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Changes in Bending Properties and Shrinkage of Kiln Dried Todomatsu (*Abies sachalinensis*) Wetwood

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- Abstract: Changes in bending properties and shrinkage of heat-treated todomatsu (*Abies sachalinensis* Mast.) wetwood were investigated. Specimens having dimensions of 7 mm(R)×7 mm(T)×115 mm(L) and 30 mm(R)×30 mm(T)×5 mm(L) were used for bending tests and shrinkage tests, respectively. The wetwood and normal wood specimens were matched in the R-direction. Static and impact bending tests were conducted to measure Young's modulus, bending strength, work to rapture in static bending and absorbed energy in impact bending. Specimens were heated at 100, 120 and 140°C till their weights were constant. The properties of heat-treated specimens were compared to those dried at room temperature. As a result, it was found that wetwood and normal wood had similar static bending properties, impact bending properties and shrinkage. This means that drying did not significantly affect the quality of wetwood as compared to normal wood.
- *Keywords:* wetwood, static bending properties, impact bending properties, shrinkage, high temperature drying

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