عنوان مقاله:

Effects resulting from the using concrete waste instead of aggregates in concrete strength

محل انتشار:

دومین کنفرانس ملی مدیریت ساخت و پروژه (سال: 1394)

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خلاصه مقاله:

Constructing and generating waste materials has significantly increased during recent years. Limited sources and maintaining the quality of the environment has made the necessity of recycling materials and components inevitable. One of the building materials which has a proper potentiality for recycling is concrete. Therefore waste concrete can be re-crushed and used as an aggregate in a concrete. Concrete waste is usually buried under the ground therefore recycling them solves environmental problems as well as protecting limited natural sources. In this article, with due attention to replacing sand with recycled aggregate, the strength features of concrete together with water-cement ratio and cement's cutie have been similarly studied as all the produced 3, 7, 28-day samples were put under compressive strength, direct tensile, and tensile due to bending, and the results showed that the concrete produced by recycled .aggregate has less compressive, tensile, and bending strength than normal one

کلمات کلیدی:

Environment, concrete waste, recycled aggregate, compressive, tensile, and bending strength