

4. Study on Seismic Reinforcement of Traditional Wooden Buildings - Strength Evaluation by Full Scale Tests -

Satoshi Yamagami, Kenji Yasui, Takeshi Kishimoto, Susumu Hirano

Commonly used seismic retrofit elements for traditional wooden buildings in Japan include doveled wood siding walls, lattice shear walls and joint dampers. Although design standards for these elements have been established, detailed seismic performance requirements have not yet been clearly defined. In this study, full-scale structural frame tests using these seismic reinforcement elements were conducted to evaluate their seismic performance when used separately and when used in combination. Seismic performance during a Level 2 earthquake in cases where all of these elements are used in combination was also tested.

Key words : traditional wooden building, seismic reinforcement, doveled wood siding wall, lattice shear wall, visco-elastic damper