

## **Shaking Table Tests On Reinforced Concrete Frame With Metallic Dampers**

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To examine the effects of metallic dampers on reinforced concrete (RC) frames, shaking table tests were conducted on two four-story frames at a scale of 1/4. One model was without metallic dampers (uncontrolled structure) while the other was equipped with metallic dampers (controlled structure). This paper presents several comparisons between the two models to illustrate the benefits of the metallic dampers. The fundamental frequencies, damping ratios and seismic response of the models were monitored. The models were subjected to two types of ground motion: artificial ground motion and the 1995 Takatori earthquake scaled to different intensities. The results demonstrated that the metallic dampers is feasible and very effective passive energy dissipation devices in improving seismic performance of RC frames.