

Adaptability of Historical Earthen Buildings in the City of Yazd with Iran's National Building Standards and Codes



Iman Khajehrezaei , Nariman Farahza,
Mehrnaz Malek , Hourieh Abna.
Vernacular Architecture Research Center, University
of Yazd, Yazd, Iran.
iman_7576@yahoo.com

ABSTRACT

Yazd's historical earthen buildings, although have been made with vernacular materials such as natural earth and clay, shown to have acceptable stability such that some of these buildings dates back to several hundred years. Studies show that there were no written rules and codes in the construction of these buildings and transferring of information and technology were verbal or tacit. Today, building construction with masonry materials must comply with defined standards and codes. This article intends to evaluate the adaptations of a few Yazd's earthen buildings with Iran's standards and codes. The results indicate approximate adaptation of buildings to the standards and also that the building of earlier periods have more adaptation or sometimes they built beyond it.

Keywords: Historical earthen buildings, standards and codes , earthen material , stability.