

Recent Collaborative Researches for Developing Earthquake Resisting Wooden Residential Houses with Tropical Fast Growing Timbers

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Since about ten years ago, we have been continuing collaborative researches, in the field of forest products for utilizing forest resources brought from tropical forest, by cooperating with researchers in Indonesia or/and Malaysia under the support called as “Core-University Program” approved by Japan Society for Promoting Science. After finishing this governmental research program, our collaborative research has been focused on the development of earthquake resisting wooden residential houses by using tropical fast growing timbers, probably due to the reason that in both Indonesia and Japan a series of devastating earthquakes happened and both countries suffered huge amount of damages both in human lives and their properties. Now in these countries, how to insure the anxious-free and safety on people’s living shelters (residential houses) against anticipating huge earthquakes is one of the most emergent issues to be resolved. Based on these backgrounds, we have started small-scale collaborative research projects using our individual research budget for developing earthquake resisting wooden residential houses or their structural components made of tropical fast growing timbers or engineered wood products.

In this conference, we will introduce some research results on a poster having titles such as; “Development of structural LVL from tropical wood and evaluation of their performance for the structural components of wooden houses part-1 Application of tropical LVL to a roof truss”, “Shear wall made of rubber wood and falcatalia mixed species LVL easily built-up with power driven coarse-thread screws”, or/and “Anti-seismic wooden houses made of wood from man made forest” and so on.