

عنوان مقاله:

A Study on the Resisting Behaviour of Different Kinds of Light Concretes and Their Application in Unyielding the Constructions

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خلاصه مقاله:

Light concrete has held such an extensive application in the current construction industry. Light concrete can be an insulator with a suitable resistance and provide an appropriate quality matching with its type of usage . This concrete is made up of cement , fine sand , water and a chemical substance producing foam . The foaming substance can be mixed with water in a special apparatus , in addition , it produces and stabilizes bubbles at a high speed . The final production would be a steady foam which blends with the mortar of cement and fine sand in a particular mixing machinery and forms a flowing paste that can be applied in its normal shape or in metallic or plastic moulds . After , the paste is dried , it gets the spatial weight from 300 to 1600 kg because it contains some percentage of cement and fine sand . According to researches , this current essay categorizes different types of light concretes based on resistance and it also studies the general specifications of light concrete regarding to distinct sorts of the global standards . Pressurized and permanent resistances have been analyzed from the global standards point of view . So , some experiments have been exerted on different kinds of concretes . Conclusively , the main characteristics of light concrete presented and its application in scheming and constructions' withstanding will be considered as well . Eventually , two main samples of modern light concretes have been introduced regarding to resisting specifications

کلمات کلیدی:

light concrete , tensile resistance , pressurized resistance , permanent resistance

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