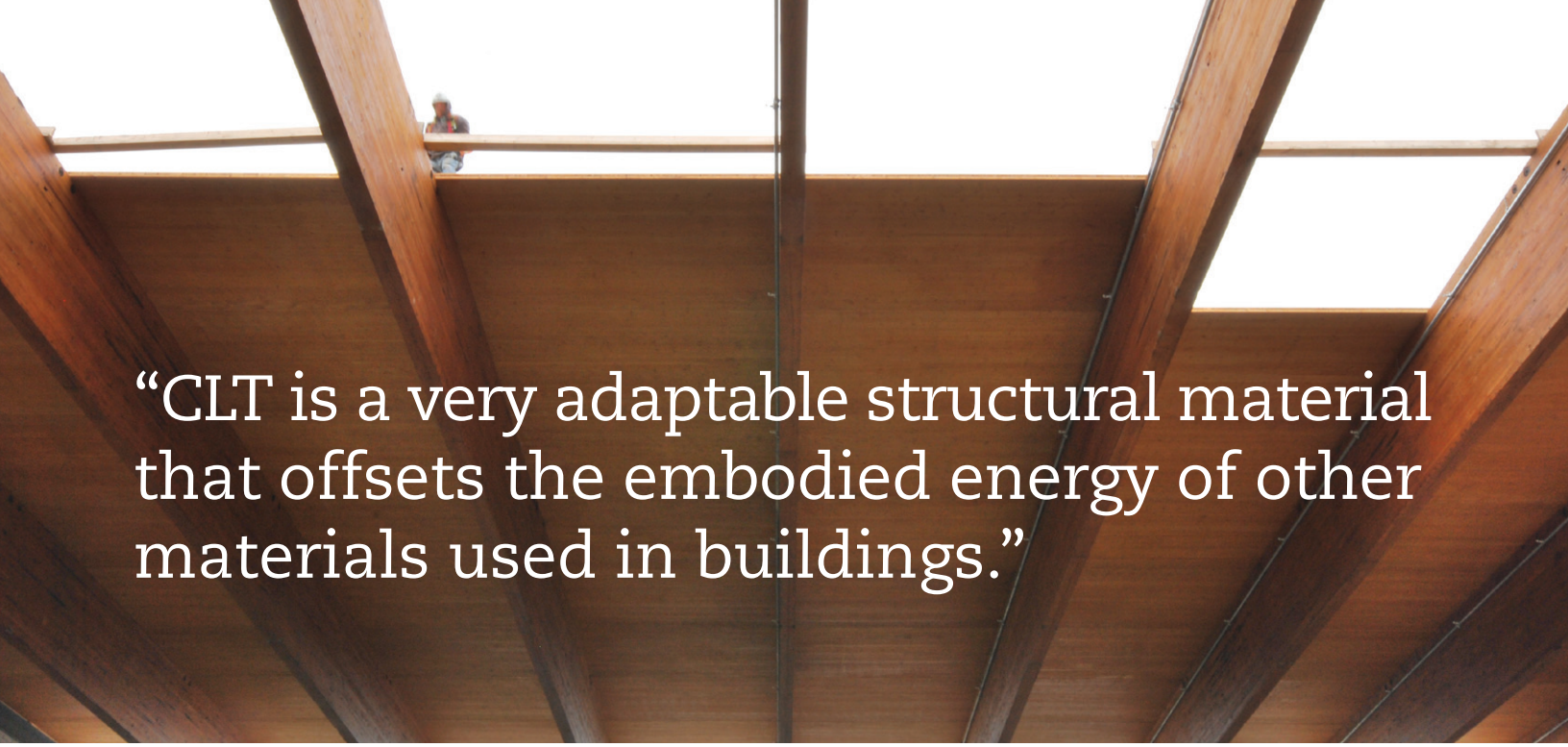

“CLT is a very adaptable structural material that offsets the embodied energy of other materials used in buildings.”

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 Centre
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.

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.

- 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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www.mosesstructures.com

moses structural
engineers