

عنوان مقاله:

The Influence of Aspect Ratio of Steel Fibers on The Mechanical Properties of Concrete

محل انتشار:

سومین کنفرانس بین المللی تحقیقات در عمران،معماری و شهرسازی و محیط زیست پایدار (سال: 1395)

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خلاصه مقاله:

on different parameters such as aspect ratio of fiber, the geometrical shape of fiber and placement of fiber in concrete. This article deals with the effect of aspect ratio of steel fibers on resistance characteristics in fiber reinforced concrete such as concrete workability, compressive strength, tensile strength and resistance against impact by consideringStructural behavior of steel fiber that steel fibers length were 3.5, 6.5 and 8 cm at 1% weight of cement. Results indicate that the uses of steel fibers don't have a specific effect on compressive strength of concrete but it has a significant increase in its tensile strength and toughness. Also by increasing the aspect ratio of fiber slump will resistance, and reduces crack expansion. Keywords: fiber reinforced concrete, steel fibersbe decreased. Steel fibers will improve impact

کلمات کلیدی:

fiber reinforced concrete, steel fibers, toughness, aspect ratio

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