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Summary

Cross-laminated timber (CLT), an innovative engineered wood product developed in Europe, has been gaining increasing popularity in residential and non-residential applications in several countries. Numerous impressive buildings built around the world using CLT have become a good testimony of the many advantages that this product can offer to the construction sector.

While this product is well-established in Europe, work on the implementation of CLT products and systems has just begun in Canada and the United States. The use of CLT in North America is gaining interest in both the construction and wood industries.

Under the Transformative Technologies Program of Natural Resources Canada, FPInnovations launched a multi-disciplinary research program on CLT in 2005. Based on studies and the knowledge gained from the European experience, FPInnovations has prepared this peer-reviewed CLT Handbook. This Handbook provides key technical information related to the manufacturing, design and performance of CLT in construction in the following areas:

- Cross-laminated timber manufacturing
- Structural design of cross-laminated timber elements
- Seismic performance of cross-laminated timber buildings
- Connections in cross-laminated timber buildings
- Duration of load and creep factors for cross-laminated timber panels
- Vibration performance of cross-laminated timber floors
- Fire performance of cross-laminated timber assemblies
- Acoustic performance of cross-laminated timber assemblies

- Building enclosure design of cross-laminated timber construction
- Environmental performance of cross-laminated timber

Finally, this comprehensive Handbook provides immediate support for the design and construction of CLT systems as alternative solutions in building codes. Additionally, it provides technical information for implementing CLT systems in building codes and standards.

Cost

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