

Application of Analysis Tools from
NEWBuildS Research Network in
Design of a High-Rise Wood Building



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Summary:

In this project, a conceptual but realistic 20-storey building of hybrid construction incorporating massive timber panels and other structural materials was identified. The project team, consisting of three practicing consultants and 6 graduate student and post-doctoral researchers from NEWBuildS, undertook an analysis and engineering design of the demonstration building. An advisory group that includes FPInnovations scientists, NEWBuildS supervisors of the graduate students and Post Doctoral Fellows, provides technical support to the project team. The performance attributes addressed in the project were structural performance under seismic and wind load, fire resistance and building envelope. . This publication documents the analysis and design of the demonstration building, and identifies technical issues that require further study.

Online Access: Free

Resource Link

<https://www.bcfii.ca/wp-content/uploads/2021/02/fii415-2014-15-newbuilds-application-of-analysis-tools-in-design-of-high-rise-wood-building-1.pdf> ↗