

BENDING STRENGTH of SMALL CLEAR SPECIMEN from MERBAU and
Araucaria hunsteinii

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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.