



## Mass Timber Economics of 7-12 Storey Residential Rental Buildings

<https://research.thinkwood.com/en/permalink/catalogue2813>

Organization:	Morrison Hershfield BC Housing
Country of Publication:	Canada
Material:	CLT (Cross-Laminated Timber) DLT (Dowel Laminated Timber) Glulam (Glue-Laminated Timber) NLT (Nail-Laminated Timber)
Application:	Wood Building Systems
Topic:	Cost Design and Systems
Keywords:	Cost Effective Cost-Competitive ROI Building Code Affordable Housing Mass Timber
Research Status:	In Progress
Notes:	Project contact is Eric Wood at Morrison Hershfield

### Summary:

The study assesses the potential of mass timber multi-unit residential construction as it compares to traditional methods including concrete and steel in terms of cost competitiveness, cost effectiveness, financial value and ROI. The analysis will include potential limitations of existing building codes, how the codes support or constrain the use of mass timber, including impacts to affordability, and whether further industry and government support of tall wood construction is needed to integrate it into Canada's housing supply. To inform the analysis, the study produces base case archetypes for concrete and steel structures, and then create a series of comparative archetypes mass timber structures and hybrid structures in the range of 7-12 storeys.