

عنوان مقاله:

MECHANICAL PROPERTIES OF COMPRESSED ADOBE BRICK

محل انتشار:

هشتمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1398)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Amir Azmani Mollabashi - B.Sc. Student, Department of Civil Engineering, Qom University of Technology, Qom, Iran

Mohammad Amin Mohammadi Alborzi - B.Sc. Student, Department of Civil Engineering, Qom University of Technology, Qom, Iran

Baitollah Badarloo - Assistant Professor, Department of Civil Engineering, Qom University of Technology, Qom, Iran

Mahdi Mohammadi Alborzi - B.Sc. Student, Department of Civil Engineering, IAU, Shahr-e-Qods Branch, Tehran, Iran

خلاصه مقاله:

In this research, authors had tried to achieve maximum compressive strength with minimum specific gravity for Adobe material, by presenting, testing and comparing different mix designs. Clay, cement, sand and water were used as main materials in this study and also pumice, sawdust and Polypropylene fiber were used as additives. Laboratory investigations indicated that by adding pumice and Polypropylene fiber to the mixture, maximum strength with the minimum specific gravity would be obtained for Adobe material. Also, Water absorption and sound wave absorption tests were performed on specimens. Furthermore, numerical studies using ABAQUS software was implemented on specimens and outputs of numerical studies were compatible with laboratory results and both can verify each other.

کلمات کلیدی:

Mix design, Compressed Adobe, Compressive strength, ABAQUS

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