

9. Development of the Seismic Damper System Application to the RC Building.

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Dynamic testing for a one-storied reinforced concrete(RC) frame was carried out in order to verify the damping performance of the damper included in the RC frame. The damping damper as an object used stud type elastic-plastic damper, brace type bingham material damper and both compatible. the fact under the result of the experiment was able to be confirmed.

1. It is possible that stud type elastic-plastic damper adds the damping performance from story deformation angle of 1/800 in the frame.
2. The attenuation addition performance is improved the brace type bingham material damper with the increase of the story deformation angle.
3. By stabilizing the compatible damper to large deformation from the negligible deformation, the damping performance can be added.
4. The analytical model reproduced well experimental result.

Key words : RC building, seismic damper system, stud type damper, brace type damper