



“CLT is a very adaptable structural material that offsets the embodied energy of other materials used in buildings.”

32 m span swimming pool roof:  
120 cubic metres of solid wood cross-laminated timber (CLT) 2.4 m x 8 m panels.

*Project:*

*Wayne Gretzky Sports Complex  
Brantford, Ontario*

- Moses Structural Engineers designed staggered 2-span layout to minimize loading on girders.
- High in-plane shear strength of CLT eliminated sheathing in the diaphragm design.
- CLT is ideal in a country like Canada where our forests are sustainably harvested.
- Since CLT panels are often screwed into place, they lend themselves to dis-assembly and re-use in the future.

- Buildings assemble rapidly, fit much tighter and produce less site waste.
- Tighter building envelopes increase energy efficiency.

*CLT panels use comparatively low amounts of energy to harvest, manufacture and install.*

Contact us for your next CLT design: 416-255-3337  
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*CLT and detailed design: Moses Structural Engineers Inc.  
Architects: CS&P Architects Inc., Toronto and MMMC Inc. Architects, Brantford  
Building structural engineer of record: Yolles, a CH2M Hill Company, Toronto  
Photography: Sarah Hicks*

Based on information from the *CLT Handbook*, 2011 and *Tackle Climate Change: Use Wood*, 2009.



moses structural  
engineers