

عنوان مقاله:

Behavior of Shear Friction Push-off Specimens Made Using Normal and Recycled Aggregates

محل انتشار:

ششمین کنفرانس بین المللی پیشرفتهای علوم و تکنولوژی (سال: 1391)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

This paper presents the experimental results of a study whose objective was to study the shear-friction behavior of normal-aggregate and recycled-aggregate reinforced concrete. Four specimens were cast and tested in a push-off set up. Two specimens were cast using natural coarse aggregate concrete (NAC) and two were made using recycled coarse aggregate concrete (RAC). The two NAC specimens were similar to the RAC specimens except for the type concrete. The specimens of the same concrete contained two different amounts of clamping reinforcement. The results showed that the general behavior of the RAC specimens was similar to that of the RAC specimens. It was also observed that the ultimate strength was reached soon after the yielding of the clamping reinforcement, and that the specimens resisted significant post-peak reserve strength. In all the cases, the ACI shear-friction model provided conservative estimates of the shear strength.

کلمات کلیدی:

Push-off specimens, Reinforced Concrete, Shear-friction, Strength

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