

**PROPERTIES OF FINGER JOINTING EFFECT BY ADHERSIVE
TYPES ON THREE DIFFERENT SPECIES**

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ABSTRACT

PROPERTIES OF FINGER JOINTING EFFECT BY ADHERSIVE TYPES ON THREE DIFFERENT SPECIES AT THREE SPECIES

The finger jointing short pieces of lumber has become an increasingly popular method of reducing wood waste and utilizing shorts to realize maximum profit from the steadily rising cost of raw materials. This study was conducted to evaluate the mechanical properties of finger jointing effect by adhesive types on three different species at three species (*Acacia mangium*, *neolamarckia cadamba* and *leucaena spp.*), and to determine the effects of species and adhesive used on finger jointing system. This two adhesive and the combination of same species were tested in horizontal orientation for bending properties (modulus of elasticity and modulus of rupture) conforming to the European standard (EN 408:2003). The result revealed that the specimen from the three species and the type of adhesive (polyvinyl acetate and Epoxy) was strong enough to be use as material in funiture making. Thus, it can be concluded that finger joint from *Acacia mangium*, *neolamarckia cadamba* and *leucaena spp.* Using by types of adhesive (polyvinyl acetate and Epoxy) can successfully be produced as the main source of raw materials for finger joint.

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