

**PROPERTIES OF PHENOL FORMALDEHYDE PARTICLEBOARD  
FROM BATAI (*Paraserianthes falcataria*)  
AT A DENSITY OF 550KG/M<sup>3</sup>**

**BY**

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**ABSTRACT**

Particleboard is a panel product produced by compressing small particles of wood while simultaneously bonding them with an adhesive. The many types of particleboard differ greatly in regard to the size and geometry of the particle, the amount of resin (adhesive) used, and the density to which the panel is pressed. Batai or the scientific name is *paraserianthes falcataria* is the wood that study to determine suitable or not with target density 550kg/m<sup>3</sup>. Phenol formaldehyde is the adhesive that used with 4%, 6% and 8% of resin. The percentages of resin used are affecting the properties of the board and it will be determined by several types of testing. The result was compare with Europe Standard and is not pass the standard and properties of the particleboard from Batai are failed for the all result.