

## Determination of Anchor Lengths by Retaining Walls

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**Abstract :** The dimensioning of the anchored retaining screens passes always by the analysis of their stability. The calculation of anchoring lengths is practically carried out according to the mechanical model suggested by Kranz which is often criticized. The safety is evaluated through the comparison of interior force and external force. The force of anchoring over the length cut behind the failure solid is neglected. The failure surface cuts anchoring in the medium length of sealing. In this article, one proposes a new mechanical model which overcomes these disadvantages (simplifications) and gives interesting results.

**Keywords :** retaining walls, anchoring, stability, mechanical modeling, safety

**Conference Title :** ICCGE 2015 : International Conference on Civil and Geological Engineering

**Conference Location :** Vienna, Austria

**Conference Dates :** June 21-22, 2015