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## **SEISMIC PERFORMANCE OF REINFORCED CONCRETE COLUMNS WITH RECYCLED AGGREGATE CONCRETE**

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### **Abstract**

This paper provides a compilation of seismic test results of full-scale reinforced concrete columns incorporating recycled aggregate concrete (RAC). The RAC used in production of specimens was obtained from low strength waste concrete. Both flexural and shear-critical RC columns were tested within the testing program. All columns were subjected to constant axial and reversed cyclic lateral loads. The test results of these specimens were compared with that of their counterparts incorporating only natural aggregate concrete (NAC). The overall test results indicated that the replacement of natural aggregate with recycled aggregate sourced from low strength concrete did not have a significant adverse effect on the seismic behaviour of RC columns.

**Keywords:** Column, Recycled aggregate, Reinforced concrete, Reversed cyclic, Seismic.