

# Designing Reinforced Earth Wall for Seismic Areas

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## ABSTRACT

*Reinforced earth wall has widely been adopted due to its economy, ease in construction and flexibility in nature. Keeping in view its nature being flexible, a pseudo static analysis has been carried out for the complete analysis and design of a reinforced earth wall having uniform surcharge on the wall and backfill. Both horizontal and vertical seismic forces have been taken into account to develop non-dimensional design charts. Use of these design charts has been illustrated by an example design.*

**Keywords:** *Reinforced earth wall, pseudostatic analysis, surcharge loading, and earth pressure.*