

STUDY ON RAMMED EARTH WALLS

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ABSTRACT

The study of Rammed Earth wall covered the soil criteria and soil tests for rammed earth construction, basic construction steps of rammed earth house and compressive strength nature of rammed earth walls by varying the amount and types of stabilizer (lime and cement). Before the construction of rammed earth walls, soil tests are necessary for choosing the suitable type of soil which has major effect on strength of wall. After knowing the nature of soil and ambient conditions, determination of the type of stabilizer needed is also important.

This project include the explanation of the effects of stabilizers on different types of soil, instructions and illustrations of the construction of a typical rammed earth house from foundation to roof, sample cube preparation guidelines and compressive strength nature of cement stabilized rammed earth and lime stabilized rammed earth. Moreover, how rammed earth can benefits people as a eco-friendly construction material, will be described in this project.