

Seismic Resistant Mechanism of Two-by-four Wooden Frame with Vibration Control Device

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Abstract : The structural system of wooden house by two-by-four method is widely adopted in any countries, and a various type of vibration control system for building structures has been developed on country with frequent earthquake. In this study, a vibration control device called "Scaling Frame" (SF) is suggested, and which is applied to wooden two-by-four method structures. This paper performs the experimental study to investigate the restoring force characteristics of two-by-four with SF device installed. The seismic resistant performance is estimated experimentally, and also the applicability and effectiveness are discussing.

Keywords : two-by-four method, seismic vibration control, horizontally loading test, restoring force characteristics

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