

PROPERTIES OF CEMENT BONDED PARTICLEBOARD FROM 16 YEARS OLD
PETAI BELALANG (*Leuceana leucocephala*)

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ABSTRACT

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Cement bonded particle board from *Leuceana leucocephala* tree was examined and manufactured for their suitability as a construction material under laboratory condition. For this study, *Leuceana leucocephala* at the age sixteen years old were used to produce at 1:2.0, 1:2.25 and 1:2.5 of wood cement ratio have been produce and their mechanical and physical properties were evaluated and the Malaysian Standard in used as standard requirement. The earlier result show that 1:2.5 wood cement ratio are potential to pass the minimum standard requirement for modulus of rupture(MOR), Modulus of Elasticity(MOE), Internal Bonding(IB), Thickness Swelling(TS) and Water Absorption(WA) meet and pass the requirement of the Malaysian Standard (MS 544:2001).