# PROPERTIES OF PARTICLE AND STRAND BOARD FROM *Hevea brasiliensis* AND *Leucaena leucocephala*

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JANUARY 2012

## ACKNOWLEDGEMENTS

First of all I would like to express my grateful feeling to God because of the blessing until I have been successfully finished and submitted my final year project within the given time. Alhamdulillah, I kindly complete my report even that the time is not much. Thanks also to my family whose give a lot of motivation support for me during I start untill finished the study.

Special thanks to everyone especially to my lecturer as my advisor for this subject Dr. Wan Nazri Bin Wan Abd. Rahman whose willingness to contributed his knowledge, effort, and time till I complete my final project paper. He also was give all his support, suggestion, comment and advice towards in this final project paper.

My thanks also go to Wood Department staff especially to Mr. Sharil who has given me a lot of knowledge and help me during the testing process and help in the preparing and information gave in this study. Also not forget to my classmates and the senior whose given the response and opinion in help me to complete my study.

All the kindness you've showed I would remember in my life. I really appreciating all of your kindness. May Allah bless you.

Thank you so much.

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## ABSTRACT

## PROPERTIES OF PARTICLE AND STRAND BOARD FROM *Hevea brasiliensis* AND *Leucaena leucocephala*

This study used Rubberwood and *Leucaena spp* wood as a raw material in the manufacture of particle, hybrid (particle + strand) and strand board (OSB). Currently rubberwood supply is getting depliting and limited in resources. Thus, *Leucaena spp* was mix with rubberwood in order to counter depliting supply of rubberwood as a alternative spp to produce a boards. The objectives of this study are to determine the properties and evaluate the potential of this boards. Target board density was 700 kg/m$^3$ with applied 10% of Urea Formaldehyde as a binder. The quality of the boards were evaluated by determine of bending properties including modulus of elasticity (MOE), modulus of rupture (MOR), internal bond (IB) strength, thickness swelling (TS) and screw withdrawal (SW) based on BS EN standard. All of the results testing was achieved the standard requirement except for thickness swelling (TS).