

Recovery Mechanism on the Lateral Resistance of Ballasted Track by Stabilization Work

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On ballasted tracks, it is known that the lateral resistance of track beds is reduced by performing tamping work and restored by track bed stabilization work using stabilizers. However, the mechanism in which the lateral resistance changes due to these operations has not been sufficiently investigated. In this study, we measured the lateral resistance properties on each side of sleepers by tamping work and stabilization work using a 1/5 scale model test. The results show that the recovery mechanism of the lateral resistance by stabilization work has been clarified.