

عنوان مقاله:

High Strength Concrete Beams Subjected to Shear Force Comparison of Steel Fibers and Stirrups

محل انتشار:

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خلاصه مقاله:

The use of steel fibers as shear reinforcement in reinforced concrete beams is very promising. One of the uses of steel fibers in concrete or shotcrete includes shear reinforcement in structural elements. In this paper, a high strength concrete with deformed steel fibers is used in rectangular beams. This solution is compared with classical reinforced concrete. The results indicate good consistence with a new method for calculating the shear strength of the fiber reinforced concrete proposed by P. Casanova and P. Rossi (1996) whereas comparison of test results with ACI formula shows some differences

کلمات کلیدی:

Beam, shear, steel fiber, high strength concrete, stirrup, crack, postcracking stress

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