

## Examination of the Reinforcement Forces Generated in Pseudo-Static and Dynamic Status in Retaining Walls

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**Abstract :** Determination of reinforcement forces is one of the most important and main discussions in designing retaining walls. By determining these forces we refrain from conservative planning. By numerically modeling the reinforced soil retaining walls under dynamic loading reinforcement forces can be calculated. In this study we try to approach the gained forces by pseudo-static method according to FHWA code and gained forces from numerical modeling by finite element method, by selecting seismic horizontal coefficient for different wall height. PLAXIS software was used for numerical analysis. Then the effect of reinforcement stiffness and soil type on reinforcement forces is examined.

**Keywords :** reinforced soil, PLAXIS, reinforcement forces, retaining walls

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