STRENGTH PROPERTIES OF ORIENTED STRAND BOARD (OSB) FROM *ACACIA MANGIUM* AT 600 Kg/m^3 DENSITY WITH 5% AND 7% RESIN CONTENT.

By

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ABSTRACT

Oriented Strand Board (OSB) is a structural panel that replace of wafer board. Strength properties of OSB can compete with other board that ready in market such as plywood, particleboard and other panel product. In this final project paper, I study about strength properties of Oriented Strand Board (OSB) from *Acacia Mangium* at 600 Kg/m^3 Density with 5% and 7% resin content. Strength properties that I study are divided into two. Firstly are mechanical properties and secondly are physical properties. Mechanical properties that I study are to determine the Modulus of Rupture (MOR), Modulus of Elasticity (MOE) and Internal Bonding (IB). While for physical properties are to determine the percentage of Thickness Swelling (TS) and Water Absorption (WA) for the board. All these strength properties are comparing with British Standard.