



A Performance Evaluation of Cross-Laminated Timber Manufactured With Aspen

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Summary:

CLT is an engineered wood product made from 3-7 layers of lumber assembled with alternating grains. Typically softwood lumber is used to manufacture CLT, but as Aspen (*Populus tremuloides*) lumber is highly available in Minnesota, this study was performed to investigate its feasibility for use in CLT panels. A CLT panel was manufactured using locally-acquired aspen lumber and tested for flatwise bending properties. A maximum load of 20.98 kN was found for the panel, which exceeds the standard [9]. However, the values found for MOE and MOR of 8,068 MPa and 13.26 MPa, respectively, were below those of the standard. This research was supported by the Undergraduate Research Opportunities Program (UROP).

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