BENDING STRENGTH PROPERTIES OF SMALL CLEAR SPECIMENS WOOD FROM MERBAU AND GELAM

BY

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This project was carried out with the objective of obtaining the differences bending strength of small clear specimen from Merbau (Intsia palembanica) and Gelam (Melaleuca spp.) and also to know the mode of failure. The strength were include Modulus Of Elasticity (MOE) and Modulus Of Rupture (MOR). The specimen size is 20x20x300 mm for the British standards, BS 373:1957, using metric units, with an actual 28 in 280 mm span respectively. The load is applied at the centre of the span at a constant speed of 0.10 in/min for the 2 in standard and 0.11 mm/sec for the 20mm standard, until the test specimen fails. The result shows that Merbau had the highest value of MOE and MOR with 12878.13 Mpa and 93.10 Mpa and Gelam had the lowest of MOE and MOR with 9251.95 Mpa and 70.28 Mpa.