

BENDING STRENGTH of SMALL CLEAR SPECIMEN from MERBAU and  
*Araucaria hunsteinii*

By

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Final Project Submitted in Fulfillment of the requirement for the Diploma in Wood  
Industry in the Faculty of Applied Sciences  
Universiti Teknologi MARA

October 2004

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## ACKNOWLEDGEMENTS

Firstly, I would like to express my thanks to Almighty for his blessing to give me chance to finish this project paper.

I would like to express my deepest appreciation sincere gratitude to my advisor, also the Program Head of Diploma in Wood Industry, UiTM Pahang, En. Wan Mohd Nazri Wan Abdul Rahman for his encouragement and guidance in designing and implementing this project and for his helping at every phase of the study, for kindly extending all facilities and cooperation given during the course of study.

Last but not least, thanks are also due to my beloved parents for their moral and financial support throughout the years study.

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This project carried out with the objective to make a research about solid wood. Then we will study about the bending strength from Merbau and *Araucaria hunsteinii* and make different between them. The result shows that the sample *Araucaria hunsteinii* had the lowest value of MOR was 89.35 MPa and for Merbau is 93.10 MPa. For MOE the value for Merbau is the highest with 12,878.13 MPa and for *Araucaria hunsteinii* the value is 14,181.63. The failure is already at the middle of the specimens. Using standard mechanical testing methods the major part of this work has been in connection with the various species and has been carried out on small clear specimens of 20mm x 20mm x 300mm square cross section in the early work which has done. While testing of small clear specimen provides the essential data on the inherent strength. Thus enabling basic design data to be compiled, it is only by the testing of structural size members. *Araucaria hunsteinii* is a soft wood and light weight species and it was use to make specimen as solid wood and Merbau is heavy hardwood. This study tries to promote *Araucaria spp.* and Merbau in the construction or the building structure system.