

Amelioration of Earth Bricks by Introduction of Traditional Lime for Arid Regions

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Abstract : Today to build durably means to build in such a way to create, to preserve in the world an acceptable environment where ecology, social and economic implications are in the center of future generations interest. To achieve this goal, we tried to employ local, durable, powerful ground materials which lead to limit pollution, to have long lifetime, and possibility of recycling or recovery. Using them in the most rational way makes construction technically perfect and put an end to cement invasion, since ground bricks are simple to implement and create a useful decoration, original and pleasant which enables to preserve the historical architectural heritage. This work concerns the study of environmental effects on stabilized bricks of compressed ground, traditionally manufactured containing traditional quicklime after extinction in water as a basic component which offers to brick mechanical resistance in conformity with the standards. Experimental results of compression and bending are exposed and are in conformity with the used standards.

Keywords : characterization, BTS, quicklime, dune sand, environment, durable

Conference Title : ICCAE 2015 : International Conference on Civil Society and Architectural Engineering

Conference Location : Jeddah, Saudi Arabia

Conference Dates : January 26-27, 2015