

عنوان مقاله:

(Comparison of RC interior wide beam-column joints' behavior with various beams width (a finite element study

محل انتشار:

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خلاصه مقاله:

A finite element study was performed to compare two wide beam-column joints with different width of beams. After accurately analyzing these models under lateral loading, the force-displacement curves were determined for both of reinforced concrete (RC) wide beam-column joints. The behavior of connections in terms of ductility, strength and energy dissipation was quantitatively evaluated. The results indicated that the amount of reinforcement bar play important role on behavior of wide beam-column joints. Moreover, for width varying from 600 to 1000 mm, an increase in width can result in 19% decrease in ductility and 33% ultimate strength enhancement

کلمات کلیدی:

Reinforced concrete, wide beam, beam-column connection, finite element model

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