ballast has an average of 27% more lateral resistance than a limestone material. Increasing the resistance of ballast to the transverse shear of a sleeper can be achieved by optimizing its shape. To solve this problem, the possibility of changing the base profile of a sleeper is considered in work [6, 7]. The studies

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