

12. Development of Response Control Long Brace

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The application of response control brace which installed damper in brace as a device for reducing response in the earthquake of the structure increases recently. This time, in order to confirm the performance of response control brace using the Bingham Material Damper using flow resistance-ness of the soft plastic material, element experiment joint experiment frame experiment. Knowledge under the result was obtained.

- i) From the element experiment, response control brace design performance way damping force speed proportional hysteresis loop be able to. and, the effect on the damping force by choosing long length, could not be observed.
- ii) From frame experiment which built in the response control brace, did not frame damping brace can and, the effect on the damping force could not be observed, even if the damping brace received the out-of-plane deformation.
- iii) As a result of analyzing the response control brace according to the Maxwell model, it agreed with the experimental result almost, and validity of the analytical model and application validity to the design were confirmed.

Key words : response control brace, bingham material damper, response control structure,
long length brace