

## **Effect of Manual Compacting and Semi-Automatic Compacting on Behavior of Stabilized Earth Concrete**

**Authors :** Sihem Chaibeddra, Fattoum Kharchi, Fahim Kahlouche, Youcef Benna

**Abstract :** In the recent years, a considerable level of interest has been developed on the use of earth in construction, led by its rediscovery as an environmentally building material. The Stabilized Earth Concrete (SEC) is a good alternative to the cement concrete, thanks to its thermal and moisture regulating features. Many parameters affect the behavior of stabilized earth concrete. This article presents research results related to the influence of the compacting nature on some SEC properties namely: The mechanical behavior, capillary absorption, shrinkage and sustainability to water erosion, and this, basing on two types of compacting: Manual and semi-automatic.

**Keywords :** behavior, compacting, manual, SEC, semi-automatic

**Conference Title :** ICCCGE 2016 : International Conference on Civil, Construction and Geological Engineering

**Conference Location :** Rome, Italy

**Conference Dates :** March 21-22, 2016